INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov
Michael R. Pence, *Governor*
Carol S. Comer, *Commissioner*

March 15, 2016

Ms. Erica Aultz
NPL Coordinator
Superfund Division
U.S. EPA, Region V, MC SR-6J
77 West Jackson Boulevard
Chicago, IL 60604-3507

Dear Ms. Aultz:

Re: Site Inspection
Bean Blossom/Patricksburg Water Corp.
Ground Water Contamination
Spencer, Owen County, IN
SEMS ID # INN000510959

Site Summary

In December 2014, IDEM staff completed a Preliminary Assessment (PA) report for the Bean Blossom/Patricksburg Water Corporation (BBP) located in the Town of Spencer, Owen County, Indiana. The PA cited the need for a Site Inspection (SI).

BBP has been in operation in Spencer since 1971, and officially changed their name to BBP Water Corporation in 2008. The new water treatment plant is located at 256 W. Clay St., Spencer, Indiana. BBP serves the communities of Spencer, Stinesville, Patricksburg, and Bowling Green. A total population of 9,903 people is served by the three (3) municipal wells located in the BBP well field.

In 2011 and 2012, the first detections of tetrachloroethylene (PCE) were discovered in the finished blended water at the BBP water treatment plant. On September 30, 2014, IDEM staff conducted a sampling event of the raw water from Wells 1, 2, and 3 of the BBP southern well field. PCE was detected in all three (3) wells, with Well 2 exceeding the EPA Drinking Water Maximum Contaminant Level (MCL) for PCE (MCL = 5 µg/L).

A SI was completed on June 23 and 24, 2015 by IDEM Site Investigation staff. A total of 19 groundwater and nine (9) subsurface soil samples were completed as part of this investigation. All samples were analyzed for volatile organic compounds (VOCs).

Groundwater sample results indicated the presence of the main contaminant of concern (PCE) in multiple samples collected. PCE was detected in groundwater at 220

µg/L at the former Ranard's Cleaners at 17 E. Franklin Street, at 180 µg/L at the former location of Richardson Cleaners at 7 Fletcher Avenue, and at 5.7 µg/L on the Spencer Coin Laundry facility at 401 W. Morgan Street. PCE was also detected at a private residential well downgradient of the former Ranard's Cleaners at a concentration of 140 µg/L at [redacted]. PCE was only detected in one soil sample at 7 Fletcher Avenue at a concentration of 1,200 µg/Kg.

If you have questions regarding the contents of this correspondence, please contact me at (317) 234-3505 or at ncooper1@idem.in.gov.

Sincerely,

Nick Cooper
Senior Environmental Manager
Site Investigation Program
Federal Programs Section
Office of Land Quality

NJC:rr
cc: Denise Boone, U.S. EPA
Frances Dean, U.S. EPA
Rex Osborn, IDEM

SITE INSPECTION REPORT

Bean Blossom/Patricksburg Water Corp.
SPENCER, INDIANA
OWEN COUNTY
EPA ID #: INN000510959

Prepared by

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY
FEDERAL PROGRAMS SECTION
SITE INVESTIGATION PROGRAM

November 23, 2015

Signature Page

Site Inspection Report

Bean Blossom/Patricksburg Water Co.
SPENCER, INDIANA
OWEN COUNTY
EPA ID #: INN000510959

Prepared by: Nicholas J. Cooper Date: 11/23/15

NICK COOPER, PROJECT MANAGER
Site Investigation Program, Federal Programs Section
Indiana Department of Environmental Management

Approved by: [signature] Date: 11/23/2015

REX OSBORN, SECTION CHIEF
Federal Programs Section
Indiana Department of Environmental Management

Approved by: Erica Ahlt Erica Ahlt Date: 3/15/2016

EPA SITE ASSESSMENT MANAGER
U.S. EPA Region V

TABLE OF CONTENTS

SECTION **PAGE**

SECTION 1.0 INTRODUCTION 1

SECTION 2.0 SITE BACKGROUND 2

SECTION 2.1 SITE DESCRIPTION AND LOCATION 2

SECTION 2.2 SITE HISTORY 2

SECTION 3.0 PROCEDURES, FIELD INVESTIGATIONS, AND ANALYTICAL RESULTS 4

SECTION 3.1 SITE RECONNAISSANCE 4

SECTION 3.2 SAMPLING PROCEDURES 4

SECTION 3.3 ANALYTICAL RESULTS 5

SECTION 3.4 OTHER POTENTIAL SOURCES 10

SECTION 4.0 MIGRATION PATHWAYS 11

SECTION 4.1 GROUNDWATER 11

Section 4.1.1 Site Geology (Regional Background) 11

Section 4.1.2 Hydrostratigraphy of Study Area 12

Section 4.1.2.1 Unconsolidated Stratigraphy 12

Section 4.1.2.2 Bedrock Stratigraphy 12

Section 4.1.3 Hydrogeology 12

SECTION 4.2 SURFACE WATER 13

Section 4.2.1 Drinking Water Threat 14

Section 4.2.2 Human Food Chain Threat 14

Section 4.2.3 Environmental threat 14

SECTION 4.3 SOIL EXPOSURE 14

SECTION 4.4 AIR ROUTE 15

SECTION 5.0 SUMMARY 16

SECTION 6.0 REFERENCES 17

ATTACHMENTS

Attachment—A	Figure 1. Site Location Map (Confidential) Figure 2. Site Topography Map Figure 3. Four-Mile Radius Map Figure 4. 15-Mile Surface Water Map Figure 5. Wellhead Protection Area Map (Confidential) Figure 6. Sample Location Map (Confidential) Figure 7. Groundwater Sampling Results (Confidential) Figure 8. Soil Sampling Results (Confidential)
Attachment—B	Table 1. Historical BBP Treatment Plant PCE Drinking Water Analytical Results Table 2. Significant Water Withdrawal from BBP Water Co. (2011-2014) Table 3. Background Samples for Groundwater Table 4. All Detected VOCs in Groundwater Table 5. Background Sample for Soil Table 6. All Detected VOCs in Soil
Attachment—C	Historical VOC Analytical Results from BPP Water Treatment Plant (2011-2015)
Attachment—D	Sampling Event VOC Analytical Results Laboratory Data Package
Attachment—E	Site Photograph Log (Confidential)
Attachment —F	Well Records
Attachment—G	IDNR Sensitive Environments Letter (Confidential)
Attachment—H	Boring Logs and Field Sheets
Attachment—I	IDEM’s Drinking Water Branch Additional Investigation Map and Analytical Results
Attachment—J	IDEM’s State Cleanup Section Additional Investigation Analytical Results

SECTION 1.0 INTRODUCTION

The Indiana Department of Environmental Management (IDEM), Office of Land Quality (OLQ), Site Investigation Program, Federal Programs Section under a Cooperative Agreement (CA) with the United States Environmental Protection Agency (U.S. EPA), Region V Office, has been funded to perform Site Inspections (SI) at certain sites listed in the Superfund Enterprise Management System (SEMS). This work is conducted under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, commonly known as Superfund, and the Superfund Amendments and Reauthorization Act (SARA) of 1986.

The primary objectives of the SI are:

- to collect data that will be used in the Hazard Ranking System (HRS) to determine whether the site is eligible for placement on the National Priorities List (NPL);

- to identify sites that may require removal actions to address immediate threats to human health and/or the environment.

The Site Investigation Program was given approval by the U.S. EPA to conduct a SI at the Bean Blossom/Patricksburg Water Corporation (BBP) located in the Town of Spencer, Owen County, Indiana. The approval was given following the completion of a Preliminary Assessment (PA) completed on December 8, 2014 that cited the need for a SI. Information contained in this report will be used to evaluate this site to support a decision regarding the need for further Superfund action, including the possibility for the BBP Site to be considered for inclusion on the NPL of hazardous waste sites.

SECTION 2.0 SITE BACKGROUND

Section 2.1 Site Description and Location

The Bean Blossom/Patricksburg Water Corporation's (BBP) treatment plant is located at 256 W. Clay Street, Washington Township, Spencer, Owen County, Indiana 47460 (Attachment A, Figure 1). Spencer is located in southwestern Indiana with a population of approximately 2,217 in the city limits and a population in Owen County of approximately 21,575 (U.S. Census QuickFacts 2014).

BBP has two (2) well fields, which will be referred to as the "north(ern)" and "south(ern)" well field. The north wellfield contains four (4) total wells. These wells are no longer used to pump water for distribution because water pumped from these wells cannot be treated by the new water treatment plant. The wells originally had water quality issues related to iron and manganese, which along with their age and low capacity, prompted the switch to a different well field. Only two (2) of the four (4) wells are currently operable and they are strictly used as backup wells in the event of an emergency. BBP has future plans to properly abandon these wells. The north well field is located at 770 W. Franklin Street, which is approximately 0.25 miles northwest of the southern well field.

The southern well field is located behind BBP's main treatment facility. The south well field property is found on the United States Geological Survey Spencer Quadrangle (7.5 Minute Series) Topographic Map at 39°16'53.382" N latitude, -85°46'4.015" W longitude, Township 10 North, Range 3 West, Section 29 (Attachment A, Figure 2). The south well field contains three (3) municipal wells which are currently used to provide all of the drinking water distributed by BBP.

The south well field property adjoins the north bank of the White River on the southwestern edge of the Town of Spencer (Attachment A, Figure 1). The southern well field is located in a large field and it is bordered to the west by another large field that is also owned by BBP. The well field is bordered to the north by the Riverside Cemetery and to the east by the BBP water treatment plant and residential areas. The parcel is 9.76 acres in a commercial and industrial land use area.

Section 2.2 Site History

The Bean Blossom/Patricksburg Water Corporation began operation in 1971. In 2008, the corporation officially changed its name to BBP Water Corporation. This change was associated with a new drinking water treatment plant that became operational in February 2008 (BBP Water Corp. 2014). This new plant is located at 256 W. Clay St., Spencer, Indiana. The BBP Water Corporation serves the communities of Spencer, Stinesville, Patricksburg, and Bowling Green (BBP Water Corp 2014).

There are seven (7) total municipal wells associated with the treatment plant. Wells 1, 2, and 3 are the only active wells (Attachment A, Figure 1) located in the southern wellfield. Water from Wells 1, 2, and 3 is pumped to the drinking water treatment plant, where the water is mixed and then distributed to customers. Wells 4, 5, 6, and 7 are older backup wells in the northern wellfield located at 770 W. Franklin Street. According to information obtained from a BBP employee, only two (2) of the backup wells are operational. According to Indiana Department of Natural Resources (IDNR) records, these wells have not been used in at least the past four (4) years (IDNR 2014a and IDNR 2015; Attachment B, Table 2).

In June 2011, the first detection of tetrachloroethylene (PCE) was discovered during annual sampling in finished water at the BBP drinking water treatment plant at a concentration of 1.2 micrograms per liter (µg/L). A second detection of PCE occurred at a concentration of 1.4 µg/L in February 2012. The finished water was sampled again in February of 2013 and 2014; however, no PCE was detected (Attachment B, Table 1).

At the time of the 2011 PCE detection, Wells 1 and 2 were each contributing 50% of the water being treated, and Well 3 was not in use (Attachment B, Table 2). During February 2012, when the second detection occurred, Well 1 was providing 45.56%, Well 2 was providing 53.04%, and Well 3 was providing 1.40% of the total water being pumped to the plant. During the February 2013 and 2014 sampling, Well 3 was providing 100% of the water being pumped (Attachment B, Table 2).

As a result of PCE detections in the finished water in 2011 and 2012, IDEM Site Investigation staff completed a Pre-CERCLA Screening (PCS) in January 2013 (IDEM Virtual File Cabinet (VFC) 2013). A Preliminary Assessment (PA) Report was completed by IDEM in December 2014 (IDEM VFC 2014). From the PA, several potential sources of the PCE were identified. PCE is a common contaminant found at dry cleaning facilities. Within the city limits of Spencer, three (3) historical dry-cleaners were discovered. These dry-cleaners were identified using historical county maps, old phone books, and interviews with local residents. The most recent dry-cleaner located less than 0.5 miles northeast of the well field operated from the early 1980s until 2002. Other potential sources were identified in the Wellhead Protection Plan (WHPP) completed for BBP in Spencer, Indiana in 2001 (IDEM VFC 2001). This WHPP had revisions that were added in September 2009 and December 2010. The revised WHPP identified additional potential sources of contamination within the wellhead protection area (WHPA).

During the PA, raw water samples were collected from the municipal wells in BBP's southern wellfield. These samples demonstrated detections of PCE over EPA Drinking Water Maximum Contaminant Levels (MCLs) in Well 2 (Attachment B, Table 1). Following these results, beginning in December 2014, IDEM ordered monthly raw

water samples from each well in the southern well field. A complete list of all sampling dates and detections for PCE and select other volatile organic compounds (VOCs) can be viewed in Attachment B, Table 1. The full analytical results of the VOC sheets can be viewed in Attachment C.

SECTION 3.0 Procedures, Field Investigations, and Analytical Results

Section 3.1 Site Reconnaissance

Prior to the Site Inspection (SI), IDEM representatives conducted multiple site visits to identify potential sources and obtain access agreements. A signed access agreement was obtained for every property that was accessed and sampled for this sampling event. Multiple meetings with IDEM's Drinking Water Section and BBP employees also occurred to further discuss IDEM's Site Investigation Program's SI.

Section 3.2 Sampling Procedures

On June 23 (Day 1) and June 24 (Day 2), 2015, IDEM Site Investigation staff mobilized to Spencer, Indiana for the sampling event. Groundwater and subsurface soil samples were collected from properties where signed access agreements had been obtained. The samples were collected and analyzed for VOCs as provided in the IDEM Quality Assurance Project Plan (QAPP) and the Contract Laboratory Program (CLP) protocol. VOCs were analyzed at the CLP lab using the CLP SOW SOM02.2 (Trace Volatiles) analysis procedure.

Weather conditions for sampling on Day 1 were sunny to partly cloudy with temperatures in the lower 80s. Weather conditions for sampling on Day 2 were cloudy with a small rain shower in the afternoon and temperatures in the lower 80s. On Day 1, IDEM staff divided into two (2) teams, including one team to sample municipal wells and private residential wells and the other team dedicated to the direct push drill rig to collect soil and groundwater samples. On Day 2, only one team was needed and it was designated to assist the drill rig and collect soil and groundwater samples.

IDEM staff collected a total of 19 groundwater samples and nine (9) subsurface soil samples. This total includes two (2) duplicate groundwater samples, one (1) duplicate soil sample, and three (3) water trip blanks. Additional volume was collected from one (1) groundwater and one (1) subsurface soil sample for Matrix Spike/Matrix Spike Duplicate (MS/MSD) purposes.

Raw groundwater samples were collected from four (4) municipal wells to confirm that they were still being impacted by VOCs. These samples were collected from spigots attached to each of the well towers (see pictures in Attachment E) before water is transported to the treatment plant. Four (4) samples were collected from private

residential wells. These samples were also collected from an outside spigot before any treatment occurred. All wells were allowed to purge for a minimum of 15 minutes, unless it was an active well pumping before collection, in which no purge was necessary.

Additionally, a total of seven (7) soil borings were completed. From these borings, a total of eight (8) groundwater samples and nine (9) soil samples were collected. Groundwater collected from soil borings was collected using a peristaltic pump. Borings were completed using a direct push drill rig reserved for collecting subsurface soil samples. Subsurface soil collected from the soil borings were screened using a MultiRae Photoionization Detector (PID) that detects a variety of VOCs. Soils collected from the cores were bagged at every two (2) foot interval and screened using the PID. The soil was collected from the interval with the highest PID detection for VOCs; if no detections occurred using the PID, the soil sample was collected from an interval above the water table.

All groundwater samples were collected using three (3) 40 milliliter (mL) glass vials containing hydrochloric acid (HCl) for preservation. Subsurface soil samples were collected using three (3) EnCore samplers and one (1) 4 ounce (oz) jar for percent solids. All samples were placed in sealed plastic bags and immediately moved to an ice-filled cooler after collection. Nitrile gloves and other personal protection equipment (PPE) were worn during sample collection. All samples were shipped to a U.S. EPA CLP laboratory at the conclusion of sampling each day.

Section 3.3 Analytical Results

Analytical results were received by IDEM via electronic mail on August 31, 2015. All samples were analyzed for VOCs at a CLP laboratory using the CLP SOW SOM02.2 (Trace Volatiles) analysis procedure. IDEM staff conducted a Quality Assurance/Quality Control (QA/QC) review of the analytical data package and all results have been deemed acceptable for use based on CLP criteria. The full analytical data package can be viewed in Attachment D.

Attachment A, Figure 6 shows all sampling locations and sample IDs for this sampling event. Attachment A, Figure 7 shows all groundwater sampling locations and associated concentrations for PCE and TCE. Attachment A, Figure 8 shows all soil sampling locations and associated concentrations for PCE. Boring logs and field sheets from the sampling event can be viewed in Attachment H.

<u>BBP South Well Field</u>

Three (3) groundwater samples were collected from the south well field from the three (3) municipal wells on site. Sample E2TG4 (MW1) was collected from Municipal Well 1, E2TG5 (MW2) collected at Municipal Well 2, and E2TG6 (MW3) collected at

Municipal Well 3. PCE was detected in each of the three (3) municipal drinking water wells at concentrations of 1.3 µg/L, 14 µg/L, and 0.71 µg/L for Well 1, 2, and 3, respectively. See Attachment B, Table 4 for all detected VOCs in groundwater from this SI. Attachment B, Table 1 shows all known sampling and detections from these wells dating back to 2011.

Well 1, installed in 1987, has a total depth of 67 feet below ground surface (bgs), with bedrock at 68 feet bgs. Well 2, installed in 1989, has a total depth of 77 feet bgs with bedrock at 77 feet bgs. Well 3, installed in 2000, has a total depth of 80 feet bgs and depth to bedrock is unknown (no well record exists for Well 3). Well records, pump installation/repair reports, and a cross sectional drawing of wells and soil in Spencer from the WHPP can be seen in Attachment F.

BBP North Well Field

One (1) groundwater sample was collected from Municipal Well 4 in the north well field. This is a backup well that is no in operation for drinking water use. Sample E2TG7 (MW4) was collected as a background sample and also used for MS/MSD purposes. Municipal Well 4 was installed in the early 1900s and has a depth of approximately 97 feet bgs. Well records and a well report can be found in Attachment F. No VOCs were detected in this sample. See Attachment B, Table 3 for a summary of all background sampling locations and VOC detections from this SI.

Former Ranard's Cleaners

One (1) groundwater and two (2) soil samples were collected from one (1) soil boring completed on the property of a former dry-cleaner called Ranard's Cleaners. Sample E2TJ8 (GW8) was the groundwater sample collected from the soil boring. The groundwater sample was collected at a depth of 26 feet bgs. PCE was detected in the groundwater at a concentration of 220 µg/L and several other VOCs were also detected (Attachment B, Table 4). Soil samples E2TJ9 (SS4) and E2TH7 (SS9) were collected at depths of 2.5 and 8 feet, respectively. PCE was detected at a depth of 2.5 feet at a concentration of micrograms per kilogram 4.0 µg/kg. Soil sampling results for all locations sampled can be viewed in Attachment B, Table 5.

Although only low levels or no PCE was detected in soil samples E2TJ9 and E2TH7, previous sampling by IDEM's State Cleanup Section at this location discovered detections of PCE and trichloroethylene (TCE) in soil. Two soil samples (including a duplicate) collected approximately three (3) feet northeast of the back door at this location to a depth of three (3) feet had detections of PCE of 12,000 µg/kg and 2,300 µg/kg and TCE of 9.4 µg/kg and 8.1 µg/kg (Attachment J).

Ranard's Cleaners was located on the north side of the town square in Spencer at 17 E. Franklin Street. This dry cleaner operated from 1981 until 2002 according to old phone books. In the phone books, this dry cleaner was listed as Owen Valley Cleaners in 1981, Dunigan Cleaners in 1982, and Ranard's Cleaners from 1983 until 2002. After 2002, the dry cleaning facility moved to a location outside of the city limits. All of these names had the same phone number and address of 3 E. Franklin St. However, after speaking to the property owner, it appears that the dry cleaner operated out of what is now 17 E. Franklin Street.

Private Residential Well – [redacted]

Two (2) groundwater samples were collected from a private residential well located at [redacted]. These addresses are for five (5) individual properties that all make up a [redacted]. This well is used strictly for the heating system in all five (5) of the [redacted] Each of these properties is connected to municipal water, and this private well is not used for drinking water. The sample was collected from a spigot that is located in the parking lot adjacent to the [redacted] to the west. The spigot is the only location available to extract a sample from this well. Sample E2TG8 (GW4) and sample E2TG9 (GW5), which is a duplicate of E2TG8, were collected from this well. PCE was detected in both samples at a concentration of 140 µg/L (Attachment B, Table 4).

Based on the well record (Attachment F), this well was installed in 1983 and has a depth of 90 feet bgs. This private well is located approximately 0.19 miles southwest, downgradient, from the former Ranard's Cleaners. A second dry-cleaning facility was also located upgradient of this well on the west side of the Town Square. The dry-cleaner that used to operate at this location was called Miller Cleaners and has years of known operation from 1948 to 1959 based on old telephone directories. No other historical directories could be located, so the full length of operation is unknown.

Spencer Presbyterian Church

One (1) groundwater and one (1) soil sample was collected from the one (1) soil boring completed on the Spencer Presbyterian Church property located at 156 N. Main Street. This location was selected as a background sample that is located 0.10 miles north (upgradient) of the former Ranard's Cleaners. Sample E2TH4 (GW3) was the groundwater sample collected from the soil boring at a depth of 34.8 feet bgs. Several VOCs, including PCE at a concentration of 0.15 µg/L, were detected in this sample. All VOCs detected and concentrations can be viewed in Attachment B, Table 3.

Sample E2TH5 (SS1) was the subsurface soil sample collected from the boring at a depth of 28 feet bgs. Acetone and methylene chloride were detected in this soil sample (Attachment B, Table 5).

Demil LLC

Two (2) groundwater and two (2) soil samples were collected from one (1) soil boring completed on the Demil property located at 640 E. Franklin Street and operates as a Humvee demilitarization facility. Samples E2TJ4 (GW10) and E2TJ6 (GW11; duplicate of GW10) were the groundwater samples collected from the soil boring at a depth of 18 feet bgs. Several low-level VOCs were detected in these samples, including PCE at a concentration of 0.19 and 0.22 µg/L (Attachment B, Table 4).

Samples E2TJ5 (SS6) and E2TJ7 (SS7; duplicate) were the soil samples collected from this soil boring at a depth of 11 feet bgs. No VOCs were detected in either sample (Attachment B, Table 6).

South Fletcher Avenue

One (1) groundwater and one (1) soil sample was collected from the one (1) soil boring completed at 7 Fletcher Avenue property. The boring was completed in the parking area to the south of the McDonald's Corporation building. Sample E2TJ2 (GW9) was the groundwater sample collected from the soil boring at a depth of 26.5 feet bgs. PCE was detected in the groundwater at a concentration of 180 µg/L and several other VOCs were also detected (Attachment B, Table 4).

Sample E2TJ3 (SS5) was the subsurface soil sample collected from the boring at a depth of 30 feet bgs. PCE was detected at a concentration of 1,200 µg/kg in this soil sample (Attachment B, Table 6).

The parking lot where these samples were collected is located at the location of a former dry-cleaning facility. The former dry-cleaner was called "Richardson Cleaners," and it has years of known operation from 1948 to 1959 based on old telephone directories. No other historical directories could be located, so the full length of operation is unknown. An advertisement from the old telephone directories lists "dry cleaning" as one of their main services. The parcel where the soil boring was located and the adjacent parcels believed to the location of the former dry-cleaner are now used as a parking lot for McDonald's.

Coin Operated Laundry

One (1) groundwater and one (1) soil sample was collected from the one (1) soil boring completed on the Spencer Coin Operated Laundry facility located at 401 W. Morgan Street. The boring was completed in the parking area to the south of the main building on site. Sample E2TJ0 (GW12) was the groundwater sample collected from the soil boring at a depth of 12.5 feet bgs. PCE was detected in the groundwater at a concentration of 5.7 µg/L and other VOCs were also detected (Attachment B, Table 4).

Sample E2TH3 (SS8) was the subsurface soil sample collected from the boring at a depth of 12 feet bgs. No VOCs were detected in this soil sample (Attachment B, Table 5).

Town of Spencer – 10 Height St.

One (1) groundwater and one (1) soil sample was collected from the one (1) soil boring completed on Town of Spencer property located at 10 Height Street. The boring was completed near the corner of Height and Walnut streets on the south side of this property. Sample E2TH8 (GW7) was the groundwater sample collected from the soil boring at a depth of 12 feet bgs. Toluene and several other VOCs were detected in the groundwater; however no PCE was detected (Attachment B, Table 4).

Sample E2TH9 (SS3) was the subsurface soil sample collected from the boring at a depth of 12 feet bgs. Acetone was the only VOC detected in this soil sample (Attachment B, Table 6).

Private Residential Well – [redacted]

One (1) groundwater sample was collected from a private residential well located at [redacted]. Sample E2TH0 (GW2) was collected as a background sample. No well record exists for this well, and total depth is unknown. PCE was detected in this well at a concentration of 0.33 µg/L (Attachment B, Table 3).

Private Residential Well – [redacted]

One (1) groundwater sample was collected from a private residential well located at [redacted]. Sample E2TH1 (GW1) was collected as a background sample. This well was installed in 1968 and has a total depth of 76 feet bgs (Attachment F). No VOCs were detected in this sample (Attachment B, Table 3).

Additional Investigation

Additional direct push drill rig sampling was completed in the BBP Water Corporation's wellfield by IDEM's Drinking Water Branch on June 25 and August 5, 2015. The sampling completed included a total of six (6) soil borings from which 12 total groundwater samples were collected. See Attachment I for the figure of soil boring locations and results.

These borings were completed to help determine from which direction the groundwater plume was entering the wellfield. Multiple groundwater samples were collected from each boring, including a shallow and a deep sample from each boring (see table below). However, no PCE was detected in any of the groundwater samples. The full analytical results from these samples can be found in Attachment I.

In addition to collecting samples from the soil boring locations, one (1) sample was collected from a test well that was installed by BBP and their contractors during the summer of 2015.

Boring #	Sample ID	Depth (ft)
1	DK32000	60
1	DK32001	30
2	DK32002	64
2	DK32003	34
3	DK32004	59
3	DK32005	29
4	DK32007	29.5
4	DK32008	59.5
5	DK32009	29.5
5	DK32010	59.5
6	DK32011	29.5
6	DK32012	59.5
Test Well	DK32006	89

Section 3.4 Other Potential Sources

The analytical results suggest that there are multiple potential sources to the contamination that is affecting the municipal well field. Other industrial potential sources of the contamination are outlined below.

- Stello Products – located at 840 W. Hillside Ave., Spencer. This facility has operated a metal sign painting facility for many years in Spencer.
- Boston Scientific – located at 780 Brookside Dr., Spencer. This facility produces minimally invasive medial products.
- Spencer Evening World and World Arts, Inc. – located at 114 E. Franklin St. and 156 E. Franklin St., respectively. These facilities operate as a commercial printing business.

SECTION 4.0 MIGRATION PATHWAYS

Section 4.1 Groundwater

The BBP Water Corporation is classified as a community water system that serves the communities of Spencer, Stinesville, Patricksburg, and Bowling Green (BBP Water Corp 2014). A population of 9,903 individuals from these communities is served by the three (3) active municipal wells (SDWIS 2014). The target population in the 4-mile radius around the BBP municipal wells is represented in Figure 3 in Attachment A. However, water from BBP is distributed to residents outside of this 4-mile radius. Any other resident within the 4-mile radius that does not have a municipal water connection with BBP is served by private residential wells.

Groundwater from the southern well field is pumped to the nearby water treatment plant. Unfinished groundwater is pumped to the treatment plant, where water from the three (3) municipal wells is mixed. Wells 1, 2, and 3 are located in a sand and gravel aquifer at depths of 67, 77, and 80 feet bgs, respectively (Attachment B, Table 2). All of the wells in the north and south well fields are located within the same aquifer. Monthly pumping rates, well depths, and well capacities are shown in Attachment B, Table 2. Groundwater flow direction is primarily towards the southwest near the well field. The 1, 5, and 10 year time of travel (TOT) for the WHPA is represented in Attachment A, Figure 5.

Wells 1, 2, and 3, located in the southern wellfield, have documented consistent detections of PCE (Attachment B, Tables 1 and 4). Well 2 has also had consistent detections above MCLs in raw water. PCE was detected in four (4) upgradient sample locations, three (3) of which were potential source samples. See Attachment B, Table 4 for the “Key Findings and Background for VOCs in Groundwater” results and Attachment A, Figure 7 for a map of the corresponding sample locations in relation to the impacted wellfield.

Section 4.1.1 Site Geology (Regional Background)

The study area lies within the Crawford Upland Regional Slope physiographic unit (Fenelon 1994). A series of ice-age events formed the landscape in this study area. Pre-Wisconsinan Age glacial deposits cover the surrounding till plain (Gray 1989). The aquifer is in the sand and gravel outwash that fills the bedrock valley below the river. Modern alluvium, through which the White River has cut its channel, caps the sand and gravel outwash. The upland area is a dissected till plain where most of the bedrock is covered by fine grained glacial deposits. The White River has removed and reworked some of the glacial deposits from the ancient floodway. There are abandoned

limestone quarries immediately west of Spencer where bedrock is exposed (Gray 1989).

Section 4.1.2 Hydrostratigraphy of Study Area

Section 4.1.2.1 Unconsolidated Stratigraphy

Soils in the study area consist of Gessie silt loam and Stonelick sandy loam. Both soil series are generally found on flood plains in areas of Wisconsinan glacation and consist of very deep, well-drained soils that formed in calcareous, loamy alluvium. Slope ranges from 0 to 2 percent (USDA 2005). The Stonelick series generally has a seasonal high water table greater than 6 feet (ft). The potential for surface runoff is negligible or very low. Saturate hydraulic conductivity is high. Permeability is moderately rapid. This soil is subject to occasional or frequent flooding (USDA 2005).

Section 4.1.2.2 Bedrock Stratigraphy

The bedrock under the BBP well field consists of Mississippian and Pennsylvanian age Sanders Group limestone and dolomite and extends below 400 feet mean sea level (Gray 1982). Drilling at the well field stopped prior to encountering bedrock, so the bedrock depth is not confirmed. There have been several attempts to quantify the exact location of the buried bedrock surface, but there is not enough site-specific drilling data to verify the published Indiana Geological Survey bedrock contours (IDEM VFC 2001).

Section 4.1.3 Hydrogeology

Wisconsinan age “undifferentiated outwash, mainly as valley train sand and gravel” underlies the well field (Gray 1989). These sand and gravel deposits form the groundwater aquifer. Depositional structures in the sand and gravel and flow directions are expected to follow the axis of the main buried bedrock valley. The areas away from the main buried bedrock valley contain groundwater, but that flow is only a small fraction of the total available groundwater. The thick glacial and alluvial fine-grained deposits above the aquifer, and the deep unweathered hard limestone below are not capable of supporting the volume of pumpage (620 gallons per minute (GPM) tested at the BBP well field, obtained from the buried outwash (IDEM VFC 2001).

The three (3) active BBP wells vary from 67 ft to 80 ft bgs and all seven (7) wells are in the same sand and gravel outwash aquifer (IDEM VFC 2001). The direction of groundwater flow is primarily southwest. Groundwater in the

well field is essentially unconfined in the buried sand and gravel, with some recharge from precipitation and some recharge from the White River during heavy pumping. The river was found to have significant control on the groundwater flow system. The most productive wells are Wells 1, 2, and 3, which are closest to the river. Based on descriptions provided in the WHPP, the basic hydrologic parameters for the unconsolidated sand and gravel aquifer are:

- Transmissivity: 7,000 to 25,686 ft^3/ft/day (about 192,156 gallons/day)
- Aquifer Thickness: 33 to 65 ft
- Aquifer Porosity: 20% to 30%
- Hydraulic Gradient: 0.004 ft/ft
- Pumping Rate (total system): 2 ft^3/day (1 per well group) to 108,825 ft^3/day (two groups)

The regional drainage flows southwestward. The modern trunk stream, the Wabash River, flows generally southwest except where modified by ice age deposits and differences in erosional surface of the bedrock. Tributaries to the Wabash River, such as the White River, flow toward the trunk stream. The White River, near the well field, flows through a series of apparent bedrock joint-controlled reaches, regionally southwest towards the Wabash River. The White River flows southwesterly in a broad outwash filled, alluvium capped channel at the well field (IDEM VFC 2001).

Section 4.2 Surface Water

The BBP municipal wells are located directly adjacent to the White River, approximately 200 feet to the north. The White River controls surface water drainage throughout the area as it flows north to south along the eastern and southern portions of the Town of Spencer. A tributary that flows south through the Town of Spencer meets the White River approximately 2,000 feet west of the BBP well field. This perennial stream receives drainage along the western edge of the Town of Spencer. Other surface water drainage from the town flows to infrastructure and to the wastewater treatment plant, which has an outfall into the White River approximately 1000 feet west of Well 3. The Town of Spencer and the municipal wellfield are located within the 14-digit Hydrologic Unit Code (HUC) subwatershed of White River – Spencer which encompasses an area that totals 10,973 acres. The well field is located within the main floodway of the White River and in Zone AE (1% annual chance of flood; IDNR 2014b).

No surface water samples were collected as part of this SI.

Section 4.2.1 Drinking Water Threat

There are no known surface water drinking intakes in the 15-mile Target Distance Limit (TDL) from the BBP well field. All drinking water in this area is provided by BBP municipal wells or private drinking water wells.

Section 4.2.2 Human Food Chain Threat

The human food chain pathway generally targets fisheries where consumption of contaminated species may occur. The White River is a target fishery for potential contamination from the BBP well field's 15-mile TDL (Attachment A, Figure 4).

The 2010 Indiana Fish Consumption Advisory and the EPA National Listing of Fish Advisories (NLFA) indicates a fish consumption advisory for the West Fork White River. The West Fork White River adjacent to the well field has a fish consumption advisory related to polychlorinated biphenyls (PCBs) and mercury in fish tissue related to several fish species. PCBs and mercury are not contaminants of concern for this site. The BBP well field is not a likely cause of the existing fish advisory. A threat to the human food chain via the surface water pathway is unlikely for this site.

Section 4.2.3 Environmental Threat

The Indiana Department of Natural Resources (IDNR) and Indiana Natural Heritage Data Center documents sensitive environments and endangered or threatened species within the State of Indiana. A survey by the IDNR indicated that there are 26 state Endangered, Threatened, or Rare (ETR) species within four (4) miles along the 15-mile TDL (Attachment G). Seven (7) of those species are also federally listed ETR species. Three (3) high quality natural communities and one (1) geologic feature also exists within four (4) miles of the site. See Attachment G for a list of all sensitive environments and ETR species identified by the IDNR. The depth of the municipal wells and the likelihood that the plume is traveling along the bedrock provides evidence that a groundwater to surface water pathway is not likely; therefore, a threat to the environment via surface water pathway is not likely.

Section 4.3 Soil Exposure

No soil samples were collected within the top two feet from the surface as part of this SI. Nearby land use within 200 feet of the southern municipal wellfield is all part of the large field in which the wells are located. The White River is located approximately 200 feet south of the municipal wells. The Riverside Cemetery borders the wellfield

parcel to the north, approximately 300 feet north of the wells. The BBP Water Treatment facility is the next closest structure which borders the wellfield approximately 500 feet to the northeast. The nearest resident to the wellfield is located approximately 600 feet northeast, where land use becomes predominately residential. There are no schools or daycare facilities located within 200 feet of the wellfield.

Section 4.4 Air Route

No airborne migration of contaminants from the site has been documented. No air samples were collected as part of this SI. This site does not pose a likely threat to the air migration pathway.

SECTION 5.0 SUMMARY

In 2011 and 2012, BBP Water Corp. obtained their first detections of PCE in the finished water at the water treatment plant. In September 2014, IDEM conducted a sampling event of the raw water from Wells 1, 2, and 3 from BBP's southern well field. PCE detections were discovered in all three (3) wells, with EPA Drinking Water MCL exceedance in Well 2. In December 2014, a PA was completed by IDEM that cited the need for a SI.

Sampling completed for the SI confirmed the results from the September 2014 and subsequent sampling and identified several potential sources of the contamination within the Town of Spencer. The highest levels of PCE detected in groundwater were discovered at a former dry-cleaner just north of the Town Square and from a historical dry-cleaner discovered just south of the current McDonald's Corporation building on Fletcher Avenue. PCE was only discovered in the subsurface soil from a boring located south of the current McDonald's Corporation building.

SECTION 6.0 REFERENCES

BBP Water Corporation. Accessed 9/15/2014. History of BBP Water Corp. http://bbpwatercorp.com/mainindex.html.

Fenelon, J. 1994. Hydrogeologic Atlas of Aquifers in Indiana. USGS Water Resources Investigations Report 92-4142. Pp. 123-133.

Gray, H.H. 1982. Map of Indiana showing Topography of the Bedrock Surface. IDNR.

Gray, H.H. 1989. Quanternary geologic map of Indiana. IDNR Geological Survey Miscellaneous Map 49. Scale 1:500,000.

IDEM VFC. 2001 (updated September 2009 and December 2010). Wellhead Protection Plan for Bean Blossom-Patricksburg Water Corporation, Spencer, Indiana, Public Water Supply ID (PWSID) # 526001. Prepared by Montgomery Environmental, Inc. IDEM VFC # 62627898. ***Not For Public View***

IDEM VFC. 2013. Pre-CERCLIS Screening Assessment Checklist/Decision Form. Prepared by IDEM. IDEM VFC # 80121029.

IDEM VFC. 2014. Preliminary Assessment for Bean Blossom/Patricksburg Water Corp. Prepared by IDEM. IDEM VFC # 80016460 For Public View Version & IDEM VFC # 80016461 Not For Public View Version.

Indiana Department of Natural Resources (IDNR). Access 9/7/2014a. Significant Water Withdrawal Facility Data. http://www.in.gov/dnr/water/4841.htm.

Indiana Department of Natural Resources (IDNR). Access 9/17/2014b. Indiana Floodplain Information Portal. https://dnrmaps.dnr.in.gov/appsphp/fdms/.

Indiana Department of Natural Resources (IDNR). Access 9/9/2015. Significant Water Withdrawal Facility Data. http://www.in.gov/dnr/water/4841.htm.

Safe Drinking Water Information System (SDWIS). Accessed 9/2/2014. Drinking Water Watch. https://myweb.in.gov/IDEM/DWW/JSP/WaterSystemDetail.jsp?tinwsys_is_number=408523&tinwsys_st_code=IN&wsnumber=IN5260001.

United States (U.S.) Census Bureau. Accessed 9/15/2014. American Fact Finder. http://quickfacts.census.gov/qfd/states/18/18119.html.

United States Department of Agriculture (USDA). Revised 2005. Soil Survey of Owen County Indiana.

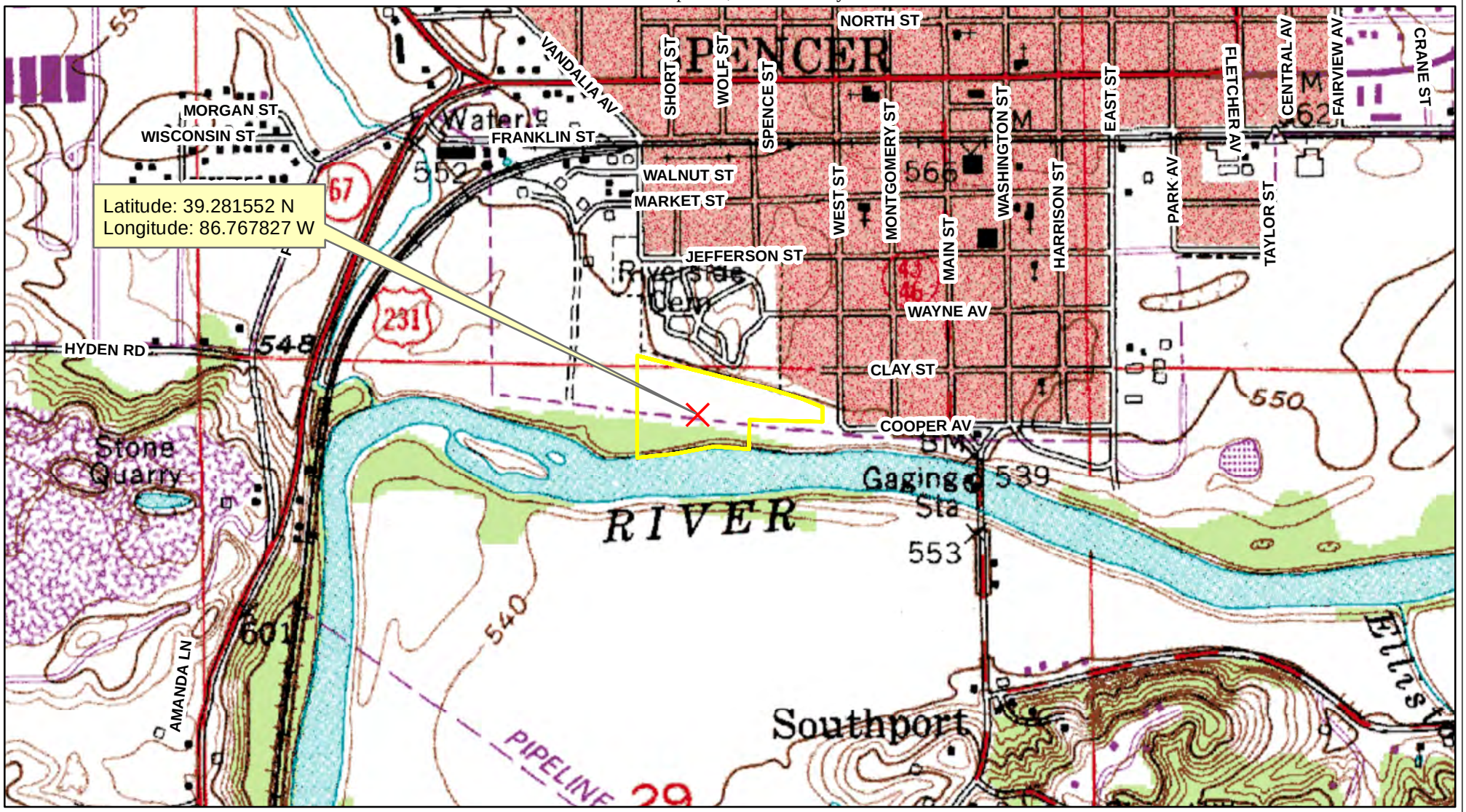
ATTACHMENT A

Figures

Site Location Map

Bean Blossom/Patricksburg Water Company
Spencer, Owen County

Attachment A - Figure 2

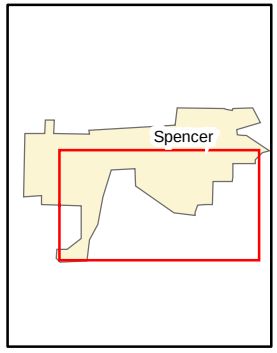


This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Mapped By:
Shane Moore, Office of Land Quality
Date:10/07/2014





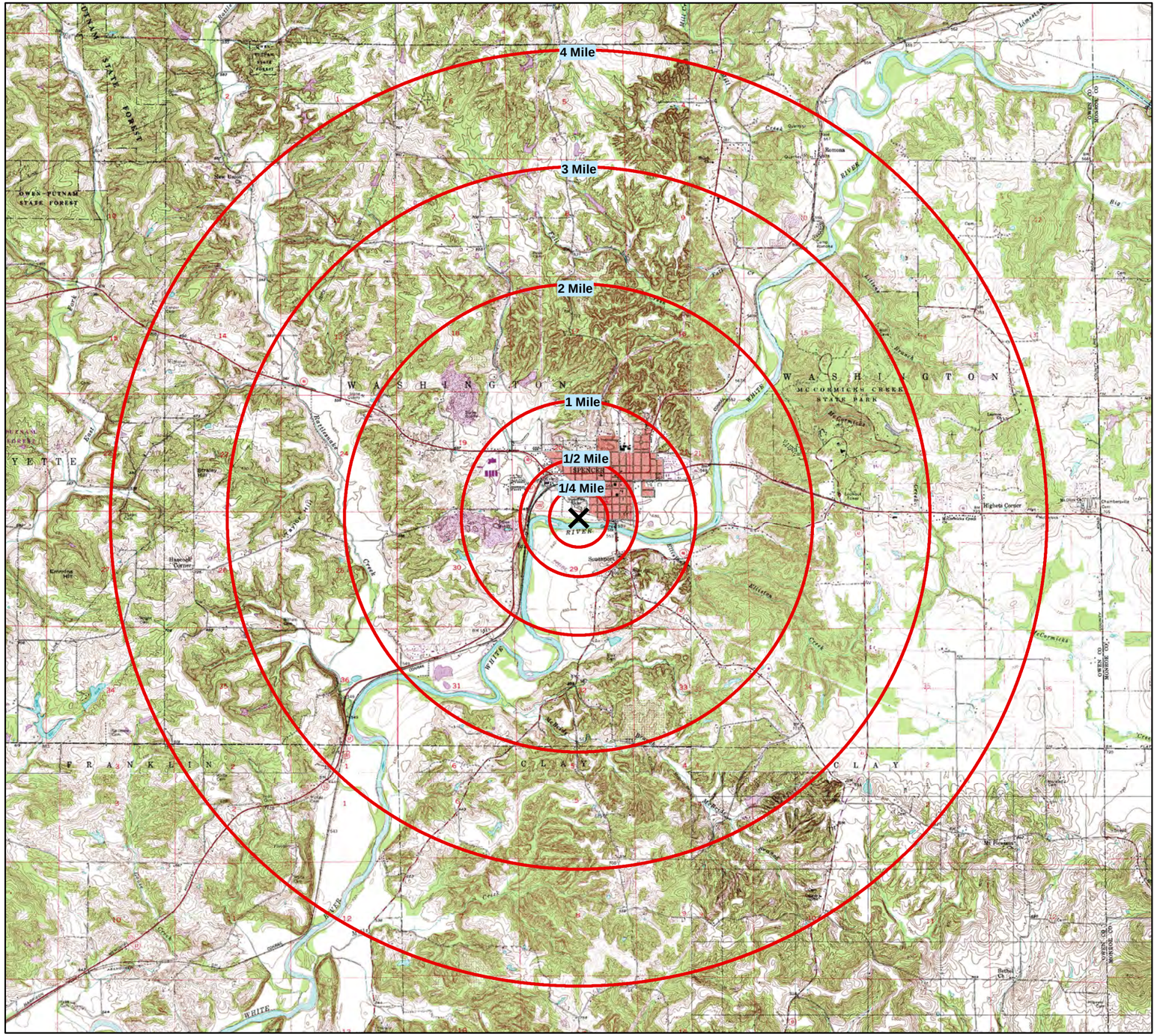




0 110 220 440 Meters
0 250 500 1,000 Feet

Site Center (Approx.)
Site Boundry (Based on Parcel Data)

Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographic Information Office Library
Orthophotography - Obtained from Microsoft Bing Map Service
Map Projection: UTM Zone 16 N **Map Datum:** NAD83



Four Mile Radius Map
Bean Blossom Site
Spencer, Owen County, IN

Attachment A - Figure 3

39.281552 N
86.767827 W
(Approximate Center of Site)

Buffer Distance	Adjusted Population
0.25 Mile	110
0.5 Mile	687
1 Mile	829
2 Mile	1026
3 Mile	1363
4 Mile	1796
Total Adjusted Population	**5811**

[redacted]

Mapped by: Shane Moore, IDEM, Office of Land Quality, Science Services Branch, Engineering & GIS Services October 7, 2014

Sources:
IDEM 4 Mile Mapper Application
Indiana Geographic Information Officer (GIO) Data Library
USGS Digital Raster Graphics 1:24,000 topographic map
Census block group 2010 total population

Disclaimer: This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.
There are known sources of error in the population estimates presented on this map including:
- -The Census 2010 block group population data is out of date, and is itself an imperfect estimate of population.
- -The adjusted population estimate derived from the Census 2010 block group data assumes that the population is evenly distributed in each block group polygon.
- -The Census 2010 block group population has been clipped to include Indiana data only.

Method of Estimating Population: The adjusted population estimate is the sum of Census 2010 block group populations. The adjusted population estimate (TOTPOP field) is adjusted to include only the areas of the block groups contained inside the buffers. The adjusted population estimate assumes that the population is evenly distributed in each block group polygon. The specific procedure used in this analysis is as follows:

1. The point for the center of the site is selected interactively by the user through the 4 Mile Mapper model or a polygon is digitized through the 4 Mile Mapper Polygon model.
2. The user initiates the 4 Mile Mapper model to perform the rest of the multi-step analysis which is described in the following steps.
3. The study area point or polygon is buffered at 1/4, 1/2, 1, 2, 3 and 4 miles.
4. The original area of the census block polygons is calculated and stored.
5. The buffers are used to clip the census block group polygons. This is a new area referred to as the shape area. The shape area has the attribute records associated with the original census block group polygon with the area of the new polygon area.
6. The shape area of the census block polygons is divided by original area of the census block polygons to calculate the percent change.
7. The percent change result is then multiplied by the population of the original census block to yield a calculated population for the new polygon. For example: Block Group A with an area of 10 square miles and a population of 200 people is split into 2 polygons by the 4 mile buffer ring. The area of the block group inside the 4 mile buffer is 2 square miles, or 20% of the area of the original 10 square mile block group. Assuming the population is uniformly distributed in Block Group A, the population from Block Group A that is within the 4 mile buffer ring should also be 20% of the total population for the block group. Twenty percent of 200 is 40 people. (2 ÷10 × 200 = 40)
8. The newly calculated population statistics are associated in a database table that is converted into a layer file that is displayed in the Four Mile Radius Map. The new population figures from the layers (attribute tables) are then copied into a spreadsheet that subtracts the population figure from the previous buffer. This is done by taking the population for each buffer distance and subtracting the population of the next smaller buffer distance to provide a population figure for the donut area bounded by each pair of consecutive buffer distances (e.g. 0 to 1/4, 1/4 to 1/2, 1/2 to 1, 1 to 2…). An adjusted population table is labeled and pasted into the Four Mile Radius Map.

The main code that repeats over and over for the 4Mi_Mapper model is: Buffer>Clip>Add Fields>Calculate Field>Dissolve

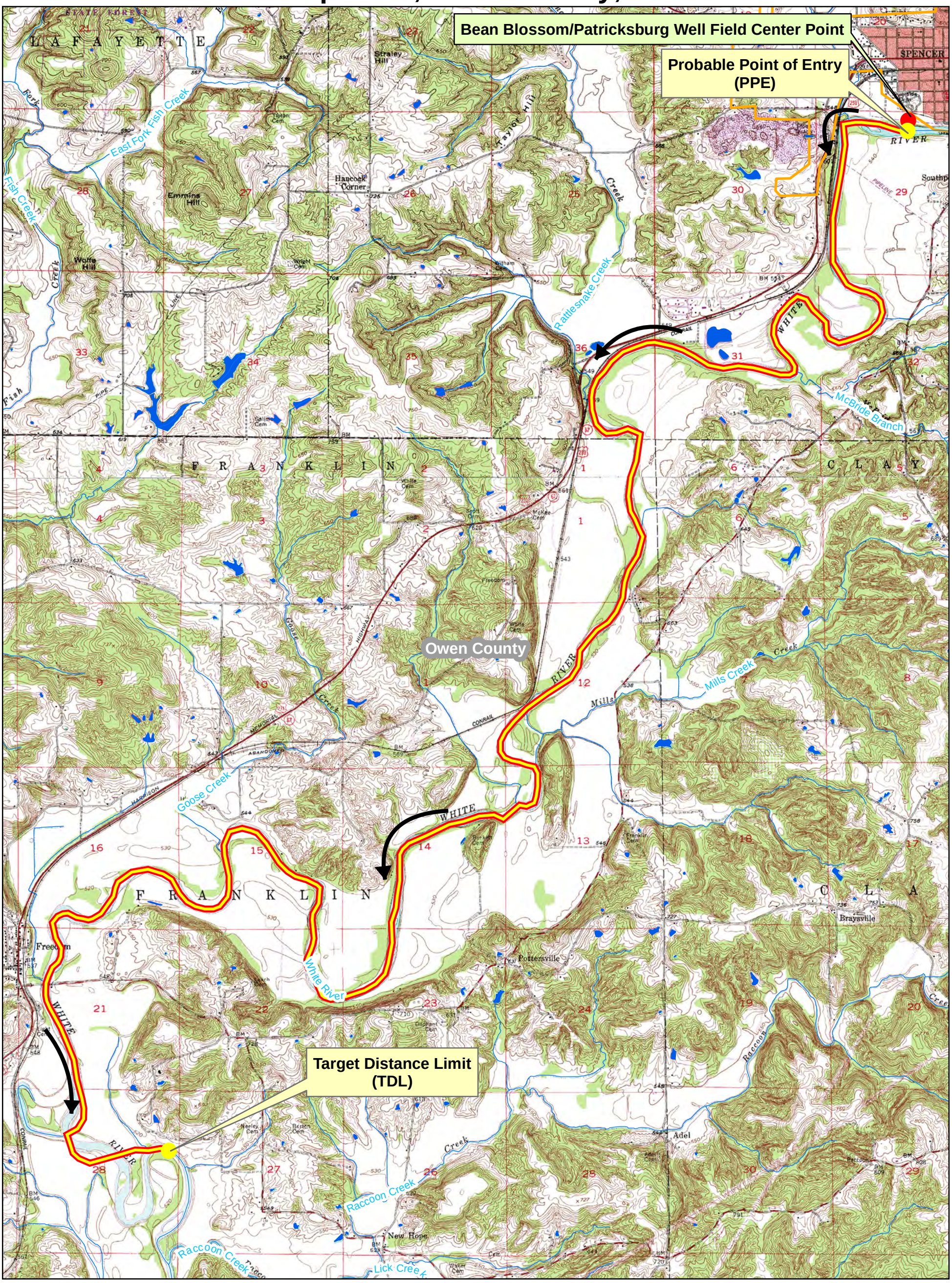
All models were developed by E.J. McNaughton, IDEM GIS Coordinator

15 - Mile Surface Water Map

Attachment A - Figure 4

Bean Blossom Drinking Water Contamination

Spencer, Owen County, IN



Fifteen Mile Surface Path

Flow Path

National Hydrography Dataset Flow Line

National Hydrography Dataset Waterbody

City Boundary

Railroads

County Boundary

N

W E

S

0 0.5 1 Miles

0 0.75 1.5 Kilometers

Mapped By: Shane Moore, IDEM, Office of Land Quality, Science Services Branch, Engineering & GIS Services, Sept 24, 2014

Sources:

-USGS Digital Raster Graphics 1:24,000 topographic map
-National Hydrography Dataset (NHD)
-INDOT County Boundaries
-Census 2000 City Boundaries
-INDOT State Boundary

Map Projection: UTM Zone 16N **Map Datum:** NAD 83

Disclaimer: This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

ATTACHMENT B

Tables

Table 1. BBP Water Corp.
VOC Detections
Spencer, IN

Compound Name	Sample Date	Units	Finished Water from Treatment Plant	Well # 1	Well # 2	Well # 3	Sampling Conducted by:
PCE	6/6/2011	µg/L	**1.2**	Not Tested	Not Tested	Not Tested	BBP
PCE	8/2/2011	µg/L	<0.5	Not Tested	Not Tested	Not Tested	BBP
PCE	10/19/2011	µg/L	<0.5	Not Tested	Not Tested	Not Tested	BBP
PCE	2/27/2012	µg/L	**1.4**	Not Tested	Not Tested	Not Tested	BBP
PCE	2/4/2013	µg/L	<0.5	Not Tested	Not Tested	Not Tested	BBP
PCE	2/25/2014	µg/L	<0.5	Not Tested	Not Tested	Not Tested	BBP
PCE	9/30/2014	µg/L	Not Tested	**2.2**	**15**	**0.7**	IDEM
PCE	12/16/2014	µg/L	<0.5	**1.4**	**10.0**	<0.5	BBP
PCE	1/6/2015	µg/L	<0.5	**1.2**	**10.5**	**0.6**	BBP
TCE			<0.5	<0.5	**0.5**	<0.5	
MTBE			<0.5	<0.5	<0.5	**0.8**	
PCE	2/23/2015	µg/L	Not Tested	Not Tested	Not Tested	<0.5	BBP
PCE	3/23/2015	µg/L	Not Tested	**1.0**	**9.6**	<0.5	BBP
PCE	4/22/2015	µg/L	Not Tested	**1.0**	**8.2**	<0.5	BBP
PCE	5/12/2015	µg/L	Not Tested	**1.1**	**8.1**	**0.6**	BBP
PCE	6/15/2015	µg/L	Not Tested	**1.1**	**9.3**	**0.6**	BBP
PCE	6/23/2015	µg/L	Not Tested	**1.3**	**14**	**0.71**	IDEM
TCE			Not Tested	<0.5	0.29	<0.5	IDEM
PCE	7/14/2015	µg/L	Not Tested	**0.9**	**8.6**	<0.5	BBP
PCE	8/17/2015	µg/L	Not Tested	**1.3**	**11.1**	**0.7**	BBP
PCE	9/14/2015	µg/L	Not Tested	**1.2**	**11.6**	**0.6**	BBP
PCE	10/19/2015	µg/L	Not Tested	**1.4**	**11.4**	**0.8**	BBP
PCE	11/9/2015	µg/L	Not Tested	**1.2**	**12.2**	**0.7**	BBP

µg/L = micrograms per liter

EPA MCL = Drinking Water Maximum Contaminant Level

PCE = Tetrachloroethylene

TCE = Trichloroethylene

MTBE = Methy-Tert-Butyl Ether

Bold = Detection

Bold = Above EPA MCL of 5.0 µg/L for PCE

Table 2.
Significant Water Withdrawal from BBP Water Co.
Spencer, IN

County	Major Water Use Code	Year	Capacity (GPM)	Well Depth (ft)	Well #	Units	Annual	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	% of Total
Owen	PS	2011	550	67	1	000 gallons	169440	0	14870	15200	17200	16460	18330	20730	18690	16370	16320	15270	0	42.54%
Owen	PS	2011	850	77	2	000 gallons	169440	0	14870	15200	17200	16460	18330	20730	18690	16370	16320	15270	0	42.54%
Owen	PS	2011	1000	80	3	000 gallons	59470	30880	0	0	0	0	0	0	0	0	0	0	28590	14.93%
Owen	PS	2011	160	90	4	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2011	240	97	5	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2011	450	97	6	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2011	450	97	7	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Total for 2011							398350	30880	29740	30400	34400	32920	36660	41460	37380	32740	32640	30540	28590	
Owen	PS	2012	550	67	1	000 gallons	117370	9510	13650	9130	18360	17510	18850	20240	570	30	2000	7520	0	29.82%
Owen	PS	2012	850	77	2	000 gallons	128780	12820	15890	22170	11140	17510	18850	20240	570	30	0	5570	3990	32.71%
Owen	PS	2012	1000	80	3	000 gallons	147510	9230	420	0	0	0	0	0	34090	31230	30330	16930	25280	37.47%
Owen	PS	2012	160	90	4	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2012	240	97	5	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2012	450	97	6	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2012	450	97	7	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Total for 2012							393660	31560	29960	31300	29500	35020	37700	40480	35230	31290	32330	30020	29270	
Owen	PS	2013	550	67	1	000 gallons	35000	0	0	0	0	0	0	15930	17850	1220	0	0	0	9.04%
Owen	PS	2013	850	77	2	000 gallons	52420	13750	0	0	0	0	0	17350	18570	2750	0	0	0	13.54%
Owen	PS	2013	1000	80	3	000 gallons	299820	18220	29160	29480	34200	35490	33970	330	0	26540	31840	29160	31430	77.42%
Owen	PS	2013	160	90	4	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2013	240	97	5	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2013	450	97	6	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2013	450	97	7	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Total for 2013							387240	31970	29160	29480	34200	35490	33970	33610	36420	30510	31840	29160	31430	
Owen	PS	2014	550	67	1	000 gallons	22600	1800	0	5800	14900	0	0	0	0	0	0	0	100	4.84%
Owen	PS	2014	850	77	2	000 gallons	60200	39500	0	5800	13900	0	400	0	0	0	0	0	600	12.90%
Owen	PS	2014	1000	80	3	000 gallons	383800	36500	31500	24900	7700	39300	38900	37700	36700	32900	32900	32400	32400	82.25%
Owen	PS	2014	160	90	4	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2014	240	97	5	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2014	450	97	6	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Owen	PS	2014	450	97	7	000 gallons	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Total for 2014							466600	77800	31500	36500	36500	39300	39300	37700	36700	32900	32900	32400	33100	0.00%

PS = Public Supply
GPM = Gallons per Minute
ft = feet

Bean Blossom/Patricksburg Water Corp.
Table 3. Background Samples for Groundwater

Sample ID	Location	Date	Hazardous Substance	Hazardous Substance Concentration (µg/L)	Contract Required Quantitation Limit (CRQL); (µg/L)	Well / Sample Depth (feet below ground surface)
E2TG7 (MW4) Background	BBP Municipal Well #4 - Backup-Only Well at 770 W. Franklin St.	6/23/2015	Trace VOCs	Non-Detect	0.5	97
E2TH0 (GW2) Background	[redacted] - Private residential well	6/23/2015	Tetrachloroethene	0.33 *	0.5	Unknown
E2TH1 (GW1) Background	[redacted]. - Private residential well	6/23/2015	Trace VOCs	Non-Detect	0.5	76
E2TH4 (GW3) Background	156 N. Main St. - Spencer Presbyterian Church	6/24/2015	Tetrachloroethene	0.15 *	0.5	34.8 ft
			Acetone	6.3	5	
			Cyclohexane	0.66	0.5	
			Benzene	0.75	0.5	
			Methylcyclohexane	0.7	0.5	
			Toluene	1.8	0.5	
			m,p-Xylene	0.68	0.5	
			Carbon Disulfide	0.15 *	0.5	
			Bromodichloromethane	0.13 *	0.5	
			Ethylbenzene	0.44 *	0.5	
			o-Xylene	0.29 *	0.5	

* - Samples have analyte concentrations below the quantitation limit (CRQL) and detected compounds are qualified as J values. However, no bias or adjustment of these J qualified values is required.

Bean Blossom/Patricksburg Water Corp.
Table 4. All Detected VOCs in Groundwater

Sample ID	Location	Date	Hazardous Substance	Hazardous Substance Concentration (µg/L)	Contract Required Quantitation Limit (CRQL); (µg/L)	Well / Sample Depth (feet below ground surface)
E2TG4 (MW1)	BBP Municipal Well #1	6/23/2015	Tetrachloroethene	1.3	0.5	67
E2TG5 (MW2)	BBP Municipal Well #2	6/23/2015	Tetrachloroethene	14	0.5	77
			Trichloroethene	0.29 *	0.5	
E2TG6 (MW3)	BBP Municipal Well #3	6/23/2015	Tetrachloroethene	0.71	0.5	80
E2TG7 (MW4) Background	BBP Municipal Well #4 - Backup-Only Well at 770 W. Franklin St.	6/23/2015	Trace VOCs	Non-Detect	0.5	97
E2TG8 (GW4)	[redacted] Private well used for geothermal heating	6/23/2015	Tetrachloroethene	140 **	10	90
E2TG9 (GW5) Duplicate	[redacted] Private well used for geothermal heating	6/23/2015	Tetrachloroethene	140 **	10	90
E2TH0 (GW2) Background	[redacted] - Private residential well	6/23/2015	Tetrachloroethene	0.33 *	0.5	Unknown
E2TH1 (GW1) Background	[redacted] - Private residential well	6/23/2015	Trace VOCs	Non-Detect	0.5	76
E2TH8 (GW7)	10 Height St. - SW corner of Height and Walnut Streets	6/23/2015	Cyclohexane	0.21 *	0.5	12
			Benzene	0.22 *	0.5	
			Methylcyclohexane	0.25 *	0.5	
			Bromodichloromethane	0.13 *	0.5	
			Toluene	0.7	0.5	
			Ethylbenzene	0.18 *	0.5	
			o-Xylene	0.13 *	0.5	
			m,p-Xylene	0.41 *	0.5	
E2TJ0 (GW12)	401 W. Morgan St. - Coin Operated Laundry facility	6/23/2015	Tetrachloroethene	5.7	0.5	12.5
			Cyclohexane	0.26 *	0.5	
			Benzene	0.48 *	0.5	
			Methylcyclohexane	0.32 *	0.5	
			Toluene	0.86	0.5	
			Ethylbenzene	0.23 *	0.5	
			o-Xylene	0.14 *	0.5	
			m,p-Xylene	0.32 *	0.5	

Bean Blossom/Patricksburg Water Corp.
Table 4. All Detected VOCs in Groundwater

Sample ID	Location	Date	Hazardous Substance	Hazardous Substance Concentration (µg/L)	Contract Required Quantitation Limit (CRQL); (µg/L)	Well / Sample Depth (feet below ground surface)
E2TJ2 (GW9)	7 Fletcher Ave. (South of McDonald's)	6/23/2015	Tetrachloroethene	180 **	10	26.5
			Cyclohexane	0.21 *	0.5	
			Benzene	0.39 *	0.5	
			Methylcyclohexane	0.29 *	0.5	
			Toluene	0.84	0.5	
			Ethylbenzene	0.21 *	0.5	
			o-Xylene	0.17 *	0.5	
			m,p-Xylene	0.4 *	0.5	
			Trichloroethene	0.36 *	0.5	
E2TJ4 (GW10)	640 E. Franklin St. - Demil LLC (Humvee Demilitarization)	6/23/2015	Tetrachloroethene	0.22 *	0.5	18
			Chloromethane	0.58 UJ	0.5	
			Cyclohexane	0.25 *	0.5	
			Benzene	0.43 *	0.5	
			Methylcyclohexane	0.45 *	0.5	
			Toluene	1.1	0.5	
			Ethylbenzene	0.3 *	0.5	
			o-Xylene	0.27 *	0.5	
			m,p-Xylene	0.61	0.5	
E2TJ6 (GW11) Duplicate	640 E. Franklin St. - Demil LLC (Humvee Demilitarization)	6/23/2015	Tetrachloroethene	0.19 *	0.5	18
			Cyclohexane	0.37 *	0.5	
			Benzene	0.52	0.5	
			Methylcyclohexane	0.54	0.5	
			Toluene	1.3	0.5	
			Ethylbenzene	0.33 *	0.5	
			o-Xylene	0.26 *	0.5	
			m,p-Xylene	0.7	0.5	
E2TH2 (GW6)	West Cooper St. - In BBP Wellfield	6/24/2015	Acetone	5.5	5	15.5
			Methylene Chloride	2.1	0.5	
			Cyclohexane	0.12 *	0.5	
			Benzene	0.15 *	0.5	
			Methylcyclohexane	0.13 *	0.5	
			Toluene	0.27 *	0.5	
			m,p-Xylene	0.13 *	0.5	
E2TH4 (GW3) Background	156 N. Main St. - Spencer Presbyterian Church	6/24/2015	Tetrachloroethene	0.15 *	0.5	34.8 ft
			Acetone	6.3	5	
			Cyclohexane	0.66	0.5	
			Benzene	0.75	0.5	
			Methylcyclohexane	0.7	0.5	
			Toluene	1.8	0.5	
			m,p-Xylene	0.68	0.5	
			Carbon Disulfide	0.15 *	0.5	
			Bromodichloromethane	0.13 *	0.5	
			Ethylbenzene	0.44 *	0.5	
			o-Xylene	0.29 *	0.5	

Bean Blossom/Patricksburg Water Corp.
Table 4. All Detected VOCs in Groundwater

Sample ID	Location	Date	Hazardous Substance	Hazardous Substance Concentration (µg/L)	Contract Required Quantitation Limit (CRQL); (µg/L)	Well / Sample Depth (feet below ground surface)
E2TJ8 (GW8)	17 E. Franklin St. - Former Ranard's Cleaners (north side of town square)	6/24/2015	Tetrachloroethene	220 **	50	26
			Cyclohexane	0.51	0.5	
			Benzene	0.48 *	0.5	
			Methylcyclohexane	0.62	0.5	
			Toluene	1.2	0.5	
			m,p-Xylene	0.49 *	0.5	
			Carbon Disulfide	0.14 *	0.5	
			Bromodichloromethane	0.14 *	0.5	
			Trichloroethene	0.4 *	0.5	
			Ethylbenzene	0.33 *	0.5	
			o-Xylene	0.24 *	0.5	
			Acetone	5.6	5	
E2TK0	Trip Blank	6/23/2015	Trace VOCs	Non-Detect	0.5	NA
E2TK1	Trip Blank	6/23/2015	Trace VOCs	Non-Detect	0.5	NA
E2TK2	Trip Blank	6/24/2015	Tetrachloroethene	0.24 *	0.5	NA
			Acetone	1.7 *	5	
			Methylene Chloride	0.2 *	0.5	

* - Samples have analyte concentrations below the quantitation limit (CRQL) and detected compounds are qualified as J values. However, no bias or adjustment of these J qualified values is required.

** - Concentrations of PCE in samples E2TG8, E2TG9, and E2TJ2 exceeded the instrument's calibration range. Samples E2TG8, E2TG9, and E2TJ2 were reanalyzed using dilution factor and the result and CRQL for PCE are reported from the diluted analysis (E2TG8DL, E2TG9DL, and E2TJ2DL).

UJ – The original analysis of sample E2TJ4 reported a non-detect for Chloromethane but the reanalysis E2TJ4RE reported a non-detect. Therefore, the detected result of Chloromethane in sample E2TJ4 is non-quantifiable for HRS purposes and adjusted to "Non-Detect" (ND) using the procedure described in EPA 540-F-94-028, *Using Qualified Data to Document an Observed Release and Observed Contamination* , November 1996.

E2TH8RE, E2TJ4RE, and E2TJ6RE results provided from reanalyzed samples.

The surrogate recovery for Benzene-d6 in sample E2TJ2DL was low; however, since Benzene was reported from sample E2TJ2 and the surrogate recovery was within the laboratory established control limit, the data quality is not affected.

Bean Blossom/Patricksburg Water Corp.
Table 5. Background Sample for Soil

Sample ID	Location	Date	Hazardous Substance	Hazardous Substance Concentration (µg/kg)	Sample Quantitation Limit (SQL); (µg/kg)	Well / Sample Depth (feet below ground surface)
E2TH5 (SS1) Background	156 N. Main St. - Spencer Presbyterian Church	6/24/2015	Acetone	6.7 *	11	28
			Methylene Chloride	3.9 *	5.3	

* - Samples have analyte concentrations below the quantitation limit (SQL) and detected compounds are qualified as J values. However, no bias or adjustment of these J qualified values is required.

Bean Blossom/Patricksburg Water Corp.
Table 6. All Detected VOCs in Soil

Sample ID	Location	Date	Hazardous Substance	Hazardous Substance Concentration (µg/kg)	Sample Quantitation Limit (SQL); (µg/kg)	Well / Sample Depth (feet below ground surface)
E2TJ3 (SS5)	7 Fletcher Ave. (South of McDonald's)	6/23/2015	Tetrachloroethene	1200 **	270	30
			Acetone	5.8 *	8.1	
			Methylene Chloride	3.3 *	4	
E2TH3 (SS8)	401 W. Morgan St. - Coin Operated Laundry facility	6/23/2015	Low VOCs	Non-Detect	5.2	12
E2TH9 (SS3)	10 Height St. - SW corner of Height and Walnut Streets	6/23/2015	Acetone	9.4 *	11	12
E2TJ5 (SS6)	640 E. Franklin St. - Demil LLC (Humvee Demilitarization)	6/23/2015	Low VOCs	Non-Detect	4.2	11
E2TJ7 (SS7) Duplicate	640 E. Franklin St. - Demil LLC (Humvee Demilitarization)	6/23/2015	Low VOCs	Non-Detect	300	11
E2TH5 (SS1) Background	156 N. Main St. - Spencer Presbyterian Church	6/24/2015	Acetone	6.7 *	11	28
			Methylene Chloride	3.9 *	5.3	
E2TH7 (SS9)	17 E. Franklin St. - Former Renard's Cleaners (north side of town square)	6/24/2015	Low VOCs	Non-Detect	4.8	8
E2TJ9 (SS4)	17 E. Franklin St. - Former Ranard's Cleaners (north side of town square)	6/24/2015	Tetrachloroethene	4 *	5.5	2.5
E2TJ1 (SS2)	West Cooper St. - In BBP Wellfield	6/24/2015	Low VOCs	Non-Detect	5.1	10

** - Concentration of PCE in sample E2TJ3 exceeded the instrument's calibration range. Sample E2TJ3 was reanalyzed using dilution factor and the result and SQL for PCE is reported from the diluted analysis (E2TJ3ME).

* - Samples have analyte concentrations below the quantitation limit (SQL) and detected compounds are qualified as J values. However, no bias or adjustment of these J qualified values is required.

ATTACHMENT C

Historical VOC Analytical Results from the BBP Water Treatment Plant (2011-2015)

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form: 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	06/07/11	07/05/11	07/06/11	20110601752

PWSID: IN5260001 System Name: BBP WATER

Main Lab Certification: C - 39 - 01 Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 Lab Contact Person: Whitney Wu Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 06/06/11 Sample ID: P06-066 POE: 02 Sampling Site/Location: TREATMENT PLANT

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	06.12.11	524.2		ug/L	0.5	X	5
2982	Carbon Tetrachloride	06.12.11	524.2		ug/L	0.5	X	5
2989	Chlorobenzene	06.12.11	524.2		ug/L	0.5	X	100
2968	1,2-Dichlorobenzene	06.12.11	524.2		ug/L	0.5	X	600
2969	1,4-Dichlorobenzene	06.12.11	524.2		ug/L	0.5	X	75
2980	1,2-Dichloroethane	06.12.11	524.2		ug/L	0.5	X	5
2977	1,1-Dichloroethylene	06.12.11	524.2		ug/L	0.5	X	7
2972	1,2-Dichloroethylene, cis	06.12.11	524.2		ug/L	0.5	X	70
2979	1,2-Dichloroethylene, trans	06.12.11	524.2		ug/L	0.5	X	100
2964	Dichloromethane	06.12.11	524.2		ug/L	0.5	X	5
2983	1,2-Dichloropropane	06.12.11	524.2		ug/L	0.5	X	5
2992	Ethylbenzene	06.12.11	524.2		ug/L	0.5	X	700
2996	Styrene	06.12.11	524.2		ug/L	0.5	X	100
2987	Tetrachloroethylene	06.12.11	524.2	1.2	ug/L	0.5		5
2991	Toluene	06.12.11	524.2		ug/L	0.5	X	1000
2378	1,2,4-Trichlorobenzene	06.12.11	524.2		ug/L	0.5	X	70
2981	1,1,1-Trichloroethane	06.12.11	524.2		ug/L	0.5	X	200
2985	1,1,2-richloroethane	06.12.11	524.2		ug/L	0.5	X	5
2984	Trichloroethylene	06.12.11	524.2		ug/L	0.5	X	5
2976	Vinyl Chloride	06.12.11	524.2		ug/L	0.5	X	2
2955	Total Xylenes	06.12.11	524.2		ug/L	0.5	X	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 06.06.11

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	06.12.11	524.2		ug/L	0.5	X
2214	Bromomethane	06.12.11	524.2		ug/L	0.5	X
2216	Chloroethane	06.12.11	524.2		ug/L	0.5	X
2210	Chloromethane	06.12.11	524.2		ug/L	0.5	X
2965	2-Chlorotoluene	06.12.11	524.2		ug/L	0.5	X
2956	4-Chlorotoluene	06.12.11	524.2		ug/L	0.5	X
2967	1,3-Dichlorobenzene	06.12.11	524.2		ug/L	0.5	X
2978	1,1-Dichloroethane	06.12.11	524.2		ug/L	0.5	X
2412	1,3-Dichloropropane	06.12.11	524.2		ug/L	0.5	X
2416	2,2-Dichloropropane	06.12.11	524.2		ug/L	0.5	X
2410	1,1-Dichloropropene	06.12.11	524.2		ug/L	0.5	X
2413	1,3-Dichloropropene (cis & trans)	06.12.11	524.2		ug/L	0.5	X
2986	1,1,1,2-Tetrachloroethane	06.12.11	524.2		ug/L	0.5	X
2988	1,1,2,2-Tetrachloroethane	06.12.11	524.2		ug/L	0.5	X
2414	1,2,3-Trichloropropane	06.12.11	524.2		ug/L	0.5	X
2408	Dibromomethane	06.12.11	524.2		ug/L	0.5	X
2943	Bromodichloromethane	06.12.11	524.2		ug/L	0.5	X
2942	Bromoform	06.12.11	524.2		ug/L	0.5	X
2944	Chlorodibromomethane	06.12.11	524.2		ug/L	0.5	X
2941	Chloroform	06.12.11	524.2		ug/L	0.5	X
2251	Methy-Tert-Butyl Ether (MTBE)	06.12.11	524.2		ug/L	0.5	X

Other Information:

Does the system chlorinates its water?	☒ Yes	☐ No
Was the sample dechlorinated at the lab?	☐ Yes	☐ No
Was this information sent to IDEM by the lab?	☒ Yes	☐ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: ____

Completed By: Jon Koremus Reviewed by: ____

Important Notes:

Alternate Method:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	08/03/11	08/11/11	08/16/11	20110803237

PWSID: IN5260001 System Name: BBR WATER

Main Lab Certification: C - 39 - 01 Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 Lab Contact Person: Whitney Wu Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 08/02/11 Sample ID: BBR-0807 POE: 02 Sampling Site/Location: TREATMENT PLANT

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	08.08.11	524.2		ug/L	0.5	X	5
2982	Carbon Tetrachloride	08.08.11	524.2		ug/L	0.5	X	5
2989	Chlorobenzene	08.08.11	524.2		ug/L	0.5	X	100
2968	1,2-Dichlorobenzene	08.08.11	524.2		ug/L	0.5	X	600
2969	1,4-Dichlorobenzene	08.08.11	524.2		ug/L	0.5	X	75
2980	1,2-Dichloroethane	08.08.11	524.2		ug/L	0.5	X	5
2977	1,1-Dichloroethylene	08.08.11	524.2		ug/L	0.5	X	7
2972	1,2-Dichloroethylene, cis	08.08.11	524.2		ug/L	0.5	X	70
2979	1,2-Dichloroethylene, trans	08.08.11	524.2		ug/L	0.5	X	100
2964	Dichloromethane	08.08.11	524.2		ug/L	0.5	X	5
2983	1,2-Dichloropropane	08.08.11	524.2		ug/L	0.5	X	5
2992	Ethylbenzene	08.09.11	524.2		ug/L	0.5	X	700
2996	Styrene	08.08.11	524.2		ug/L	0.5	X	100
2987	Tetrachloroethylene	08.08.11	524.2		ug/L	0.5	X	5
2991	Toluene	08.09.11	524.2		ug/L	0.5	X	1000
2378	1,2,4-Trichlorobenzene	08.08.11	524.2		ug/L	0.5	X	70
2981	1,1,1-Trichloroethane	08.08.11	524.2		ug/L	0.5	X	200
2985	1,1,2-richloroethane	08.09.11	524.2		ug/L	0.5	X	5
2984	Trichloroethylene	08.08.11	524.2		ug/L	0.5	X	5
2976	Vinyl Chloride	08.08.11	524.2		ug/L	0.5	X	2
2955	Total Xylenes	08.08.11	524.2		ug/L	0.5	X	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 08.02.11

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	08.08.11	524.2		ug/L	0.5	☒
2214	Bromomethane	08.08.11	524.2		ug/L	0.5	☒
2216	Chloroethane	08.08.11	524.2		ug/L	0.5	☒
2210	Chloromethane	08.08.11	524.2		ug/L	0.5	☒
2965	2-Chlorotoluene	08.08.11	524.2		ug/L	0.5	☒
2956	4-Chlorotoluene	08.08.11	524.2		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	08.08.11	524.2		ug/L	0.5	☒
2978	1,1-Dichloroethane	08.08.11	524.2		ug/L	0.5	☒
2412	1,3-Dichloropropene	08.08.11	524.2		ug/L	0.5	☒
2416	2,2-Dichloropropane	08.08.11	524.2		ug/L	0.5	☒
2410	1,1-Dichloropropene	08.08.11	524.2		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	08.08.11	524.2		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	08.08.11	524.2		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	08.08.11	524.2		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	08.08.11	524.2		ug/L	0.5	☒
2408	Dibromomethane	08.08.11	524.2		ug/L	0.5	☒
2943	Bromodichloromethane	08.08.11	524.2		ug/L	0.5	☒
2942	Bromoform	08.08.11	524.2		ug/L	0.5	☒
2944	Chlorodibromomethane	08.08.11	524.2	0.6	ug/L	0.5	☐
2941	Chloroform	08.08.11	524.2		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	08.08.11	524.2		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water?	☒ Yes	☐ No
Was the sample dechlorinated at the lab?	☐ Yes	☐ No
Was this information sent to IDEM by the lab?	☒ Yes	☐ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: [signature] Reviewed by: _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: **Alternate Method:**
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines.
- Return completed form to:

Indiana Department of Environmental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	10/20/11	10/26/11	10/26/11	20111005080

PWSID: IN5260001 System Name: BBP WATER

Main Lab Certification: C - 39 - 01
Testing Lab ID: C - 39 - 01
Main/Contracted Laboratory Name: Environmental Laboratories, Inc.
Lab Contact Person: Whitney Wu
Contact Phone No: 812-273-6699
Collection Date (MM/DD/YY): 10/19/11
Sample ID: P10-090
POE: #2
Sampling Site/Location: ENTRY TREATMENT PLT.

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	EDL	MCL (ug/L)
2990	Benzene	10.24.11	524.2		ug/L	0.5		5
2982	Carbon Tetrachlorides	10.24.11	524.2		ug/L	0.5		5
2989	Chlorobenzene	10.24.11	524.2		ug/L	0.5		100
2968	1,2-Dichlorobenzene	10.24.11	524.2		ug/L	0.5		600
2969	1,4-Dichlorobenzene	10.24.11	524.2		ug/L	0.5		75
2980	1,2-Dichloroethane	10.24.11	524.2		ug/L	0.5		5
2977	1,1-Dichloroethylene	10.24.11	524.2		ug/L	0.5		7
2972	1,2-Dichloroethylene, cis	10.24.11	524.2		ug/L	0.5		70
2979	1,2-Dichloroethylene, trans	10.24.11	524.2		ug/L	0.5		100
2964	Dichloromethane	10.24.11	524.2		ug/L	0.5		5
2983	1,2-Dichloropropane	10.24.11	524.2		ug/L	0.5		5
2992	Ethylbenzene	10.24.11	524.2		ug/L	0.5		700
2996	Styrene	10.24.11	524.2		ug/L	0.5		100
2987	Tetrachloroethylene	10.24.11	524.2		ug/L	0.5		5
2991	Toluene	10.24.11	524.2		ug/L	0.5		1000
2378	1,2,4-Trichlorobenzene	10.24.11	524.2		ug/L	0.5		70
2981	1,1,1-Trichloroethane	10.24.11	524.2		ug/L	0.5		200
2985	1,1,2-richloroethane	10.24.11	524.2		ug/L	0.5		5
2984	Trichloroethylene	10.24.11	524.2		ug/L	0.5		5
2976	Vinyl Chloride	10.24.11	524.2		ug/L	0.5		2
2955	Total Xylenes	10.24.11	524.2		ug/L	0.5		10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 10.19.11

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	10.24.11	524.2		ug/L	0.5	☒
2214	Bromomethane	10.24.11	524.2		ug/L	0.5	☒
2216	Chloroethane	10.24.11	524.2		ug/L	0.5	☒
2210	Chloromethane	10.24.11	524.2		ug/L	0.5	☒
2965	2-Chlorotoluene	10.24.11	524.2		ug/L	0.5	☒
2956	4-Chlorotoluene	10.24.11	524.2		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	10.24.11	524.2		ug/L	0.5	☒
2978	1,1-Dichloroethane	10.24.11	524.2		ug/L	0.5	☒
2412	1,3-Dichloropropane	10.24.11	524.2		ug/L	0.5	☒
2416	2,2-Dichloropropane	10.24.11	524.2		ug/L	0.5	☒
2410	1,1-Dichloropropene	10.24.11	524.2		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	10.24.11	524.2		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	10.24.11	524.2		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	10.24.11	524.2		ug/L	0.5	☒
2414	1,2,3-Trichloropropene	10.24.11	524.2		ug/L	0.5	☒
2408	Dibromomethane	10.24.11	524.2		ug/L	0.5	☒
2943	Bromodichloromethane	10.24.11	524.2		ug/L	0.5	☒
2942	Bromoform	10.24.11	524.2		ug/L	0.5	☒
2944	Chlorodibromomethane	10.24.11	524.2	0.7	ug/L	0.5	☐
2941	Chloroform	10.24.11	524.2		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	10.24.11	524.2		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water?	☒ Yes	☐ No
Was the sample dechlorinated at the lab?	☐ Yes	☐ No
Was this information sent to IDEM by the lab?	☒ Yes	☐ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: [signature] Reviewed by: [signature]

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: **Alternate Method:**
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environmental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (8-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	02/28/12	03/06/12	03/08/12	20120207552

PWSID: IN5260001 **System Name:** BBP WATER

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 02/27/12 **Sample ID:** PO2-335 **POE:** 02 **Sampling Site/Location:** TREATMENT PLANT

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	03.02.12	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	03.02.12	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	03.02.12	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	03.02.12	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	03.02.12	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	03.02.12	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	03.02.12	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	03.02.12	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	03.02.12	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	03.02.12	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	03.02.12	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	03.02.12	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	03.02.12	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	03.02.12	524.2 ☒	1.4	ug/L	0.5	☐	5
2991	Toluene	03.02.12	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	03.02.12	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	03.02.12	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	03.02.12	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	03.02.12	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	03.02.12	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	03.02.12	524.2 ☒		ug/L	0.5	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: IN5260001

Collection Date (MM/DD/YY): 02.27.12

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	03.02.12	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	03.02.12	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	03.02.12	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	03.02.12	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	03.02.12	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	03.02.12	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	03.02.12	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	03.02.12	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	03.02.12	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	03.02.12	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	03.02.12	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	03.02.12	524.2 ☒	0.8	ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)	03.02.12	524.2 ☒		ug/L	0.5	☒
					ug/L	0.5	☒

Other Information:

Does the system chlorinates its water? ☒ Yes ☐ No

Was the sample dechlorinated at the lab? ☐ Yes ☐ No

Was this information sent to IDEM by the lab? ☒ Yes ☐ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☐ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: Jon Kronmiller **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:***
- if a constituent was below detection limits (i.e., not detected), select "BDL" **and** enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only ⇒ (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	02/05/13	02/08/13	02/11/13	2013020197

PWSID: IN5260001 System Name: BBP Water

Main Lab Certification: C - 39 - 01
Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01
Lab Contact Person: Whitney Wu
Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 02/04/13 Sample ID: P02-023 POE: 02 Sampling Site/Location: Treatment Plant

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	02.06.13	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	02.06.13	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	02.06.13	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	02.06.13	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	02.06.13	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	02.06.13	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	02.06.13	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	02.06.13	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	02.06.13	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	02.06.13	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	02.06.13	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	02.06.13	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	02.06.13	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	02.06.13	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

IN5260001

Collection Date (MM/DD/YY): 02.04.13

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	02.06.13	524.2		ug/L	0.5	☒
2214	Bromomethane	02.06.13	524.2		ug/L	0.5	☒
2216	Chloroethane	02.06.13	524.2		ug/L	0.5	☒
2210	Chloromethane	02.06.13	524.2		ug/L	0.5	☒
2965	2-Chlorotoluene	02.06.13	524.2		ug/L	0.5	☒
2956	4-Chlorotoluene	02.06.13	524.2		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	02.06.13	524.2		ug/L	0.5	☒
2978	1,1-Dichloroethane	02.06.13	524.2		ug/L	0.5	☒
2412	1,3-Dichloropropane	02.06.13	524.2		ug/L	0.5	☒
2416	2,2-Dichloropropane	02.06.13	524.2		ug/L	0.5	☒
2410	1,1-Dichloropropene	02.06.13	524.2		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	02.06.13	524.2		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	02.06.13	524.2		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	02.06.13	524.2		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	02.06.13	524.2		ug/L	0.5	☒
2408	Dibromomethane	02.06.13	524.2		ug/L	0.5	☒
2943	Bromodichloromethane	02.06.13	524.2	0.6	ug/L	0.5	☐
2942	Bromoform	02.06.13	524.2	0.7	ug/L	0.5	☐
2944	Chlorodibromomethane	02.06.13	524.2	1.5	ug/L	0.5	☐
2941	Chloroform	02.06.13	524.2	0.5	ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)	02.06.13	524.2		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water?	☒ Yes	☐ No
Was the sample dechlorinated at the lab?	☐ Yes	☐ No
Was this information sent to IDEM by the lab?	☒ Yes	☐ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☐ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: Jon Kronemier **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	02/26/14	03/11/14	03/11/14	2014021191

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 02/25/14 **Sample ID:** P0214-422 **POE:** **Sampling Site/Location:** Entry Point #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	03.03.14	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	03.03.14	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	03.03.14	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	03.03.14	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	03.03.14	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	03.03.14	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	03.03.14	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	03.03.14	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	03.03.14	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	03.03.14	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	03.03.14	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	03.03.14	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	03.03.14	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	03.03.14	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY): 02.25.14

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	03.03.14	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	03.03.14	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	03.03.14	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	03.03.14	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	03.03.14	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	03.03.14	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	03.03.14	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	03.03.14	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	03.03.14	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	03.03.14	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	03.03.14	524.2 ☒	1.2	ug/L	0.5	☐
2944	Chlorodibromomethane	03.03.14	524.2 ☒	1.0	ug/L	0.5	☐
2941	Chloroform	03.03.14	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	03.03.14	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water? ☒ Yes ☐ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☒ Yes ☐ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☐ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environmental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	12/17/14	12/24/14	12/24/14	2014121216

PWSID: IN5260001 System Name: BBP Water Corp

Main Lab Certification: C-39-01 Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 Lab Contact Person: Whitney Wu Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 12/16/14 Sample ID: P1214-173 POE: Sampling Site/Location: Treatment Plant

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	12.18.14	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	12.18.14	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	12.18.14	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

TREATMENT PLANT

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 12.16.14

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	12.18.14	524.2		ug/L	0.5	☒
2214	Bromomethane	12.18.14	524.2		ug/L	0.5	☒
2216	Chloroethane	12.18.14	524.2		ug/L	0.5	☒
2210	Chloromethane	12.18.14	524.2		ug/L	0.5	☒
2965	2-Chlorotoluene	12.18.14	524.2		ug/L	0.5	☒
2956	4-Chlorotoluene	12.18.14	524.2		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	12.18.14	524.2		ug/L	0.5	☒
2978	1,1-Dichloroethane	12.18.14	524.2		ug/L	0.5	☒
2412	1,3-Dichloropropane	12.18.14	524.2		ug/L	0.5	☒
2416	2,2-Dichloropropane	12.18.14	524.2		ug/L	0.5	☒
2410	1,1-Dichloropropene	12.18.14	524.2		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	12.18.14	524.2		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	12.18.14	524.2		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	12.18.14	524.2		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	12.18.14	524.2		ug/L	0.5	☒
2408	Dibromomethane	12.18.14	524.2		ug/L	0.5	☒
2943	Bromodichloromethane	12.18.14	524.2		ug/L	0.5	☒
2942	Bromoform	12.18.14	524.2	0.9	ug/L	0.5	☐
2944	Chlorodibromomethane	12.18.14	524.2	1.3	ug/L	0.5	☐
2941	Chloroform	12.18.14	524.2		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	12.18.14	524.2		ug/L	0.5	☒

Other Information:

Does the system chlorinate its water? ☒ Yes ☐ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ $Na_2S_2O_3$
☐ HCl
☒ Ascorbic Acid
☐ Other

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
835 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.
Tel: 812-273-6699 Fax: 812-273-5788

COC-3 (Rev 12/13)
Laboratory Number: 121216
Page: of

Client Information:		PWS ID #	Billing Information:		Quote Number
Company Name:	BRP WATER CORP.	5260001	Company Name:	SAME	
Contact Name:	DAN DALTON	Project Name	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.		Address	PO BOX 186	
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Sales Manager: Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code: (DWW) = Drinking Water - Well; DWS = Drinking Water - Surface; O = Other

Turn-Around Time (In Work Days): (Standard) 10-15 Days | Rush: 1 Day | 3 Days | 5 Days
The appropriate "Rush" must be circled and will incur a surcharge.

Special Requests
Forward results to IDEM ($10/report) ☐YES ■NO
Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information: Date	Time	Grab/Comp	Matrix Code	Location/Description
VOC	P1214 173	7:15 AM	16 Dec. 2014	Grab		TREATMENT PLANT, ENTRY POINT #2, FINISHED WATER

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) Raw Water (Treated Water)

Do you chlorinate your water ? (please circle): (Yes)____(chlorinated) No____(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions: Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
TB = Ø	Print Name of Sampler	DAN DALTON					
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		Rho 1030	DEC 17 2014	☑Y ☐N	☑Y ☐N	4.0m
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail____

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	12/17/14	12/24/14	12/24/14	20141212200

PWSID: IN5260001 System Name: BBP Water Corp

Main Lab Certification: C-39-01 Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 Lab Contact Person: Whitney Wu Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 12/16/14 Sample ID: P1214-176 POE: Sampling Site/Location: Well #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	12.18.14	524.2 ☒	1.4	ug/L	0.5	☐	5
2991	Toluene	12.18.14	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	12.18.14	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	12.18.14	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #1

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 12.16.14

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	12.18.14	524.2 ☒	1.2	ug/L	0.5	☐
2210	Chloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	12.18.14	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	12.18.14	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	12.18.14	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	12.18.14	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	12.18.14	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	12.18.14	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	12.18.14	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ $Na_2S_2O_3$
☐ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to: **Indiana Department of Environental Management**
  Drinking Water Branch - Compliance Section
  100 N Senate Avenue
  Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
835 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

Tel: 812-273-8699 Fax: 812-273-5788

COC-3 (Rev 12/13)

Laboratory Number: 121220

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (in Work Days)				Matrix Code	Special Requests
(DWW) = Drinking Water - Well	(Standard)	Rush				
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days		Forward results to IDEM ($10/report) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.					Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P1214 176	16 DEC. 2014	8:15 AM	Grab		WELL #1, RAW WATER

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes___(chlorinated) (No___(unchlorinated))

Comments	Sampler Name and Signature				Sample Conditions		
TB=0	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		1030	DEC 17 2014	~~☐Y~~ ☐N	~~☐Y~~ ☐N	2.0 C
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass___ or Fail___

If temperature QC failed, client was notified by ELI, initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	12/17/14	12/24/14	12/24/14	2014121219

PWSID:	System Name:
IN5260001	BBP Water Corp.

Main Lab Certification:	Main/Contracted Laboratory Name:
C-39-01	Environmental Laboratories, Inc.

Testing Lab ID:	Lab Contact Person:	Contact Phone No:
C-39-01	Whitney Wu	812-273-6699

Collection Date (MM/DD/YY):	Sample ID:	POE:	Sampling Site/Location:
12/16/14	P1214-175		Well #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	12.18.14	524.2 ☒	10.0	ug/L	0.5	☐	5
2991	Toluene	12.18.14	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	6
2976	Vinyl Chloride	12.18.14	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	12.18.14	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #2

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 12.16.14

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	12.18.14	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	12.18.14	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	12.18.14	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	12.18.14	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	12.18.14	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	12.18.14	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	12.18.14	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinate its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ $Na_2S_2O_3$
☐ HCl
☒ Ascorbic Acid
☐ Other ____

Completed By: [signature] **Reviewed by:** [signature]

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** ____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.
Tel: 812-273-8699 Fax: 812-273-5768

COC-3 (Rev 12/13)
Laboratory Number: 121219
Page: of

Client Information:		PWS ID #	Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	5260001	Company Name:	SAME	
Contact Name:	DAN DALTON	Project Name	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.		Address	PO Box 186	Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (in Work Days)				Matrix Code	Special Requests
(DWW) = Drinking Water - Well	(Standard)	Rush				Forward results to IDEM ($10/report) ☐YES ■NO
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days		Composite the samples ($25 Fee) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.					

Requested Analysis	Lab ID	Collection Information: Date	Time	Grab/Comp	Location/Description
VOC	P1214 175	16 DEC 2014	7:45 AM	Grab	WELL #2, RAW WATER

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No____(unchlorinated))

Comments	Sampler Name and Signature				Sample Conditions: Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
TB= ∅	Print Name of Sampler	DAN DALTON					
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		RMO	1030 DEC 17 2014	☐Y ☐N	☐Y ☐N	6.0 °C
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass___ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53288 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	12/17/14	12/24/14	12/24/14	2014121218

PWSID: IN5260001 System Name: BBP Water Corp.

Main Lab Certification: C-39-01 Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 Lab Contact Person: Whitney Wu Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 12/16/14 Sample ID: P1214-174 POE: Sampling Site/Location: Well #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	12.18.14	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	12.18.14	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	12.18.14	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	12.18.14	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	12.18.14	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #3

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 12.16.14

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	12.18.14	524.2 ☒	3.1	ug/L	0.5	☐
2210	Chloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	12.18.14	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	12.18.14	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	12.18.14	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	12.18.14	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	12.18.14	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	12.18.14	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	12.18.14	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	12.18.14	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	12.18.14	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	12.18.14	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinate its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ $Na_2S_2O_3$
☐ HCl
☒ Ascorbic Acid
☐ Other

Completed By: _____ Reviewed by: _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:

Alternate Method:

- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.
Tel: 812-273-6699 Fax: 812-273-5788

COC-3 (Rev 12/13)
Laboratory Number: 121218
Page: of

Client Information:		PWS ID #	Billing Information:		Quote Number
Company Name:	BRP WATER CORP.	5260001	Company Name:	SAME	
Contact Name:	DAN DALTON	Project Name	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.		Address	PO BOX 186	Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (in Work Days)			
(DWW) = Drinking Water - Well	(Standard)	Rush		
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.			

Requested Analysis	Lab ID	Collection Information			Matrix Code	Special Requests / Location/Description
		Date	Time	Grab/Comp		
VOC	P1214 174	16 DEC 2014	7:20 Am	Grab		WELL #3, RAW WATER

Special Requests
Forward results to IDEM ($10/report) □YES ■NO
Composite the samples ($25 Fee) □YES ■NO

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No____(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB = 0	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		Thus 1030	DEC 17 2014	■Y □N	■Y □N	6.0
					□Y ■N	□Y □N	
					□Y □N	□Y □N	Pass___ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

Environmental Laboratories, Inc.

635 Green Road, Madison, IN 47250 Tel: 812-273-6699 Fax: 812-273-5788

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

COC-3 (Rev 12/13)

Laboratory Number: 010178

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO Box 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)				Special Requests
(DWW) = Drinking Water - Well	Standard	Rush			
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days	Forward results to IDEM ($10/report) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.				Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0115 038	6 JAN. 2015	9:15 AM	Grab		ENTRY POINT #2, TREATMENT PLANT PH L2 SS

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) Raw Water (Treated Water)

Do you chlorinate your water ? (please circle): (Yes)____(chlorinated) No____(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB = Ø	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DR JAN 07 2015	1030	■Y ☐N	■Y ☐N	4.2 DR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	01/07/15	01/13/15	01/13/15	20150101780

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 01/06/15 **Sample ID:** P0115-038 **POE:** **Sampling Site/Location:** TREATMENT PLANT

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	01.12.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	01.12.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	01.12.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	01.12.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	01.12.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY):

01.06.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	01.12.15	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	01.12.15	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	01.12.15	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	01.12.15	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	01.12.15	524.2 ☒	0.9	ug/L	0.5	☐
2944	Chlorodibromomethane	01.12.15	524.2 ☒	0.9	ug/L	0.5	☐
2941	Chloroform	01.12.15	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	01.12.15	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water? ☒ Yes ☐ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: _____
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.

635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

Tel: 812-273-6699 Fax: 812-273-5788

COC-3 (Rev 12/13)

Laboratory Number: 010179

Page: of

Client Information:		PWS ID #	Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	5260001	Company Name:	SAME	
Contact Name:	DAN DALTON	Project Name	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.		Address	PO BOX 186	Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code: (DWW) = Drinking Water - Well; DWS = Drinking Water - Surface; O = Other

Turn-Around Time (in Work Days): (Standard) 10-15 Days; Rush: 1 Day, 3 Days, 5 Days

The appropriate "Rush" must be circled and will incur a surcharge.

Special Requests

Forward results to IDEM ($10/report) ☐YES ■NO

Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information: Date	Time	Grab/Comp	Matrix Code	Location/Description
VOC	P0115 039	6 JAN 2015	0930 AM	Grab		WELL # 1 pH 12 TM

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No____(unchlorinated))

Comments	Sampler Name and Signature				Sample Conditions: Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
TB=Ø	Print Name of Sampler	DAN DALTON					
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		BR JAN 07 2015	1030	☑Y ☐N	☑Y ☐N	4.2 DR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail____

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.

Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.

Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	01/07/15	01/13/15	01/13/15	20150101791

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 01/06/15 **Sample ID:** P0115-039 **POE:** **Sampling Site/Location:** WELL #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	01.12.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	01.12.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	01.12.15	524.2 ☒	1.2	ug/L	0.5	☐	5
2991	Toluene	01.12.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	01.12.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	01.12.15	524.2 ☒		ug/L	1.0	☒	10000

** See Important note on reverse (page 2) if an alternate method was used.

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY): 01.06.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	01.12.15	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	01.12.15	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	01.12.15	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	01.12.15	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	01.12.15	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	01.12.15	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	01.12.15	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

Tel: 812-273-6699 Fax: 812-273-5788

COC-3 (Rev 12/13)

Laboratory Number: 010177

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:
(DWW) = Drinking Water - Well
DWS = Drinking Water - Surface
O = Other

Turn-Around Time (In Work Days)
(Standard) 10-15 Days
Rush: 1 Day | 3 Days | 5 Days
The appropriate "Rush" must be circled and will incur a surcharge.

Special Requests
Forward results to IDEM ($10/report) □YES ■NO
Composite the samples ($25 Fee) □YES ■NO

Requested Analysis	Lab ID	Collection Information: Date	Time	Grab/Comp	Matrix Code	Location/Description
VOC	P0115 037	6 JAN 2015	9:15 AM	Grab		WELL # 2 pH<2

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No____(unchlorinated))

Comments	Sampler Name and Signature				Sample Conditions: Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
TB=0	Print Name of Sampler	DAN DALTON					
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		JAN 07 2015	1030	■Y □N	■Y □N	4.2
					□Y □N	□Y □N	
					□Y □N	□Y □N	Pass ✓ or Fail____

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	01/07/15	01/13/15	01/13/15	2015010177

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 01/06/15 **Sample ID:** P0115-037 **POE:** **Sampling Site/Location:** WELL #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	01.12.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	01.12.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	01.12.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	01.12.15	524.2 ☒	10.5	ug/L	0.5	☐	5
2991	Toluene	01.12.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	01.12.15	524.2 ☒	0.5	ug/L	0.5	☐	5
2976	Vinyl Chloride	01.12.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	01.12.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) If an alternate method was used.

Collection Date (MM/DD/YY): 01.06.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	01.12.15	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	01.12.15	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	01.12.15	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	01.12.15	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	01.12.15	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	01.12.15	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	01.12.15	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	01.12.15	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	01.12.15	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	01.12.15	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: _____
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" **and** enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

Tel: 812-273-6699 Fax: 812-273-5788

COC-3 (Rev 12/13)

Laboratory Number: 010180

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)				Special Requests
(DWW) = Drinking Water - Well	Standard	Rush			
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days	Forward results to IDEM ($10/report) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.				Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0115040	6 JAN 2015	9:00 AM	Grab		WELL #3 pH 6.2

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No)____(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		AR JAN 07 2015	1030	☑Y ☐N	☑Y ☐N	4.2 AR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	01/07/15	01/13/15	01/13/15	2015010180

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 01/06/15 **Sample ID:** P0115-040 **POE:** **Sampling Site/Location:** WELL #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	01.13.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	01.13.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	01.13.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	01.13.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	01.13.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	01.13.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	01.13.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	01.13.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	01.13.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	01.13.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	01.13.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	01.13.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	01.13.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	01.13.15	524.2 ☒	0.6	ug/L	0.5	☐	5
2991	Toluene	01.13.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	01.13.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	01.13.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	01.13.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	01.13.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	01.13.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	01.13.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY): 01.06.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	01.13.15	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	01.13.15	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	01.13.15	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	01.13.15	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	01.13.15	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	01.13.15	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	01.13.15	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	01.13.15	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	01.13.15	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	01.13.15	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	01.13.15	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	01.13.15	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	01.13.15	524.2 ☒	0.8	ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: _____
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	02/24/15	03/02/15	03/02/15	2015021056

PWSID: IN5260001 **System Name:** BBP Water Corp.

Main Lab Certification: C-39-01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 02/23/15 **Sample ID:** P0215-407 **POE:** **Sampling Site/Location:** Well #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	02.28.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	02.28.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	02.28.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	02.28.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	02.28.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	02.28.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	02.28.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	02.28.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	02.28.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	02.28.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	02.28.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	02.28.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	02.28.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	02.28.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY): 02.23.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	02.28.15	524.2 ☒		ug/L	0.5	☒
2214	Bromomethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2216	Chloroethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2210	Chloromethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2965	2-Chlorotoluene	02.28.15	524.2 ☒		ug/L	0.5	☒
2956	4-Chlorotoluene	02.28.15	524.2 ☒		ug/L	0.5	☒
2967	1,3-Dichlorobenzene	02.28.15	524.2 ☒		ug/L	0.5	☒
2978	1,1-Dichloroethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2412	1,3-Dichloropropane	02.28.15	524.2 ☒		ug/L	0.5	☒
2416	2,2-Dichloropropane	02.28.15	524.2 ☒		ug/L	0.5	☒
2410	1,1-Dichloropropene	02.28.15	524.2 ☒		ug/L	0.5	☒
2413	1,3-Dichloropropene (cis & trans)	02.28.15	524.2 ☒		ug/L	0.5	☒
2986	1,1,1,2-Tetrachloroethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2988	1,1,2,2-Tetrachloroethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2414	1,2,3-Trichloropropane	02.28.15	524.2 ☒		ug/L	0.5	☒
2408	Dibromomethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2943	Bromodichloromethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2942	Bromoform	02.28.15	524.2 ☒		ug/L	0.5	☒
2944	Chlorodibromomethane	02.28.15	524.2 ☒		ug/L	0.5	☒
2941	Chloroform	02.28.15	524.2 ☒		ug/L	0.5	☒
2251	Methy-Tert-Butyl Ether (MTBE)	02.28.15	524.2 ☒		ug/L	0.5	☒

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: _____
- if a constituent was below detection limits (i.e., not detected), select **"BDL"** and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	03/24/15	03/30/15	03/30/15	2015031167

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C-39-01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 03/23/15 **Sample ID:** P0315-256 **POE:** **Sampling Site/Location:** Well #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	03.25.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	03.25.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	03.25.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	03.25.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	03.25.15	524.2 ☒	1.0	ug/L	0.5	☐	5
2991	Toluene	03.25.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	03.25.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	03.25.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	03.25.15	524.2 ☒		ug/L	1.0	☒	10000

** See Important note on reverse (page 2) if an alternate method was used.

IN5260001

Collection Date (MM/DD/YY): 03.23.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	03/24/15	03/30/15	03/30/15	2015031165

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 03/23/15 **Sample ID:** P0315-254 **POE:** **Sampling Site/Location:** Well #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	03.24.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	03.24.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	03.24.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	03.24.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	03.24.15	524.2 ☒	9.6	ug/L	0.5	☐	5
2991	Toluene	03.24.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	03.24.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	03.24.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	03.24.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

IN5260001

Collection Date (MM/DD/YY): 03.23.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select **"BDL"** and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	03/24/15	03/30/15	03/30/15	2015031166

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 03/23/15 **Sample ID:** P0315-255 **POE:** **Sampling Site/Location:** Well #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	03.25.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	03.25.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	03.25.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	03.25.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	03.25.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	03.25.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	03.25.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	03.25.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	03.25.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	03.25.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY): 03.23.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	03/17/15	03/30/15	03/30/15	2015030886

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 03/16/15 **Sample ID:** P0315-194 **POE:** **Sampling Site/Location:** BACK-UP WELL

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	03.24.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	03.24.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	03.24.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	03.24.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	03.24.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	03.24.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	03.24.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	03.24.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	03.24.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	03.24.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

IN5260001

Collection Date (MM/DD/YY): 03.16.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" **and** enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	04/23/15	05/06/15	05/06/15	2015041340

PWSID: IN5260001 **System Name:** BBP Water Corp.

Main Lab Certification: C-39-01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 04/22/15 **Sample ID:** P0415-275 **POE:** **Sampling Site/Location:** Well #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	05.01.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	05.01.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	05.01.15	524.2 ☒	1.0	ug/L	0.5	☒	5
2991	Toluene	05.01.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	05.01.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	05.01.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

#1

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 04.22.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☐ No

Was the sample dechlorinated at the lab? ☐ Yes ☐ No

Was this information sent to IDEM by the lab? ☐ Yes ☐ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	04/23/15	05/06/15	05/06/15	2015041371

PWSID: IN5260001 **System Name:** BBP Water Corp.

Main Lab Certification: C-39-01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 04/22/15 **Sample ID:** P0415-277 **POE:** **Sampling Site/Location:** Well #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	05.01.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	05.01.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	05.01.15	524.2 ☒	8.2	ug/L	0.5	☒	5
2991	Toluene	05.01.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	05.01.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	05.01.15	524.2 ☒		ug/L	10	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

#2

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY): 04.22.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	04/23/15	05/06/15	05/06/15	2015041370

PWSID: IN5260001 **System Name:** BBP Water Corp

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 04/22/15 **Sample ID:** P0415-276 **POE:** **Sampling Site/Location:** Well #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	05.01.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	05.01.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	05.01.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	05.01.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	05.01.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	05.01.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	05.01.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	05.01.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

#3

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 04.22.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.
Tel: 812-273-8699 Fax: 812-273-5788

COC-3 (Rev 12/13)
Laboratory Number: 050962
Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)				Matrix Code	Special Requests
(DWW)= Drinking Water - Well	(Standard)	Rush				
DWS =Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days		Forward results to IDEM ($10/report) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.					Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0515308	12 MAY 2015	0900 AM	(Grab)	DWW	WELL # 1

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No) (unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB-0, pH 4.2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DK MAY 14 2015	1045	■Y ☐N	■Y ☐N	6.0 DK
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail____

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	05/14/15	06/01/15	06/01/15	2015050962

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 05/12/15 **Sample ID:** P0515-308 **POE:** **Sampling Site/Location:** WELL #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	05.23.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	05.23.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	05.23.15	524.2 ☒	1.1	ug/L	0.5	☐	5
2991	Toluene	05.23.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	05.23.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	05.23.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #1

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 05.12.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

Tel: 812-273-6890 Fax: 812-273-5788

COC-3 (Rev 12/13)

Laboratory Number: 050960

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)				Matrix Code	Special Requests
(DWW) = Drinking Water - Well	(Standard)	Rush				Forward results to IDEM ($10/report) ☐YES ■NO
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days		Composite the samples ($25 Fee) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.					

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0515306	12 MAY 2015	0830 AM	(Grab)	DWW	WELL #2

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes___(chlorinated) (No)___(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0, pH<2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler		Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
			DR MAY 14 2015	1045	☑Y ☐N	☑Y ☐N	6.0 DR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	05/14/15	06/01/15	06/01/15	2015050960

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 05/12/15 **Sample ID:** P0515-306 **POE:** **Sampling Site/Location:** WELL #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	05.23.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	05.23.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	05.23.15	524.2 ☒	8.1	ug/L	0.5	☐	5
2991	Toluene	05.23.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	05.23.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	05.23.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

WELL #2

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 05.12.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.
Tel: 812-273-6699 Fax: 812-273-5788

COC-3 (Rev 12/13)
Laboratory Number: 050961
Page: of

Client Information:				Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #		Company Name:	SAME	
Contact Name:	DAN DALTON	5260001		Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name		Address	PO Box 186	
						Sales Manager
City, State, Zip:	SPENCER, IN. 47460			City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283			Phone Number:	11	
Fax Number:	812 829 1050			Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET			E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)				Special Requests
(DWW)= Drinking Water - Well	(Standard)	Rush			
DWS =Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days	Forward results to IDEM ($10/report) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.				Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0515307	12 MAY 2015	0800 AM	(Grab)	DWW	WELL #3

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes___(chlorinated) (No)___(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0, pH<2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		MAY 14 2015	1045	■Y ☐N	■Y ☐N	6.0 OK
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	05/14/15	06/01/15	06/01/15	2015050961

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 05/12/15 **Sample ID:** P0515-307 **POE:** **Sampling Site/Location:** WELL #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	05.23.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	05.23.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	05.23.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	05.23.15	524.2 ☒	0.6	ug/L	0.5	☐	5
2991	Toluene	05.23.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	05.23.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	05.23.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	05.23.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	05.23.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #3

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 05.12.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.

635 Green Road, Madison, IN 47250 Tel: 812-273-8699 Fax: 812-273-5788

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

COC-3 (Rev 12/13)

Laboratory Number: 061713

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO Box 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)			
~~DWW~~ = Drinking Water - Well	Standard	Rush		
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.			

Requested Analysis	Lab ID	Collection Information			Matrix Code	Special Requests / Location/Description
		Date	Time	Grab/Comp		
VOC	P0615 404	15 JUNE 2015	10:30 AM	Grab	~~DWW~~ O	TEST WELL

Special Requests

Forward results to IDEM ($10/report) ☐YES ■NO

Composite the samples ($25 Fee) ☐YES ■NO

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) No____(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0 pH<2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		JUN 16 2015	1113	☑Y ☐N	☑Y ☐N	5.2
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.

Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.

Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	06/16/15	06/24/15	06/24/15	2015061713

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 06/15/15 **Sample ID:** P0615-404 **POE:** **Sampling Site/Location:** TEST WELL

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	06.18.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	06.18.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	06.18.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

TEST WELL

PWSID: Page 2 of 2

IN5260001

Collection Date (MM/DD/YY): 06.15.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.

635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

Tel: 812-273-8699 Fax: 812-273-5788

COC-3 (Rev 12/13)

Laboratory Number: 061715

Page: of

65 of 97

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO Box 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code: (DWW) = Drinking Water - Well; DWS = Drinking Water - Surface; O = Other

Turn-Around Time (In Work Days): (Standard) 10-15 Days; Rush: 1 Day, 3 Days, 5 Days

The appropriate "Rush" must be circled and will incur a surcharge.

Special Requests

Forward results to IDEM ($10/report) ☐YES ■NO

Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information: Date	Time	Grab/Comp	Matrix Code	Location/Description
VOC	P0615 407	15 JUNE 2015	0930	Grab	DWW	WELL #1

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes___(chlorinated) (No)___(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions: Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
TB=0 pH<2	Print Name of Sampler	DAN DALTON					
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DR JUN 16 2015	1115	☒Y ☐N	☒Y ☐N	5.2 DR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.

Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.

Client name authorizing tests_____, Date & time_____.

Well # 1

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	06/16/15	06/24/15	06/24/15	2015061715

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C-39-01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 06/15/15 **Sample ID:** P0615-407 **POE:** **Sampling Site/Location:** WELL #31

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	06.18.15	524.2 ☒	1.1	ug/L	0.5	☐	5
2991	Toluene	06.18.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	06.18.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	06.18.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

WELL #1 AKA 31

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 06.15.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water?	☐ Yes	☒ No
Was the sample dechlorinated at the lab?	☐ Yes	☒ No
Was this information sent to IDEM by the lab?	☐ Yes	☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.

635 Green Road, Madison, IN 47250 Tel: 812-273-6699 Fax: 812-273-5788

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

COC-3 (Rev 12/13)

Laboratory Number: 061716

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code: (DWW) = Drinking Water - Well; DWS = Drinking Water - Surface; O = Other

Turn-Around Time (In Work Days): (Standard) 10-15 Days; Rush: 1 Day, 3 Days, 5 Days. The appropriate "Rush" must be circled and will incur a surcharge.

Special Requests

Forward results to IDEM ($10/report) ☐YES ■NO

Composite the samples ($25 Fee) ☐YES ■NO

Requested Analysis	Lab ID	Collection Information: Date	Time	Grab/Comp	Matrix Code	Location/Description
VOC	P0615 408	15 JUNE 2015	0900	Grab	DWW	WELL #2

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes___(chlorinated) (No)___(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions: Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
TB=0 pH<2	Print Name of Sampler	DAN DALTON					
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DR JUN 16 2015	1115	☑Y ☐N	☑Y ☐N	5.2 DR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.

Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.

Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only ⇒ (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	06/16/15	06/24/15	06/24/15	20150617 16

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 06/15/15 **Sample ID:** P0615-408 **POE:** **Sampling Site/Location:** WELL #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	06.18.15	524.2 ☒	9.3	ug/L	0.5	☐	5
2991	Toluene	06.18.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	06.18.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	06.18.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

WELL #2

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 06.15.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ Na2S2O3
☒ HCl
☒ Ascorbic Acid
☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.

635 Green Road, Madison, IN 47250 Tel: 812-273-8699 Fax: 812-273-5788

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

COC-3 (Rev 12/13)

Laboratory Number: 061714

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO Box 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time(in Work Days)			
(DWW)= Drinking Water - Well	(Standard)	Rush		
DWS =Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.			

Requested Analysis	Lab ID	Collection Information			Matrix Code	Special Requests / Location/Description
		Date	Time	Grab/Comp		
VOC	P0615 406	15 JUNE 2015	0830	Grab	DWW	WELL #3

Special Requests

Forward results to IDEM ($10/report) □YES ■NO

Composite the samples ($25 Fee) □YES ■NO

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No)____(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0 pH<2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DR JUN 16 2015	1115	☑Y □N	☑Y □N	3.2 DR
					□Y □N	□Y □N	
					□Y □N	□Y □N	Pass ✓ or Fail____

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	06/16/15	06/24/15	06/24/15	2015061714

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 06/15/15 **Sample ID:** P0615-406 **POE:** **Sampling Site/Location:** WELL #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	06.18.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	06.18.15	524.2 ☒	0.6	ug/L	0.5	☐	5
2991	Toluene	06.18.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	06.18.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	06.18.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	06.18.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	06.18.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #3

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 06.15.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.
Tel: 812-273-6699 Fax: 812-273-5788

COC-3 (Rev 12/13)
Laboratory Number: 071672
Page: of

NEW PLEASE UPDATE

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO Box 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	"	
Fax Number:	812 829 1050		Fax Number:	"	
E-mail Address:	dan.d@BBPWATERCORP.com		E-mail Address:	"	

Matrix Code:	Turn-Around Time (In Work Days)				Matrix Code	Special Requests
(DWW) = Drinking Water - Well	(Standard)	Rush				Forward results to IDEM ($10/report) ☐YES ■NO
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days		Composite the samples ($25 Fee) ☐YES ■NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge					

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0715 496	14 July 2015	10:50 Am	(Grab)	DWW	WELL # 1

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes___(chlorinated) (No)___(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0 pH<2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DR 7/15/15	1100	☑Y ☐N	☑Y ☐N	6.0 DR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53288 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	07/15/15	07/31/15	07/31/15	20507672

PWSID:	System Name:
IN5260001	BBP WATER

Main Lab Certification:	Main/Contracted Laboratory Name:
C - 39 - 01	Environmental Laboratories, Inc.

Testing Lab ID:	Lab Contact Person:	Contact Phone No:
C - 39 - 01	Whitney Wu	812 - 273 - 6699

Collection Date (MM/DD/YY):	Sample ID:	POE:	Sampling Site/Location:
07/14/15	P0715-496		WELL #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	07.23.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	07.23.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	07.23.15	524.2 ☒	0.9	ug/L	0.5	☒	5
2991	Toluene	07.23.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	07.23.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	07.23.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

WELL # 1

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 07.14.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

☒ Iced
☐ $Na_2S_2O_3$
☒ HCl
☒ Ascorbic Acid
☐ Other

Completed By: Angela Bear **Reviewed by:**

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:***
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250
Tel: 812-273-6699 Fax: 812-273-5788

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

COC-3 (Rev 12/13)
Laboratory Number: 071670
Page: of

NEW, PLEASE UPDATE

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO Box 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	dan.d@BBPWATERCORP.com		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)			
(DWW) = Drinking Water - Well	(Standard)	Rush		
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days
O = Other	The appropriate "Rush" must be circled and will incur a surcharge			

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0715 495	14 July 2015	11:25 AM	(Grab)	DWW	WELL # 2

Special Requests

Forward results to IDEM ($10/report) ☐YES ■NO

Composite the samples ($25 Fee) ☐YES ■NO

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) (No)____(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
pH<2 TB=0	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DR 7/15/15	1100	■Y ☐N	■Y ☐N	6.0 DR
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53288 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	07/15/15	07/31/15	07/31/15	2015071670

PWSID: IN5260001
System Name: BBP WATER

Main Lab Certification: C-39-01
Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C-39-01
Lab Contact Person: Whitney Wu
Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 07/14/15
Sample ID: P0715-495
POE:
Sampling Site/Location: WELL #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	07.23.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	07.23.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	07.23.15	524.2 ☒	8.6	ug/L	0.5	☒	5
2991	Toluene	07.23.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	07.23.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	07.23.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #2

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 07.14.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water?	☐ Yes	☑ No
Was the sample dechlorinated at the lab?	☐ Yes	☑ No
Was this information sent to IDEM by the lab?	☐ Yes	☑ No

Preservative Used:

- ☑ Iced
- ☐ $Na_2S_2O_3$
- ☑ HCl
- ☑ Ascorbic Acid
- ☐ Other

Completed By: Angela Bear **Reviewed by:**

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:***
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

NEW PLEASE UPDATE

Environmental Laboratories, Inc.
635 Green Road, Madison, IN 47250
Tel: 812-273-6899 Fax: 812-273-5768

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

COC-3 (Rev 12/13)
Laboratory Number: 07 1668
Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	dan.d@BBPWATERCORP.com		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)			
(DWW) = Drinking Water - Well	(Standard)	Rush		
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days
O= Other	The appropriate "Rush" must be circled and will incur a surcharge			

Requested Analysis	Lab ID	Collection Information			Matrix Code	Special Requests / Location/Description
		Date	Time	Grab/Comp		
VOC	P0715 494	14 July 2015	10:15 Am	(Grab)	DWW	WELL #3

Special Requests
Forward results to IDEM ($10/report) □YES ■NO
Composite the samples ($25 Fee) □YES ■NO

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes___(chlorinated) (No)___(unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0 pH<2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		DR 7/15/15	1100	■Y □N	■Y □N	6.0 DR
					□Y □N	□Y □N	
					□Y □N	□Y □N	Pass ✓ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	07/15/15	07/31/15	07/31/15	2015071668

PWSID: IN5260001
System Name: BBP WATER

Main Lab Certification: C-39-01
Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C-39-01
Lab Contact Person: Whitney Wu
Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 07/14/15
Sample ID: P0715-494
POE:
Sampling Site/Location: WELL #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	07.23.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	07.23.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	07.23.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2991	Toluene	07.23.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	07.23.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	07.23.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	07.23.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	07.23.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #3

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 07.14.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene	. .	524.2 ☐	.	ug/L	0.5	☐
2214	Bromomethane	. .	524.2 ☐	.	ug/L	0.5	☐
2216	Chloroethane	. .	524.2 ☐	.	ug/L	0.5	☐
2210	Chloromethane	. .	524.2 ☐	.	ug/L	0.5	☐
2965	2-Chlorotoluene	. .	524.2 ☐	.	ug/L	0.5	☐
2956	4-Chlorotoluene	. .	524.2 ☐	.	ug/L	0.5	☐
2967	1,3-Dichlorobenzene	. .	524.2 ☐	.	ug/L	0.5	☐
2978	1,1-Dichloroethane	. .	524.2 ☐	.	ug/L	0.5	☐
2412	1,3-Dichloropropane	. .	524.2 ☐	.	ug/L	0.5	☐
2416	2,2-Dichloropropane	. .	524.2 ☐	.	ug/L	0.5	☐
2410	1,1-Dichloropropene	. .	524.2 ☐	.	ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)	. .	524.2 ☐	.	ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane	. .	524.2 ☐	.	ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane	. .	524.2 ☐	.	ug/L	0.5	☐
2414	1,2,3-Trichloropropane	. .	524.2 ☐	.	ug/L	0.5	☐
2408	Dibromomethane	. .	524.2 ☐	.	ug/L	0.5	☐
2943	Bromodichloromethane	. .	524.2 ☐	.	ug/L	0.5	☐
2942	Bromoform	. .	524.2 ☐	.	ug/L	0.5	☐
2944	Chlorodibromomethane	. .	524.2 ☐	.	ug/L	0.5	☐
2941	Chloroform	. .	524.2 ☐	.	ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)	. .	524.2 ☐	.	ug/L	0.5	☐

Other Information:

Does the system chlorinates its water?	☐ Yes	☒ No
Was the sample dechlorinated at the lab?	☐ Yes	☒ No
Was this information sent to IDEM by the lab?	☐ Yes	☒ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: Angela Bean **Reviewed by:** [illegible]

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environmental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.

CHAIN OF CUSTODY / VOC

COC-3 (Rev 12/13)

Laboratory Number: 082081

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

635 Green Road, Madison, IN 47250 Tel: 812-273-6699 Fax: 812-273-5788

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BBP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code: (DWW) = Drinking Water - Well; DWS = Drinking Water - Surface; O = Other

Turn-Around Time (In Work Days): (Standard) 10-15 Days; Rush: 1 Day, 3 Days, 5 Days

The appropriate "Rush" must be circled and will incur a surcharge.

Special Requests

Forward results to IDEM ($10/report) ☐YES ☒NO

Composite the samples ($25 Fee) ☐YES ☒NO

Requested Analysis	Lab ID	Collection Information: Date	Time	Grab/Comp	Matrix Code	Location/Description
VOC	P0815 524	17 Aug 2015	10:45 Am	(Grab)	DWW	WELL # 1

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) No X (unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions: Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
pH<2 TB=0	Print Name of Sampler	DAN DALTON					
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		PMC 1045	8-18-15	☐Y ☐N	☒Y ☐N	6-a
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass / or Fail

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.

Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.

Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	08/18/15	09/10/15	09/10/15	2015082081

PWSID: IN5260001
System Name: BBP WATER

Main Lab Certification: C - 39 - 01
Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01
Lab Contact Person: Whitney Wu
Contact Phone No: 812 - 273 - 6699

Collection Date (MM/DD/YY): 08/17/15
Sample ID: P0815-524
POE:
Sampling Site/Location: WELL #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	08.31.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	08.31.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	08.31.15	524.2 ☒	1.3	ug/L	0.5	☐	5
2991	Toluene	08.31.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	08.31.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	08.31.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #1

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 08.17.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinate its water?	☐ Yes	☒ No
Was the sample dechlorinated at the lab?	☐ Yes	☒ No
Was this information sent to IDEM by the lab?	☐ Yes	☒ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other

Completed By: Angela Bean **Reviewed by:**

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** ____
- if a constituent was below detection limits (i.e., not detected), select "**BDL**" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

Environmental Laboratories, Inc.

635 Green Road, Madison, IN 47250 Tel: 812-273-8699 Fax: 812-273-5788

CHAIN OF CUSTODY / VOC

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

COC-3 (Rev 12/13)

Laboratory Number: 082080

Page: of

Client Information:			Billing Information:		Quote Number
Company Name:	BRP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)				Special Requests
(DWW) = Drinking Water - Well	(Standard)	Rush			Forward results to IDEM ($10/report) ☐YES ☒NO
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days	Composite the samples ($25 Fee) ☐YES ☒NO
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.				

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0815 523	17 Aug. 2015	955 AM	(Grab)	DWW	WELL #2

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) No X (unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
TB=0 pH<2	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		1045	8/18/15	☒Y ☐N	☒Y ☐N	6.0
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass___ or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	08/18/15	09/10/15	09/10/15	2015082080

PWSID: IN5260001 **System Name:** BBP WATER

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 08/17/15 **Sample ID:** P0815-523 **POE:** **Sampling Site/Location:** WELL #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	08.31.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	08.31.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	08.31.15	524.2 ☒	11.1	ug/L	0.5	☐	5
2991	Toluene	08.31.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	08.31.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	08.31.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

WELL #2

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 08.17.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinate its water?	☐ Yes	☒ No
Was the sample dechlorinated at the lab?	☐ Yes	☒ No
Was this information sent to IDEM by the lab?	☐ Yes	☒ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other

Completed By: Angela Bear **Reviewed by:**

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:***
- if a constituent was below detection limits (i.e., not detected), select **"BDL"** and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

COC-3 (Rev 12/13)

Environmental Laboratories, Inc.

CHAIN OF CUSTODY / VOC

Laboratory Number: 082079

The Chain of Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately and fully.

Page: of

635 Green Road, Madison, IN 47250 Tel: 812-273-8688 Fax: 812-273-5788

Client Information:			Billing Information:		Quote Number
Company Name:	BRP WATER CORP.	PWS ID #	Company Name:	SAME	
Contact Name:	DAN DALTON	5260001	Contact Name:	SAME	P.O. Number
Address	256 W. CLAY ST.	Project Name	Address	PO BOX 186	
					Sales Manager
City, State, Zip:	SPENCER, IN. 47460		City, State, Zip:	SAME	Harsin
Phone Number:	812 829 2283		Phone Number:	11	
Fax Number:	812 829 1050		Fax Number:	11	
E-mail Address:	WATERMAN@BLUEMARBLE.NET		E-mail Address:	11	

Matrix Code:	Turn-Around Time (In Work Days)			
(DWW) = Drinking Water - Well	(Standard)	Rush		
DWS = Drinking Water - Surface	10-15 Days	1 Day	3 Days	5 Days
O= Other	The appropriate "Rush" must be circled and will incur a surcharge.			

Requested Analysis	Lab ID	Collection Information			Matrix Code	Location/Description
		Date	Time	Grab/Comp		
VOC	P0815 522	17 Aug 2015	9:15 AM	(Grab)	DWW	WELL #3

Special Requests

Forward results to IDEM ($10/report) ☐YES ☒NO

Composite the samples ($25 Fee) ☐YES ☒NO

*** Reminder - This sample is to be collected at the Entry Point (after Chlorination, before Distribution).**

This sample is: (please circle one) (Ground Water) Surface Water

This sample is: (please circle one) (Raw Water) Treated Water

Do you chlorinate your water ? (please circle): Yes____(chlorinated) No X (unchlorinated)

Comments	Sampler Name and Signature				Sample Conditions		
	Print Name of Sampler	DAN DALTON			Samples Intact?	On Ice?	Temp. (°C) (2-6 °C)
TB=0 pH<2	Signature of Sampler	Dan Dalton	Date/Time				
	Relinquished By	Date/Time	Received By	Date/Time			
	Dan Dalton		[illegible] 1045	8-18-15	☐Y ☐N	☐Y ☐N	6.0
					☐Y ☐N	☐Y ☐N	
					☐Y ☐N	☐Y ☐N	Pass / or Fail___

If temperature QC failed, client was notified by ELI, Initials_____, Date & time_____.
Client requested to resample_____, or Client requested ELI to proceed to run all tests _____.
Client name authorizing tests_____, Date & time_____.

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	08/18/15	09/10/15	09/10/15	2015082079

PWSID: IN5260001 **System Name:** BBP WATER

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 08/17/15 **Sample ID:** P0815-522 **POE:** **Sampling Site/Location:** WELL #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	08.31.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	08.31.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	08.31.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	08.31.15	524.2 ☒	0.7	ug/L	0.5	☐	5
2991	Toluene	08.31.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	08.31.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	08.31.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	08.31.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	08.31.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #3

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 08.17.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water?	☐ Yes	☒ No
Was the sample dechlorinated at the lab?	☐ Yes	☒ No
Was this information sent to IDEM by the lab?	☐ Yes	☒ No

Preservative Used:

- ☒ Iced
- ☐ $Na_2S_2O_3$
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other

Completed By: Angela Bear **Reviewed by:**

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** ☐
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	09/15/15	09/28/15	09/28/15	2015091405

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 09/14/15 **Sample ID:** P0915-221 **POE:** **Sampling Site/Location:** Well #1

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	09.18.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	09.18.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	09.18.15	524.2 ☒	1.2	ug/L	0.5	☐	5
2991	Toluene	09.18.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	09.18.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	09.18.15	524.2 ☒		ug/L	10	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #1

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 09.14.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here: ***Alternate Method:*** _____
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to: **Indiana Department of Environental Management**
  Drinking Water Branch - Compliance Section
  100 N Senate Avenue
  Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53288 (6-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	09/15/15	09/28/15	09/28/15	2015091407

PWSID: IN5260001 **System Name:** BBP Water

Main Lab Certification: C - 39 - 01 **Main/Contracted Laboratory Name:** Environmental Laboratories, Inc.

Testing Lab ID: C - 39 - 01 **Lab Contact Person:** Whitney Wu **Contact Phone No:** 812-273-6699

Collection Date (MM/DD/YY): 09/14/15 **Sample ID:** P0915-222 **POE:** **Sampling Site/Location:** Well #2

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	09.18.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	09.18.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	09.18.15	524.2 ☒	11.6	ug/L	0.5	☐	5
2991	Toluene	09.18.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	09.18.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	09.18.15	524.2 ☒		ug/L	1.0	☒	10000

** See important note on reverse (page 2) if an alternate method was used.

Well #2

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 09.14.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water? ☐ Yes ☒ No

Was the sample dechlorinated at the lab? ☐ Yes ☒ No

Was this information sent to IDEM by the lab? ☐ Yes ☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

VOLATILE ORGANIC COMPOUNDS (VOC's) IN DRINKING WATER

State Form 53286 (8-07)
Indiana Department of Environmental Management (IDEM)
Office of Water Quality - Drinking Water Branch - Compliance Section

INSTRUCTIONS: Please submit completed forms to: IDEM OWQ Drinking Water, Mail Code 66-34, 100 N Senate Ave, Indianapolis, IN 46204-2251

For Laboratory Use Only => (Write dates as MM/DD/YY)	Lab Received:	QA Review Date:	Report Date:	Lab Report Number:
	09/15/15	09/28/15	09/28/15	2015091408

PWSID: IN5260001 System Name: BBP Water

Main Lab Certification: C-39-01 Main/Contracted Laboratory Name: Environmental Laboratories, Inc.

Testing Lab ID: C-39-01 Lab Contact Person: Whitney Wu Contact Phone No: 812-273-6699

Collection Date (MM/DD/YY): 09/14/15 Sample ID: P0915-223 POE: Sampling Site/Location: Well #3

Regulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method **	Result (ug/L)	Unit (ug/L)	Detection Level	BDL	MCL (ug/L)
2990	Benzene	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2982	Carbon Tetrachloride	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2989	Chlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2968	1,2-Dichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	600
2969	1,4-Dichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	75
2980	1,2-Dichloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2977	1,1-Dichloroethylene	09.18.15	524.2 ☒		ug/L	0.5	☒	7
2972	1,2-Dichloroethylene, cis	09.18.15	524.2 ☒		ug/L	0.5	☒	70
2979	1,2-Dichloroethylene, trans	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2964	Dichloromethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2983	1,2-Dichloropropane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2992	Ethylbenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	700
2996	Styrene	09.18.15	524.2 ☒		ug/L	0.5	☒	100
2987	Tetrachloroethylene	09.18.15	524.2 ☒	0.6	ug/L	0.5	☐	5
2991	Toluene	09.18.15	524.2 ☒		ug/L	0.5	☒	1000
2378	1,2,4-Trichlorobenzene	09.18.15	524.2 ☒		ug/L	0.5	☒	70
2981	1,1,1-Trichloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	200
2985	1,1,2-richloroethane	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2984	Trichloroethylene	09.18.15	524.2 ☒		ug/L	0.5	☒	5
2976	Vinyl Chloride	09.18.15	524.2 ☒		ug/L	0.5	☒	2
2955	Total Xylenes	09.18.15	524.2 ☒		ug/L	1.0	☒	10000

** See Important note on reverse (page 2) if an alternate method was used.

WELL #3

PWSID: IN5260001 Page 2 of 2

Collection Date (MM/DD/YY): 09.14.15

Unregulated VOCs

Comp ID#	Compound Name	Analysis Date (MM.DD.YY)	Approved Method	Result (ug/L)	Unit (ug/L)	Detection Level	BDL
2993	Bromobenzene		524.2 ☐		ug/L	0.5	☐
2214	Bromomethane		524.2 ☐		ug/L	0.5	☐
2216	Chloroethane		524.2 ☐		ug/L	0.5	☐
2210	Chloromethane		524.2 ☐		ug/L	0.5	☐
2965	2-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2956	4-Chlorotoluene		524.2 ☐		ug/L	0.5	☐
2967	1,3-Dichlorobenzene		524.2 ☐		ug/L	0.5	☐
2978	1,1-Dichloroethane		524.2 ☐		ug/L	0.5	☐
2412	1,3-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2416	2,2-Dichloropropane		524.2 ☐		ug/L	0.5	☐
2410	1,1-Dichloropropene		524.2 ☐		ug/L	0.5	☐
2413	1,3-Dichloropropene (cis & trans)		524.2 ☐		ug/L	0.5	☐
2986	1,1,1,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2988	1,1,2,2-Tetrachloroethane		524.2 ☐		ug/L	0.5	☐
2414	1,2,3-Trichloropropane		524.2 ☐		ug/L	0.5	☐
2408	Dibromomethane		524.2 ☐		ug/L	0.5	☐
2943	Bromodichloromethane		524.2 ☐		ug/L	0.5	☐
2942	Bromoform		524.2 ☐		ug/L	0.5	☐
2944	Chlorodibromomethane		524.2 ☐		ug/L	0.5	☐
2941	Chloroform		524.2 ☐		ug/L	0.5	☐
2251	Methy-Tert-Butyl Ether (MTBE)		524.2 ☐		ug/L	0.5	☐

Other Information:

Does the system chlorinates its water?	☐ Yes	☒ No
Was the sample dechlorinated at the lab?	☐ Yes	☒ No
Was this information sent to IDEM by the lab?	☐ Yes	☒ No

Preservative Used:

- ☒ Iced
- ☐ Na2S2O3
- ☒ HCl
- ☒ Ascorbic Acid
- ☐ Other: _____

Completed By: _____ **Reviewed by:** _____

Important Notes:

Alternate Method: _____

- if an alternate approved method (example, 502.2) was used for the analysis, please indicate the alternate method used here:
- if a constituent was below detection limits (i.e., not detected), select "BDL" and enter the method detection level (example: 0.5 ug/L) in the column provided.
- Please make every possible effort to print clearly and inside the lines;
- Return completed form to:

Indiana Department of Environental Management
Drinking Water Branch - Compliance Section
100 N Senate Avenue
Indianapolis, IN 46204-2251

ATTACHMENT D

Sampling Event VOC Analytical Results Laboratory Data Package

(Confidential)

ESAT Controlled Number: ESAT5.1.3.742-PJ-28Aug15

DATE: August 28, 2015

Indiana Dept of Environmental Management
ATTN: Mark Jaworski/Dan Chesterson
100 N. Senate Avenue – Room N1255
Indianapolis, IN 46804-2222

Site Name: **Bean Blossm/Patricksburg Water Co. (IN) – level 3 data validation**

Case	SDG	Samples	Lab	Matrix
45411	E2TG4	20	Mitkem	15-w;5s

Analysis: TVOA

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Joyner
Data Coordinator
ESAT Region 5 **TechLaw**

ESAT5.1.5.246

ACH
8-28-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 16 July 2015

ESAT5.1.3.742

IDEM

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: IDEM
Email Address: mjaworsk@idem.in.gov

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

SITE Name: Bean Blossom/Patricksburg Water Company (IN)

Case No: 45411 MA No: N/A SDG No: E2TG4

Number and Type of Samples: 5 soils/ 15 waters (15 Trace volatiles/ 5 Low-Medium volatiles)

Sample Numbers: E2TG4 - E2TG9, E2TH0, E2TH1, E2TH3, E2TH8, E2TH9, E2TJ0, E2TJ2 – E2TJ7, E2TK0, E2TK1

Laboratory: CHEM Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case No: 45411 SDG No: E2TG4
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Five (5) soil samples labeled E2TH3, E2TH9, E2TJ3, E2TJ5 and E2TJ7 and fifteen (4) preserved water samples labeled E2TG4 – E2TG9, E2TH0, E2TH1, E2TH8, E2TJ0, E2TJ2, E2TJ4, E2TJ6, E2TK0 and E2TK1 were shipped to Chemtech Consulting Group (CHEM) located in Mountainside, NJ. All samples were collected on June 23, 2015 and received on June 24, 2015 intact and properly cooled.

All samples were analyzed according to CLP SOW SOM02.2 and reviewed according to the August 2014 NFG for SOM02.2 (EPA-540-R-014-002).

Soil sample, E2TH3, and water sample, E2TG7, were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

No samples were identified as field blanks or field duplicates.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: August 27, 2015

Case No: 45411 SDG No: E2TG4
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

1. PRESERVATION AND HOLDING TIMES

No problems found.

The pH values for the following 'preserved' volatile samples were greater than 2 for the original analyses. The samples were all analyzed within 7 days of collection (on or before 06/30/2015). Detects and nondetects are not qualified.

E2TH8, E2TH8RE, E2TJ0, E2TJ2, E2TJ4, E2TJ4RE, E2TJ6, E2TJ6RE

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

No problems found.

3. INITIAL CALIBRATION

No problems found.

4. CONTINUING CALIBRATION

The following trace volatile samples are associated with an opening CCV with %Difference exceeding criteria. No detects were found. Nondetects are qualified as estimated UJ.

E2TH8, E2TJ0, E2TJ2, E2TJ4, E2TJ6, E2TK1, VBLK09, VBLK12, VBLK13
Chloromethane

VBLK17, VHBLK01
Methylcyclohexane

The following trace volatile samples are associated with a closing CCV with DMC %D exceeding criteria. Detects are not qualified. Nondetects are not qualified.

VBLK17, VHBLK01
1,2-Dichloroethane-d_4

The following volatile soil samples are associated with an opening CCV with %Difference exceeding criteria. No detects were found. Nondetects are qualified as estimated UJ.

E2TJ3, VBLK05
Trichlorofluoromethane

The following volatile soil samples are associated with an opening or closing CCV with DMC RRF exceeding criteria. Detects are not qualified. Nondetects are not qualified.

E2TH3, E2TH3MS, E2TH3MSD, E2TH9, E2TJ3, E2TJ3ME, E2TJ5, E2TJ7, VBLK05, VBLK06, VBLK08, VBLK19, VHBLK02
trans-1,3-Dichloropropene-d_4

5. BLANKS

The following samples were analyzed after a sample with one or more concentrations exceeding the calibration range and no interceding instrument blank. The reported detects may be a result of or supplemented by carryover. The detects are qualified as estimated J. The final result for E2TG9 is reported from E2TG9DL.

E2TG9, E2TH0, E2TJ4
Tetrachloroethene

No problems found.

6. DEUTERATED MONITORING COMPOUNDS / SURROGATES

The following trace volatile samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. No detects were found. Nondetects are not qualified.

E2TG9DL
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl acetate, Methylene chloride, Methyl tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane

E2TH8
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Acetone, Methyl acetate, Methylene chloride, Methyl tert-butyl ether, 1,1-Dichloroethane, 2-Butanone, Bromochloromethane, Chloroform, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dichloroethane, Dibromochloromethane, 1,2-Dibromoethane, Bromoform, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

E2TH8RE
Acetone, 2-Butanone

E2TJ0
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl acetate, Methylene chloride, Methyl tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane, Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E2TJ6
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl acetate, Methylene chloride, Methyl tert-butyl ether, 1,1-Dichloroethane, Bromochloromethane, Chloroform, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dichloroethane, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Bromoform, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The following volatile water samples have DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as estimated UJ.

E2TJ2DL
Benzene

E2TJ6
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

The following volatile soil samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J+. Nondetects are not qualified.

E2TH3MS
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

E2TJ3
Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Soil sample, E2TH3, and water sample, E2TG7, were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

The relative percent difference (RPD) between the following trace volatile matrix spike/matrix spike duplicate samples is outside the acceptance criteria. Detects are qualified as estimated J.

E2TG7MS, E2TG7MSD
Trichloroethene

8. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not required for Volatile analyses.

Case No: 45411
Site Name: Bean Blossom/Patricksburg Water Co. (IN)

SDG No: E2TG4
Laboratory: CHEM

9. CLEANUP PROCEDURES

Not required for Volatile analyses.

10. LABORATORY CONTROL SAMPLE

Not required for Volatile analyses.

11. INTERNAL STANDARD

No problems found.

12. TARGET ANALYTE IDENTIFICATION

No problems found.

13. REPORTED CONTRACT QUANTITATION LIMIT

The %solids for all samples was greater than 30.0%; therefore detects and nondetects do not require any qualifications.

The following trace volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E2TG5
Trichloroethene

E2TH0
Tetrachloroethene

E2TH8
Cyclohexane, Benzene, Bromodichloromethane, Ethylbenzene, o-Xylene, m,p-Xylene

E2TH8RE
Cyclohexane, Benzene, Methylcyclohexane, Bromodichloromethane, Ethylbenzene, o-Xylene, m,p-Xylene

E2TJ0
Cyclohexane, Benzene, Methylcyclohexane, Ethybenzene, o-Xylene, m,p-Xylene

E2TJ2
Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, Ethylbenzene, o-Xylene, m,p-Xylene

E2TJ4
Cyclohexane, Benzene, Tetrachloroethene, Ethylbenzene, o-Xylene

E2TJ4RE
Cyclohexane, Benzene, Methylcyclohexane, Tetrachloroethene, Ethylbenzene, o-Xylene

E2TJ6
Cyclohexane, Benzene, Tetrachloroethene, Ethylbenzene, o-Xylene

E2TJ6RE
Cyclohexane, Tetrachloroethene, Ethylbenzene, o-Xylene

The following volatile soil samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E2TH9
Acetone

E2TJ3
Acetone, Methylene chloride

14. TENTATIVELY IDENTIFIED COMPOUNDS

Sample results are identified in the separate Data Validation Report titled 'Tentatively Identified Compounds'. The manually reviewed report is titled '45411.E2TG4.TIC.rtf'.

15. SYSTEM PERFORMANCE

No problems found.

16. FIELD QC SAMPLES

No samples were identified as field blanks or field duplicates.

17. OVERALL ASSESSMENT

EXES reports only one sample result per sample:

1) In instances where the sample was re-analyzed, EXES reports the results of the reanalysis over the original analysis.
2) In instances where the sample was diluted, EXES reports only the detect from the dilution with its associated dilution factor.

Case No: 45411 SDG No: E2TG4
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

EXES reports only one value per analyte and only one Sample Summary Form for each sample. There are no separate Sample Summary Forms for the following samples:

E2TG8DL, E2TG9DL, E2TH8RE, E2TJ2DL, E2TJ3ME, E2TJ4RE, E2TJ6RE

The following volatile samples have detects which exceed the instruments calibration range. The samples were diluted and re-analyzed. EXES includes only the final reported results with the associated dilution factor in the Sample Summary Report.

E2TG8, E2TG9, E2TJ2, E2TJ3
Tetrachloroethene

EXES reported the concentration for Tetrachloroethene from the E2TG8DL analytical run, not E2TG8.
EXES reported the concentration for Tetrachloroethene from the E2TG9DL analytical run, not E2TG9.
EXES reported the concentration for Benzene from the E2TJ2DL analytical run, not E2TJ2.
EXES reported the concentration for Tetrachloroethene from the E2TJ3ME analytical run, not E2TJ3.

EXES reported the concentrations for all analytes from the E2TH8RE analytical run, not E2TH8.
EXES reported the concentrations for all analytes from the E2TJ4RE analytical run, not E2TJ4.
EXES reported the concentrations for all analytes from the E2TJ6RE analytical run, not E2TJ6.

Sample E2TJ4 was reanalyzed because the sample was analyzed after a sample with compound concentrations exceeding the calibration range with no interceding instrument blank. The original analysis reported a nondetect for Chloromethane but the reanalysis reported a detect. EXES reported the concentration from the reanalysis and qualified the result as estimated UJ.

EXES reports all TICs as a composite of the multiple analyses (original plus reanalyses/dilution).

Manual integrations were reviewed and found to be acceptable.

Per SOW SOM02.2 the RT windows for the internal standards are tightened from ± 0.50 minutes (30 seconds) to ±0.17 minutes (10 seconds). The Laboratory's Form VIII still reflect to old retention time windows. This noncompliance did not affect the acceptability of this SDG.

The soil DMC recoveries calculated by the Reviewer did not match the recoveries reported by the laboratory possibly because the recovery values were not corrected for sample sizes and percent moisture or the CCV RRF values were used instead of the 06/16/2015 ICAL values. Both sets of recoveries were within the QC limits; therefore detects and nondetects were not qualified.

Case No: 45411 SDG No: E2TG4
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Sample Summary Report

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW1	pH:	Sample Date: 06/23/2015	Sample Time: 09:55:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	1.3		ug/L	1.3		1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW2	pH:	Sample Date: 06/23/2015	Sample Time: 09:35:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	14		ug/L	14		1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW3	pH:	Sample Date: 06/23/2015	Sample Time: 09:15:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.71		ug/L	0.71		1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW4	pH:	Sample Date: 06/23/2015	Sample Time: 10:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
unknown-01	TIC	2.9	J	ug/L	2.9	J	1.0	Yes	NV
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG7MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,1-Dichloroethene	Target	5.2		ug/L	5.2		1.0	Yes	S3VE
Benzene	Target	4.3		ug/L	4.3		1.0	Yes	S3VE
Trichloroethene	Target	4.2	J	ug/L	4.2		1.0	Yes	S3VE
Toluene	Target	4.6		ug/L	4.6		1.0	Yes	S3VE
Chlorobenzene	Target	5.1		ug/L	5.1		1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG7MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,1-Dichloroethene	Target	5.5		ug/L	5.5		1.0	Yes	S3VE
Benzene	Target	4.8		ug/L	4.8		1.0	Yes	S3VE
Trichloroethene	Target	5	J	ug/L	5		1.0	Yes	S3VE
Toluene	Target	5.1		ug/L	5.1		1.0	Yes	S3VE
Chlorobenzene	Target	5.2		ug/L	5.2		1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW4	pH:	Sample Date: 06/23/2015	Sample Time: 11:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	140		ug/L	140	D	20.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TG9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW5	pH:	Sample Date: 06/23/2015	Sample Time: 11:47:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	140		ug/L	140	D	20.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
unknown-01	TIC	3	J	ug/L	3	J	1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TH0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW2	pH:	Sample Date: 06/23/2015	Sample Time: 12:34:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.33	J	ug/L	0.33	J	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TH1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW1	pH:	Sample Date: 06/23/2015	Sample Time: 02:05:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TH3	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS8	pH:	Sample Date: 06/23/2015	Sample Time: 11:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Chloromethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Bromomethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Chloroethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Methylene chloride	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,1-Dicbloroethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Chloroform	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Cyclohexane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Benzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Trichloroethene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
o-xylene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Styrene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Bromoform	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Pyridine-4-aldehyde, N-ethoxycarbo	TIC	6	J	ug/kg	6	J	1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5.2	U	ug/kg	5.2	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TH3MS	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,1-Dichloroethene	Target	73	J+	ug/kg	73		1.0	Yes	S3VE
Benzene	Target	63		ug/kg	63		1.0	Yes	S3VE
Trichloroethene	Target	64		ug/kg	64		1.0	Yes	S3VE
Toluene	Target	63		ug/kg	63		1.0	Yes	S3VE
Chlorobenzene	Target	62		ug/kg	62		1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TH3MSD	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,1-Dichloroethene	Target	67		ug/kg	67		1.0	Yes	S3VE
Benzene	Target	66		ug/kg	66		1.0	Yes	S3VE
Trichloroethene	Target	64		ug/kg	64		1.0	Yes	S3VE
Toluene	Target	63		ug/kg	63		1.0	Yes	S3VE
Chlorobenzene	Target	65		ug/kg	65		1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TH8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW7	pH:	Sample Date: 06/23/2015	Sample Time: 11:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.21	J	ug/L	0.21	J	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.22	J	ug/L	0.22	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.25	J	ug/L	0.25	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.13	J	ug/L	0.13	J	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.7		ug/L	0.7		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.18	J	ug/L	0.18	J	1.0	Yes	S3VE
o-Xylene	Target	0.13	J	ug/L	0.13	J	1.0	Yes	S3VE
m,p-Xylene	Target	0.41	J	ug/L	0.41	J	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
unknown-01	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TH9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS3	pH:	Sample Date: 06/23/2015	Sample Time: 09:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Bromomethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Acetone	Target	9.4	J	ug/kg	9.4	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methylene chloride	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
2-Butanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chloroform	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Cyclohexane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Benzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Trichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Toluene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
2-Hexanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
o-xylene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Styrene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Bromoform	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TJ0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW12	pH:	Sample Date: 06/23/2015	Sample Time: 12:35:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.48	J	ug/L	0.48	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.32	J	ug/L	0.32	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.86		ug/L	0.86		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.7		ug/L	5.7		1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.23	J	ug/L	0.23	J	1.0	Yes	S3VE
o-Xylene	Target	0.14	J	ug/L	0.14	J	1.0	Yes	S3VE
m,p-Xylene	Target	0.32	J	ug/L	0.32	J	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Diaziridine,3,3-dimethyl-	TIC	0.56	J	ug/L	0.56	J	1.0	Yes	NV
Total Alkanes	TIC	3.2		ug/L	3.2		1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TJ2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW9	pH:	Sample Date: 06/23/2015	Sample Time: 05:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.21	J	ug/L	0.21	J	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.39	J	ug/L	0.39	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.36	J	ug/L	0.36	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.84		ug/L	0.84		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	180		ug/L	180	D	20.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.21	J	ug/L	0.21	J	1.0	Yes	S3VE
o-Xylene	Target	0.17	J	ug/L	0.17	J	1.0	Yes	S3VE
m,p-Xylene	Target	0.4	J	ug/L	0.4	J	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
2-Butenal, (E)-	TIC	2.1	J	ug/L	2.1	J	1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TJ3	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS5	pH:	Sample Date: 06/23/2015	Sample Time: 04:50:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Chloromethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Vinyl chloride	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Bromomethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Chloroethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	4	UJ	ug/kg	4	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Acetone	Target	5.8	J	ug/kg	5.8	J	1.0	Yes	S3VE
Carbon disulfide	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Methyl Acetate	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Methylene chloride	Target	3.3	J	ug/kg	3.3	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
2-Butanone	Target	8.1	U	ug/kg	8.1	U	1.0	Yes	S3VE
Bromochloromethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Chloroform	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Cyclohexane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Benzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Trichloroethene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Methylcyclohexane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Bromodichloromethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	8.1	U	ug/kg	8.1	U	1.0	Yes	S3VE
Toluene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Tetrachloroethene	Target	1200		ug/kg	1200		1.0	Yes	S3VE
2-Hexanone	Target	8.1	U	ug/kg	8.1	U	1.0	Yes	S3VE
Dibromochloromethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Chlorobenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Ethylbenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
o-xylene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
m,p-Xylene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Styrene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Bromoform	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	4	U	ug/kg	4	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TJ4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW10	pH:	Sample Date: 06/23/2015	Sample Time: 03:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.58	UJ	ug/L	0.58		1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.25	J	ug/L	0.25	J	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.43	J	ug/L	0.43	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.45	J	ug/L	0.45	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	1.1		ug/L	1.1		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.22	J	ug/L	0.22	J	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.3	J	ug/L	0.3	J	1.0	Yes	S3VE
o-Xylene	Target	0.27	J	ug/L	0.27	J	1.0	Yes	S3VE
m,p-Xylene	Target	0.61		ug/L	0.61		1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorohenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclopropene	TIC	3.8	J	ug/L	3.8	J	1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene, 1,2,4-trimethyl-	TIC	0.72	J	ug/L	0.72	J	1.0	Yes	NV
3-Butenoic acid	TIC	5.1	J	ug/L	5.1	J	1.0	Yes	NV
Aziridine, 2,2-dimethyl-	TIC	0.7	J	ug/L	0.7	J	1.0	Yes	NV
3-Buten-1-ol	TIC	0.77	J	ug/L	0.77	J	1.0	Yes	NV
Benzene, 1,3,5-trimethyl-	TIC	0.75	J	ug/L	0.75	J	1.0	Yes	NV
Formamide, N-methylthio	TIC	0.99	J	ug/L	0.99	J	1.0	Yes	NV
Total Alkanes	TIC	0.59		ug/L	0.59		1.0	Yes	NV
unknown-01	TIC	0.7	J	ug/L	0.7	J	1.0	Yes	NV
Hexanal	TIC	1	J	ug/L	1	J	1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TJ5	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS6	pH:	Sample Date: 06/23/2015	Sample Time: 02:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Vinyl chloride	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Bromomethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Acetone	Target	8.3	U	ug/kg	8.3	U	1.0	Yes	S3VE
Carbon disulfide	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Methyl Acetate	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Methylene chloride	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
2-Butanone	Target	8.3	U	ug/kg	8.3	U	1.0	Yes	S3VE
Bromochloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chloroform	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Cyclohexane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Benzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Trichloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Methylcyclohexane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Bromodichloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	8.3	U	ug/kg	8.3	U	1.0	Yes	S3VE
Toluene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Tetrachloroethene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
2-Hexanone	Target	8.3	U	ug/kg	8.3	U	1.0	Yes	S3VE
Dibromochloromethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Chlorobenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Ethylbenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
o-xylene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
m,p-Xylene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Styrene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Bromoform	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	4.2	U	ug/kg	4.2	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TJ6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW11	pH:	Sample Date: 06/23/2015	Sample Time: 03:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.37	J	ug/L	0.37	J	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.52		ug/L	0.52		1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.54		ug/L	0.54		1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	1.3		ug/L	1.3		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.19	J	ug/L	0.19	J	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.33	J	ug/L	0.33	J	1.0	Yes	S3VE
o-Xylene	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VE
m,p-Xylene	Target	0.7		ug/L	0.7		1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butenal, (E)-	TIC	5.2	J	ug/L	5.2	J	1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bis(3-methylbutyl) fluorene-2,7-di	TIC	2.5	J	ug/L	2.5	J	1.0	Yes	NV
Allene	TIC	0.61	J	ug/L	0.61	J	1.0	Yes	NV
Benzene, 1,2,3-trimethyl-	TIC	0.63	J	ug/L	0.63	J	1.0	Yes	NV
unknown-01	TIC	0.65	J	ug/L	0.65	J	1.0	Yes	NV
Heptanal	TIC	0.56	J	ug/L	0.56	J	1.0	Yes	NV
Perdeuterobenzene	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Total Alkanes	TIC	1.25		ug/L	1.25		1.0	Yes	NV
Propane, 1-chloro-2-methyl-	TIC	1.2	J	ug/L	1.2	J	1.0	Yes	NV
Benzene, 1,3,5-trimethyl-	TIC	0.57	J	ug/L	0.57	J	1.0	Yes	NV
Hexanal	TIC	0.98	J	ug/L	0.98	J	1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TJ7	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS7	pH:	Sample Date: 06/23/2015	Sample Time: 02:30:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Chloromethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Vinyl chloride	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Bromomethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Chloroethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Acetone	Target	600	U	ug/kg	600	U	1.0	Yes	S3VE
Carbon disulfide	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Methyl Acetate	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Methylene chloride	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
2-Butanone	Target	600	U	ug/kg	600	U	1.0	Yes	S3VE
Bromochloromethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Chloroform	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Cyclohexane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Benzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Trichloroethene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Methylcyclohexane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Bromodichloromethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	600	U	ug/kg	600	U	1.0	Yes	S3VE
Toluene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Tetrachloroethene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
2-Hexanone	Target	600	U	ug/kg	600	U	1.0	Yes	S3VE
Dibromochloromethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Chlorobenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Ethylbenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
o-xylene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
m,p-Xylene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Styrene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Bromoform	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Isopropylbenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	300	U	ug/kg	300	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TK0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW15	pH:	Sample Date: 06/23/2015	Sample Time: 08:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: E2TK1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW16	pH:	Sample Date: 06/23/2015	Sample Time: 08:05:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK05	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	UJ	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC	7.3		ug/kg	7.3		1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK06	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK08	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylhenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dihromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK08	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK09	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK12	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK13	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK14	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK17	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VBLK19	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Chloromethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Vinyl chloride	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Bromomethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Chloroethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Acetone	Target	500	U	ug/kg	500	U	1.0	Yes	S3VE
Carbon disulfide	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Methyl Acetate	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Methylene chloride	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
2-Butanone	Target	500	U	ug/kg	500	U	1.0	Yes	S3VE
Bromochloromethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Chloroform	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Cyclohexane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Benzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Trichloroethene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Methylcyclohexane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Bromodichloromethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/kg	500	U	1.0	Yes	S3VE
Toluene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Tetrachloroethene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
2-Hexanone	Target	500	U	ug/kg	500	U	1.0	Yes	S3VE
Dibromochloromethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Chlorobenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Ethylbenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
o-xylene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
m,p-Xylene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Styrene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Bromoform	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Isopropylbenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/kg	250	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	UJ	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TG4	Lab Code: CHEM
Sample Number: VHBLK02	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Data Validation Report

Tentatively Identified Compounds

Tue, 14 Jul 2015 19:23:36

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics | Sample = E2TH3 | Location = SS8 | Matrix = Soil | Level = LOW

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
083710-34-3	Pyridine-4-aldehyde, N-ethoxycarbo	6.96	6	ug/kg	J
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = E2TH9** **Location = SS3** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = E2TJ3** **Location = SS5** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = E2TJ5** **Location = SS6** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Tue, 14 Jul 2015 19:23:36

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = E2TJ7** **Location = SS7** **Matrix = Soil** **Level = MED**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = VBLK05** **Location = null** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99	7.3	ug/kg	

Data Validation Report

Tentatively Identified Compounds

Tue, 14 Jul 2015 19:23:36

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = VBLK06** **Location = null** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = VBLK08** **Location = null** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics Sample = VBLK19 Location = null Matrix = Soil Level = MED

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	**SDG: E2TG4**	**Contract: EPW14030**	**Submission Group Id: 30062086**
Lab Name: Chemtech Consulting Group	**Case: 45411**	**Client: EPA Region 5**	**SOW: SOM02.2**

Volatile Organics **Sample = VHBLK02** **Location = null** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles | Sample = E2TG4 | Location = MW1 | Matrix = Water | Level = Trace

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TG5** **Location = MW2** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TG6** **Location = MW3** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TG7** **Location = MW4** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
unknown-01	unknown-01	9.25	2.9	ug/L	J
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Tue, 14 Jul 2015 19:23:36

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TG8** **Location = GW4** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	**SDG: E2TG4**	**Contract: EPW14030**	**Submission Group Id: 30062086**
Lab Name: Chemtech Consulting Group	**Case: 45411**	**Client: EPA Region 5**	**SOW: SOM02.2**

Trace Volatiles **Sample = E2TG9** **Location = GW5** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
unknown-01	unknown-01	9.25	3	ug/L	J
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles | Sample = E2TH0 | Location = GW2 | Matrix = Water | Level = Trace

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles | Sample = E2TH1 | Location = GW1 | Matrix = Water | Level = Trace

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TH8** **Location = GW7** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
unknown-01	unknown-01	1.34	2.1	ug/L	J
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Tue, 14 Jul 2015 19:23:36

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TJ0** **Location = GW12** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
004901-76-2	Diaziridine,3,3-dimethyl-	2.11	0.56	ug/L	J
E966796	Total Alkanes	99	3.2	ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TJ2** **Location = GW9** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
000123-73-9	2-Butenal, (E)-	1.34	2.1	ug/L	J
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TJ4** **Location = GW10** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
002781-85-3	Cyclopropene	1.34	3.8	ug/L	J
000625-38-7	3-Butenoic acid	1.34	5.1	ug/L	J
000066-25-1	Hexanal	10.52	1	ug/L	J
000095-63-6	Benzene, 1,2,4-trimethyl-	13.02	0.72	ug/L	J
000108-67-8	Benzene, 1,3,5-trimethyl-	13.02	0.75	ug/L	J
000627-27-0	3-Buten-1-ol	2.37	0.77	ug/L	J
unknown-01	unknown-01	3.5	0.7	ug/L	J
002658-24-4	Aziridine, 2,2-dimethyl-	3.5	0.7	ug/L	J
018952-41-5	Formamide, N-methylthio	5.62	0.99	ug/L	J
E966796	Total Alkanes	99	0.59	ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TJ6** **Location = GW11** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
253664-95-8	Bis(3-methylbutyl) fluorene-2,7-di	1.34	2.5	ug/L	J
000123-73-9	2-Butenal, (E)-	1.39	5.2	ug/L	J
000463-49-0	Allene	1.5	0.61	ug/L	J
000513-36-0	Propane, 1-chioro-2-methyl-	1.57	1.2	ug/L	J
000066-25-1	Hexanal	10.51	0.98	ug/L	J
000111-71-7	Heptanal	12	0.56	ug/L	J
000108-67-8	Benzene, 1,3,5-trimethyl-	13.02	0.57	ug/L	J
000526-73-8	Benzene, 1,2,3-trimethyl-	13.03	0.63	ug/L	J
unknown-01	unknown-01	3.49	0.65	ug/L	J
001076-43-3	Perdeuterobenzene	7.45	1.2	ug/L	J
E966796	Total Alkanes	99	1.25	ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TK0** **Location = GW15** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TK1** **Location = GW16** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = VBLK08** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = VBLK09** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = VBLK12** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = VBLK13** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	**SDG: E2TG4**	**Contract: EPW14030**	**Submission Group Id: 30062086**
Lab Name: Chemtech Consulting Group	**Case: 45411**	**Client: EPA Region 5**	**SOW: SOM02.2**

Trace Volatiles **Sample = VBLK14** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPWI4030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles | Sample = VBLK17 | Location = null | Matrix = Water | Level = Trace

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TG4	Contract: EPW14030	Submission Group Id: 30062086
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = VHBLK01** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 16 July 2015

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User:_____

We have reviewed the data for the following case:

SITE NAME: Bean Blossom / Patricksburg Water Co. (IN)

CASE NUMBER: 45411 SDG NUMBER: E2TG4

Number and Type of Samples: 20 (15-Water / 5-Soil) samples

Sample Numbers: E2TG4-G9/H0-H1/H3; H8-H9/J0; J2-J7

E2TK0-K1

Laboratory: ChemTech Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

JUL 16 2015

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW14030

Lab Code: CHEM Cas No.: 45411 MA No. : SDG No.: E2TG4

OW No. : SOM02.2

PA Sample No.	Lab Sample ID	Analysis Method: Trace VOA	Low Med VOA	SVOA	SVOA SIM	PEST	ARO
E2TG4	G2759-01	X					
E2TG5	G2759-02	X					
E2TG6	G2759-03	X					
E2TG7	G2759-04	X					
E2TG7MS	G2759-05	X					
E2TG7MSD	G2759-06	X					
E2TG8	G2759-07	X					
E2TG9	G2759-08	X					
E2TH0	G2759-09	X					
E2TH8	G2759-10	X					
E2TH9	G2759-11		X				
E2TJ0	G2759-12	X					
E2TK0	G2759-13	X					
E2TH1	G2759-14	X					
E2TH3	G2759-15		X				
E2TH3MS	G2759-16		X				
E2TH3MSD	G2759-17		X				
E2TJ2	G2759-18	X					
E2TJ3	G2759-19		X				
E2TJ4	G2759-20	X					
E2TJ5	G2759-21		X				
E2TJ6	G2759-22	X					
E2TJ7	G2759-23		X				
E2TK1	G2759-24	X					
VHBLK01	G2759-25	X					
VHBLK02	G2759-26		X				

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative.Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee,as verified by the following signature.

Signature: Mildred V Reyes Name: Mildred V Reyes

Date: 7/14/15 Title: QA/QC Supervisor/DOC

SDG #: E2TG4

USEPA CLP COC (LAB COPY)
DateShipped: 6/23/2015
CarrierName: FedEx
AirbillNo: 801788265936

CHAIN OF CUSTODY RECORD

Case #: 45411
Cooler #: 1

No: 5-062315-141456-0001
Lab: Chemtech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
GW-0001	E2TG4	Water/ Mark Jaworski	Grab	TVOA(21)	129225 (HCl) (3)	MW1	06/23/2015 09:55	
GW-0002	E2TG5	Water/ Mark Jaworski	Grab	TVOA(21)	129226 (HCl) (3)	MW2	06/23/2015 09:35	
GW-0003	E2TG6	Water/ Mark Jaworski	Grab	TVOA(21)	129227 (HCl) (3)	MW3	06/23/2015 09:15	
GW-0004	E2TG7	Water/ Mark Jaworski	Grab	TVOA(21)	129228 (HCl), 129229 (HCl), 129230 (HCl) (9)	MW4	06/23/2015 10:30	
GW-0005	E2TG8	Water/ Mark Jaworski	Grab	TVOA(21)	129231 (HCl) (3)	GW4	06/23/2015 11:45	
GW-0006	E2TG9	Water/ Mark Jaworski	Grab	TVOA(21)	129232 (HCl) (3)	GW5	06/23/2015 11:47	
GW-0007	E2TH0	Water/	Grab	TVOA(21)	129233 (HCl) (3)	GW2	06/23/2015 12:34	
GW-0008	E2TH8	Ground Water/ Mark Jaworski	Grab	TVOA(21)	129234 (HCl) (3)	GW7	06/23/2015 11:00	
SS-0002	E2TH9	Soil/ Nick Cooper	Grab	PER_SOL(21), VOA(21)	129241 (None), 129242 (None) (4)	SS3	06/23/2015 09:45	
GW-0009	E2TJ0	Ground Water/ Mark Jaworski	Grab	TVOA(21)	129243 (HCl) (3)	GW12	06/23/2015 12:35	
GW-0010	E2TKo	Ground Water/ Nick Cooper	Grab	TVOA(21)	129244 (HCl) (3)	GW15	06/23/2015 08:00	

Sample(s) to be used for Lab QC: GW-0004 Tag 129229, GW-0004 Tag 129230 - Special Instructions: Please return cooler to IDEM.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #
43946, 43947

Analysis Key: TVOA=CLP Trace Volatiles, PER_SOL=Percent Solids (% Solids), VOA=Soil VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matthew J. Cooper - IDEM	6/24/15/930	George Negron		

4°C

2

USEPA CLP COC (LAB COPY)
DateShipped: 6/23/2015
CarrierName: FedEx
AirbillNo: 801788265947

CHAIN OF CUSTODY RECORD

Case #: 45411
Cooler #: 2

No: 5-062315-172709-0002
Lab: Chemtech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
GW-0011	E2TH1	Ground Water/ Nick Cooper	Grab	TVOA(21)	129245 (HCl) (3)	GW1	06/23/2015 02:05	
SS-0001	E2TH3	Soil/ Nick Cooper	Grab	PER_SOL(21), VOA(21)	129235 (None), 129236 (None), 129237 (None), 129238 (None), 129239 (None), 129240 (None) (12)	SS8	06/23/2015 11:45	
GW-0015	E2TJ2	Water/ Mark Jaworski	Grab	TVOA(21)	186338 (HCl) (3)	GW9	06/23/2015 05:00	
SS-0005	E2TJ3	Soil/ Mark Jaworski	Grab	PER_SOL(21), VOA(21)	186339, 186340 (4)	SS5	06/23/2015 04:50	
GW-0012	E2TJ4	Ground Water/ Mark Jaworski	Grab	TVOA(21)	129246 (HCl) (3)	GW10	06/23/2015 03:00	
SS-0003	E2TJ5	Soil/ Mark Jaworski	Grab	PER_SOL(21), VOA(21)	129248 (None), 129249 (None) (4)	SS6	06/23/2015 02:30	
GW-0013	E2TJ6	Ground Water/ Mark Jaworski	Grab	TVOA(21)	129247 (HCl) (3)	GW11	06/23/2015 03:00	
SS-0004	E2TJ7	Soil/ Mark Jaworski	Grab	PER_SOL(21), VOA(21)	129250 (None), 186336 (None) (4)	SS7	06/23/2015 02:30	
GW-0014	E2TK1	Ground Water/ Nick Cooper	Grab	TVOA(21)	186337 (HCl) (3)	GW16	06/23/2015 08:05	

Sample(s) to be used for Lab QC: SS-0001 Tag 129236, SS-0001 Tag 129237, SS-0001 Tag 129239, SS-0001 Tag 129240 -
Special Instructions: Please return cooler to IDEM

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #
43948, 43949

Analysis Key: TVOA=CLP Trace Volatiles, PER_SOL=Percent Solids (% Solids), VOA=Soil VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Michelle L. Cooper IDEM		George Negron	6-24-15 930	4°C

CHEMTECH

SDG NARRATIVE

LAB NAME: CHEMTECH CONSULTING GROUP
CASE# 45411
SDG# E2TG4
CONTRACT# EPW14030
LAB CODE: CHEM
CHEMTECH PROJECT # G2759
MODIFICATION REF. NUMBER: N/A

Sample ID	EPA Sample ID	pH
G2759-01	E2TG4	<2
G2759-02	E2TG5	<2
G2759-03	E2TG6	<2
G2759-04	E2TG7	<2
G2759-05	E2TG7MS	<2
G2759-06	E2TG7MSD	<2
G2759-07	E2TG8	<2
G2759-07DL	E2TG8DL	
G2759-08	E2TG9	<2
G2759-08DL	E2TG9DL	
G2759-09	E2TH0	<2
G2759-10	E2TH8	>2
G2759-10RE	E2TH8RE	>2
G2759-11	E2TH9	<2
G2759-12	E2TJ0	>2
G2759-13	E2TK0	<2
G2759-14	E2TH1	<2
G2759-15	E2TH3	<2
G2759-15	E2TH3	<2
G2759-16	E2TH3MS	<2
G2759-17	E2TH3MSD	<2
G2759-18	E2TJ2	>2
G2759-18DL	E2TJ2DL	
G2759-19	E2TJ3	<2
G2759-19ME	E2TJ3ME	
G2759-20	E2TJ4	>2
G2759-20RE	E2TJ4RE	

CHEMTECH

Sample ID	EPA Sample ID	pH
G2759-21	E2TJ5	<2
G2759-22	E2TJ6	>2
G2759-22RE	E2TJ6RE	>2
G2759-23	E2TJ7	<2
G2759-24	E2TK1	<2

17 water samples were delivered to the laboratory intact on 06/24/2015.
7 soil samples were delivered to the laboratory intact on 06/24/2015.

Test requested on the Chain of Custody was Volatile Organic by Method SOM02.2.

Samples for Volatile Organic analyses were transferred unopened to the Volatile Laboratory.

The temperature of the samples was measured using an I R Gun. The samples temperature was 4 degrees Celsius.

Shipping Discrepancies and/or QC issues:

Issue 1: The laboratory received TVOA water samples which contain sediment at the bottom of the vials. The laboratory is unable to analyze these samples as is on the instrument. The laboratory would like to combine two vials into one 40mL vial by using an air tight syringe to transfer the sample. This will affect samples E2TH8, E2TJ0, E2TJ2, E2TJ4, and E2TJ6.

Resolution 1: Per Region 5, it is acceptable for the laboratory to combine two vials for the analysis. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: The sample ID from location GW15 is listed on the COC as 'E2TKo'. Please confirm if this should be sample ID 'E2TK0'.

Resolution 2: Per Region 5, the correct sample ID is E2TK0. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 3 - ISSUE: We are sending this email with reference to Case (45411) & SDG (E2TG4). Undiluted analysis of sample (E2TJ7) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis. In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD.

Resolution 3 -Phone conversation between Region 5 (Alida Roberman) and SMO (Eloise Danganan) on 7/2 @ 10:45. Region 5 requests the lab report all results and detailed information about the issue in the SDG Narrative.

Issue 4: Several VOA samples from SDG E2TG4 have a pH >2.

Resolution 4: Per Region 5, the laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

Trace Volatiles:

The analysis performed on instrument MSVOA_I using GC column RXI-624, which is 30 meters, 0.25 mm id. The Trap was supplied by OI Analytical, OI #10 Trap, OI Eclipse 4660 Concentrator.
VOC-Low Level -15 was based on method SOM02.2_VOC.
Surrogate recoveries met the acceptable criteria except for the followings:

E2TH8 [2-Butanone-d5-149%, Chloroform-d-131 %,1,2-Dichloroethane-d4-143 %,1,1,2,2-Tetrachloroethane-d2-129 %].
E2TJ0 [1,2-Dichloroethane-d4 -136 %, 1,2-Dichlorobenzene-d4-132%].
E2TJ6 [1,1-Dichloroethene-d2 -54 %, Chloroform-d-131 %,1,2-Dichloroethane-d4-143 %,1,1,2,2-Tetrachloroethane-d2-128 %, 1,2-Dichlorobenzene-d4-126 %].
E2TJ2DL [Benzene-d6-67 %].
E2TG9DL [1, 2-Dichloroethane-d4-131 %].
E2TH8RE [2-Butanone-d5-135 %].
As per method, up to 3 surrogates Up to 3 DMCs, therefore no corrective action was needed for above mention samples except the sample # E2TH8, E2TJ6 which is reanalyzed to confirm the data..
Holding Times were met.
Instrument Performance Check met requirements.
Retention Times met requirements.
The Internal Standards Areas met requirements.
The MS (E2TG7MS) met requirements.
The MSD (E2TG7MSD) met requirements.
The RPD met requirements except for Trichloroethene.
The initial Calibration met the requirements.
The Continuing Calibration met the requirements except VSTD00522 (Data File VI045217.D) for Chloromethane (--36.2 %).
The Continuing Calibration met the requirements except VSTD00527 (Data File VI045275.D) for Chloromethane (-30.4 %).
The Continuing Calibration met the requirements except VSTD00528 (Data File VI045290.D) for Chloromethane (-36.5 %).
The Continuing Calibration met the requirements except VSTD00536 (Data File VI045324.D) for 1,1-Dichloroethane (-23.1 %).
The Continuing Calibration met the requirements except VSTD00539 (Data File VI045353.D) for Methylcyclohexane (26.3 %).
The Continuing Calibration met the requirements except VSTD00540 (Data File VI045371.D) for Bromochloromethane (31.9 %, 1, 2-Dichloroethane-d4- 27.4%).
As per method, the %D of 2 compounds can be within 40%. Therefore no correction needed.
The Blank analysis did not indicate the presence of lab contamination

The Storage Blank did not indicate the presence of lab contamination
Sample E2TG8, E2TG9, E2TJ2 were diluted due to high concentrations.
The sample # E2TG8 and sample # E2TG9 had concentration above calibration levels for Tetrachloroethene compound and sample # E2TH0 was analyzed following the analysis of both samples and both samples reanalyzed diluted, the sample # E2TH0 had concentration of this compound is below CRQL, respectively therefore, No instrument blank was needed.
Sample E2TJ4 was analyzed follow the analysis of E2TJ2 respectively and the sample # E2TJ2 is with concentration above calibration levels for Tetrachloroethene.
Sample E2TJ4 may have a carryover of Tetrachloroethene (from E2TJ2), therefore the sample # E2TJ4 was reanalyzed to confirm the data and no instrument blank was needed.
The sample # E2TH8, E2TH8RE, E2TJ0, E2TJ2, E2TJ4, E2TJ6, E2TJ6RE have PH > 2, this issue is notified to the EPA during the analysis.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

Calculation:

$$\text{Concentration in ug/L} = \frac{(Ax)\,(Is)\,(DF)}{(Ais)\,(\overline{RRF})\,(Vo)}$$

Where,
Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.

$\overline{RRF}$ = Mean Relative Response Factor from the initial calibration standard.
Vo = Total volume of water purged, in mL.
DF = Dilution Factor.

Low Volatiles:

The analyses for Low Volatile Organics Water sample was performed on instrument MSVOA_T using GC column RXI-624SIL MS 30m 0.25mm 1.4um 872456. The Trap was supplied by OI Analytical, OI #10 Trap, OI Eclipse 4660 Concentrator.

The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat# 121-1324UI. The Trap was supplied by OI Analytical, OI #10 Trap, OI Eclipse 4660 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method SOM01.2_VOC.

Surrogate recoveries met the acceptable criteria except for the followings:
E2TH3MS [1,1-Dichloroethene-d2-116 %.]

CHEMTECH

E2TJ3 [1,2-Dichlorobenzene-d4 -146%] .
As per method, up to 3 surrogates Up to 3 DMCs, per sample may fail to meet the recovery limits. Therefore no corrective action was needed for above mention samples .

Holding Times were met.
The MS {E2TH3MS } recoveries met the requirements for all compounds.
The MSD { E2TH3 MSD} recoveries met the acceptable requirements for all compounds .
The RPD for {E2TH3MSD } recoveries met criteria.
Retention Times met requirements.
Internal Standard Areas met requirement. .
The Initial Calibration met the requirements.
The Continuing Calibration met the requirements except VSTD02513 (Data File VT010641.D) for Trichlorofluoromethane (39.3%).
As per method, the %D of 2 compounds can be within 40%. Therefore no correction needed.
The Blank analysis did not indicated presence to possible lab contamination.
The storage blank analysis did not indicated presence to possible lab contamination.
The sample #E2TJ3 was diluted due to high concentration of target compounds.
The sample # E2TJ3 was diluted for Tetrachloroethene and the closing calibration VSTD02514 (VT010657.D) was analyzed after this sample which is passing for this compound therefore no instrument blank was needed.
The sample # E2TJ7 was analyzed as low level first analysis. Due to bad matrix of sample # E2TJ7 it did not purge. Therefore laboratory had analyzed vial B and it also did not purge. Now laboratory only had vial C and it analyzed as medium level analysis.

Calculation:

Low/Med Level Soil/Sediment Calculation

$$\text{(Concentration in ug/Kg dry Weight basis)} = \frac{(A_x)(I_s)(Df)}{(Ais)(RRF)(Ws)(D)}$$

Where,
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.
Df = Dilution factor
Ws= Weight of sample

$$D = \frac{100 - \%\text{moisture}}{100}$$

See **Manual Integration report** for the manual integration information at the end of the case narrative.

CHEMTECH

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date: 7/14/15 Title: Document Control Officer

CHEMTECH

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
G2759-07	E2TG8	VI045212.D	VI062715	2-Hexanone-d5	mohammad	6/28/2015 10:28:56 AM	Incorrect baseline
G2759-06MSD	E2TG7MSD	VI045209.D	VI062715	2-Hexanone-d5	mohammad	6/28/2015 10:28:44 AM	Incorrect baseline
G2759-01	E2TG4	VI045206.D	VI062715	2-Hexanone-d5	mohammad	6/28/2015 10:28:39 AM	Incorrect baseline
G2759-14	E2TH1	VI045216.D	VI062715	2-Hexanone-d5	mohammad	6/28/2015 10:29:13 AM	Peak Integrated by Software incorrectly
G2759-03	E2TG6	VI045211.D	VI062715	2-Hexanone-d5	mohammad	6/28/2015 10:28:49 AM	Peak Integrated by Software incorrectly
G2759-09	E2TH0	VI045214.D	VI062715	2-Hexanone-d5	mohammad	6/28/2015 10:29:01 AM	Incorrect baseline

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
G2759-18DL	E2TJ2DL	VI045287.D	VI062915	2-Hexanone-d5	sam	6/30/2015 10:58:30 AM	Peak Integrated by Software incorrectly
G2759-22	E2TJ6	VI045286.D	VI062915	2-Hexanone-d5	sam	6/30/2015 10:58:25 AM	Peak Integrated by Software incorrectly
G2759-22	E2TJ6	VI045286.D	VI062915	Methylcyclohexane	sam	6/30/2015 10:58:25 AM	Peak Integrated by Software incorrectly
G2759-20	E2TJ4	VI045285.D	VI062915	2-Hexanone-d5	sam	6/30/2015 10:58:19 AM	Peak Integrated by Software incorrectly

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
G2805-13MS	G9340MS	VI045327.D	vi063015	1,1-Dichloroethene	mohammad	7/1/2015 11:23:54 AM	Peak Integrated by Software incorrectly

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
VI0701WBL02	VBLK17	VI045354.D	VI070115	2-Hexanone-d5	sam	7/2/2015 12:25:26 PM	Peak Integrated by Software incorrectly
VI0701WBL02	VBLK17	VI045354.D	VI070115	Chloroethane-d5	sam	7/2/2015 12:25:26 PM	Peak Integrated by Software incorrectly
VI0701WBL01	VBLK16	VI045341.D	VI070115	1,1-Dichloroethene-d2	sam	7/2/2015 12:25:56 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VI062515	Instrument	MSVOA_i

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC005/ VSTD00516	VI045147.D	4-Methyl-2-pentanone	MMDadoda	6/26/2015 4:44:08 PM	TEJASKUMAR	6/26/2015 6:38:51 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00516	VI045147.D	Bromodichloromethane	MMDadoda	6/26/2015 4:44:08 PM	TEJASKUMAR	6/26/2015 6:38:51 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00516	VI045147.D	cis-1,3-Dichloropropene	MMDadoda	6/26/2015 4:44:08 PM	TEJASKUMAR	6/26/2015 6:38:51 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00516	VI045147.D	Dibromochloromethane	MMDadoda	6/26/2015 4:44:08 PM	TEJASKUMAR	6/26/2015 6:38:51 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00516	VI045147.D	trans-1,3-Dichloropropene	MMDadoda	6/26/2015 4:44:08 PM	TEJASKUMAR	6/26/2015 6:38:51 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00516	VI045147.D	trans-1,3-Dichloropropene-d4	MMDadoda	6/26/2015 4:44:08 PM	TEJASKUMAR	6/26/2015 6:38:51 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VI062715	Instrument	MSVOA_i

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC005/ VSTD00521	VI045204.D	Chloromethane	sam	6/28/2015 10:26:37 AM	mohammad	6/28/2015 10:28:34 AM	Incorrect baseline
VSTDCCC005/ VSTD00521	VI045204.D	Dichlorodifluoromethane	sam	6/28/2015 10:26:37 AM	mohammad	6/28/2015 10:28:34 AM	Incorrect baseline
VSTDCCC005/ VSTD00521	VI045204.D	Methylene chloride	sam	6/28/2015 10:26:37 AM	mohammad	6/28/2015 10:28:34 AM	Incorrect baseline
G2759-01/ E2TG4	VI045206.D	2-Hexanone-d5	sam	6/28/2015 10:26:45 AM	mohammad	6/28/2015 10:28:39 AM	Incorrect baseline
G2759-06MSD/ E2TG7MSD	VI045209.D	2-Hexanone-d5	sam	6/28/2015 10:26:50 AM	mohammad	6/28/2015 10:28:44 AM	Incorrect baseline
G2768-07/ D9928	VI045226.D	2-Hexanone-d5	sam	6/28/2015 10:27:32 AM	mo	18	Incorrect baseline
VSTDCCC005/ VSTD00522	VI045217.D	Chloromethane	sam	6/28/2015 10:27:20 AM	mohammad	6/28/2015 10:29:05 AM	Incorrect baseline
VSTDCCC005/ VSTD00522	VI045217.D	Methylene chloride	sam	6/28/2015 10:27:20 AM	mohammad	6/28/2015 10:29:05 AM	Incorrect baseline
G2759-14/ E2TH1	VI045216.D	2-Hexanone-d5	sam	6/28/2015 10:27:15 AM	mohammad	6/28/2015 10:29:13 AM	Peak Integrated by Software incorrectly
G2759-09/ E2TH0	VI045214.D	2-Hexanone-d5	sam	6/28/2015 10:27:10 AM	mohammad	6/28/2015 10:29:01 AM	Incorrect baseline
G2759-07/ E2TG8	VI045212.D	2-Hexanone-d5	sam	6/28/2015 10:27:05 AM	mohammad	6/28/2015 10:28:56 AM	Incorrect baseline
G2759-03/ E2TG6	VI045211.D	2-Hexanone-d5	sam	6/28/2015 10:26:55 AM	mohammad	6/28/2015 10:28:49 AM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VI062915	Instrument	MSVOA_i

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
G2805-05/ G9333	VI045304.D	Chlorobenzene-d5	Feifei	6/30/2015 10:15:35 AM	sam	6/30/2015 10:58:56 AM	Peak Integrated by Software incorrectly
G2805-01/ G9329	VI045300.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:33 AM	sam	6/30/2015 10:58:50 AM	Peak Integrated by Software incorrectly
G2804-02DL/ G9311DL	VI045296.D	2-Hexanone-d5	Feifei	6/30/2015 10 AM		2015 10:59:29	Peak Integrated by Software incorrectly
G2768-18DL/ D98X1DL	VI045295.D	2-Hexanone-d5	Feifei	6/30/2015 10 AM		2015 10:59:22 AM	Peak Integrated by Software incorrectly
G2768-18DL/ D98X1DL	VI045295.D	Chlorobenzene-d5	Feifei	6/30/2015 10:15:28 AM	sam	6/30/2015 10:59:22 AM	Peak Integrated by Software incorrectly
G2768-03DL/ D9912DL	VI045294.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:26 AM	sam	6/30/2015 10:58:43 AM	Peak Integrated by Software incorrectly
G2768-03DL/ D9912DL	VI045294.D	Chlorobenzene-d5	Feifei	6/30/2015 10:15:26 AM	sam	6/30/2015 10:58:43 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00528	VI045290.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:05 AM	sam	6/30/2015 10:58:38 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00528	VI045290.D	Chloromethane	Feifei	6/30/2015 10:15:05 AM	sam	6/30/2015 10:58:38 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00528	VI045290.D	Vinyl Chloride-d3	Feifei	6/30/2015 10:15:05 AM	sam	6/30/2015 10:58:38 AM	Peak Integrated by Software incorrectly
G2759-18DL/ E2TJ2DL	VI045287.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:24 AM	sam	6/30/2015 10:58:30 AM	Peak Integrated by Software incorrectly
G2759-22/ E2TJ6	VI045286.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:22 AM	sam	6/30/2015 10:58:25 AM	Peak Integrated by Software incorrectly
G2759-22/ E2TJ6	VI045286.D	Methylcyclohexane	Feifei	6/30/2015 10:15:22 AM	sam	6/30/2015 10:58:25 AM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VI062915	Instrument	MSVOA_i

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
G2759-20/ E2TJ4	VI045285.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:20 AM	sam	6/30/2015 10:58:19 AM	Peak Integrated by Software incorrectly
G2804-03/ G9312	VI045279.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:18 AM	sam	6/30/2015 10:58:12 AM	Peak Integrated by Software incorrectly
G2804-03/ G9312	VI045279.D	Chlorobenzene-d5	Feifei	6/30/2015 10:15:18 AM	sam	6/3[illegible] AM	[illegible]rated by Software incorrectly
G2804-09RE/ G9316RE	VI045278.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:16 AM	sam	6/3[illegible] AM	[illegible]rated by Software incorrectly
G2804-09RE/ G9316RE	VI045278.D	Chlorobenzene-d5	Feifei	6/30/2015 10:15:16 AM	sam	6/30/2015 10:59:16 AM	Peak Integrated by Software incorrectly
G2804-06RE/ G9313RE	VI045277.D	2-Hexanone-d5	Feifei	6/30/2015 10:15:14 AM	sam	6/30/2015 10:59:10 AM	Peak Integrated by Software incorrectly
G2804-06RE/ G9313RE	VI045277.D	Chlorobenzene-d5	Feifei	6/30/2015 10:15:14 AM	sam	6/30/2015 10:59:10 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00527	VI045275.D	2-Hexanone-d5	Feifei	6/30/2015 10:14:59 AM	sam	6/30/2015 10:57:49 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00527	VI045275.D	Chloromethane	Feifei	6/30/2015 10:14:59 AM	sam	6/30/2015 10:57:49 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00527	VI045275.D	Methylene chloride	Feifei	6/30/2015 10:14:59 AM	sam	6/30/2015 10:57:49 AM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	vi063015	Instrument	MSVOA_i

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTD0.530/ VSTD0.530	VI045311.D	trans-1,3-Dichloropropene-d4	Feifei	7/1/2015 11:01:22 AM	mohammad	7/1/2015 11:21:40 AM	Peak Integrated by Software incorrectly
VSTD0.530/ VSTD0.530	VI045311.D	Vinyl chloride	Feifei	7/1/2015 11:01:22 AM	mohammad	7/1/2015 11:21:40 AM	Peak Integrated by Software incorrectly
VSTD00135/ VSTD00135	VI045317.D	2-Hexanone	Feifei	7/1/2015 11:01:23 AM	mohammad	7/1/2015 11:21:43 AM	Peak Integrated by Software incorrectly
VSTD00135/ VSTD00135	VI045317.D	Bromoform	Feifei	7/1/2015 11:01:23 AM	mohammad	7/1/2015 11:21:43 AM	Peak Integrated by Software incorrectly
VSTD00135/ VSTD00135	VI045317.D	Chloroethane	Feifei	7/1/2015 11:01:23 AM	mohammad	7/1/2015 11:21:43 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00536	VI045324.D	1,1-Dichloroethane	Feifei	7/1/2015 11:01:26 AM	mohammad	7/1/2015 11:21:49 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00536	VI045324.D	1,1-Dichloroethene	Feifei	7/1/2015 11:01:26 AM	mohammad	7/1/2015 11:21:49 AM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00536	VI045324.D	Chloroform-d	Feifei	7/1/2015 11:01:26 AM	mohammad	7/1/2015 11:21:49 AM	Peak Integrated by Software incorrectly
G2805-13MS/ G9340MS	VI045327.D	1,1-Dichloroethene	sam	7/1/2015 11:22:21 AM	mohammad	[illegible]	Peak Integrated by Software incorrectly
G2805-21/ G9347	VI045329.D	Chloroethane-d5	Feifei	7/1/2015 11:01:28 AM	mohammad	[illegible] AM	Integrated by Software incorrectly
G2805-17/ G9343	VI045332.D	2-Hexanone-d5	Feifei	7/1/2015 11:01:30 AM	mohammad	7/1/2015 11:21:57 AM	Peak Integrated by Software incorrectly
G2806-02/ D98R6	VI045337.D	2-Hexanone-d5	Feifei	7/1/2015 11:01:32 AM	mohammad	7/1/2015 11:21:59 AM	Peak Integrated by Software incorrectly

Ray Heather, I

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VI070115	Instrument	MSVOA_i

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC005/ VSTD00538	VI045340.D	1,1-Dichloroethene-d2	Feifei	7/2/2015 11:18:05 AM	sam	7/2/2015 12:26:03 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00538	VI045340.D	Chloroethane	Feifei	7/2/2015 11:18:05 AM	sam	7/2/2015 12:26:03 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00538	VI045340.D	Chloromethane	Feifei	7/2/2015 11:18:05 AM	sam	7/2/2015 12:26:03 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00538	VI045340.D	Vinyl Chloride-d3	Feifei	7/2/2015 11:18:05 AM	sam	7/2/2015 12:26:03 PM	Peak Integrated by Software incorrectly
VI0701WBL01/ VBLK16	VI045341.D	1,1-Dichloroethene-d2	Feifei	7/2/2015 11:18:07 AM	sam	7/2/2015 12:25:56 PM	Peak Integrated by Software incorrectly
G2806-04/ D98R8	VI045343.D	2-Hexanone-d5	Feifei	7/2/2015 11:18:09 AM	sam	7/2/2015 12:25:50 PM	Peak Integrated by Software incorrectly
G2806-09/ D98S7	VI045348.D	2-Hexanone-d5	Feifei	7/2/2015 11:18:10 AM	sam	7/2/2015 12:25:42 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00539	VI045353.D	2-Hexanone-d5	Feifei	7/2/2015 11:18:12 AM	sam	7/2/2015 12:25:34 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00539	VI045353.D	Chloromethane	Feifei	7/2/2015 11:18:12 AM	sam	7/2/2015 12:25:34 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00539	VI045353.D	Methylene chloride	Feifei	7/2/2015 11:18:12 AM	sam	7/2/2015 12:25:34 PM	Peak Integrated by Software incorrectly
VSTDCCC005/ VSTD00539	VI045353.D	Tetrachloroethene	Feifei	7/2/2015 11:18:12 AM	sam	7/2/2015 12:25:34 PM	Peak Integrated by Software incorrectly
VI0701WBL02/ VBLK17	VI045354.D	2-Hexanone-d5	Feifei	7/2/2015 11:18:14 AM	sam	7/2/2015 12:25:26 PM	Peak Integrated by Software incorrectly
VI0701WBL02/ VBLK17	VI045354.D	Chloroethane-d5	Feifei	7/2/2015 11:18:14 AM	sam	7/2/2015 12:25:26 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VI070115	Instrument	MSVOA_i

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC005E C/ VSTD00540	VI045371.D	Methyl Acetate	Feifei	7/2/2015 11:18:18 AM	sam	7/2/2015 12:25:19 PM	Peak Integrated by Software incorrectly

CHEMTECH

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
G2759-19ME	E2TJ3ME	VU002049.D	VU063015	2-Butanone-d5	mohammad	7/1/2015 11:39:21 AM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT061615	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC025E C/ VSTD02506	VT010609.D	Carbon disulfide	Feifei	6/17/2015 10:43:53 AM	MMDadoda	6/17/2015 12:15:41 PM	Peak Integrated by Software incorrectly
VSTDCCC025E C/ VSTD02506	VT010609.D	Methylene chloride	Feifei	6/17/2015 10:43:53 AM	MMDadoda	6/17/2015 12:15:41 PM	Peak Integrated by Software incorrectly
VSTDCCC025E C/ VSTD02506	VT010609.D	Trichlorofluoromethane	Feifei	6/17/2015 10:43:53 AM	MMDadoda	6/17/2015 12:15:41 PM	Peak Integrated by Software incorrectly
G2661-09/ VHBLK01	VT010608.D	Methylene chloride	Feifei	6/17/2015 10:43:51 AM	MMDadoda	6/17/2015 12:15:36 PM	I Roy Matthew, I correctly
G2661-08/ D98Q8	VT010607.D	Methylene chloride	Feifei	6/17/2015 10:43:49 AM	MMDadoda	6/17/2015 12:15:32 PM	I correctly
G2661-07/ D98Q7	VT010606.D	Methylene chloride	Feifei	6/17/2015 10:43:48 AM	MMDadoda	6/17/2015 12:15:28 PM	Peak Integrated by Software incorrectly
G2661-03/ D98Q4	VT010603.D	Trichlorofluoromethane	Feifei	6/17/2015 10:43:47 AM	MMDadoda	6/17/2015 12:15:21 PM	Peak Integrated by Software incorrectly
G2610-06/ X1W52	VT010601.D	Carbon disulfide	Feifei	6/17/2015 10:43:45 AM	MMDadoda	6/17/2015 12:15:16 PM	Peak Integrated by Software incorrectly
G2610-06/ X1W52	VT010601.D	Methylene chloride	Feifei	6/17/2015 10:43:45 AM	MMDadoda	6/17/2015 12:15:16 PM	Peak Integrated by Software incorrectly
VSTD10005/ VSTD10005	VT010599.D	Carbon disulfide	Feifei	6/17/2015 10:43:43 AM	MMDadoda	6/17/2015 12:15:12 PM	Peak Integrated by Software incorrectly
VSTD10005/ VSTD10005	VT010599.D	Methylene chloride	Feifei	6/17/2015 10:43:43 AM	MMDadoda	6/17/2015 12:15:12 PM	Peak Integrated by Software incorrectly
VSTD10005/ VSTD10005	VT010599.D	Trichlorofluoromethane	Feifei	6/17/2015 10:43:43 AM	MMDadoda	6/17/2015 12:15:12 PM	Peak Integrated by Software incorrectly
VSTD05004/ VSTD05004	VT010598.D	Carbon disulfide	Feifei	6/17/2015 10:31:08 AM	MMDadoda	6/17/2015 12:15:06 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT061615	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTD05004/ VSTD05004	VT010598.D	Methylene chloride	Feifei	6/17/2015 10:31:08 AM	MMDadoda	6/17/2015 12:15:06 PM	Peak Integrated by Software incorrectly
VSTD05004/ VSTD05004	VT010598.D	Trichlorofluoromethane	Feifei	6/17/2015 10:31:08 AM	MMDadoda	6/17/2015 12:15:06 PM	Peak Integrated by Software incorrectly
VSTD02503/ VSTD02503	VT010597.D	Carbon disulfide	Feifei	6/17/2015 10:31:06 AM	MMDadoda	6/17/2015 12:15:01 PM	Peak Integrated by Software incorrectly
VSTD02503/ VSTD02503	VT010597.D	Methylene chloride	Feifei	6/17/2015 10:31:06 AM	MMDadoda	6/17/2015 12:15:01 PM	Peak Integrated by Software incorrectly
VSTD00502/ VSTD00502	VT010596.D	Carbon disulfide	Feifei	6/17/2015 10:31:04 AM	MMDadoda	6/17/2015 12:14:56 PM	Peak Integrated by Software incorrectly
VSTD00502/ VSTD00502	VT010596.D	Methylene chloride	Feifei	6/17/2015 10:31:04 AM	MMDadoda	6/17/2015 12:14:56 PM	Peak Integrated by Software incorrectly
VSTD2.501/ VSTD2.501	VT010595.D	Carbon disulfide	Feifei	6/17/2015 10:31:01 AM	MMDadoda	6/17/2015 12:14:52 PM	Peak Integrated by Software incorrectly
VSTD2.501/ VSTD2.501	VT010595.D	Methylene chloride	Feifei	6/17/2015 10:31:01 AM	MMDadoda	6/17/2015 12:14:52 PM	Peak Integrated by Software incorrectly
VSTD2.501/ VSTD2.501	VT010595.D	Trichlorofluoromethane	Feifei	6/17/2015 10:31:01 AM	MMDadoda	6/17/2015 12:14:52 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT062615	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC025/ VSTD02513	VT010641.D	Carbon disulfide	sam	6/27/2015 11:03:25 AM	mohammad	6/27/2015 11:41:46 AM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02513	VT010641.D	Methylene chloride	sam	6/27/2015 11:03:25 AM	mohammad	6/27/2015 11:41:46 AM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02513	VT010641.D	Trichlorofluoromethane	sam	6/27/2015 11:03:25 AM	mohammad	6/27/2015 11:41:46 AM	Peak Integrated by Software incorrectly
G2759-16MS/ E2TH3MS	VT010654.D	Methylene chloride	sam	6/27/2015 11:03:30 AM	mohammad	6/27/2015 11:41:51 AM	Peak Integrated by Software incorrectly
G2759-17MSD/ E2TH3MSD	VT010655.D	Methylene chloride	sam	6/27/2015 11:03:35 AM	mohammad	6/27/2015 11:41:56 AM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02514	VT010657.D	Carbon disulfide	sam	6/27/2015 11:03:40 AM	mohammad	6/27/2015 11:42:01 AM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02514	VT010657.D	Methylene chloride	sam	6/27/2015 11:03:40 AM	mohammad	6/27/2015 11:42:01 AM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT062715	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC025/ VSTD02515	VT010659.D	Carbon disulfide	Feifei	6/29/2015 10:29:51 AM	MMDadoda	6/29/2015 6:39:15 PM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02515	VT010659.D	Methylene chloride	Feifei	6/29/2015 10:29:51 AM	MMDadoda	6/29/2015 6:39:15 PM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02515	VT010659.D	Trichlorofluoromethane	Feifei	6/29/2015 10:29:51 AM	MMDadoda	6/29/2015 6:39:15 PM	Peak Integrated by Software incorrectly
G2784-04/ E2TH7	VT010661.D	Methylene chloride	Feifei	6/29/2015 10:29:53 AM	MMDadoda	Reyfhatha,	t baseline
G2784-05/ E2TJ1	VT010662.D	Methylene chloride	Feifei	6/29/2015 10:29:55 AM	MMDadoda	PM	t baseline
G2784-07/ E2TJ9	VT010663.D	Methylene chloride	Feifei	6/29/2015 10:29:57 AM	MMDadoda	6/29/2015 6:39:30 PM	Incorrect baseline
VSTDCCC025EC/ VSTD02516	VT010673.D	Methylene chloride	Feifei	6/29/2015 10:29:59 AM	MMDadoda	6/29/2015 6:39:37 PM	Incorrect baseline

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT070115	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC025/ VSTD02519	VT010681.D	Trichlorofluoromethane	Feifei	7/2/2015 11:13:28 AM	MMDadoda	7/2/2015 1:51:38 PM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02520	VT010684.D	Carbon disulfide	Feifei	7/2/2015 11:13:33 AM	MMDadoda	7/2/2015 1:51:42 PM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02520	VT010684.D	Methylene chloride	Feifei	7/2/2015 11:13:33 AM	MMDadoda	7/2/2015 1:51:42 PM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02520	VT010684.D	Trichlorofluoromethane	Feifei	7/2/2015 11:13:33 AM	MMDadoda	7/2/2015 1:51:42 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VU063015	Instrument	MSVOA_u

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
G2759-19ME/ E2TJ3ME	VU002049.D	2-Butanone-d5	Feifei	7/1/2015 11:05:10 AM	mohammad	7/1/2015 11:39:21 AM	Peak Integrated by Software incorrectly

mildred V. Reyes

From: Himanshu Prajapati <Himanshu@chemtech.net>
Sent: Tuesday, July 07, 2015 3:05 PM
To: Appleby, Charlie
Cc: Divya Mehta; Mildred Reyes; Mohammad Ahmed
Subject: Multiple Regions | Multiple Cases | Multiple SDGs | EPW 14030 | Trace Volatile and Low-Med Volatile |

Importance: High

Good afternoon Charlie,

We are sending this email with reference to EDD Defect EXES-306 (Defect Message: Percent Difference values are outside the limits and corrective action is not performed) for Trace Volatile and Low-Medium Volatile fraction. We came across few SDGs for which we have received this defect in CCS report.

According to SOW SOM01.2, Exhibit D, LOW-MED VOA, Page # 29, Section 9.4.5.4 laboratory was allowed to fail % D requirement & minimum RRF requirement for up to two target compounds and/or DMCs. In SOW SOM01.2, compounds with minimum RRF requirement of 0.01 were allowed to fail % D criteria (max up to 40%).

According to SOW SOM02.2, Exhibit D, LOW-MED VOA, Page # 28, Section 9.4.5.4 laboratory is allowed to fail up to two target compounds and /or DMCs for minimum RRF requirement only (excluding those compounds which has minimum RRF criteria of 0.01).

Laboratory analyst has misunderstood the requirement of SOW SOM02.2. Therefor we have this failure for CCV.

By the time we have realized that we were not following the correct requirement, some SDGs were processed with CCV which has a failure for one or two compounds and/or DMCs for %D which has a minimum RRF requirement 0.01. The affected SDGs are BCGC4, BC6S1, BC6Y3, BC704, BCGC3, E2TD4, F9P08, H0UN0, C0HQ7, H0FA2, C0G16, E2TG4, D98R4, C0G22, C0G76, C0G25, C0GB3, C0DW3, G9310, G9329, D98R5, D98T7, D98Z8, C0HR7.

We are sending this email as a request to not to penalize laboratory for this Defect EXES-306 (Defect Message: Percent Difference values are outside the limits and corrective action is not performed).

Please advise.

Regards,

Himanshu Prajapati
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

CHEMTECH
284 Sheffield Street,
Mountainside, New Jersey 07092
Phone (908) 789-8900
Fax (908) 789-8922



nelac

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025

DoDELAP

Chemtech is an equal opportunity employer

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention and use of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

mildred V. Reyes

From: Whitlee Dean <wdean9@csc.com>
Sent: Thursday, June 25, 2015 2:55 PM
To: Corey@chemtech.net
Cc: roberman.alida@epa.gov; thomas.carlene@epa.gov; pham.howard@epa.gov; prendiville.timothy@epa.gov; layne.warren@epa.gov; mjaworsk@idem.IN.gov
Subject: Region 05 | Case 45411 | Lab CHM | Issue Air bubbles, headspace, and/or sediment in VOA vials | FINAL

Flag Status: Flagged

UPDATED RECORD OF COMMUNICATION

This Record of Communication was updated to correct one of the sample IDs reported in the issue.

Corey,

Issue: The laboratory received TVOA water samples which contain sediment at the bottom of the vials. The laboratory is unable to analyze these samples as is on the instrument. The laboratory would like to combine two vials into one 40mL vial by using an air tight syringe to transfer the sample. This will affect samples E2TH8, E2TJ0, E2TJ2, E2TJ4, and E2TJ6.
Resolution: Per Region 5, it is acceptable for the laboratory to combine two vials for the analysis. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Corey J. Petitt" ---06/24/2015 05:01:35 PM---Good Afternoon Whitlee,

From: "Corey J. Petitt" <Corey@chemtech.net>
To: Whitlee Dean/USA/CSC@CSC
Date: 06/24/2015 05:01 PM
Subject: RE: Region 05 | Case 45411 | Lab CHM | Issue Air bubbles, headspace, and/or sediment in VOA vials | FINAL

Good Afternoon Whitlee,

Please note, I made a typo. Problem samples should read: E2TH8, **E2TJ0**, E2TJ4, & E2TJ6. Thanks.

Regards,

Corey J. Petitt
Project Manager
CHEMTECH
284 Sheffield St, Mountainside, NJ 07092
Direct Phone: (908) 728 3148

From: Whitlee Dean [mailto:wdean9@csc.com]
Sent: Wednesday, June 24, 2015 4:19 PM
To: Corey@chemtech.net
Cc: mjaworsk@idem.IN.gov; roberman.alida@epa.gov; thomas.carlene@epa.gov; pham.howard@epa.gov; prendiville.timothy@epa.gov; layne.warren@epa.gov
Subject: Region 05 | Case 45411 | Lab CHM | Issue Air bubbles, headspace, and/or sediment in VOA vials | FINAL

Good afternoon Corey,

Issue: The laboratory received TVOA water samples which contain sediment at the bottom of the vials. The laboratory is unable to analyze these samples as is on the instrument. The laboratory would like to combine two vials into one 40mL vial by using an air tight syringe to transfer the sample. This will affect samples E2TH8, E2TG0, E2TJ2, E2TJ4, and E2TJ6.
Resolution: Per Region 5, it is acceptable for the laboratory to combine two vials to the analysis. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Roberman, Alida" ---06/24/2015 04:12:59 PM---Hello Whitlee, The proposed resolution is acceptable. Thanks.

From: "Roberman, Alida" <Roberman.Alida@epa.gov>
To: Whitlee Dean/USA/CSC@CSC, "Layne, Warren" <layne.warren@epa.gov>
Cc: "Thomas, Carlene" <thomas.carlene@epa.gov>, "Prendiville, Timothy" <prendiville.timothy@epa.gov>
Date: 06/24/2015 04:12 PM
Subject: Re: Region 05 | Case 45411 | Lab CHM | Issue Air bubbles, headspace, and/or sediment in VOA vials

---

Hello Whitlee,
The proposed resolution is acceptable. Thanks.

From: Whitlee Dean <wdean9@csc.com>
Sent: Wednesday, June 24, 2015 1:37 PM
To: Layne, Warren
Cc: Roberman, Alida; Thomas, Carlene; Prendiville, Timothy
Subject: Region 05 | Case 45411 | Lab CHM | Issue Air bubbles, headspace, and/or sediment in VOA vials

Hi Warren!

Please advise if the proposed resolution is acceptable.

Issue: The laboratory received TVOA water samples which contain sediment at the bottom of the vials. The laboratory is unable to analyze these samples as is on the instrument. The laboratory would like to combine two vials into one 40mL vial by using an air tight syringe to transfer the sample. This will affect samples E2TH8, E2TG0, E2TJ2, E2TJ4, and E2TJ6.
PROPOSED Resolution: Per Region 5, it is acceptable for the laboratory to combine two vials to the analysis. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.
*** **6/24/2015 2:27pm.** Phone conversation between Mark Jaworski (IDEM) and Whitlee Dean (CSC). Case 45411. I provided Mark with the resolution reported by CHM. He advised that it was acceptable to combine samples so that the analysis could be completed.
"Corey J. Petitt" ---06/24/2015 01:42:26 PM---Hi Whitlee,

From: "Corey J. Petitt" <Corey@chemtech.net>
To: Whitlee Dean/USA/CSC@CSC
Date: 06/24/2015 01:42 PM
Subject: Region 05 | Case 45411 | Lab CHM | Analysis Issue | FINAL

Hi Whitlee,

Issue: The laboratory received Case 45411 samples for trace analysis. Several samples have sediment at the bottom of vials and vials cannot be analyzed as is on the instrument. Lab would like to get permission to combine 2 vials in to 1 40ml vial by using air tight syringe for transferring the sample. Please confirm.

Problem samples: E2TH8, E2TG0, E2TJ2, E2TJ4, E2TJ6

Regards,

Corey J. Petitt
Project Manager
CHEMTECH
284 Sheffield St, Mountainside, NJ 07092
Direct Phone: (908) 728 3148

Chemtech is an equal opportunity employer
Notice: The information transmitted in this e-mail message and in any attachments is intended. Solely for the attention and use of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

mildred V. Reyes

From: Whitlee Dean <wdean9@csc.com>
Sent: Monday, June 29, 2015 10:41 AM
To: Corey@chemtech.net
Cc: roberman.alida@epa.gov; thomas.carlene@epa.gov; pham.howard@epa.gov; prendiville.timothy@epa.gov; layne.warren@epa.gov; ncooper1@idem.in.gov; mjaworsk@idem.IN.gov
Subject: Region 05 | Case 45411 | Lab CHM | Issue Incorrect/duplicated sample IDs | FINAL

Good morning Corey,

Issue: The sample ID from location GW15 is listed on the COC as 'E2TKo'. Please confirm if this should be sample ID 'E2TK0'.
Resolution: Per Region 5, the correct sample ID is E2TK0. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Roberman, Alida" ---06/29/2015 10:07:01 AM---Good morning Whitlee, The proposed resolution is acceptable. Note the issue in the SDG Narrative and

From: "Roberman, Alida" <Roberman.Alida@epa.gov>
To: Whitlee Dean/USA/CSC@CSC
Cc: "Thomas, Carlene" <thomas.carlene@epa.gov>, "Prendiville, Timothy" <prendiville.timothy@epa.gov>, "Layne, Warren" <layne.warren@epa.gov>
Date: 06/29/2015 10:07 AM
Subject: RE: Region 05 | Case 45411 | Lab CHM | Issue Incorrect/duplicated sample IDs

---

Good morning Whitlee,

The proposed resolution is acceptable. Note the issue in the SDG Narrative and proceed with the analysis of the samples. Thanks.

From: Whitlee Dean [mailto:wdean9@csc.com]
Sent: Monday, June 29, 2015 8:47 AM
To: Layne, Warren; Roberman, Alida
Cc: Thomas, Carlene; Prendiville, Timothy

Subject: RE: Region 05 | Case 45411 | Lab CHM | Issue Incorrect/duplicated sample IDs

Good morning,

Please advise if the proposed resolution is acceptable.

Issue: The sample ID from location GW15 is listed on the COC as 'E2TKo'. Please confirm if this should be sample ID 'E2TK0'.
PROPOSED Resolution: Per Region 5, the correct sample ID is E2TK0. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Cooper, Nicholas" ---06/29/2015 07:09:51 AM---Whitlee, Yes, that is a typo. The sample ID is E2TK0.

From: "Cooper, Nicholas" <NCooper1@idem.IN.gov>
To: Whitlee Dean/USA/CSC@CSC
Cc: "JAWORSKI, MARK" <MJAWORSK@idem.IN.gov>
Date: 06/29/2015 07:09 AM
Subject: RE: Region 05 | Case 45411 | Lab CHM | Issue Incorrect/duplicated sample IDs

---

Whitlee,

Yes, that is a typo. The sample ID is E2TK0.

Thank you,

Nick Cooper
Environmental Manager
Indiana Department of Environmental Management
Office of Land Quality
100 N. Senate Ave., IGCN 1101
Indianapolis, Indiana 46204-2251
Phone: 317-234-3505
NCooper1@idem.in.gov

From: Whitlee Dean [mailto:wdean9@csc.com]
Sent: Friday, June 26, 2015 12:51 PM
To: Cooper, Nicholas
Cc: JAWORSKI, MARK
Subject: Region 05 | Case 45411 | Lab CHM | Issue Incorrect/duplicated sample IDs

Good afternoon Nick/Mark,

While reviewing the COC for this Case, we noticed the following discrepancy.

Issue: The sample ID from location GW15 is listed on the COC as 'E2TKo'. Could you please confirm if this should be sample ID 'E2TK0'?

Thanks!

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

mildred V. Reyes

From: Eloise B Danganan <edanganan@csc.com>
Sent: Thursday, July 02, 2015 11:21 AM
To: himanshu@chemtech.net; divya@chemtech.net; epa@chemtech.net; corey@chemtech.net; mohammad@chemtech.net; TEJASKUMAR@CHEMTECH.NET
Cc: wesolowski.dennis@epa.gov; pham.howard@epa.gov; layne.warren@epa.gov; roberman.alida@epa.gov; prendiville.timothy@epa.gov
Subject: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT

Good morning Himanshu,

Regarding the lab's reported issue below involving SDG E2TG4/Case 45444, Region 5 requests the lab report all three analyses and provide detailed information about this issue in the SDG Narrative.

ISSUE: We are sending this email with reference to Case (45411) & SDG (E2TG4). Undiluted analysis of sample (E2TJ4) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis. In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD.

Phone conversation between Region 5 (Alida Roberman) and SMO (Eloise Danganan) on 7/2 @ 10:45. Region 5 requests the lab report all results and detailed information about the issue in the SDG Narrative.

***Please note that in order to waive/remove defects associated to this issue, please contact your PO with a detailed waiver request.

Thank you,

ELOISE DANGANAN
Prof. Environmental Analyst, CSC
6361 Walker Lane, Alexandria, VA 22310-3280 | (p) 703-461-2019 | (f) 703-922-6826 | edanganan@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Eloise B Danganan/USA/CSC on 07/02/2015 11:17 AM -----

From: Eloise B Danganan/USA/CSC
To: roberman.alida@epa.gov
Date: 07/02/2015 08:24 AM
Subject: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT

Hi Alida,

Would you be able to advise on the lab's inquiry below please? I received Warren's out of office notification today and it indicates he will not return until Tuesday.

Thank you,

ELOISE DANGANAN

Prof. Environmental Analyst, CSC
6361 Walker Lane, Alexandria, VA 22310-3280 | (p) 703-461-2019 | (f) 703-922-6826 | edanganan@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Eloise B Danganan/USA/CSC on 07/02/2015 08:22 AM -----

From: Eloise B Danganan/USA/CSC
To: wesolowski.dennis@epa.gov, pham.howard@epa.gov, layne.warren@epa.gov, roberman.alida@epa.gov, prendiville.timothy@epa.gov
Date: 07/02/2015 08:14 AM
Subject: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT

Good morning Region 5,

CHEM is reporting the following issue involving SDG E2TG4/Case 45444, please advise.

ISSUE: We are sending this email with reference to Case (45411) & SDG (E2TG4). Undiluted analysis of sample (E2TJ4) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis. In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD. Please advise.

Thank you,

ELOISE DANGANAN
Prof. Environmental Analyst, CSC
6361 Walker Lane, Alexandria, VA 22310-3280 | (p) 703-461-2019 | (f) 703-922-6826 | edanganan@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Eloise B Danganan/USA/CSC on 07/02/2015 08:12 AM -----
From: "Himanshu Prajapati" <Himanshu@chemtech.net>
To: Whitlee Dean/USA/CSC@CSC, DASSsupport@CSC
Cc: <Corey@chemtech.net>, "Mohammad Ahmed" <mohammad@chemtech.net>
Date: 07/01/2015 12:31 PM
Subject: REGION 5 | CASE 45444 | SDG E2TG4 | EPW 14030 | FRACTION LOW-MED VOLATILE | CHEMTECH ORDER ID G2759 |

Good afternoon Whitlee,

We are sending this email with reference to Case (45411) & SDG (E2TG4).

Undiluted analysis of sample (E2TJ4) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis.

In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD.

Please advise.

Regards,

Himanshu Prajapati
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

CHEMTECH
264 Sheffield Street,
Mountainside, New Jersey 07092
Phone: (908) 789 8900
Fax: (908) 789 8922



nelac
LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
DoD ELAP

Chemtech is an equal opportunity employer

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention and use of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

mildred V. Reyes

From: Eloise B Danganan <edanganan@csc.com>
Sent: Thursday, July 02, 2015 1:30 PM
To: himanshu@chemtech.net; divya@chemtech.net; epa@chemtech.net; corey@chemtech.net; mohammad@chemtech.net; TEJASKUMAR@CHEMTECH.NET
Cc: wesolowski.dennis@epa.gov; pham.howard@epa.gov; layne.warren@epa.gov; roberman.alida@epa.gov; prendiville.timothy@epa.gov
Subject: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT | FINAL

The ROC below is updated to reflect the correct sample ID according to the Lab - correcting sample ID from E2TJ4 to E2TJ7.

ISSUE: We are sending this email with reference to Case (45411) & SDG (E2TG4). Undiluted analysis of sample (E2TJ7) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis. In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD.

Phone conversation between Region 5 (Alida Roberman) and SMO (Eloise Danganan) on 7/2 @ 10:45. Region 5 requests the lab report all results and detailed information about the issue in the SDG Narrative.

***Please note that in order to waive/remove defects associated to this issue, please contact your PO with a detailed waiver request.

Thank you,

ELOISE DANGANAN
Prof. Environmental Analyst, CSC
6361 Walker Lane, Alexandria, VA 22310-3280 | (p) 703-461-2019 | (f) 703-922-6826 | edanganan@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Eloise B Danganan/USA/CSC on 07/02/2015 01:13 PM -----

From: "Himanshu Prajapati" <Himanshu@chemtech.net>
To: Eloise B Danganan/USA/CSC@CSC
Cc: "Mohammad Ahmed" <mohammad@chemtech.net>, "Mildred Reyes" <mildred@chemtech.net>
Date: 07/02/2015 01:11 PM
Subject: RE: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT

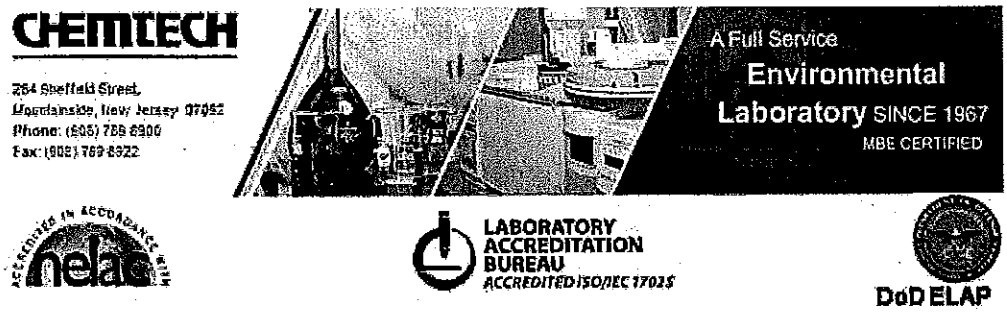
Hi Eloise,

Please make a correction for Sample ID for below email. The sample ID which is affected in below issue is E2TJ7. I have mentioned wrong sample ID as E2TJ4 in my email.

Please update ROC with sample ID E2TJ7.

Regards,

Himanshu Prajapati
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922



Chemtech is an equal opportunity employer

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention and use of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

From: Eloise B Danganan [mailto:edanganan@csc.com]
Sent: Thursday, July 02, 2015 11:21 AM
To: himanshu@chemtech.net; divya@chemtech.net; epa@chemtech.net; corey@chemtech.net; mohammad@chemtech.net; TEJASKUMAR@CHEMTECH.NET
Cc: wesolowski.dennis@epa.gov; pham.howard@epa.gov; layne.warren@epa.gov; roberman.alida@epa.gov; prendiville.timothy@epa.gov
Subject: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT

Good morning Himanshu,

Regarding the lab's reported issue below involving SDG E2TG4/Case 45444, Region 5 requests the lab report all three analyses and provide detailed information about this issue in the SDG Narrative.

ISSUE: We are sending this email with reference to Case (45411) & SDG (E2TG4). Undiluted analysis of sample (E2TJ4) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis. In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD.

Phone conversation between Region 5 (Alida Roberman) and SMO (Eloise Danganan) on 7/2 @ 10:45. Region 5 requests the lab report all results and detailed information about the issue in the SDG Narrative.

***Please note that in order to waive/remove defects associated to this issue, please contact your PO with a detailed waiver request.

Thank you,

ELOISE DANGANAN
Prof. Environmental Analyst, CSC
6361 Walker Lane, Alexandria, VA 22310-3280 | (p) 703-461-2019 | (f) 703-922-6826 | edanganan@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Eloise B Danganan/USA/CSC on 07/02/2015 11:17 AM -----

From: Eloise B Danganan/USA/CSC
To: roberman.alida@epa.gov
Date: 07/02/2015 08:24 AM
Subject: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT

Hi Alida,

Would you be able to advise on the lab's inquiry below please? I received Warren's out of office notification today and it indicates he will not return until Tuesday.

Thank you,

ELOISE DANGANAN
Prof. Environmental Analyst, CSC
6361 Walker Lane, Alexandria, VA 22310-3280 | (p) 703-461-2019 | (f) 703-922-6826 | edanganan@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Eloise B Danganan/USA/CSC on 07/02/2015 08:22 AM -----

From: Eloise B Danganan/USA/CSC
To: wesolowski.dennis@epa.gov, pham.howard@epa.gov, layne.warren@epa.gov, roberman.alida@epa.gov, prendiville.timothy@epa.gov
Date: 07/02/2015 08:14 AM
Subject: REGION 5 | CASE 45444 | LAB CHEM | SDG E2TG4 | CONTRACT EPW14030 | SOW SOM02.2 | ISSUE DASS SUPPORT

Good morning Region 5,

CHEM is reporting the following issue involving SDG E2TG4/Case 45444, please advise.

ISSUE: We are sending this email with reference to Case (45411) & SDG (E2TG4). Undiluted analysis of sample (E2TJ4) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis. In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD. Please advise.

Thank you,

ELOISE DANGANAN
Prof. Environmental Analyst, CSC
6361 Walker Lane, Alexandria, VA 22310-3280 | (p) 703-461-2019 | (f) 703-922-6826 | edanganan@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Eloise B Danganan/USA/CSC on 07/02/2015 08:12 AM -----
From: "Himanshu Prajapati" <Himanshu@chemtech.net>
To: Whitlee Dean/USA/CSC@CSC, DASSsupport@CSC

Cc: <Corey@chemtech.net>, "Mohammad Ahmed" <mohammad@chemtech.net>
Date: 07/01/2015 12:31 PM
Subject: REGION 5 | CASE 45444 | SDG E2TG4 | EPW 14030 | FRACTION LOW-MED VOLATILE | CHEMTECH ORDER ID G2759 |

Good afternoon Whitlee,

We are sending this email with reference to Case (45411) & SDG (E2TG4).

Undiluted analysis of sample (E2TJ4) was analyzed as low level first analysis. Due to bad matrix of sample it did not purge. Therefor laboratory analyst had analyzed vial B and it also did not purge. Now laboratory only has vial C and it will be analyzed as medium level analysis.

In this case, we would like to know whether laboratory has to report all three analysis (two low level and one medium level) or just medium level analysis in hard copy as well as in EDD.

Please advise.

Regards,

Himanshu Prajapati
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

CHEMTECH
264 Sheffield Street,
Mountainside, New Jersey 07052
Phone: (908) 789 8900
Fax: (908) 789 8922



ACCREDITED IN ACCORDANCE WITH nelac
LABORATORY ACCREDITATION BUREAU ACCREDITED ISO/IEC 17025
DoD ELAP

Chemtech is an equal opportunity employer

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention and use of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

mildred V. Reyes

From: Whitlee Dean <wdean9@csc.com>
Sent: Tuesday, July 07, 2015 2:59 PM
To: Himanshu@chemtech.net
Cc: Corey@chemtech.net; mohammad@chemtech.net; roberman.alida@epa.gov; thomas.carlene@epa.gov; pham.howard@epa.gov; prendiville.timothy@epa.gov; layne.warren@epa.gov
Subject: Region 05 | Case 45411 | Lab CHM | SDG E2TG4 | Issue pH outside allowable limits | FINAL

UPDATED RECORD OF COMMUNICATION

This updated ROC is being sent to include the type of analysis in the issue and update the resolution.

Himanshu,

Issue: Several VOA samples from SDG E2TG4 have a pH >2.
Resolution: Per Region 5, the laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

7/6/2015 3:41pm. Phone conversation between Warren Layne (Region 5) and Whitlee Dean (CSC). Case 45411. Warren inquired about why pH for soil VOA samples was being measured and how it was done. I advised that I would forward the question to the laboratory. He advised that the laboratory should note the issue in the SDG Narrative.
Whitlee Dean---07/06/2015 02:45:54 PM---Hi Warren, The laboratory is only scheduled with organic samples.

From: Whitlee Dean/USA/CSC
To: "Layne, Warren" <layne.warren@epa.gov>
Cc: "Prendiville, Timothy" <prendiville.timothy@epa.gov>, "Roberman, Alida" <Roberman.Alida@epa.gov>, "Thomas, Carlene" <thomas.carlene@epa.gov>
Date: 07/06/2015 02:45 PM
Subject: RE: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

---

Hi Warren,

The laboratory is only scheduled with organic samples.

Please let me know if you have any questions.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

"Layne, Warren" ---07/06/2015 02:42:23 PM---Whitlee, Are you certain these are VOAs? I have never heard of measuring the pH of VOAs, only inorga

From: "Layne, Warren" <layne.warren@epa.gov>
To: Whitlee Dean/USA/CSC@CSC
Cc: "Prendiville, Timothy" <prendiville.timothy@epa.gov>, "Roberman, Alida" <Roberman.Alida@epa.gov>, "Thomas, Carlene" <thomas.carlene@epa.gov>
Date: 07/06/2015 02:42 PM
Subject: RE: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

---

Whitlee, Are you certain these are VOAs? I have never heard of measuring the pH of VOAs, only inorganics.

From: Whitlee Dean [mailto:wdean9@csc.com]
Sent: Monday, July 06, 2015 10:04 AM
To: Layne, Warren
Cc: Prendiville, Timothy; Roberman, Alida; Thomas, Carlene
Subject: Re: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

Good morning,

I would like to follow up on the email below. Please advise if the resolution still applies. The laboratory advised that VOA samples were received with a pH >2.W

Please let me know if you have any questions.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: Whitlee Dean/USA/CSC
To: "Himanshu Prajapati" <Himanshu@chemtech.net>
Date: 07/02/2015 11:30 AM
Subject: RE: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits | FINAL

Hi Himanshu,

I forwarded the additional information to the Region yesterday, however I have not received a response yet.

Please let me know if you have any questions.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

From: "Himanshu Prajapati" <Himanshu@chemtech.net>
To: Whitlee Dean/USA/CSC@CSC
Date: 07/02/2015 11:29 AM
Subject: RE: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits | FINAL

Good morning Whitlee,

The samples which were in questions was for pH>2 Volatile analysis. We had sent this response yesterday but we did not received any response back from you.

Is there any update on this issue?

Regards,

Himanshu Prajapati
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

Whitlee Dean---07/01/2015 09:45:23 AM---Good morning Warren, The laboratory has provided additional information regarding the pH issue. The

From: Whitlee Dean/USA/CSC
To: Layne.warren@epa.gov
Cc: Roberman.alida@epa.gov, Thomas.carlene@epa.gov, prendiville.timothy@epa.gov
Date: 07/01/2015 09:45 AM
Subject: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

---

Good morning Warren,

The laboratory has provided additional information regarding the pH issue. The samples with a pH >2 are VOA samples. Please advise if the resolution still applies.

Thanks!

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

----- Forwarded by Whitlee Dean/USA/CSC on 07/01/2015 09:43 AM -----

From: Himanshu Prajapati <himanshu@chemtech.net>
To: Whitlee Dean/USA/CSC@CSC
Cc: Mohammad Ahmed <mohammad@chemtech.net>
Date: 07/01/2015 09:28 AM
Subject: Re: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits | FINAL

Good morning Whitlee,

The samples which are in question for pH>2 are for Volatile analysis.

Please advise.

Regards,

Himanshu Prajapati

Sent from my iPhone

On Jul 1, 2015, at 9:10 AM, Whitlee Dean <wdean9@csc.com> wrote:

> Good morning Himanshu,
>
> Issue: Several samples from SDG E2TG4 have a pH >2.
> Resolution: Per Region 5, the laboratory will add 6N nitric acid to the samples that are pH > 2 until they are pH< 2 and allow them to stand overnight prior to proceeding with the analysis. If the samples are pH> 7, the laboratory should exercise caution when acidifying the samples in case there is any effervescence. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.
>
> Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.

Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

<graycol.gif>"Layne, Warren" ---06/30/2015 05:32:42 PM---Whitlee, The resolution is not acceptable. Please have the laboratory add 6N nitric acid to the samp

From: "Layne, Warren" <layne.warren@epa.gov>
To: Whitlee Dean/USA/CSC@CSC
Cc: "Roberman, Alida" <Roberman.Alida@epa.gov>, "Thomas, Carlene" <thomas.carlene@epa.gov>, "Prendiville, Timothy" <prendiville.timothy@epa.gov>
Date: 06/30/2015 05:32 PM
Subject: RE: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

---

Whitlee,
The resolution is not acceptable. Please have the laboratory add 6N nitric acid to the samples that are >pH 2.0 until they are <pH 2.0 and allow them to stand overnight prior to proceeding with their analysis. If they are >pH 7.0 the lab should exercise caution when acidifying the sample(s) in case there is any effervescence. Thanks.

From: Whitlee Dean [mailto:wdean9@csc.com]
Sent: Tuesday, June 30, 2015 1:53 PM
To: Layne, Warren
Cc: Roberman, Alida; Thomas, Carlene; Prendiville, Timothy
Subject: RE: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

Good afternoon Warren,

Please advise if the proposed resolution is acceptable.

Issue: Several samples from SDG E2TG4 have a pH >2.
PROPOSED Resolution: Per Region 5, the laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please let me know if you have any questions.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

<graycol.gif>"Cooper, Nicholas" ---06/30/2015 02:49:19 PM---Whitlee, Please go ahead and analyze the sample anyway. Let me know if you have any further issues.

From: "Cooper, Nicholas" <NCooper1@idem.IN.gov>
To: Whitlee Dean/USA/CSC@CSC
Cc: "JAWORSKI, MARK" <MJAWORSK@idem.IN.gov>
Date: 06/30/2015 02:49 PM
Subject: RE: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

---

Whitlee,

Please go ahead and analyze the sample anyway. Let me know if you have any further issues.

Thanks,

Nick Cooper
Environmental Manager
Indiana Department of Environmental Management
Office of Land Quality
100 N. Senate Ave., IGCN 1101
Indianapolis, Indiana 46204-2251
Phone: 317-234-3505
NCooper1@idem.in.gov

From: Whitlee Dean [mailto:wdean9@csc.com]
Sent: Tuesday, June 30, 2015 2:30 PM
To: Cooper, Nicholas
Cc: JAWORSKI, MARK
Subject: Region 05 | Case 45411 | Lab CHEM | SDG E2TG4 | Issue pH outside allowable limits

Hi Nick,

The laboratory is reporting the following issue. Please advise how they should proceed.

Issue: Several samples from SDG E2TG4 have a pH >2.

Please let me know if you have any questions.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 3 and 5
CSC

6361 Walker Lane Alexandria, VA 22310
Civil Division | t: 703-461-2322 | wdean9@csc.com | www.csc.com

---

This is a PRIVATE message. If you are not the intended recipient, please delete without copying and kindly advise us by e-mail of the mistake in delivery. NOTE: Regardless of content, this e-mail shall not operate to bind CSC to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of e-mail for such purpose.

<graycol.gif>"Himanshu Prajapati" ---06/30/2015 02:03:55 PM---Good afternoon Whitlee,

From: "Himanshu Prajapati" <Himanshu@chemtech.net>
To: Whitlee Dean/USA/CSC@CSC, DASSsupport@CSC
Cc: <corey@chemtech.net>, "Mohammad Ahmed"@amer-mta111.csc.com
Date: 06/30/2015 02:03 PM
Subject: REGION 05 | CASE 45411 | SDG E2TG4 |Lab CHM | Issue Air bubbles, headspace, and/or sediment in VOA vials | FINAL

Good afternoon Whitlee,

We are sending this email with reference to Case (45411) & SDG (E2TG4).

Samples (E2TH8, E2TJ0, E2TJ2, E2TJ4, E2TJ6) from SDG (E2TG4) have pH >2. Please advise.

Regards,

Himanshu Prajapati
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

Chemtech is an equal opportunity employer

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention and use of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TG4
Analytical Method : Trace VOA Level : _____
Matrix : Water

EPA Sample No .	DMC1 (VCL)	DMC2 (CLA)	DMC3 (DCE)	DMC4 (BUT)	DMC5 (CLF)	DMC6 (DCA)	DMC7 (BEN)	DMC8 (DPA)
VBLK08	88	92	75	101	96	99	96	99
E2TG4	90	77	69	90	87	92	92	91
E2TG7	75	84	71	102	100	111	101	103
E2TG7MS	63	89	95	109	93	103	81	86
E2TG7MSD	70	94	94	93	105	111	90	96
E2TG5	84	92	71	97	108	108	93	103
E2TG6	80	88	71	98	97	104	91	93
E2TG8	81	91	74	94	109	115	100	100
E2TG9	77	93	68	95	107	110	102	108
E2TH0	79	89	68	99	98	103	90	91
E2TK0	88	91	74	98	105	109	89	91
E2TH1	70	81	65	97	96	98	95	97
VBLK09	94	91	74	104	106	115	89	100
E2TK1	74	84	67	114	98	109	88	85
VBLK12	78	84	64	119	103	115	104	113
E2TH8	97	96	79	149 *✓	131 *✓	143 *✓	100	109
E2TJ0	103	107	88	111	122	136 *✓	107	110
E2TJ2	93	98	82	87	109	120	82	86
E2TJ4	87	92	76	113	98	112	78	85
E2TJ6	102	115	54 *✓	125	131 *✓	143 *✓	85	88
E2TJ2DL	67	69	60	78	87	99	67 D*✓	67
VBLK13	103	94	75	95	104	116	83	85
E2TG8DL	88	96	77	83	106	117	99	104
E2TG9DL	114	103	92	101	119	131 D	89	89
VBLK14	84	90	72	114	91	100	95	95
E2TJ4RE	95	95	71	130	94	118	99	105
E2TJ6RE	86	87	72	109	92	99	106	111
E2TH8RE	89	94	72	135 *✓	96	114	101	100
VBLK17	69	67	66	96	85	97	88	90
VHBLK01	82	79	80	122	100	118	103	109

ACH 8-14-2015

	QC LIMITS
DMC1 (VCL) = Vinyl Chloride-d3	(40-130)
DMC2 (CLA) = Chloroethane-d5	(65-130)
DMC3 (DCE) = 1,1-Dichloroethene-d2	(60-125)
DMC4 (BUT) = 2-Butanone-d5	(40-130)
DMC5 (CLF) = Chloroform-d	(70-125)
DMC6 (DCA) = 1,2-Dichloroethane-d4	(70-130)
DMC7 (BEN) = Benzene-d6	(70-125)
DMC8 (DPA) = 1,2-Dichloropropane-d6	(60-140)

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TG4
Analytical Method : Trace VOA Level : _____
Matrix : Water

EPA Sample No .	DMC9 (TOL)	DMC10 (TDP)	DMC11 (HEX)	DMC12 (TCA)	DMC13 (DCZ)	DMC14	DMC15	DMC16	TOT OUT
VBLK08	96	91	82	77	90				0
E2TG4	93	87	91	81	85				0
E2TG7	106	92	112	99	95				0
E2TG7MS	91	80	92	102	99				0
E2TG7MSD	96	89	92	91	96				0
E2TG5	101	86	92	88	104				0
E2TG6	98	86	93	88	96				0
E2TG8	110	92	119	101	95				0
E2TG9	105	98	106	94	104				0
E2TH0	96	82	97	89	97				0
E2TK0	100	90	94	90	102				0
E2TH1	103	79	97	92	98				0
VBLK09	98	87	99	100	104				0
E2TK1	98	80	103	94	104				0
VBLK12	94	108	90	104	94				0
E2TH8	99	101	119	129 *	116				4
E2TJ0	116	106	91	115	122 *				2
E2TJ2	98	82	76	95	111				0
E2TJ4	97	85	93	108	108				0
E2TJ6	92	91	128	128 *	126 *				5
E2TJ2DL	77	64	63	78	83				1
VBLK13	91	83	76	92	99				0
E2TG8DL	106	99	69	99	108				0
E2TG9DL	105	98	93	112	119				1
VBLK14	93	86	93	90	92				0
E2TJ4RE	99	85	118	111	100				0
E2TJ6RE	105	93	117	109	91				0
E2TH8RE	105	104	119	117	101				1
VBLK17	95	82	81	87	95				0
VHBLK01	108	96	95	106	106				0

	QC LIMITS
DMC9 (TOL) = Toluene-d8	(70-130)
DMC10 (TDP) = trans-1,3-Dichloropropene-d4	(55-130)
DMC11 (HEX) = 2-Hexanone-d5	(45-130)
DMC12 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(65-120)
DMC13 (DCZ) = 1,2-Dichlorobenzene-d4	(80-120)

FORM 3A-OR

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030

Lab Code : CHEM Case No. : 45411 MA No .: SDG No. : E2TG4

Analytical Method : Trace VOA Level :

Matrix Water

EPA Sample No.(Matrix Spike/Metrix Spike Duplicate): E2TG7

Instrument ID : MSVOA_I GC Column RXI-624 ID : 0.25 (mm)

Concentration Units (ug/L,mg/L ug/kg): ug/L

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
1,1-Dichloroethene	5	0	5.2	104	61 - 145
Benzene	5	0	4.3	86	76 - 127
Trichloroethene	5	0	4.2	84	71 - 120
Toluene	5	0	4.6	92	76 - 125
Chlorobenzene	5	0	5.1	102	75 - 130

ANALYTE	SPIKE AADDED	MSD CONCENTRATION	MSD %R #	RPD	QC Limits	
					RPD	%R
1,1-Dichloroethene	5	5.5	110	6	14	61 - 145
Benzene	5	4.8	96	11	11	76 - 127
Trichloroethene	5	5	100	17 *	14	71 - 120
Toluene	5	5.1	102	10	13	76 - 125
Chlorobenzene	5	5.2	104	2	13	75 - 130

EPA SAMPLE NO.

VBLK08

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VI0627WBL01
Instrument ID: MSVOA_I
Lab File ID : VI045205.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/27/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 10:24
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TG4	G2759-01	VI045206.D	06/27/2015 11:01
E2TG7	G2759-04	VI045207.D	06/27/2015 11:33
E2TG7MS	G2759-05MS	VI045208.D	06/27/2015 12:04
E2TG7MSD	G2759-06MSD	VI045209.D	06/27/2015 12:36
E2TG5	G2759-02	VI045210.D	06/27/2015 13:07
E2TG6	G2759-03	VI045211.D	06/27/2015 13:44
E2TG8	G2759-07	VI045212.D	06/27/2015 14:15
E2TG9	G2759-08	VI045213.D	06/27/2015 14:47
E2TH0	G2759-09	VI045214.D	06/27/2015 15:18
E2TK0	G2759-13	VI045215.D	06/27/2015 15:49
E2TH1	G2759-14	VI045216.D	06/27/2015 16:20

EPA SAMPLE NO.

VBLK09

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VI0627WBL02
Instrument ID: MSVOA_I
Lab File ID : VI045218.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/27/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 17:34
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TK1	G2759-24	VI045219.D	06/27/2015 18:14

EPA SAMPLE NO.

VBLK12

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VI0629WBL01
Instrument ID: MSVOA_I
Lab File ID : VI045276.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/29/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 10:59
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TH8	G2759-10	VI045282.D	06/29/2015 14:53
E2TJ0	G2759-12	VI045283.D	06/29/2015 15:24
E2TJ2	G2759-18	VI045284.D	06/29/2015 15:56
E2TJ4	G2759-20	VI045285.D	06/29/2015 16:27
E2TJ6	G2759-22	VI045286.D	06/29/2015 17:02
E2TJ2DL	G2759-18DL	VI045287.D	06/29/2015 17:37

EPA SAMPLE NO.

VBLK13

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VI0629WBL02
Instrument ID: MSVOA_I
Lab File ID : VI045291.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/29/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 20:29
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TG8DL	G2759-07DL	VI045292.D	06/29/2015 21:17
E2TG9DL	G2759-08DL	VI045293.D	06/29/2015 21:48

EPA SAMPLE NO.

VBLK14

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VI0630WBL01
Instrument ID: MSVOA_I
Lab File ID : VI045318.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/30/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 16:28
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TJ4RE	G2759-20RE	VI045321.D	06/30/2015 18:23
E2TJ6RE	G2759-22RE	VI045322.D	06/30/2015 18:55
E2TH8RE	G2759-10RE	VI045323.D	06/30/2015 19:26

EPA SAMPLE NO.
VBLK17

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VI0701WBL02
Instrument ID: MSVOA_I
Lab File ID : VI045354.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 07/01/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 19:45
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
VHBLK01	G2759-25	VI045357.D	07/01/2015 21:18

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: Trace VOA | Level :
EPA Sample No. : VSTD00521 | Lab File ID (Standard) : VI045204.D
Instrument ID : MSVOA_I | Init.Calib.Date(s): 06/25/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/27/2015
Heated Purge: (Y/N) N | Time Analyzed : 09:26

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	801720	7.80	696466	11.12	305053	13.35
UPPER LIMIT	1603440	~~8.3~~ 7.97	1392930	~~11.62~~ 11.29	610106	~~13.85~~ 13.52
LOWER LIMIT	400860	~~7.3~~ 7.63	348233	~~10.62~~ 10.95	152527	~~12.85~~ 13.18
EPA SAMPLE NO.						
VBLK08	752126	7.80	717013	11.13	367331	13.35
E2TG4	736244	7.79	694884	11.13	320242	13.35
E2TG7	671626	7.79	630063	11.13	283250	13.35
E2TG7MS	653585	7.80	732304	11.12	366387	13.34
E2TG7MSD	637808	7.79	672433	11.12	316632	13.35
E2TG5	665299	7.79	702078	11.12	349075	13.34
E2TG6	643838	7.79	656441	11.13	323736	13.35
E2TG8	591817	7.79	576278	11.13	283885	13.35
E2TG9	668926	7.79	650595	11.12	312121	13.35
E2TH0	613682	7.79	644362	11.12	317300	13.35
E2TK0	592662	7.79	638566	11.13	297509	13.35
E2TH1	658125	7.79	626052	11.13	320780	13.35

RT = ± 10 seconds, 0.17 minutes

acH 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: Trace VOA | Level :
EPA Sample No. : VSTD00522 | Lab File ID (Standard) : VI045217.D
Instrument ID : MSVOA_I | Init.Calib.Date(s): 06/25/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/27/2015
Heated Purge: (Y/N) N | Time Analyzed : 16:56

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	728953	7.80	767674	11.13	372474	13.35
UPPER LIMIT	1457910	~~8.3~~ 7.97	1535350	~~11.63~~ 11.3	744948	~~13.85~~ 13.52
LOWER LIMIT	364477	~~7.3~~ 7.63	383837	~~10.63~~ 10.96	186237	~~12.85~~ 13.18
EPA SAMPLE NO.						
VBLK09	665039	7.80	719550	11.13	368918	13.36
E2TK1	689164	7.80	722435	11.13	345159	13.35

RT = ± 10 seconds, 0.17 minutes
ACH 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: Trace VOA | Level :
EPA Sample No. : VSTD00527 | Lab File ID (Standard) : VI045275.D
Instrument ID : MSVOA_I | Init.Calib.Date(s): 06/25/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/29/2015
Heated Purge: (Y/N) N | Time Analyzed : 10:12

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	707944	7.81	722882	11.13	386932	13.36
UPPER LIMIT	1415890	~~8.31~~ 7.98	1445760	~~11.63~~ 11.3	773864	~~13.86~~ 13.53
LOWER LIMIT	353972	~~7.31~~ 7.64	361441	~~10.63~~ 10.96	193466	~~12.86~~ 13.19
EPA SAMPLE NO.						
VBLK12	699477	7.81	641796	11.14	380061	13.36
E2TH8	500592	7.80	574372	11.13	313900	13.36
E2TJ0	560911	7.80	601888	11.13	322310	13.36
E2TJ2	568306	7.79	662415	11.13	340494	13.35
E2TJ4	542872	7.79	637383	11.13	351266	13.35
E2TJ6	491938	7.88	670622	11.15	342405	13.37
E2TJ2DL	581495	7.81	671999	11.13	372327	13.37

RT = ± 10 seconds, 0.17 minutes

ACH 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
Lab Code: CHEM Case No.: 45411 MA No.: SDG No.: E2TG4
Analytical Method: Trace VOA Level :
EPA Sample No. : VSTD00528 Lab File ID (Standard) : VI045290.D
Instrument ID : MSVOA_I Init.Calib.Date(s): 06/25/2015
GC Column : RXI-624 ID: 0.25 (mm) Date Analyzed : 06/29/2015
Heated Purge: (Y/N) N Time Analyzed : 19:13

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	721230	7.80	754719	11.13	365124	13.36
UPPER LIMIT	1442460	~~8.3~~ 7.97	1509440	~~11.63~~ 11.3	730248	~~13.86~~ 13.53
LOWER LIMIT	360615	~~7.3~~ 7.63	377360	~~10.63~~ 10.96	182562	~~12.86~~ 13.19
EPA SAMPLE NO.						
VBLK13	612812	7.80	704073	11.13	358620	13.36
E2TG8DL	693508	7.81	732961	11.13	379788	13.36
E2TG9DL	574659	7.80	683103	11.13	344928	13.36

RT = ± 10 seconds, 0.17 minutes
ACH 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: Trace VOA | Level :
EPA Sample No. : VSTD00532 | Lab File ID (Standard) : VI045313.D
Instrument ID : MSVOA_I | Init.Calib.Date(s): 06/30/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/30/2015
Heated Purge: (Y/N) N | Time Analyzed : 13:12

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	593064	7.81	681972	11.13	336632	13.36
UPPER LIMIT	1186130	~~8.31~~ 7.98	1363940	~~11.63~~ 11.3	673264	~~13.86~~ 13.53
LOWER LIMIT	296532	~~7.31~~ 7.64	340986	~~10.63~~ 10.96	168316	~~12.86~~ 13.19
EPA SAMPLE NO.						
VBLK14	644799	7.81	724323	11.14	363282	13.36
E2TJ4RE	555856	7.80	643878	11.14	327675	13.36
E2TJ6RE	589505	7.80	600992	11.13	333586	13.36
E2TH8RE	558964	7.80	624662	11.14	332553	13.36

RT = ± 10 seconds, 0.17 minutes
acft 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: Trace VOA | Level :
EPA Sample No. : VSTD00539 | Lab File ID (Standard) : VI045353.D
Instrument ID : MSVOA_I | Init.Calib.Date(s): 06/30/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 07/01/2015
Heated Purge: (Y/N) N | Time Analyzed : 19:05

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	539953	7.79	590192	11.13	274384	13.35
UPPER LIMIT	1079910	~~8.29~~ 7.96	1180380	~~11.63~~ 11.3	548768	~~13.85~~ 13.52
LOWER LIMIT	269977	~~7.29~~ 7.62	295096	~~10.63~~ 10.96	137192	~~12.85~~ 13.18
EPA SAMPLE NO.						
VBLK17	601342	7.80	699311	11.13	325380	13.35
VHBLK01	549964	7.79	631187	11.13	277189	13.35

RT = ±10 seconds, 0.17 minutes
ACH 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG4

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-01
Lab File ID : VI045206.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG4

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045206.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	1.3	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG4

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-01
Lab File ID : VI045206.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG4

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045206.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG5

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-02
Lab File ID : VI045210.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.29	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG5

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045210.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	14	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG5

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : G2759-02
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045210.D
Solids :
Date Received : 06/24/2015
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/27/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG5

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045210.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG6

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-03
Lab File ID : VI045211.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG6

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045211.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.71	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG6

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : G2759-03
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045211.D
Solids :
Date Received : 06/24/2015
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/27/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG6

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045211.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : G2759-04
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045207.D
Solids :
Date Received : 06/24/2015
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/27/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045207.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-04
Lab File ID : VI045207.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG7

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045207.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1		unknown-01	9.25	2.9	J
2	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7MS

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-05MS
Lab File ID : VI045208.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	5.2	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	4.3	
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	4.2	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7MS

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-05MS
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045208.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	4.6	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	5.1	
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7MS

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : G2759-05MS
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045208.D
Solids :
Date Received : 06/24/2015
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/27/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7MSD

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-06MSD
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045209.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	5.5	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	4.8	
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	5.0	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7MSD

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-06MSD
Lab File ID : VI045209.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.1	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	5.2	
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG7MSD

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-06MSD
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045209.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG8

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-07
Lab File ID : VI045212.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG8

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045212.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	150	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG8

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-07
Lab File ID : VI045212.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG8

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045212.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG8DL

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : G2759-07DL
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045292.D
Solids :
Date Received : 06/24/2015
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/29/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 20.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	100	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG8DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-07DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045292.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 20.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	140	D
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
95-47-6	o-Xylene	10	U
179601-23-1	m,p-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-trichlorobenzene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG8DL

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-07DL
Lab File ID : VI045292.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 20.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	10	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG8DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-07DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045292.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/29/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 20.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG9

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-08
Lab File ID : VI045213.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG9

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045213.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	140	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG9

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-08
Lab File ID : VI045213.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG9

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : RXI-624 ID : 0.25 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-08
Lab File ID : VI045213.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1		unknown-01	9.25	3	J
2	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG9DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-08DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045293.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 20.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	100	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG9DL

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-08DL
Lab File ID : VI045293.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 20.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	140	D
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
95-47-6	o-Xylene	10	U
179601-23-1	m,p-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-trichlorobenzene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TG9DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-08DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045293.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 20.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	10	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TG9DL

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-08DL
Lab File ID : VI045293.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 20.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH0

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045214.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH0

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-09
Lab File ID : VI045214.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.33	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH0

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045214.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH0

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-09
Lab File ID : VI045214.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045216.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH1

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : G2759-14
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045216.D
Solids :
Date Received : 06/24/2015
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/27/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045216.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH1

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-14
Lab File ID : VI045216.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.: E2TH8

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045282.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.27	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.22	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.: E2TH8

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-10
Lab File ID : VI045282.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : >2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.52	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.14	J
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.69	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.23	J
95-47-6	o-Xylene	0.16	J
179601-23-1	m,p-Xylene	0.49	J
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH8

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045282.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH8

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-10
Lab File ID : VI045282.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1		unknown-01	1.49	0.71	J
2	E966796	Total Alkanes	N/A	1.38	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH8RE

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-10RE
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045323.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.21	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.22	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH8RE

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-10RE
Lab File ID : VI045323.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.25	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.13	J
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.7	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.18	J
95-47-6	o-Xylene	0.13	J
179601-23-1	m,p-Xylene	0.41	J
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH8RE

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-10RE
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045323.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH8RE

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-10RE
Lab File ID : VI045323.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1		unknown-01	1.34	2.1	J
2	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ0

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045283.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.26	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.48	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ0

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045283.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.32	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.86	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	5.7	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.23	J
95-47-6	o-Xylene	0.14	J
179601-23-1	m,p-Xylene	0.32	J
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ0

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045283.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ0

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-12
Lab File ID : VI045283.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	004901-76-2	Diaziridine,3,3-dimethyl-	2.11	0.56	JN
2	E966796	Total Alkanes	N/A	3.2	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ2

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045284.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.21	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.39	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.36	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ2

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-18
Lab File ID : VI045284.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.29	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.84	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	150	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.21	J
95-47-6	o-Xylene	0.17	J
179601-23-1	m,p-Xylene	0.4	J
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ2

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045284.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ2

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
:oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-18
Lab File ID : VI045284.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000123-73-9	2-Butenal, (E)-	1.34	2.1	JN
2	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ2DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045287.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 20.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	100	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ2DL

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : G2759-18DL
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045287.D
Solids :
Date Received : 06/24/2015
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/29/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 20.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	180	D
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
95-47-6	o-Xylene	10	U
179601-23-1	m,p-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-trichlorobenzene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ2DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045287.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 20.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	10	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ2DL

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-18DL
Lab File ID : VI045287.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 20.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ4

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045285.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.34	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.38	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ4

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-20
Lab File ID : VI045285.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : >2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.6	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.44	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.41	J
95-47-6	o-Xylene	0.33	J
179601-23-1	m,p-Xylene	0.89	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ4

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045285.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ4

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : RXI-624 ID : 0.25 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-20
Lab File ID : VI045285.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000625-38-7	3-Butenoic acid	1.34	5.1	JN
2		unknown-01	3.5	0.7	J
3	000066-25-1	Hexanal	10.51	1.2	JN
4	000108-67-8	Benzene, 1,3,5-trimethyl-	13.02	0.75	JN
5	E966796	Total Alkanes	N/A	3	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ4RE

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-20RE
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045321.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.58	
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.25	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.43	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ4RE

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-20RE
Lab File ID : VI045321.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : >2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.45	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.1	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.22	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.3	J
95-47-6	o-Xylene	0.27	J
179601-23-1	m,p-Xylene	0.61	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ4RE

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-20RE
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045321.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ4RE

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-20RE
Lab File ID : VI045321.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	002781-85-3	Cyclopropene	1.34	3.8	JN
2	000627-27-0	3-Buten-1-ol	2.37	0.77	JN
3	002658-24-4	Aziridine, 2,2-dimethyl-	3.5	0.7	JN
4	018952-41-5	Formamide, N-methylthio	5.62	0.99	JN
5	000066-25-1	Hexanal	10.52	1	JN
6	000095-63-6	Benzene, 1,2,4-trimethyl-	13.02	0.72	JN
7	E966796	Total Alkanes	N/A	0.59	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ6

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-22
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045286.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.3	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.39	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ6

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-22
Lab File ID : VI045286.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : >2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.57	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.98	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.26	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.35	J
95-47-6	o-Xylene	0.27	J
179601-23-1	m,p-Xylene	0.74	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ6

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-22
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045286.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : >2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ6

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-22
Lab File ID : VI045286.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000123-73-9	2-Butenal, (E)-	1.39	5.2	JN
2	000463-49-0	Allene	1.5	0.61	JN
3	000513-36-0	Propane, 1-chloro-2-methyl-	1.57	1.2	JN
4		unknown-01	2.52	0.64	J
5	001076-43-3	Perdeuterobenzene	7.45	1.2	JN
6	000066-25-1	Hexanal	10.54	0.54	JN
7	000111-71-7	Heptanal	12	0.56	JN
8	000526-73-8	Benzene, 1,2,3-trimethyl-	13.03	0.63	JN
9	E966796	Total Alkanes	N/A	1.1	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ6RE

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-22RE
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045322.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.37	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.52	
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ6RE

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated :(Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-22RE
Lab File ID : VI045322.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.54	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.3	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.19	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.33	J
95-47-6	o-Xylene	0.26	J
179601-23-1	m,p-Xylene	0.7	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ6RE

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-22RE
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045322.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ6RE

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-22RE
Lab File ID : VI045322.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	253664-95-8	Bis(3-methylbutyl) fluorene-2,7-di	1.34	2.5	JN
2		unknown-01	3.49	0.65	J
3	000066-25-1	Hexanal	10.51	0.98	JN
4	000108-67-8	Benzene, 1,3,5-trimethyl-	13.02	0.57	JN
5	E966796	Total Alkanes	N/A	1.25	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK0

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045215.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK0

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-13
Lab File ID : VI045215.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK0

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045215.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TK0

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-13
Lab File ID : VI045215.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-24
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045219.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK1

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated :(Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-24
Lab File ID : VI045219.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-24
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045219.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TK1

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
Ieated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-24
Lab File ID : VI045219.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK08

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0627WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045205.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK08

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0627WBL01
Lab File ID : VI045205.D
Date Received :
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK08

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0627WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045205.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK08

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0627WBL01
Lab File ID : VI045205.D
Date Received :
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK09

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0627WBL02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045218.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK09

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0627WBL02
Lab File ID : VI045218.D
Date Received :
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK09

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0627WBL02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045218.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK09

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0627WBL02
Lab File ID : VI045218.D
Date Received :
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK12

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0629WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045276.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK12

ab Name : Chemtech Consulting Group
Contract : EPW14030
ab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
nalytical Method : Trace VOA
Level :
atrix : Water
Lab Sample ID : VI0629WBL01
ample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045276.D
Solids :
Date Received :
C Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
C Column : ID : (mm)
Date Analyzed : 06/29/2015
xtract Concentrated : (Y / N)
Extract Volume : (µL)
oil Aliquot (VOA) : (µL)
Extraction Type :
eated Purge : (Y / N) N
Injection Volume : (µL)
urge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
leanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK12

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0629WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045276.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK12

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
:oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0629WBL01
Lab File ID : VI045276.D
Date Received :
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK13

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0629WBL02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045291.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK13

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0629WBL02
Lab File ID : VI045291.D
Date Received :
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK13

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0629WBL02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045291.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK13

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0629WBL02
Lab File ID : VI045291.D
Date Received :
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK14

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0630WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045318.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK14

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0630WBL01
Lab File ID : VI045318.D
Date Received :
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK14

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0630WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045318.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK14

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0630WBL01
Lab File ID : VI045318.D
Date Received :
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK17

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0701WBL02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045354.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK17

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0701WBL02
Lab File ID : VI045354.D
Date Received :
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK17

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VI0701WBL02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045354.D
% Solids :
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK17

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : VI0701WBL02
Lab File ID : VI045354.D
Date Received :
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-25
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045357.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-25
Lab File ID : VI045357.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-Xylene	0.5	U
179601-23-1	m,p-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2759-25
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VI045357.D
% Solids :
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level :
Lab Sample ID : G2759-25
Lab File ID : VI045357.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TG4
Analytical Method : VOA Level : LOW
Matrix : Soil

EPA Sample No .	DMC1 (VCL)	DMC2 (CLA)	DMC3 (DCE)	DMC4 (BUT)	DMC5 (CLF)	DMC6 (DCA)	DMC7 (BEN)	DMC8 (DPA)
VBLK05	94	110	71	81	93	97	95	96
E2TJ3	105	127	85	81	103	105	114	114
VBLK06	77	92	65	87	92	98	89	95
E2TH9	92	104	79	83	95	102	97	98
E2TJ5	96	114	85	107	109	107	97	100
E2TH3	85	102	70	85	86	96	87	89
E2TH3MS	90	104	116 *	89	92	100	92	96
E2TH3MSD	92	110	106	72	94	103	94	93
VBLK19	86	75	60	49	88	79	83	80
E2TJ7	94	52	68	42	86	92	98	90
E2TJ3ME	97	51	69	63	87	96	101	94
VBLK08	84	100	65	86	83	91	87	86
VHBLK02	86	103	70	90	87	96	87	88

	QC LIMITS
DMC1 (VCL) = Vinyl Chloride-d3	(30-150)
DMC2 (CLA) = Chloroethane-d5	(30-150)
DMC3 (DCE) = 1,1-Dichloroethene-d2	(45-110)
DMC4 (BUT) = 2-Butanone-d5	(20-135)
DMC5 (CLF) = Chloroform-d	(40-150)
DMC6 (DCA) = 1,2-Dichloroethane-d4	(70-130)
DMC7 (BEN) = Benzene-d6	(20-135)
DMC8 (DPA) = 1,2-Dichloropropane-d6	(70-120)

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TG4
Analytical Method : VOA Level : LOW
Matrix : Soil

EPA Sample No .	DMC9 (TOL)	DMC10 (TDP)	DMC11 (HEX)	DMC12 (TCA)	DMC13 (DCZ)	DMC14	DMC15	DMC16	TOT OUT
VBLK05	96	87	87	84	100				0
E2TJ3	115	102	101	97	146 *				1
VBLK06	92	82	99	93	101				0
E2TH9	97	87	91	87	103				0
E2TJ5	96	92	102	98	104				0
E2TH3	88	83	95	88	95				0
E2TH3MS	92	90	100	92	106				1
E2TH3MSD	90	82	76	78	109				0
VBLK19	78	75	70	77	94				0
E2TJ7	89	82	77	84	106				0
E2TJ3ME	92	87	82	89	111				0
VBLK08	86	79	90	83	92				0
VHBLK02	86	82	96	88	99				0

	QC LIMITS
DMC9 (TOL) = Toluene-d8	(30-130)
DMC10 (TDP) = trans-1,3-Dichloropropene-d4	(30-135)
DMC11 (HEX) = 2-Hexanone-d5	(20-135)
DMC12 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(45-120)
DMC13 (DCZ) = 1,2-Dichlorobenzene-d4	(75-120)

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030

Lab Code : CHEM Case No. : 45411 MA No .: SDG No. : E2TG4

Analytical Method : VOA Level : LOW

Matrix Soil

EPA Sample No.(Matrix Spike/Metrix Spike Duplicate): E2TH3

Instrument ID : MSVOA_T GC Column RXI-624 ID : 0.25 (mm)

Concentration Units (ug/L,mg/L ug/kg): ug/Kg

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
1,1-Dichloroethene	53.6	0	73	136	59 - 172
Benzene	53.6	0	63	118	66 - 142
Trichloroethene	53.6	0	64	119	62 - 137
Toluene	53.6	0	63	118	59 - 139
Chlorobenzene	53.6	0	62	116	60 - 133

ANALYTE	SPIKE AADDED	MSD CONCENTRATION	MSD %R #	RPD	QC Limits	
					RPD	%R
1,1-Dichloroethene	55.5	67	121	12	22	59 - 172
Benzene	55.5	66	119	1	21	66 - 142
Trichloroethene	55.5	64	115	3	24	62 - 137
Toluene	55.5	63	114	3	21	59 - 139
Chlorobenzene	55.5	65	117	1	21	60 - 133

EPA SAMPLE NO.

VBLK05

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: VOA
Level : LOW
Matrix : Soil
Lab Sample ID: VT0626SBL01
Instrument ID: MSVOA_T
Lab File ID : VT010642.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/26/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 11:57
Heated Purge: (Y/N) Y Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TJ3	G2759-19	VT010650.D	06/26/2015 16:15

EPA SAMPLE NO.

VBLK06

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM
Case No.: 45411
MA No. :
SDG No.: E2TG4
Analytical Method: VOA
Level : LOW
Matrix : Soil
Lab Sample ID: VT0627SBL01
Instrument ID: MSVOA_T
Lab File ID : VT010660.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/27/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 10:52
Heated Purge: (Y/N) Y
Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TH9	G2759-11	VT010666.D	06/27/2015 13:41
E2TJ5	G2759-21	VT010668.D	06/27/2015 14:34
E2TH3	G2759-15	VT010669.D	06/27/2015 15:10
E2TH3MS	G2759-16MS	VT010670.D	06/27/2015 15:37
E2TH3MSD	G2759-17MSD	VT010671.D	06/27/2015 16:03

EPA SAMPLE NO.

VBLK08

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: VOA
Level : LOW
Matrix : Soil
Lab Sample ID: VT0701SBL01
Instrument ID: MSVOA_T
Lab File ID : VT010682.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 07/01/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 13:30
Heated Purge: (Y/N) Y Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
VHBLK02	G2759-26	VT010683.D	07/01/2015 14:22

EPA SAMPLE NO.

VBLK19

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method: VOA
Level : MED
Matrix : Soil
Lab Sample ID: VU0630MBL01
Instrument ID: MSVOA_U
Lab File ID : VU002039.D
Extraction Type :
Date Extracted :
GC Column ( ) : DB-624UI ID : 0.18 (mm)
Date Analyzed : 06/30/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 11:21
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TJ7	G2759-23	VU002048.D	06/30/2015 15:59
E2TJ3ME	G2759-19ME	VU002049.D	06/30/2015 16:27

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: VOA | Level : LOW
EPA Sample No. : VSTD02513 | Lab File ID (Standard) : VT010641.D
Instrument ID : MSVOA_T | Init.Calib.Date(s): 06/16/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/26/2015
Heated Purge: (Y/N) Y | Time Analyzed : 10:46

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT	
12 HOUR STD	847432	8.36	720765	11.19	400035	13.12	
UPPER LIMIT	1694860	~~8.86~~ 8.53	1441530	~~11.69~~ 11.36	800070	~~13.62~~	13.29
LOWER LIMIT	423716	~~7.86~~ 8.19	360383	~~10.69~~ 11.02	200018	~~12.62~~	12.95
EPA SAMPLE NO.							
VBLK05	823468	8.36	689777	11.19	348254	13.12	
E2TJ3	791002	8.36	608796	11.19	252376	13.12	

RT = ± 10 seconds, 0.17 minutes

ACH
8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: VOA | Level : LOW
EPA Sample No. : VSTD02515 | Lab File ID (Standard) : VT010659.D
Instrument ID : MSVOA_T | Init.Calib.Date(s): 06/16/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/27/2015
Heated Purge: (Y/N) Y | Time Analyzed : 09:45

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	1044020	8.36	844826	11.19	447070	13.12
UPPER LIMIT	2088040	~~8.86~~ 8.53	1689650	~~11.69~~ 11.36	894140	~~13.62~~ 13.29
LOWER LIMIT	522010	~~7.86~~ 8.19	422413	~~10.69~~ 11.02	223535	~~12.62~~ 12.95
EPA SAMPLE NO.						
VBLK06	1020132	8.36	874506	11.19	429668	13.12
E2TH9	825989	8.36	694555	11.19	348065	13.12
E2TJ5	829178	8.36	700555	11.19	375390	13.12
E2TH3	868580	8.36	738282	11.19	384848	13.12
E2TH3MS	881042	8.36	758367	11.19	407026	13.12
E2TH3MSD	862007	8.36	775306	11.19	379483	13.12

RT = ± 10 seconds, 0.17 minutes
ACH 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: VOA | Level : LOW
EPA Sample No. : VSTD02519 | Lab File ID (Standard) : VT010681.D
Instrument ID : MSVOA_T | Init.Calib.Date(s): 06/16/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 07/01/2015
Heated Purge: (Y/N) Y | Time Analyzed : 12:48

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	936421	8.36	810333	11.19	439603	13.12
UPPER LIMIT	1872840	~~8.86~~ 8.53	1620670	~~11.69~~ 11.36	879206	~~13.62~~ 13.29
LOWER LIMIT	468211	~~7.86~~ 8.19	405167	~~10.69~~ 11.02	219802	~~12.62~~ 12.95
EPA SAMPLE NO.						
VBLK08	879887	8.36	726013	11.19	368569	13.12
VHBLK02	839853	8.36	722017	11.19	366330	13.12

RT = ± 10 seconds . 0.17 minutes
ACH 8-14-205

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TG4
Analytical Method: VOA | Level : MED
EPA Sample No. : VSTD05027 | Lab File ID (Standard) : VU002038.D
Instrument ID : MSVOA_U | Init.Calib.Date(s): 06/16/2015
GC Column : DB-624UI | ID: 0.18 (mm) | Date Analyzed : 06/30/2015
Heated Purge: (Y/N) N | Time Analyzed : 10:48

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	550590	6.39	560797	9.50	284969	11.85
UPPER LIMIT	1101180	~~6.89~~ 6.56	1121590	~~10~~ 9.67	569938	~~12.35~~ 12.02
LOWER LIMIT	275295	~~5.89~~ 6.22	280399	~~9~~ 9.33	142485	~~11.35~~ 11.68
EPA SAMPLE NO.						
VBLK19	608645	6.39	595393	9.50	237652	11.85
E2TJ7	556192	6.39	546622	9.50	226992	11.85
E2TJ3ME	543235	6.39	536772	9.50	220574	11.85

RT = ± 10 seconds, 0.17 minutes
ACH 8-14-2015

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.93 (g/mL): g
Solids : 81.8
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-15
Lab File ID : VT010669.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.2	U
74-87-3	Chloromethane	5.2	U
75-01-4	Vinyl chloride	5.2	U
74-83-9	Bromomethane	5.2	U
75-00-3	Chloroethane	5.2	U
75-69-4	Trichlorofluoromethane	5.2	U
75-35-4	1,1-Dichloroethene	5.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.2	U
79-20-9	Methyl Acetate	5.2	U
75-09-2	Methylene chloride	5.2	U
156-60-5	trans-1,2-Dichloroethene	5.2	U
1634-04-4	Methyl tert-butyl Ether	5.2	U
75-34-3	1,1-Dichloroethane	5.2	U
156-59-2	cis-1,2-Dichloroethene	5.2	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.2	U
67-66-3	Chloroform	5.2	U
71-55-6	1,1,1-Trichloroethane	5.2	U
110-82-7	Cyclohexane	5.2	U
56-23-5	Carbon tetrachloride	5.2	U
71-43-2	Benzene	5.2	U
107-06-2	1,2-Dichloroethane	5.2	U
79-01-6	Trichloroethene	5.2	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-15
Sample wt/vol : 5.93 (g/mL): g
Lab File ID : VT010669.D
% Solids : 81.8
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.2	U
78-87-5	1,2-Dichloropropane	5.2	U
75-27-4	Bromodichloromethane	5.2	U
10061-01-5	cis-1,3-Dichloropropene	5.2	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.2	U
10061-02-6	trans-1,3-Dichloropropene	5.2	U
79-00-5	1,1,2-Trichloroethane	5.2	U
127-18-4	Tetrachloroethene	5.2	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.2	U
106-93-4	1,2-Dibromoethane	5.2	U
108-90-7	Chlorobenzene	5.2	U
100-41-4	Ethylbenzene	5.2	U
95-47-6	o-xylene	5.2	U
179601-23-1	m,p-Xylene	5.2	U
100-42-5	Styrene	5.2	U
75-25-2	Bromoform	5.2	U
98-82-8	Isopropylbenzene	5.2	U
79-34-5	1,1,2,2-Tetrachloroethane	5.2	U
541-73-1	1,3-Dichlorobenzene	5.2	U
106-46-7	1,4-Dichlorobenzene	5.2	U
95-50-1	1,2-Dichlorobenzene	5.2	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	U
120-82-1	1,2,4-trichlorobenzene	5.2	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.93 (g/mL): g
Solids : 81.8
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated :(Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-15
Lab File ID : VT010669.D
Date Received : 06/24/2015
Date Extracted : _____
Date Analyzed : 06/27/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.2	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH3

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-15
Sample wt/vol : 5.93 (g/mL): g
Lab File ID : VT010669.D
% Solids : 81.8
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	083710-34-3	Pyridine-4-aldehyde, N-ethoxycarbo	6.96	6	JN
2	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3MS

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.7 (g/mL): g
Solids : 81.8
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-16MS
Lab File ID : VT010670.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	73	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl Acetate	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl Ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
71-43-2	Benzene	63	
107-06-2	1,2-Dichloroethane	5.4	U
79-01-6	Trichloroethene	64	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3MS

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-16MS
Sample wt/vol : 5.7 (g/mL): g
Lab File ID : VT010670.D
% Solids : 81.8
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	63	
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	62	
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-trichlorobenzene	5.4	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3MS

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.7 (g/mL): g
Solids : 81.8
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L, mg/L, µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-16MS
Lab File ID : VT010670.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.4	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3MSD

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-17MSD
Sample wt/vol : 5.51 (g/mL): g
Lab File ID : VT010671.D
% Solids : 81.8
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	67	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl Acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl Ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	66	
107-06-2	1,2-Dichloroethane	5.5	U
79-01-6	Trichloroethene	64	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3MSD

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.51 (g/mL): g
Solids : 81.8
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-17MSD
Lab File ID : VT010671.D
Date Received : 06/24/2015
Date Extracted : _____
Date Analyzed : 06/27/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	63	
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	65	
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-trichlorobenzene	5.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH3MSD

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-17MSD
Sample wt/vol : 5.51 (g/mL): g
Lab File ID : VT010671.D
% Solids : 81.8
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH9

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.49 (g/mL): g
Solids : 82.6
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-11
Lab File ID : VT010666.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	9.4	J
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl Acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl Ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
79-01-6	Trichloroethene	5.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH9

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-11
Sample wt/vol : 5.49 (g/mL): g
Lab File ID : VT010666.D
% Solids : 82.6
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-trichlorobenzene	5.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH9

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.49 (g/mL): g
Solids : 82.6
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L, mg/L, µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-11
Lab File ID : VT010666.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH9

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-11
Sample wt/vol : 5.49 (g/mL): g
Lab File ID : VT010666.D
% Solids : 82.6
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ3

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-19
Sample wt/vol : 6.61 (g/mL): g
Lab File ID : VT010650.D
% Solids : 93.4
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	4.0	U
74-87-3	Chloromethane	4.0	U
75-01-4	Vinyl chloride	4.0	U
74-83-9	Bromomethane	4.0	U
75-00-3	Chloroethane	4.0	U
75-69-4	Trichlorofluoromethane	4.0	U
75-35-4	1,1-Dichloroethene	4.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U
67-64-1	Acetone	5.8	J
75-15-0	Carbon disulfide	4.0	U
79-20-9	Methyl Acetate	4.0	U
75-09-2	Methylene chloride	3.3	J
156-60-5	trans-1,2-Dichloroethene	4.0	U
1634-04-4	Methyl tert-butyl Ether	4.0	U
75-34-3	1,1-Dichloroethane	4.0	U
156-59-2	cis-1,2-Dichloroethene	4.0	U
78-93-3	2-Butanone	8.1	U
74-97-5	Bromochloromethane	4.0	U
67-66-3	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
110-82-7	Cyclohexane	4.0	U
56-23-5	Carbon tetrachloride	4.0	U
71-43-2	Benzene	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
79-01-6	Trichloroethene	4.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ3

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-19
Sample wt/vol : 6.61 (g/mL): g
Lab File ID : VT010650.D
% Solids : 93.4
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	4.0	U
78-87-5	1,2-Dichloropropane	4.0	U
75-27-4	Bromodichloromethane	4.0	U
10061-01-5	cis-1,3-Dichloropropene	4.0	U
108-10-1	4-Methyl-2-pentanone	8.1	U
108-88-3	Toluene	4.0	U
10061-02-6	trans-1,3-Dichloropropene	4.0	U
79-00-5	1,1,2-Trichloroethane	4.0	U
127-18-4	Tetrachloroethene	240	E
591-78-6	2-Hexanone	8.1	U
124-48-1	Dibromochloromethane	4.0	U
106-93-4	1,2-Dibromoethane	4.0	U
108-90-7	Chlorobenzene	4.0	U
100-41-4	Ethylbenzene	4.0	U
95-47-6	o-xylene	4.0	U
179601-23-1	m,p-Xylene	4.0	U
100-42-5	Styrene	4.0	U
75-25-2	Bromoform	4.0	U
98-82-8	Isopropylbenzene	4.0	U
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	U
106-46-7	1,4-Dichlorobenzene	4.0	U
95-50-1	1,2-Dichlorobenzene	4.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.0	U
120-82-1	1,2,4-trichlorobenzene	4.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ3

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 6.61 (g/mL): g
Solids : 93.4
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L, mg/L, µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-19
Lab File ID : VT010650.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/26/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	4.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ3

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-19
Sample wt/vol : 6.61 (g/mL): g
Lab File ID : VT010650.D
% Solids : 93.4
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/26/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ3ME

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 6.68 (g/mL): g
Solids : 93.4
C Column : DB-624UI ID : 0.18 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : 100 (µL)
eated Purge : (Y / N) N
urge Volume : 0 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : MED
Lab Sample ID : G2759-19ME
Lab File ID : VU002049.D
Date Received : 06/24/2015
Date Extracted : _____
Date Analyzed : 06/30/2015
Extract Volume : 5000 (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	270	U
74-87-3	Chloromethane	270	U
75-01-4	Vinyl chloride	270	U
74-83-9	Bromomethane	270	U
75-00-3	Chloroethane	270	U
75-69-4	Trichlorofluoromethane	270	U
75-35-4	1,1-Dichloroethene	270	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	270	U
67-64-1	Acetone	540	U
75-15-0	Carbon disulfide	270	U
79-20-9	Methyl Acetate	270	U
75-09-2	Methylene chloride	270	U
156-60-5	trans-1,2-Dichloroethene	270	U
1634-04-4	Methyl tert-butyl Ether	270	U
75-34-3	1,1-Dichloroethane	270	U
156-59-2	cis-1,2-Dichloroethene	270	U
78-93-3	2-Butanone	540	U
74-97-5	Bromochloromethane	270	U
67-66-3	Chloroform	270	U
71-55-6	1,1,1-Trichloroethane	270	U
110-82-7	Cyclohexane	270	U
56-23-5	Carbon tetrachloride	270	U
71-43-2	Benzene	270	U
107-06-2	1,2-Dichloroethane	270	U
79-01-6	Trichloroethene	270	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ3ME

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : MED
Matrix : Soil
Lab Sample ID : G2759-19ME
Sample wt/vol : 6.68 (g/mL): g
Lab File ID : VU002049.D
% Solids : 93.4
Date Received : 06/24/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : 5000 (µL)
Soil Aliquot (VOA) : 100 (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 0 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	270	U
78-87-5	1,2-Dichloropropane	270	U
75-27-4	Bromodichloromethane	270	U
10061-01-5	cis-1,3-Dichloropropene	270	U
108-10-1	4-Methyl-2-pentanone	540	U
108-88-3	Toluene	270	U
10061-02-6	trans-1,3-Dichloropropene	270	U
79-00-5	1,1,2-Trichloroethane	270	U
127-18-4	Tetrachloroethene	1200	
591-78-6	2-Hexanone	540	U
124-48-1	Dibromochloromethane	270	U
106-93-4	1,2-Dibromoethane	270	U
108-90-7	Chlorobenzene	270	U
100-41-4	Ethylbenzene	270	U
95-47-6	o-xylene	270	U
179601-23-1	m,p-Xylene	270	U
100-42-5	Styrene	270	U
75-25-2	Bromoform	270	U
98-82-8	Isopropylbenzene	270	U
79-34-5	1,1,2,2-Tetrachloroethane	270	U
541-73-1	1,3-Dichlorobenzene	270	U
106-46-7	1,4-Dichlorobenzene	270	U
95-50-1	1,2-Dichlorobenzene	270	U
96-12-8	1,2-Dibromo-3-chloropropane	270	U
120-82-1	1,2,4-trichlorobenzene	270	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ3ME

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 6.68 (g/mL): g
Solids : 93.4
C Column : DB-624UI ID : 0.18 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : 100 (µL)
eated Purge : (Y / N) N
urge Volume : 0 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : MED
Lab Sample ID : G2759-19ME
Lab File ID : VU002049.D
Date Received : 06/24/2015
Date Extracted : _____
Date Analyzed : 06/30/2015
Extract Volume : 5000 (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	270	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ3ME

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : VOA
Matrix : Soil
Sample wt/vol : 6.68 (g/mL): g
% Solids : 93.4
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : 100 (µL)
Heated Purge : (Y / N) N
Purge Volume : 0 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : MED
Lab Sample ID : G2759-19ME
Lab File ID : VU002049.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : 5000 (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ5

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 7.07 (g/mL): g
Solids : 85.1
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-21
Lab File ID : VT010668.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	4.2	U
74-87-3	Chloromethane	4.2	U
75-01-4	Vinyl chloride	4.2	U
74-83-9	Bromomethane	4.2	U
75-00-3	Chloroethane	4.2	U
75-69-4	Trichlorofluoromethane	4.2	U
75-35-4	1,1-Dichloroethene	4.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.2	U
67-64-1	Acetone	8.3	U
75-15-0	Carbon disulfide	4.2	U
79-20-9	Methyl Acetate	4.2	U
75-09-2	Methylene chloride	4.2	U
156-60-5	trans-1,2-Dichloroethene	4.2	U
1634-04-4	Methyl tert-butyl Ether	4.2	U
75-34-3	1,1-Dichloroethane	4.2	U
156-59-2	cis-1,2-Dichloroethene	4.2	U
78-93-3	2-Butanone	8.3	U
74-97-5	Bromochloromethane	4.2	U
67-66-3	Chloroform	4.2	U
71-55-6	1,1,1-Trichloroethane	4.2	U
110-82-7	Cyclohexane	4.2	U
56-23-5	Carbon tetrachloride	4.2	U
71-43-2	Benzene	4.2	U
107-06-2	1,2-Dichloroethane	4.2	U
79-01-6	Trichloroethene	4.2	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ5

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-21
Sample wt/vol : 7.07 (g/mL): g
Lab File ID : VT010668.D
% Solids : 85.1
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	4.2	U
78-87-5	1,2-Dichloropropane	4.2	U
75-27-4	Bromodichloromethane	4.2	U
10061-01-5	cis-1,3-Dichloropropene	4.2	U
108-10-1	4-Methyl-2-pentanone	8.3	U
108-88-3	Toluene	4.2	U
10061-02-6	trans-1,3-Dichloropropene	4.2	U
79-00-5	1,1,2-Trichloroethane	4.2	U
127-18-4	Tetrachloroethene	4.2	U
591-78-6	2-Hexanone	8.3	U
124-48-1	Dibromochloromethane	4.2	U
106-93-4	1,2-Dibromoethane	4.2	U
108-90-7	Chlorobenzene	4.2	U
100-41-4	Ethylbenzene	4.2	U
95-47-6	o-xylene	4.2	U
179601-23-1	m,p-Xylene	4.2	U
100-42-5	Styrene	4.2	U
75-25-2	Bromoform	4.2	U
98-82-8	Isopropylbenzene	4.2	U
79-34-5	1,1,2,2-Tetrachloroethane	4.2	U
541-73-1	1,3-Dichlorobenzene	4.2	U
106-46-7	1,4-Dichlorobenzene	4.2	U
95-50-1	1,2-Dichlorobenzene	4.2	U
96-12-8	1,2-Dibromo-3-chloropropane	4.2	U
120-82-1	1,2,4-trichlorobenzene	4.2	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ5

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 7.07 (g/mL): g
Solids : 85.1
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-21
Lab File ID : VT010668.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	4.2	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ5

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-21
Sample wt/vol : 7.07 (g/mL): g
Lab File ID : VT010668.D
% Solids : 85.1
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ7

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 6.46 (g/mL): g
Solids : 84.5
C Column : DB-624UI ID : 0.18 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : 100 (µL)
eated Purge : (Y / N) N
urge Volume : 0 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : MED
Lab Sample ID : G2759-23
Lab File ID : VU002048.D
Date Received : 06/24/2015
Date Extracted : _____
Date Analyzed : 06/30/2015
Extract Volume : 5000 (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	300	U
74-87-3	Chloromethane	300	U
75-01-4	Vinyl chloride	300	U
74-83-9	Bromomethane	300	U
75-00-3	Chloroethane	300	U
75-69-4	Trichlorofluoromethane	300	U
75-35-4	1,1-Dichloroethene	300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	300	U
67-64-1	Acetone	600	U
75-15-0	Carbon disulfide	300	U
79-20-9	Methyl Acetate	300	U
75-09-2	Methylene chloride	300	U
156-60-5	trans-1,2-Dichloroethene	300	U
1634-04-4	Methyl tert-butyl Ether	300	U
75-34-3	1,1-Dichloroethane	300	U
156-59-2	cis-1,2-Dichloroethene	300	U
78-93-3	2-Butanone	600	U
74-97-5	Bromochloromethane	300	U
67-66-3	Chloroform	300	U
71-55-6	1,1,1-Trichloroethane	300	U
110-82-7	Cyclohexane	300	U
56-23-5	Carbon tetrachloride	300	U
71-43-2	Benzene	300	U
107-06-2	1,2-Dichloroethane	300	U
79-01-6	Trichloroethene	300	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ7

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : MED
Matrix : Soil
Lab Sample ID : G2759-23
Sample wt/vol : 6.46 (g/mL): g
Lab File ID : VU002048.D
% Solids : 84.5
Date Received : 06/24/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : 5000 (µL)
Soil Aliquot (VOA) : 100 (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 0 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	300	U
78-87-5	1,2-Dichloropropane	300	U
75-27-4	Bromodichloromethane	300	U
10061-01-5	cis-1,3-Dichloropropene	300	U
108-10-1	4-Methyl-2-pentanone	600	U
108-88-3	Toluene	300	U
10061-02-6	trans-1,3-Dichloropropene	300	U
79-00-5	1,1,2-Trichloroethane	300	U
127-18-4	Tetrachloroethene	300	U
591-78-6	2-Hexanone	600	U
124-48-1	Dibromochloromethane	300	U
106-93-4	1,2-Dibromoethane	300	U
108-90-7	Chlorobenzene	300	U
100-41-4	Ethylbenzene	300	U
95-47-6	o-xylene	300	U
179601-23-1	m,p-Xylene	300	U
100-42-5	Styrene	300	U
75-25-2	Bromoform	300	U
98-82-8	Isopropylbenzene	300	U
79-34-5	1,1,2,2-Tetrachloroethane	300	U
541-73-1	1,3-Dichlorobenzene	300	U
106-46-7	1,4-Dichlorobenzene	300	U
95-50-1	1,2-Dichlorobenzene	300	U
96-12-8	1,2-Dibromo-3-chloropropane	300	U
120-82-1	1,2,4-trichlorobenzene	300	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ7

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 6.46 (g/mL): g
Solids : 84.5
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : 100 (µL)
eated Purge : (Y / N) N
urge Volume : 0 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : MED
Lab Sample ID : G2759-23
Lab File ID : VU002048.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : 5000 (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	300	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ7

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : MED
Matrix : Soil
Lab Sample ID : G2759-23
Sample wt/vol : 6.46 (g/mL): g
Lab File ID : VU002048.D
% Solids : 84.5
Date Received : 06/24/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/30/2015
Soil Aliquot (VOA) : 100 (µL)
Extract Volume : 5000 (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 0 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK05

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : VOA
Matrix : Soil
Sample wt/vol : 5.0 (g/mL): g
% Solids : 100
GC Column : RXI-624 ID : 0.25 (mm)
GC Column : _____ ID : _____ (mm)
Extract Concentrated : (Y / N) _____
Soil Aliquot (VOA) : _____ (µL)
Heated Purge : (Y / N) Y
Purge Volume : 10 (mL)
Cleanup Types : _____
Concentration Units (µg/L, mg/L, µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : LOW
Lab Sample ID : VT0626SBL01
Lab File ID : VT010642.D
Date Received : _____
Date Extracted : _____
Date Analyzed : 06/26/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK05

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0626SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010642.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK05

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : LOW
Lab Sample ID : VT0626SBL01
Lab File ID : VT010642.D
Date Received : _____
Date Extracted : _____
Date Analyzed : 06/26/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK05

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0626SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010642.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/26/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	7.3	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK06

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : LOW
Lab Sample ID : VT0627SBL01
Lab File ID : VT010660.D
Date Received : _____
Date Extracted : _____
Date Analyzed : 06/27/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK06

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0627SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010660.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK06

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : VT0627SBL01
Lab File ID : VT010660.D
Date Received :
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK06

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0627SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010660.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/27/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK08

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : LOW
Lab Sample ID : VT0701SBL01
Lab File ID : VT010682.D
Date Received : _____
Date Extracted : _____
Date Analyzed : 07/01/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK08

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0701SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010682.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK08

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : VT0701SBL01
Lab File ID : VT010682.D
Date Received :
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK08

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0701SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010682.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 07/01/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK19

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : 100 (µL)
eated Purge : (Y / N) N
urge Volume : 0 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : MED
Lab Sample ID : VU0630MBL01
Lab File ID : VU002039.D
Date Received :
Date Extracted :
Date Analyzed : 06/30/2015
Extract Volume : 5000 (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl Acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl Ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK19

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : MED
Matrix : Soil
Lab Sample ID : VU0630MBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VU002039.D
% Solids : 100
Date Received :
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/30/2015
Extract Concentrated : (Y / N)
Extract Volume : 5000 (µL)
Soil Aliquot (VOA) : 100 (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 0 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
95-47-6	o-xylene	250	U
179601-23-1	m,p-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-trichlorobenzene	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK19

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : DB-624UI ID : 0.18 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : 100 (µL)
eated Purge : (Y / N) N
urge Volume : 0 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : MED
Lab Sample ID : VU0630MBL01
Lab File ID : VU002039.D
Date Received : _____
Date Extracted : _____
Date Analyzed : 06/30/2015
Extract Volume : 5000 (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK19

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : MED
Matrix : Soil
Lab Sample ID : VU0630MBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VU002039.D
% Solids : 100
Date Received :
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 06/30/2015
Soil Aliquot (VOA) : 100 (µL)
Extract Volume : 5000 (µL)
Heated Purge : (Y / N) N
Extraction Type :
Purge Volume : 0 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK02

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : VOA
Matrix : Soil
Sample wt/vol : 5.0 (g/mL): g
% Solids : 100
GC Column : RXI-624 ID : 0.25 (mm)
GC Column : _____ ID : _____ (mm)
Extract Concentrated : (Y / N) _____
Soil Aliquot (VOA) : _____ (µL)
Heated Purge : (Y / N) Y
Purge Volume : 10 (mL)
Cleanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-26
Lab File ID : VT010683.D
Date Received : 06/24/2015
Date Extracted : _____
Date Analyzed : 07/01/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-26
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010683.D
% Solids : 100
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK02

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated :(Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TG4
Level : LOW
Lab Sample ID : G2759-26
Lab File ID : VT010683.D
Date Received : 06/24/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TG4
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2759-26
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010683.D
% Solids : 100
Date Received : 06/24/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 07/01/2015
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) Y
Extraction Type :
Purge Volume : 10 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2TG4 CERCLIS No: IN N000516959

Case No: 45411 Site Name/Location: Bean Blossom/Patricksburg

Contractor or EPA Lab: ChemTech Data User: _____

No. of Samples: 20 Date Sampled or Date Received: 16 July 2015

Have Chain-of-Custody records been received? Yes X No _____
Have traffic reports or packing lists been received? Yes X No _____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes _____ No _____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____
_____ _____ _____ _____

Are basic data forms in? Yes X No _____
No of samples claimed: 20 No. of samples received: _____

Received by: PatAJoerner Date: 14 July 2015

Received by LSSS: PatAJoerner Date 22 July 2015

Review started: August 12, 2015 Reviewer Signature: Allison C Harvey

Total time spent on review: 24.0 hrs Date review completed: August 18, 2015

Copied by: A. C. Harvey Date: August 28, 2015

Mailed to user by: PatAJoerner Date: 28 Aug 2015

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] T if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] T if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] T if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] T if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Date: _____

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	**Conc ug/Kg**	DMC Spike	% Rec	QC Limits	
E2TH3MSD												
Vinyl chloride-d3	295011	250	862007	0.37	5.5	1	0.82	**51.31**	50	102.6	30-150	
Chloroethane-d5	235010	250	862007	0.248	5.5	1	0.82	**60.98**	50	122.0	30-150	
1,1-Dichloroethene-d2	620418	250	862007	0.681	5.5	1	0.82	**58.62**	50	117.2	45-110	
2-Butanone-d5	93203	250	862007	0.075	5.5	1	0.82	**79.96**	100	80.0	20-135	
Chloroform-d	436946	250	862007	0.54	5.5	1	0.82	**52.07**	50	104.1	40-150	
1,2-Dichloroethane-d4	256475	250	862007	0.289	5.5	1	0.82	**57.10**	50	114.2	70-130	
Benzene-d6	1014489	250	775306	1.395	5.5	1	0.82	**52.03**	50	104.1	20-135	
1,2-Dichloropropane-d6	279705	250	775306	0.388	5.5	1	0.82	**51.57**	50	103.1	70-120	
Toluene-d8	876981	250	775306	1.252	5.5	1	0.82	**50.11**	50	100.2	30-130	
trans-1,3-Dichloropropene-d4	51104	250	775306	0.08	5.5	1	0.82	**45.70**	50	91.4	30-135	
2-Hexanone-d5	79013	250	775306	0.067	5.5	1	0.82	**84.37**	100	84.4	20-135	
1,1,2,2-Tetrachloroethane-d2	180998	250	775306	0.299	5.5	1	0.82	**43.31**	50	86.6	45-120	
1,2-Dichlorobenzene-d4	346120	250	379483	0.834	5.5	1	0.82	**60.66**	50	121.3	75-120	*
1,1-Dichloroethene	392567	250	862007	0.374	5.5	1	0.82	**67.54**	55.5	121.7	59-172	
Benzene	1473467	250	775306	1.602	5.5	1	0.82	**65.80**	55.5	118.6	66-142	
Trichloroethene	340013	250	775306	0.381	5.5	1	0.82	**63.85**	55.5	115.0	62-137	
Toluene	1455769	250	775306	1.643	5.5	1	0.82	**63.39**	55.5	114.2	59-139	
Chlorobenzene	972813	250	775306	1.063	5.5	1	0.82	**65.47**	55.5	118.0	60-133	

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	**Conc ug/Kg**	DMC Spike	% Rec	QC Limits	
E2TH3MS												
Vinyl chloride-d3	294011	250	881042	0.37	5.7	1	0.82	**48.36**	50	96.7	30-150	
Chloroethane-d5	227781	250	881042	0.248	5.7	1	0.82	**55.90**	50	111.8	30-150	
1,1-Dichloroethene-d2	696313	250	881042	0.681	5.7	1	0.82	**62.23**	50	124.5	45-110	*
2-Butanone-d5	117019	250	881042	0.075	5.7	1	0.82	**94.95**	100	95.0	20-135	
Chloroform-d	435980	250	881042	0.54	5.7	1	0.82	**49.13**	50	98.3	40-150	
1,2-Dichloroethane-d4	256119	250	881042	0.289	5.7	1	0.82	**53.93**	50	107.9	70-130	
Benzene-d6	973354	250	758367	1.395	5.7	1	0.82	**49.33**	50	98.7	20-135	
1,2-Dichloropropane-d6	283895	250	758367	0.388	5.7	1	0.82	**51.73**	50	103.5	70-120	
Toluene-d8	877381	250	758367	1.252	5.7	1	0.82	**49.55**	50	99.1	30-130	
trans-1,3-Dichloropropene-d4	54613	250	758367	0.08	5.7	1	0.82	**48.27**	50	96.5	30-135	
2-Hexanone-d5	101507	250	758367	0.067	5.7	1	0.82	**107.12**	100	107.1	20-135	
1,1,2,2-Tetrachloroethane-d2	208854	250	758367	0.299	5.7	1	0.82	**49.39**	50	98.8	45-120	
1,2-Dichlorobenzene-d4	361357	250	407026	0.834	5.7	1	0.82	**57.08**	50	114.2	75-120	
1,1-Dichloroethene	446142	250	881042	0.374	5.7	1	0.82	**72.60**	53.6	135.4	59-172	
Benzene	1417531	250	758367	1.602	5.7	1	0.82	**62.56**	53.6	116.7	66-142	
Trichloroethene	342861	250	758367	0.381	5.7	1	0.82	**63.62**	53.6	118.7	62-137	
Toluene	1462190	250	758367	1.643	5.7	1	0.82	**62.92**	53.6	117.4	59-139	
Chlorobenzene	931049	250	758367	1.063	5.7	1	0.82	**61.93**	53.6	115.5	60-133	

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	**Conc ug/Kg**	DMC Spike	% Rec	QC Limits
VHBLK02											
Vinyl chloride-d3	267539	250	839853	0.37	5	1	1.00	**43.05**	50	86.1	30-150
Chloroethane-d5	215122	250	839853	0.248	5	1	1.00	**51.64**	50	103.3	30-150
1,1-Dichloroethene-d2	400667	250	839853	0.681	5	1	1.00	**35.03**	50	70.1	45-110
2-Butanone-d5	113430	250	839853	0.075	5	1	1.00	**90.04**	100	90.0	20-135
Chloroform-d	395670	250	839853	0.54	5	1	1.00	**43.62**	50	87.2	40-150
1,2-Dichloroethane-d4	234451	250	839853	0.289	5	1	1.00	**48.30**	50	96.6	70-130
Benzene-d6	879233	250	722017	1.395	5	1	1.00	**43.65**	50	87.3	20-135
1,2-Dichloropropane-d6	245432	250	722017	0.388	5	1	1.00	**43.80**	50	87.6	70-120
Toluene-d8	780248	250	722017	1.252	5	1	1.00	**43.16**	50	86.3	30-130
trans-1,3-Dichloropropene-d4	47360	250	722017	0.08	5	1	1.00	**41.00**	50	82.0	30-135
2-Hexanone-d5	93158	250	722017	0.067	5	1	1.00	**96.29**	100	96.3	20-135
1,1,2,2-Tetrachloroethane-d2	188938	250	722017	0.299	5	1	1.00	**43.76**	50	87.5	45-120
1,2-Dichlorobenzene-d4	303430	250	366330	0.834	5	1	1.00	**49.66**	50	99.3	75-120

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	**Conc ug/Kg**	DMC Spike	% Rec	QC Limits
VBLK08											
Vinyl chloride-d3	272786	250	879887	0.37	5	1	1.00	**41.90**	50	83.8	30-150
Chloroethane-d5	216793	250	879887	0.248	5	1	1.00	**49.67**	50	99.3	30-150
1,1-Dichloroethene-d2	391487	250	879887	0.681	5	1	1.00	**32.67**	50	65.3	45-110
2-Butanone-d5	113970	250	879887	0.075	5	1	1.00	**86.35**	100	86.4	20-135
Chloroform-d	394059	250	879887	0.54	5	1	1.00	**41.47**	50	82.9	40-150
1,2-Dichloroethane-d4	231878	250	879887	0.289	5	1	1.00	**45.59**	50	91.2	70-130
Benzene-d6	877270	250	726013	1.395	5	1	1.00	**43.31**	50	86.6	20-135
1,2-Dichloropropane-d6	241720	250	726013	0.388	5	1	1.00	**42.90**	50	85.8	70-120
Toluene-d8	780002	250	726013	1.252	5	1	1.00	**42.91**	50	85.8	30-130
trans-1,3-Dichloropropene-d4	45889	250	726013	0.08	5	1	1.00	**39.50**	50	79.0	30-135
2-Hexanone-d5	87325	250	726013	0.067	5	1	1.00	**89.76**	100	89.8	20-135
1,1,2,2-Tetrachloroethane-d2	180022	250	726013	0.299	5	1	1.00	**41.46**	50	82.9	45-120
1,2-Dichlorobenzene-d4	283876	250	368569	0.834	5	1	1.00	**46.18**	50	92.4	75-120
VBLK19											
Vinyl chloride-d3	215780	250	608645	0.415	5	1	1.00	**42.71**	50	85.4	30-150
Chloroethane-d5	139386	250	608645	0.305	5	1	1.00	**37.54**	50	75.1	30-150
1,1-Dichloroethene-d2	287021	250	608645	0.787	5	1	1.00	**29.96**	50	59.9	45-110
2-Butanone-d5	207624	250	608645	0.35	5	1	1.00	**48.73**	100	48.7	20-135
Chloroform-d	343975	250	608645	0.641	5	1	1.00	**44.08**	50	88.2	40-150
1,2-Dichloroethane-d4	267485	250	608645	0.557	5	1	1.00	**39.45**	50	78.9	70-130
Benzene-d6	728707	250	595393	1.47	5	1	1.00	**41.63**	50	83.3	20-135
1,2-Dichloropropane-d6	257654	250	595393	0.544	5	1	1.00	**39.77**	50	79.5	70-120
Toluene-d8	615847	250	595393	1.334	5	1	1.00	**38.77**	50	77.5	30-130
trans-1,3-Dichloropropene-d4	55379	250	595393	0.124	5	1	1.00	**37.51**	50	75.0	30-135
2-Hexanone-d5	208349	250	595393	0.251	5	1	1.00	**69.71**	100	69.7	20-135
1,1,2,2-Tetrachloroethane-d2	319198	250	595393	0.698	5	1	1.00	**38.40**	50	76.8	45-120
1,2-Dichlorobenzene-d4	218056	250	237652	0.981	5	1	1.00	**46.77**	50	93.5	75-120

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	**Conc ug/Kg**	DMC Spike	% Rec	QC Limits
VBLK05											
Vinyl chloride-d3	287920	250	823468	0.37	5	1	1.00	**47.25**	50	94.5	30-150
Chloroethane-d5	225119	250	823468	0.248	5	1	1.00	**55.12**	50	110.2	30-150
1,1-Dichloroethene-d2	395763	250	823468	0.681	5	1	1.00	**35.29**	50	70.6	45-110
2-Butanone-d5	99914	250	823468	0.075	5	1	1.00	**80.89**	100	80.9	20-135
Chloroform-d	415611	250	823468	0.54	5	1	1.00	**46.73**	50	93.5	40-150
1,2-Dichloroethane-d4	230814	250	823468	0.289	5	1	1.00	**48.49**	50	97.0	70-130
Benzene-d6	910881	250	689777	1.395	5	1	1.00	**47.33**	50	94.7	20-135
1,2-Dichloropropane-d6	257359	250	689777	0.388	5	1	1.00	**48.08**	50	96.2	70-120
Toluene-d8	829803	250	689777	1.252	5	1	1.00	**48.04**	50	96.1	30-130
trans-1,3-Dichloropropene-d4	48273	250	689777	0.08	5	1	1.00	**43.74**	50	87.5	30-135
2-Hexanone-d5	80300	250	689777	0.067	5	1	1.00	**86.88**	100	86.9	20-135
1,1,2,2-Tetrachloroethane-d2	173233	250	689777	0.299	5	1	1.00	**42.00**	50	84.0	45-120
1,2-Dichlorobenzene-d4	291071	250	348254	0.834	5	1	1.00	**50.11**	50	100.2	75-120
VBLK06											
Vinyl chloride-d3	291281	250	1020132	0.37	5	1	1.00	**38.59**	50	77.2	30-150
Chloroethane-d5	232923	250	1020132	0.248	5	1	1.00	**46.03**	50	92.1	30-150
1,1-Dichloroethene-d2	450936	250	1020132	0.681	5	1	1.00	**32.45**	50	64.9	45-110
2-Butanone-d5	132678	250	1020132	0.075	5	1	1.00	**86.71**	100	86.7	20-135
Chloroform-d	508921	250	1020132	0.54	5	1	1.00	**46.19**	50	92.4	40-150
1,2-Dichloroethane-d4	287890	250	1020132	0.289	5	1	1.00	**48.83**	50	97.7	70-130
Benzene-d6	1084733	250	874506	1.395	5	1	1.00	**44.46**	50	88.9	20-135
1,2-Dichloropropane-d6	320842	250	874506	0.388	5	1	1.00	**47.28**	50	94.6	70-120
Toluene-d8	1009960	250	874506	1.252	5	1	1.00	**46.12**	50	92.2	30-130
trans-1,3-Dichloropropene-d4	57881	250	874506	0.08	5	1	1.00	**41.37**	50	82.7	30-135
2-Hexanone-d5	115960	250	874506	0.067	5	1	1.00	**98.96**	100	99.0	20-135
1,1,2,2-Tetrachloroethane-d2	241828	250	874506	0.299	5	1	1.00	**46.24**	50	92.5	45-120
1,2-Dichlorobenzene-d4	361564	250	429668	0.834	5	1	1.00	**50.45**	50	100.9	75-120

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	**Conc ug/Kg**	DMC Spike	% Rec	QC Limits
E2TJ5											
Vinyl chloride-d3	296314	250	829178	0.37	7.1	1	0.85	**40.13**	50	80.3	30-150
Chloroethane-d5	234641	250	829178	0.248	7.1	1	0.85	**47.41**	50	94.8	30-150
1,1-Dichloroethene-d2	480728	250	829178	0.681	7.1	1	0.85	**35.37**	50	70.7	45-110
2-Butanone-d5	133519	250	829178	0.075	7.1	1	0.85	**89.21**	100	89.2	20-135
Chloroform-d	486431	250	829178	0.54	7.1	1	0.85	**45.14**	50	90.3	40-150
1,2-Dichloroethane-d4	257869	250	829178	0.289	7.1	1	0.85	**44.71**	50	89.4	70-130
Benzene-d6	945496	250	700555	1.395	7.1	1	0.85	**40.20**	50	80.4	20-135
1,2-Dichloropropane-d6	271432	250	700555	0.388	7.1	1	0.85	**41.49**	50	83.0	70-120
Toluene-d8	844480	250	700555	1.252	7.1	1	0.85	**40.01**	50	80.0	30-130
trans-1,3-Dichloropropene-d4	51578	250	700555	0.08	7.1	1	0.85	**38.24**	50	76.5	30-135
2-Hexanone-d5	95746	250	700555	0.067	7.1	1	0.85	**84.76**	100	84.8	20-135
1,1,2,2-Tetrachloroethane-d2	205413	250	700555	0.299	7.1	1	0.85	**40.75**	50	81.5	45-120
1,2-Dichlorobenzene-d4	326801	250	375390	0.834	7.1	1	0.85	**43.37**	50	86.7	75-120
E2TJ7											
Vinyl chloride-d3	215794	250	556192	0.415	6.5	1	0.85	**42.82**	50	85.6	30-150
Chloroethane-d5	88617	250	556192	0.305	6.5	1	0.85	**23.92**	50	47.8	30-150
1,1-Dichloroethene-d2	297917	250	556192	0.787	6.5	1	0.85	**31.17**	50	62.3	45-110
2-Butanone-d5	163056	250	556192	0.35	6.5	1	0.85	**38.36**	100	38.4	20-135
Chloroform-d	305084	250	556192	0.641	6.5	1	0.85	**39.19**	50	78.4	40-150
1,2-Dichloroethane-d4	285240	250	556192	0.557	6.5	1	0.85	**42.17**	50	84.3	70-130
Benzene-d6	784618	250	546622	1.47	6.5	1	0.85	**44.72**	50	89.4	20-135
1,2-Dichloropropane-d6	267545	250	546622	0.544	6.5	1	0.85	**41.21**	50	82.4	70-120
Toluene-d8	650836	250	546622	1.334	6.5	1	0.85	**40.88**	50	81.8	30-130
trans-1,3-Dichloropropene-d4	55730	250	546622	0.124	6.5	1	0.85	**37.66**	50	75.3	30-135
2-Hexanone-d5	210035	250	546622	0.251	6.5	1	0.85	**70.11**	100	70.1	20-135
1,1,2,2-Tetrachloroethane-d2	321966	250	546622	0.698	6.5	1	0.85	**38.65**	50	77.3	45-120
1,2-Dichlorobenzene-d4	235138	250	226992	0.981	6.5	1	0.85	**48.36**	50	96.7	75-120

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	Conc ug/Kg	DMC Spike	% Rec	QC Limits
E2TJ3											
Vinyl chloride-d3	309041	250	791002	0.37	6.6	1	0.93	**42.76**	50	85.5	30-150
Chloroethane-d5	248716	250	791002	0.248	6.6	1	0.93	**51.34**	50	102.7	30-150
1,1-Dichloroethene-d2	458279	250	791002	0.681	6.6	1	0.93	**34.45**	50	68.9	45-110
2-Butanone-d5	96040	250	791002	0.075	6.6	1	0.93	**65.55**	100	65.6	20-135
Chloroform-d	438385	250	791002	0.54	6.6	1	0.93	**41.56**	50	83.1	40-150
1,2-Dichloroethane-d4	239188	250	791002	0.289	6.6	1	0.93	**42.37**	50	84.7	70-130
Benzene-d6	966665	250	608796	1.395	6.6	1	0.93	**46.09**	50	92.2	20-135
1,2-Dichloropropane-d6	268492	250	608796	0.388	6.6	1	0.93	**46.03**	50	92.1	70-120
Toluene-d8	875539	250	608796	1.252	6.6	1	0.93	**46.51**	50	93.0	30-130
trans-1,3-Dichloropropene-d4	49760	250	608796	0.08	6.6	1	0.93	**41.37**	50	82.7	30-135
2-Hexanone-d5	82760	250	608796	0.067	6.6	1	0.93	**82.16**	100	82.2	20-135
1,1,2,2-Tetrachloroethane-d2	176673	250	608796	0.299	6.6	1	0.93	**39.30**	50	78.6	45-120
1,2-Dichlorobenzene-d4	306279	250	252376	0.834	6.6	1	0.93	**58.92**	50	117.8	75-120
Acetone	9346	250	791002	0.82	6.6	1	0.93	**0.58**			
Methylene chloride	22293	250	791002	0.346	6.6	1	0.93	**3.30**			
Tetrachloroethene	1255707	250	608796	0.347	6.6	1	0.93	**240.70 E**			
E2TJ3ME											
Vinyl chloride-d3	219267	250	543235	0.415	6.7	1	0.93	**38.97**	50	77.9	30-150
Chloroethane-d5	85223	250	543235	0.305	6.7	1	0.93	**20.61**	50	41.2	30-150
1,1-Dichloroethene-d2	296966	250	543235	0.787	6.7	1	0.93	**27.83**	50	55.7	45-110
2-Butanone-d5	238735	250	543235	0.35	6.7	1	0.93	**50.31**	100	50.3	20-135
Chloroform-d	304626	250	543235	0.641	6.7	1	0.93	**35.05**	50	70.1	40-150
1,2-Dichloroethane-d4	291037	250	543235	0.557	6.7	1	0.93	**38.54**	50	77.1	70-130
Benzene-d6	795176	250	536772	1.47	6.7	1	0.93	**40.38**	50	80.8	20-135
1,2-Dichloropropane-d6	275514	250	536772	0.544	6.7	1	0.93	**37.81**	50	75.6	70-120
Toluene-d8	661212	250	536772	1.334	6.7	1	0.93	**37.00**	50	74.0	30-130
trans-1,3-Dichloropropene-d4	57959	250	536772	0.124	6.7	1	0.93	**34.89**	50	69.8	30-135
2-Hexanone-d5	220746	250	536772	0.251	6.7	1	0.93	**65.65**	100	65.7	20-135
1,1,2,2-Tetrachloroethane-d2	332908	250	536772	0.698	6.7	1	0.93	**35.60**	50	71.2	45-120
1,2-Dichlorobenzene-d4	239322	250	220574	0.981	6.7	1	0.93	**44.32**	50	88.6	75-120
Tetrachloroethene	70022	250	536772	0.3	6.7	68	0.93	**1176.10**		Medium	

Case No.: 45411 SDG No.: E2TG4

Conc (ug/Kg)= $\frac{(Ax)(Is)(DF)}{(Ais)(RRF)(Ws)(D)}$

Ax = area of target compound
Ais = area of associated internal standard
Is = Amount of internal standard (ng)
RRFavg = Mean relative response factor from initial cal
Ws = Weight of sample extracted (g)
DF = Dilution factor
D = percent solids

	Ax area	Is ng	Ais area	RRFavg	Ws g	DF	D	**Conc ug/Kg**	DMC Spike	% Rec	QC Limits
E2TH9											
Vinyl chloride-d3	280078	250	825989	0.37	5.5	1	0.83	**50.43**	50	100.9	30-150
Chloroethane-d5	213029	250	825989	0.248	5.5	1	0.83	**57.23**	50	114.5	30-150
1,1-Dichloroethene-d2	441797	250	825989	0.681	5.5	1	0.83	**43.22**	50	86.4	45-110
2-Butanone-d5	102695	250	825989	0.075	5.5	1	0.83	**91.22**	100	91.2	20-135
Chloroform-d	423896	250	825989	0.54	5.5	1	0.83	**52.30**	50	104.6	40-150
1,2-Dichloroethane-d4	244202	250	825989	0.289	5.5	1	0.83	**56.30**	50	112.6	70-130
Benzene-d6	941524	250	694555	1.395	5.5	1	0.83	**53.47**	50	106.9	20-135
1,2-Dichloropropane-d6	263286	250	694555	0.388	5.5	1	0.83	**53.76**	50	107.5	70-120
Toluene-d8	841193	250	694555	1.252	5.5	1	0.83	**53.23**	50	106.5	30-130
trans-1,3-Dichloropropene-d4	48393	250	694555	0.08	5.5	1	0.83	**47.93**	50	95.9	30-135
2-Hexanone-d5	84966	250	694555	0.067	5.5	1	0.83	**100.48**	100	100.5	20-135
1,1,2,2-Tetrachloroethane-d2	181235	250	694555	0.299	5.5	1	0.83	**48.02**	50	96.0	45-120
1,2-Dichlorobenzene-d4	297548	250	348065	0.834	5.5	1	0.83	**56.41**	50	112.8	75-120
Acetone	11605	250	825989	0.082	5.5	1	0.83	**9.43**			
E2TH3											
Vinyl chloride-d3	273400	250	868580	0.37	5.9	1	0.82	**43.84**	50	87.7	30-150
Chloroethane-d5	218983	250	868580	0.248	5.9	1	0.82	**52.39**	50	104.8	30-150
1,1-Dichloroethene-d2	411419	250	868580	0.681	5.9	1	0.82	**35.85**	50	71.7	45-110
2-Butanone-d5	110575	250	868580	0.075	5.9	1	0.82	**87.48**	100	87.5	20-135
Chloroform-d	404773	250	868580	0.54	5.9	1	0.82	**44.48**	50	89.0	40-150
1,2-Dichloroethane-d4	241730	250	868580	0.289	5.9	1	0.82	**49.63**	50	99.3	70-130
Benzene-d6	895226	250	738282	1.395	5.9	1	0.82	**44.80**	50	89.6	20-135
1,2-Dichloropropane-d6	253912	250	738282	0.388	5.9	1	0.82	**45.68**	50	91.4	70-120
Toluene-d8	811330	250	738282	1.252	5.9	1	0.82	**45.24**	50	90.5	30-130
trans-1,3-Dichloropropene-d4	49373	250	738282	0.08	5.9	1	0.82	**43.08**	50	86.2	30-135
2-Hexanone-d5	94375	250	738282	0.067	5.9	1	0.82	**98.33**	100	98.3	20-135
1,1,2,2-Tetrachloroethane-d2	194236	250	738282	0.299	5.9	1	0.82	**45.35**	50	90.7	45-120
1,2-Dichlorobenzene-d4	305657	250	384848	0.834	5.9	1	0.82	**49.08**	50	98.2	75-120

ESAT Controlled Number: ESAT5.1.3.743 pj 28Aug 15

DATE: August 28, 2015

Indiana Dept of Environmental Management
ATTN: Mark Jaworski/Dan Chesterson
100 N. Senate Avenue – Room N1255
Indianapolis, IN 46804-2222

Site Name: **Bean Blossm/Patricksburg Water Co. (IN) – level 3 data validation**

Case	SDG	Samples	Lab	Matrix
45411	E2TH2	8	Chem	4-w;4s

Analysis: TVOA

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Joyner
Data Coordinator
ESAT Region 5 **TechLaw**

Controlled Document

ESAT5.1.5.547
ACH
8-28-2015

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 16 July 2015

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: IDEM
Email Address: mjaworsk@idem.in.gov

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

SITE Name: Bean Blossom/Patricksburg Water Company (IN)

Case No: 45411 MA No: N/A SDG No: E2TH2

Number and Type of Samples: 4 soils/ 4 waters (4 Trace volatiles/ 4 Low-Medium volatiles)

Sample Numbers: E2TH2, E2TH4, E2TH5, E2TH7, E2TJ1, E2TJ8, E2TJ9, E2TK2

Laboratory: CHEM Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case No: 45411
Site Name: Bean Blossom/Patricksburg Water Co. (IN)

SDG No: E2TH2
Laboratory: CHEM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Four (4) soil samples labeled E2TH5, E2TH7, E2TJ1 and E2TJ9 and four (4) preserved water samples labeled E2TH2, E2TH4, E2TJ8 and E2TK2 were shipped to Chemtech Consulting Group (CHEM) located in Mountainside, NJ. All samples were collected on June 24, 2015 and received on June 25, 2015 intact and properly cooled.

All samples were analyzed according to CLP SOW SOM02.2 and reviewed according to the August 2014 NFG for SOM02.2 (EPA-540-R-014-002).

No samples were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

No samples were identified as field blanks or field duplicates.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: August 28, 2015

Case No: 45411 SDG No: E2TH2
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

1. PRESERVATION AND HOLDING TIMES

No problems found.

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

No problems found.

3. INITIAL CALIBRATION

No problems found.

4. CONTINUING CALIBRATION

The following volatile soil samples are associated with an opening CCV with %Difference exceeding criteria. No detects were found. Nondetects are qualified as estimated UJ.

E2TH5, VBLK05, VBLK07, VHBLK02
Trichlorofluoromethane

The following volatile soil samples are associated with an opening and closing CCV with DMC RRF exceeding criteria. Detects are not qualified. Nondetects are not qualified.

E2TH5, E2TH7, E2TJ1, E2TJ9, VBLK05, VBLK06, VBLK07, VHBLK02
trans-1,3-Dichloropropene-d_4

5. BLANKS

No problems found.

6. DEUTERATED MONITORING COMPOUNDS / SURROGATES

The following trace volatile samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. No detects were found. Nondetects are not qualified.

E2TJ8
4-Methyl-2-pentanone, 2-Hexanone

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No samples were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

Case No: 45411 SDG No: E2TH2
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

8. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not required for Volatile analyses.

9. CLEANUP PROCEDURES

Not required for Volatile analyses.

10. LABORATORY CONTROL SAMPLE

Not required for Volatile analyses.

11. INTERNAL STANDARD

No problems found.

12. TARGET ANALYTE IDENTIFICATION

No problems found.

13. REPORTED CONTRACT QUANTITATION LIMIT

The %solids for all samples was greater than 30.0%; therefore detects and nondetects do not require any qualifications.

The following trace volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E2TH2
Cyclohexane, Benzene, Methylcyclohexane, Toluene, m,p-Xylene

E2TH4
Carbon disulfide, Bromodichloromethane, Tetrachloroethene, Ethylbenzene, o-Xylene

E2TJ8
Carbon disulfide, Benzene, Trichloroethene, Bromodichloromethane, Ethybenzene, o-Xylene, m,p-Xylene

E2TK2
Acetone, Methylene chloride, Tetrachloroethene

The following volatile soil samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Case No: 45411
Site Name: Bean Blossom/Patricksburg Water Co. (IN)

SDG No: E2TH2
Laboratory: CHEM

E2TH5
Acetone, Methylene chloride

E2TJ9
Tetrachloroethene

14. TENTATIVELY IDENTIFIED COMPOUNDS

Sample results are identified in the separate Data Validation Report titled 'Tentatively Identified Compounds'. The manually reviewed report is titled '45411.E2TH2.TIC.rtf'.

15. SYSTEM PERFORMANCE

No problems found.

16. FIELD QC SAMPLES

No samples were identified as field blanks or field duplicates.

17. OVERALL ASSESSMENT

EXES reports only one sample result per sample:

1) In instances where the sample was re-analyzed, EXES reports the results of the reanalysis over the original analysis.
2) In instances where the sample was diluted, EXES reports only the detect from the dilution with its associated dilution factor.

EXES reports only one value per analyte and only one Sample Summary Form for each sample. There are no separate Sample Summary Forms for the following samples:

E2TJ8DL

The following volatile samples have detects which exceed the instruments calibration range. The samples were diluted and re-analyzed. EXES includes only the final reported results with the associated dilution factor in the Sample Summary Report.

E2TJ8
Tetrachloroethene

Manual integrations were reviewed and found to be acceptable.

Per SOW SOM02.2 the RT windows for the internal standards are tightened from ± 0.50 minutes (30 seconds) to ±0.17 minutes (10 seconds). The Laboratory's Form VIII still reflect to old retention time windows. This noncompliance did not affect the acceptabiliy of this SDG.

Case No: 45411 SDG No: E2TH2
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

The soil DMC recoveries calculated by the Reviewer did not match the recoveries reported by the laboratory possibly because the recovery values were not corrected for sample sizes and percent moisture or the CCV RRF values were used instead of the 06/16/2015 ICAL values. Both sets of recoveries were within the QC limits; therefore detects and nondetects were not qualified.

Case No: 45411 SDG No: E2TH2
Site Name: Bean Blossom/Patricksburg Water Co. (IN) Laboratory: CHEM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: August 28, 2015

Sample Summary Report

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TH2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW6	pH:	Sample Date: 06/24/2015	Sample Time: 02:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5.5		ug/L	5.5		1.0	Yes	S3VE
Carbon disnlfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	2.1		ug/L	2.1		1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.12	J	ug/L	0.12	J	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.15	J	ug/L	0.15	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.13	J	ug/L	0.13	J	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.27	J	ug/L	0.27	J	1.0	Yes	S3VE
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-xylene	Target	0.13	J	ug/L	0.13	J	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC	1.6		ug/L	1.6		1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TH4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW3	pH:	Sample Date: 06/24/2015	Sample Time: 10:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	6.3		ug/L	6.3		1.0	Yes	S3VE
Carbon disulfide	Target	0.15	J	ug/L	0.15	J	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.66		ug/L	0.66		1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.75		ug/L	0.75		1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.7		ug/L	0.7		1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.13	J	ug/L	0.13	J	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	1.8		ug/L	1.8		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.15	J	ug/L	0.15	J	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.44	J	ug/L	0.44	J	1.0	Yes	S3VE
o-xylene	Target	0.29	J	ug/L	0.29	J	1.0	Yes	S3VE
m,p-xylene	Target	0.68		ug/L	0.68		1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC	11.4		ug/L	11.4		1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TH5	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS1	pH:	Sample Date: 06/24/2015	Sample Time: 09:25:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Chloromethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Bromomethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Chloroethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.3	UJ	ug/kg	5.3	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Acetone	Target	6.7	J	ug/kg	6.7	J	1.0	Yes	S3VE
Carbon disulfide	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Methylene chloride	Target	3.9	J	ug/kg	3.9	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
2-Butanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Chloroform	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Cyclohexane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Benzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Trichloroethene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Toluene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
2-Hexanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
o-xylene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Styrene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Bromoform	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5.3	U	ug/kg	5.3	U	1.0	Yes	S3VE
Carbonic acid, butyl ester octyl e	TIC	5.3	J	ug/kg	5.3	J	1.0	Yes	NV
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TH7	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS9	pH:	Sample Date: 06/24/2015	Sample Time: 11:20:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Chloromethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Vinyl chloride	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Bromomethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Chloroethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Acetone	Target	9.6	U	ug/kg	9.6	U	1.0	Yes	S3VE
Carbon disulfide	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Methyl Acetate	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Methylene chloride	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
2-Butanone	Target	9.6	U	ug/kg	9.6	U	1.0	Yes	S3VE
Bromochloromethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Chloroform	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Cyclohexane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Benzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Trichloroethene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Methylcyclohexane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Bromodichloromethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	9.6	U	ug/kg	9.6	U	1.0	Yes	S3VE
Toluene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Tetrachloroethene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
2-Hexanone	Target	9.6	U	ug/kg	9.6	U	1.0	Yes	S3VE
Dibromochloromethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Chlorobenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Ethylbenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
o-xylene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
m,p-Xylene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Styrene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Bromoform	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Isopropylbenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	4.8	U	ug/kg	4.8	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TJ1	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS2	pH:	Sample Date: 06/24/2015	Sample Time: 01:50:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Chloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Bromomethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Chloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Methylene chloride	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Chloroform	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Cyclohexane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Benzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Trichloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
o-xylene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Styrene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Bromoform	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5.1	U	ug/kg	5.1	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TJ8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW8	pH:	Sample Date: 06/24/2015	Sample Time: 12:15:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5.6		ug/L	5.6		1.0	Yes	S3VE
Carbon disulfide	Target	0.14	J	ug/L	0.14	J	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.51		ug/L	0.51		1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.48	J	ug/L	0.48	J	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.4	J	ug/L	0.4	J	1.0	Yes	S3VE
Methylcyclohexane	Target	0.62		ug/L	0.62		1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.14	J	ug/L	0.14	J	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	1.2		ug/L	1.2		1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	220		ug/L	220	D	100.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.33	J	ug/L	0.33	J	1.0	Yes	S3VE
o-xylene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE
m,p-xylene	Target	0.49	J	ug/L	0.49	J	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC	6.7		ug/L	6.7		1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TJ9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SS4	pH:	Sample Date: 06/24/2015	Sample Time: 11:10:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Bromomethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Acetone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Carbon disulfide	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methylene chloride	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
2-Butanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Bromochloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chloroform	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Cyclohexane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Benzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Trichloroethene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Toluene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	4	J	ug/kg	4	J	1.0	Yes	S3VE
2-Hexanone	Target	11	U	ug/kg	11	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
o-xylene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Styrene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Bromoform	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5.5	U	ug/kg	5.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: E2TK2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: GW17	pH:	Sample Date: 06/24/2015	Sample Time: 08:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	1.7	J	ug/L	1.7	J	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.2	J	ug/L	0.2	J	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.24	J	ug/L	0.24	J	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: VBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: VBLK04	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: VBLK05	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	UJ	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC	7.3		ug/kg	7.3		1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: VBLK06	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: VBLK07	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	UJ	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Vinyl chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromomethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Acetone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Carbon disulfide	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl Acetate	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylene chloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Butanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Bromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chloroform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Cyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Benzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Trichloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Toluene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
2-Hexanone	Target	5	U	ug/L	5	U	1.0	Yes	S3VE
Dibromochloromethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Chlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Ethylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
o-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
m,p-xylene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Styrene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Bromoform	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1;2,4-trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
1,2,3-Trichlorobenzene	Target	0.5	U	ug/L	0.5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/L			1.0	Yes	NV

Case No: 45411	Contract: EPW14030	SDG No: E2TH2	Lab Code: CHEM
Sample Number: VHBLK02	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Vinyl chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromomethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichlorofluoromethane	Target	5	UJ	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Acetone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Carbon disulfide	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl Acetate	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylene chloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
trans-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methyl tert-butyl Ether	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,2-Dichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Butanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Bromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chloroform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,1-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Cyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Carbon tetrachloride	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Benzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Trichloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Methylcyclohexane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromodichloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
cis-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Toluene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2-Trichloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Tetrachloroethene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	Yes	S3VE
Dibromochloromethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromoethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Chlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Ethylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
o-xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
m,p-Xylene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Styrene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Bromoform	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Isopropylbenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,1,2,2-Tetrachloroethane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,3-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,4-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2-Dibromo-3-chloropropane	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
1,2,4-trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE
Total Alkanes	TIC			ug/kg			1.0	Yes	NV
1,2,3-Trichlorobenzene	Target	5	U	ug/kg	5	U	1.0	Yes	S3VE

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = E2TH5** **Location = SS1** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
1000190-11-5	Carbonic acid, butyl ester octyl e	13.19	5.3	ug/kg	J
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = E2TH7** **Location = SS9** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics | Sample = E2TJ1 | Location = SS2 | Matrix = Soil | Level = LOW

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = E2TJ9** **Location = SS4** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Cbemtecb Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = VBLK05** **Location = null** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99	7.3	ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	**SDG: E2TH2**	**Contract: EPW14030**	**Submission Group Id: 30063163**
Lab Name: Chemtech Consulting Group	**Case: 45411**	**Client: EPA Region 5**	**SOW: SOM02.2**

Volatile Organics **Sample = VBLK06** **Location = null** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics | Sample = VBLK07 | Location = null | Matrix = Soil | Level = LOW

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Volatile Organics **Sample = VHBLK02** **Location = null** **Matrix = Soil** **Level = LOW**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/kg	

Data Validation Report

Tentatively Identified Compounds

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles | Sample = E2TH2 | Location = GW6 | Matrix = Water | Level = Trace

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99	1.6	ug/L	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TH4** **Location = GW3** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99	11.4	ug/L	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TJ8** **Location = GW8** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99	6.7	ug/L	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = E2TK2** **Location = GW17** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = VBLK01** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles **Sample = VBLK04** **Location = null** **Matrix = Water** **Level = Trace**

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Data Validation Report

Tentatively Identified Compounds

Mon, 20 Jul 2015 16:21:32

Lab Code: CHEM	SDG: E2TH2	Contract: EPW14030	Submission Group Id: 30063163
Lab Name: Chemtech Consulting Group	Case: 45411	Client: EPA Region 5	SOW: SOM02.2

Trace Volatiles | Sample = VHBLK01 | Location = null | Matrix = Water | Level = Trace

CAS Number	Analyte	Retention Time (min)	Result	Units	Lab Qualifier
E966796	Total Alkanes	99		ug/L	

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 16 July 2015

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Bean Blossom/Patricksburg Water Co. (IN)

CASE NUMBER: 45411 SDG NUMBER: E2TH2

Number and Type of Samples: 8 (4-water/4-soil) samples

Sample Numbers: E2TH2; E2TH4-H5/H7/E2TJ1/J8-J9/K2

Laboratory: ChemTech Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

JUL 16 2015

SDG COVER PAGE

ab Name: Chemtech Consulting Group Contract: EPW14030

ab Code: CHEM Cas No.: 45411 MA No. : SDG No.: E2TH2

OW No. : SOM02.2

PA Sample No.	Lab Sample ID	Analysis Method: Trace VOA	Low Med VOA	SVOA	SVOA SIM	PEST	ARO
E2TH2	G2784-01	X					
E2TH4	G2784-02	X					
E2TH5	G2784-03		X				
E2TH7	G2784-04		X				
E2TJ1	G2784-05		X				
E2TJ8	G2784-06	X					
E2TJ9	G2784-07		X				
E2TK2	G2784-08	X					
VHBLK01	G2784-09	X					
VHBLK02	G2784-10		X				

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative.Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee,as verified by the following signature.

Signature: Hildred U Reyes Name: Hildred U Reyes

Date: 7/14/15 Title: QA/QC Supervisor/DCO

SDG #: E2TH2

USEPA CLP COC (LAB COPY)
DateShipped: 6/24/2015
CarrierName: FedEx
AirbillNo: 801788265914

CHAIN OF CUSTODY RECORD

Case #: 45411
Cooler #: 3

No: 5-062415-143026-0003
Lab: Chemtech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
GW-0019	E2TH2	Water/ Nick Cooper	Grab	TVOA(21)	186350 (HCl) (3)	GW6	06/24/2015 02:00	
GW-0017	E2TH4	Water/ Nick Cooper	Grab	TVOA(21)	186342 (HCl) (3)	GW3	06/24/2015 10:00	
SS-0006	E2TH5	Soil/ Nick Cooper	Grab	PER_SOL(21), VOA(21)	186343 (None), 186344 (None) (4)	SS1	06/24/2015 09:25	
SS-0008	E2TH7	Soil/ Nick Cooper	Grab	PER_SOL(21), VOA(21)	186348 (None), 186349 (None) (4)	SS9	06/24/2015 11:20	
SS-0009	E2TJ1	Soil/ Nick Cooper	Grab	PER_SOL(21), VOA(21)	186351 (None), 186352 (None) (4)	SS2	06/24/2015 01:50	
GW-0018	E2TJ8	Water/ Nick Cooper	Grab	TVOA(21)	186345 (HCl) (3)	GW8	06/24/2015 12:15	
SS-0007	E2TJ9	Soil/ Nick Cooper	Grab	PER_SOL(21), VOA(21)	186346 (None), 186347 (None) (4)	SS4	06/24/2015 11:10	
GW-0016	E2TK2	Water/ Nick Cooper	Grab	TVOA(21)	186341 (HCl) (3)	GW17	06/24/2015 08:00	

Special Instructions: Please return cooler to IDEM

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #
43978, 43979

Analysis Key: TVOA=CLP Trace Volatiles, PER_SOL=Percent Solids (% Solids), VOA=Soil VOA

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Nick J. Cooper IDEM	6/24/15	GORGE NEGRON	6-25-15 930	4°C

CHEMTECH

SDG NARRATIVE

LAB NAME: CHEMTECH CONSULTING GROUP
CASE# 45411
SDG# E2TH2
CONTRACT# EPW14030
LAB CODE: CHEM
CHEMTECH PROJECT # G2784
MODIFICATION REF. NUMBER: N/A

Sample ID	EPA Sample ID	Site
G2784-01	E2TH2	
G2784-02	E2TH4	
G2784-03	E2TH5	
G2784-03	E2TH5	
G2784-04	E2TH7	
G2784-04	E2TH7	
G2784-05	E2TJ1	
G2784-05	E2TJ1	
G2784-06	E2TJ8	
G2784-06DL	E2TJ8DL	
G2784-07	E2TJ9	
G2784-07	E2TJ9	
G2784-08	E2TK2	

4 water and 4 soils samples were delivered to the laboratory intact on 06/24/2015.

Test requested on the Chain of Custody was Volatile Organic by Method SOM02.2.

Samples for Volatile Organic analyses were transferred unopened to the Volatile Laboratory.

The temperature of the samples was measured using an I R Gun. The samples temperature was 4 degrees Celsius.

Shipping Discrepancies and/or QC issues:

None

CHEMTECH

Trace Volatiles:

The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat# 121-1324UI. The Trap was supplied by OI Analytical, OI #10 Trap, OI Eclipse 4660 Concentrator. VOC-Low Level -15 was based on method SOM02.2_VOC.

Surrogate recoveries met the acceptable criteria except for the followings:

E2TJ8[2-Hexanone-d5- 138%].
As per method, up to 3 surrogates Up to 3 DMCs, therefore no corrective action was needed for above mention samples
Holding Times were met.
Instrument Performance Check met requirements.
Retention Times met requirements.
The Blank analysis did not indicated presence to possible lab contamination.
The Storage Blank did not indicate the presence of lab contamination
The initial Calibration met the requirements.
The Continuing Calibration met the requirements.
Sample E2TJ8 was diluted due to high concentrations
The sample E2TK2 was analyzed following the analysis E2TJ8 respectively .The sample E2TJ8 had concentration above calibration levels of compound Tetrachloroethene and Therefore, this sample was re-analyzed diluted, and the following sample E2TK2 had concentration of this compound is below CRQL, respectively therefore, No instrument blank was needed.

Calculation:

$$\text{Concentration in ug/L} = \frac{(Ax)\,(Is)\,(DF)}{(Ais)\,(\overline{RRF})\,(Vo)}$$

Where,
Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.

$\overline{RRF}$ = Mean Relative Response Factor from the initial calibration standard.
Vo = Total volume of water purged, in mL.
DF = Dilution Factor.

Low/Med Volatiles:

The analyses for Low /Med Volatile Organics(soil samples) sample was performed on instrument

CHEMTECH

MSVOA_T using GC column RXI-624SIL MS 30m 0.25mm 1.4um 872456 The Trap was supplied by OI Analytical, OI #130107 Trap , OI. The analysis of VOC-TCLVOA-10 was based on method SOM02.2_VOC.

The Holding Times were met for all analysis.
Surrogate recoveries met the acceptable criteria
Retention Times met requirements.
Internal Standard Areas met requirements.
The Blank analysis did not indicate the presence of lab contamination.
The Storage Blank did not indicate the presence of lab contamination
Initial Calibration met the requirements of Minimum RRF of all the compounds.
The Continuing Calibration met the requirements except VSTD02513 (Data File VT010641.D) for Trichlorofluoromethane (39.3 %).
As per method, the %D and % RSD of 2 compounds can be within 40%. Therefore no correction needed.
See **Manual Integration report** for the manual integration information at the end of the case Narrative.

Low Level Soil/Sediment Concentration Calculation:

$$\text{Concentration in ug/Kg (dry weight basis)} = \frac{(Ax)\,(Is)\,(DF)}{(Ais)\,(RRF)\,(Ws)\,(D)}$$

Where,

Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.

$\overline{RRF}$ = Mean Relative Response Factor from the heated purge of the initial calibration.

$$D = \frac{100 - \%\ \text{Moisture}}{100}$$

Ws = Weight of sample added to the purge tube, in g.
DF = Dilution Factor

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date: 7/14/15 Title: Document Control Officer

CHEMTECH

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
G2784-04	E2TH7	VT010661.D	VT062715	Methylene chloride	MMDadoda	6/29/2015 6:39:20 PM	Incorrect baseline
G2784-05	E2TJ1	VT010662.D	VT062715	Methylene chloride	MMDadoda	6/29/2015 6:39:25 PM	Incorrect baseline

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT061615	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTD2.501/ VSTD2.501	VT010595.D	Carbon disulfide	Feifei	6/17/2015 10:31:01 AM	MMDadoda	6/17/2015 12:14:52 PM	Peak Integrated by Software incorrectly
VSTD2.501/ VSTD2.501	VT010595.D	Methylene chloride	Feifei	6/17/2015 10:31:01 AM	MMDadoda	6/17/2015 12:14:52 PM	Peak Integrated by Software incorrectly
VSTD2.501/ VSTD2.501	VT010595.D	Trichlorofluoromethane	Feifei	6/17/2015 10:31:01 AM	MMDadoda	6/17/2015 12:14:52 PM	Peak Integrated by Software incorrectly
VSTD00502/ VSTD00502	VT010596.D	Carbon disulfide	Feifei	6/17/2015 10:31:04 AM	MMDadoda	6/17/2015 12:14:56 PM	Peak Integrated by Software incorrectly
VSTD00502/ VSTD00502	VT010596.D	Methylene chloride	Feifei	6/17/2015 10:31:04 AM	MMDadoda	6/17/2015 12:14:56 PM	Peak Integrated by Software incorrectly
VSTD02503/ VSTD02503	VT010597.D	Carbon disulfide	Feifei	6/17/2015 10:31:06 AM	MMDadoda	6/17/2015 12:15:01 PM	Peak Integrated by Software incorrectly
VSTD02503/ VSTD02503	VT010597.D	Methylene chloride	Feifei	6/17/2015 10:31:06 AM	MMDadoda	6/17/2015 12:15:01 PM	Peak Integrated by Software incorrectly
VSTD05004/ VSTD05004	VT010598.D	Carbon disulfide	Feifei	6/17/2015 10:31:08 AM	MMDadoda	6/17/2015 12:15:06 PM	Peak Integrated by Software incorrectly
VSTD05004/ VSTD05004	VT010598.D	Methylene chloride	Feifei	6/17/2015 10:31:08 AM	MMDadoda	6/17/2015 12:15:06 PM	Peak Integrated by Software incorrectly
VSTD05004/ VSTD05004	VT010598.D	Trichlorofluoromethane	Feifei	6/17/2015 10:31:08 AM	MMDadoda	6/17/2015 12:15:06 PM	Peak Integrated by Software incorrectly
VSTD10005/ VSTD10005	VT010599.D	Carbon disulfide	Feifei	6/17/2015 10:43:43 AM	MMDadoda	6/17/2015 12:15:12 PM	Peak Integrated by Software incorrectly
VSTD10005/ VSTD10005	VT010599.D	Methylene chloride	Feifei	6/17/2015 10:43:43 AM	MMDadoda	6/17/2015 12:15:12 PM	Peak Integrated by Software incorrectly
VSTD10005/ VSTD10005	VT010599.D	Trichlorofluoromethane	Feifei	6/17/2015 10:43:43 AM	MMDadoda	6/17/2015 12:15:12 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT061615	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
G2610-06/ X1W52	VT010601.D	Carbon disulfide	Feifei	6/17/2015 10:43:45 AM	MMDadoda	6/17/2015 12:15:16 PM	Peak Integrated by Software incorrectly
G2610-06/ X1W52	VT010601.D	Methylene chloride	Feifei	6/17/2015 10:43:45 AM	MMDadoda	6/17/2015 12:15:16 PM	Peak Integrated by Software incorrectly
G2661-03/ D98Q4	VT010603.D	Trichlorofluoromethane	Feifei	6/17/2015 10:43:47 AM	MMDadoda	6/17/2015 12:15:21 PM	Peak Integrated by Software incorrectly
G2661-07/ D98Q7	VT010606.D	Methylene chloride	Feifei	6/17/2015 10:43:48 AM	MMDadoda	6/17/2015 12:15:28 PM	Peak Integrated by Software incorrectly
G2661-08/ D98Q8	VT010607.D	Methylene chloride	Feifei	6/17/2015 10:43:49 AM	MMDadoda	6/17/2015 12:15:32 PM	Peak Integrated by Software incorrectly
G2661-09/ VHBLK01	VT010608.D	Methylene chloride	Feifei	6/17/2015 10:43:51 AM	MMDadoda	6/17/2015 12:15:36 PM	Peak Integrated by Software incorrectly
VSTDCCC025E C/ VSTD02506	VT010609.D	Carbon disulfide	Feifei	6/17/2015 10:43:53 AM	MMDadoda	6/17/2015 12:15:41 PM	Peak Integrated by Software incorrectly
VSTDCCC025E C/ VSTD02506	VT010609.D	Methylene chloride	Feifei	6/17/2015 10:43:53 AM	MMDadoda	6/17/2015 12:15:41 PM	Peak Integrated by Software incorrectly
VSTDCCC025E C/ VSTD02506	VT010609.D	Trichlorofluoromethane	Feifei	6/17/2015 10:43:53 AM	MMDadoda	6/17/2015 12:15:41 PM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT062615	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC025/ VSTD02513	VT010641.D	Carbon disulfide	sam	6/27/2015 11:03:25 AM	mohammad	6/27/2015 11:41:46 AM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02513	VT010641.D	Methylene chloride	sam	6/27/2015 11:03:25 AM	mohammad	6/27/2015 11:41:46 AM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02513	VT010641.D	Trichlorofluoromethane	sam	6/27/2015 11:03:25 AM	mohammad	6/27/2015 11:41:46 AM	Peak Integrated by Software incorrectly
G2759-16MS/ E2TH3MS	VT010654.D	Methylene chloride	sam	[illegible]	[illegible]nad	6/27/2015 11:41:51 AM	Peak Integrated by Software incorrectly
G2759-17MSD/ E2TH3MSD	VT010655.D	Methylene chloride	sam	6/27/2015 11:03:35 AM	mohammad	6/27/2015 11:41:56 AM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02514	VT010657.D	Carbon disulfide	sam	6/27/2015 11:03:40 AM	mohammad	6/27/2015 11:42:01 AM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02514	VT010657.D	Methylene chloride	sam	6/27/2015 11:03:40 AM	mohammad	6/27/2015 11:42:01 AM	Peak Integrated by Software incorrectly

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT062715	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC025/ VSTD02515	VT010659.D	Carbon disulfide	Feifei	6/29/2015 10:29:51 AM	MMDadoda	6/29/2015 6:39:15 PM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02515	VT010659.D	Methylene chloride	Feifei	6/29/2015 10:29:51 AM	MMDadoda	6/29/2015 6:39:15 PM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02515	VT010659.D	Trichlorofluoromethane	Feifei	6/29/2015 10:29:51 AM	MMDadoda	6/29/2015 6:39:15 PM	Peak Integrated by Software incorrectly
G2784-04/ E2TH7	VT010661.D	Methylene chloride	Feifei	6/29/2015 10:29:53 AM	MMDadoda	6/29/2015 6:39:20 PM	Incorrect baseline
G2784-05/ E2TJ1	VT010662.D	Methylene chloride	Feifei	6/29/2015 10:29:55 AM	MMDadoda	6/29/2015 6:39:25 PM	Incorrect baseline
G2784-07/ E2TJ9	VT010663.D	Methylene chloride	Feifei	6/29/2015 10:29:57 AM	MMDadoda	6/29/2015 6:39:30 PM	Incorrect baseline
VSTDCCC025E C/ VSTD02516	VT010673.D	Methylene chloride	Feifei	6/29/2015 10:29:59 AM	MMDadoda	6/29/2015 6:39:37 PM	Incorrect baseline

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	VT062915	Instrument	MSVOA_t

Sample ID/ Client SampleID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC025/ VSTD02517	VT010675.D	Carbon disulfide	Feifei	6/30/2015 10:07:09 AM	MMDadoda	6/30/2015 3:07:16 PM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02517	VT010675.D	Methylene chloride	Feifei	6/30/2015 10:07:09 AM	MMDadoda	6/30/2015 3:07:16 PM	Peak Integrated by Software incorrectly
VSTDCCC025/ VSTD02517	VT010675.D	Trichlorofluoromethane	Feifei	6/30/2015 10:07:09 AM	MMDadoda	6/30/2015 3:07:16 PM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02518	VT010679.D	Carbon disulfide	Feifei	6/30/2015 10:07:12 AM	MMDadoda	6/30/2015 3:07:21 PM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02518	VT010679.D	Methylene chloride	Feifei	6/30/2015 10:07:12 AM	MMDadoda	6/30/2015 3:07:21 PM	Peak Integrated by Software incorrectly
VSTDCCC025EC/ VSTD02518	VT010679.D	Trichlorofluoromethane	Feifei	6/30/2015 10:07:12 AM	MMDadoda	6/30/2015 3:07:21 PM	Peak Integrated by Software incorrectly

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TH2
Analytical Method : Trace VOA Level : _____
Matrix : Water

EPA Sample No .	DMC1 (VCL)	DMC2 (CLA)	DMC3 (DCE)	DMC4 (BUT)	DMC5 (CLF)	DMC6 (DCA)	DMC7 (BEN)	DMC8 (DPA)
VBLK01	88	89	65	80	82	87	86	87
E2TJ8	99	112	70	121	96	107	98	99
E2TK2	96	101	71	102	96	102	101	101
E2TH4	94	105	67	122	96	106	99	104
E2TH2	85	95	66	89	98	102	96	100
VBLK04	98	100	69	104	96	102	105	104
E2TJ8DL	99	103	71	108	97	103	105	104
VHBLK01	103	103	75	82	99	101	108	106

	QC LIMITS
DMC1 (VCL) = Vinyl Chloride-d3	(40-130)
DMC2 (CLA) = Chloroethane-d5	(65-130)
DMC3 (DCE) = 1,1-Dichloroethene-d2	(60-125)
DMC4 (BUT) = 2-Butanone-d5	(40-130)
DMC5 (CLF) = Chloroform-d	(70-125)
DMC6 (DCA) = 1,2-Dichloroethane-d4	(70-130)
DMC7 (BEN) = Benzene-d6	(70-125)
DMC8 (DPA) = 1,2-Dichloropropane-d6	(60-140)

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TH2
Analytical Method : Trace VOA Level : _____
Matrix : Water

EPA Sample No .	DMC9 (TOL)	DMC10 (TDP)	DMC11 (HEX)	DMC12 (TCA)	DMC13 (DCZ)	DMC14	DMC15	DMC16	TOT OUT
VBLK01	78	84	92	88	95				0
E2TJ8	85	97	138 *	112	105				1
E2TK2	87	92	108	105	107				0
E2TH4	87	98	125	112	104				0
E2TH2	88	95	118	105	103				0
VBLK04	86	100	103	98	107				0
E2TJ8DL	84	100	102	96	108				0
VHBLK01	89	97	98	95	109				0

	QC LIMITS
DMC9 (TOL) = Toluene-d8	(70-130)
DMC10 (TDP) = trans-1,3-Dichloropropene-d4	(55-130)
DMC11 (HEX) = 2-Hexanone-d5	(45-130)
DMC12 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(65-120)
DMC13 (DCZ) = 1,2-Dichlorobenzene-d4	(80-120)

EPA SAMPLE NO.

VBLK01

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VU0702WBL01
Instrument ID: MSVOA_U
Lab File ID : VU002085.D
Extraction Type :
Date Extracted :
GC Column ( ) : DB-624UI ID : 0.18 (mm)
Date Analyzed : 07/01/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 14:33
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TJ8	G2784-06	VU002090.D	07/01/2015 17:21
E2TK2	G2784-08	VU002091.D	07/01/2015 17:51
E2TH4	G2784-02	VU002092.D	07/01/2015 18:20
E2TH2	G2784-01	VU002093.D	07/01/2015 18:49

EPA SAMPLE NO.

VBLK04

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method: Trace VOA
Level :
Matrix : Water
Lab Sample ID: VU0703WBL01
Instrument ID: MSVOA_U
Lab File ID : VU002129.D
Extraction Type :
Date Extracted :
GC Column ( ) : DB-624UI ID : 0.18 (mm)
Date Analyzed : 07/02/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 23:48
Heated Purge: (Y/N) N Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TJ8DL	G2784-06DL	VU002130.D	07/03/2015 00:17
VHBLK01	G2784-09	VU002131.D	07/03/2015 00:46

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TH2
Analytical Method: Trace VOA | Level :
EPA Sample No. : VSTD00503 | Lab File ID (Standard) : VU002082.D
Instrument ID : MSVOA_U | Init.Calib.Date(s): 07/01/2015
GC Column : DB-624UI | ID: 0.18 (mm) | Date Analyzed : 07/01/2015
Heated Purge: (Y/N) N | Time Analyzed : 12:43

upper limit 6.56 9.67 12.02

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	243881	6.39	245997	9.50	115460	11.85
UPPER LIMIT	487762	6.89	491994	10	230920	12.35
LOWER LIMIT	121941	5.89	122999	9	57730	11.35
EPA SAMPLE NO. (lower limit)		6.22		9.33		11.68
VBLK01	266838	6.39	259538	9.50	105944	11.85
E2TJ8	219960	6.39	221534	9.50	93401	11.85
E2TK2	240516	6.39	231308	9.50	89076	11.85
E2TH4	216042	6.39	211033	9.50	88578	11.85
E2TH2	266403	6.39	264917	9.50	114331	11.85

± 10 seconds ~ 0.17 minutes

acA 8-12-15

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TH2
Analytical Method: Trace VOA | Level :
EPA Sample No. : VSTD00514 | Lab File ID (Standard) : VU002128.D
Instrument ID : MSVOA_U | Init.Calib.Date(s): 07/02/2015
GC Column : DB-624UI | ID: 0.18 (mm) | Date Analyzed : 07/02/2015
Heated Purge: (Y/N) N | Time Analyzed : 23:19

upper limit 6.57 9.67 12.02

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	238316	6.40	234800	9.50	112133	11.85
UPPER LIMIT	476632	6.9	469600	10	224266	12.35
LOWER LIMIT	119158	5.9	117400	9	56066.5	11.35
EPA SAMPLE NO. (lower limit)		6.23		9.33		11.68
VBLK04	224021	6.39	219447	9.50	83471	11.85
E2TJ8DL	230219	6.40	226592	9.50	84019	11.85
VHBLK01	223362	6.39	223233	9.50	84722	11.85

± 10 seconds ~ 0.17 minutes
ACH 8-12-15

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH2

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002093.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.5	
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	2.1	
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.12	J
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.15	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH2

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-01
Lab File ID : VU002093.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.13	J
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.27	J
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-xylene	0.5	U
179601-23-1	m,p-xylene	0.13	J
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH2

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002093.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH2

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-01
Lab File ID : VU002093.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	1.6	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH4

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002092.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	6.3	
75-15-0	Carbon disulfide	0.15	J
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.66	
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.75	
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH4

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-02
Lab File ID : VU002092.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.7	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.13	J
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.8	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.15	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.44	J
95-47-6	o-xylene	0.29	J
179601-23-1	m,p-xylene	0.68	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH4

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002092.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH4

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-02
Lab File ID : VU002092.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	11.4	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ8

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002090.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.6	
75-15-0	Carbon disulfide	0.14	J
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.51	
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.48	J
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.4	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ8

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-06
Lab File ID : VU002090.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.62	
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.14	J
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	290	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.33	J
95-47-6	o-xylene	0.24	J
179601-23-1	m,p-xylene	0.49	J
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ8

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002090.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ8

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-06
Lab File ID : VU002090.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	6.7	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ8DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-06DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002130.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/03/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 100.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	50	U
74-87-3	Chloromethane	50	U
75-01-4	Vinyl chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	50	U
79-20-9	Methyl Acetate	50	U
75-09-2	Methylene chloride	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
1634-04-4	Methyl tert-butyl Ether	50	U
75-34-3	1,1-Dichloroethane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	50	U
67-66-3	Chloroform	50	U
71-55-6	1,1,1-Trichloroethane	50	U
110-82-7	Cyclohexane	50	U
56-23-5	Carbon tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ8DL

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-06DL
Lab File ID : VU002130.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/03/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 100.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
127-18-4	Tetrachloroethene	220	D
591-78-6	2-Hexanone	500	U
124-48-1	Dibromochloromethane	50	U
106-93-4	1,2-Dibromoethane	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
95-47-6	o-xylene	50	U
179601-23-1	m,p-xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-trichlorobenzene	50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ8DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-06DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002130.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/03/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 100.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ8DL

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-06DL
Lab File ID : VU002130.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/03/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 100.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	111864-21-2	Propanoic acid, 2-methyl-, tert-bu	4.93	90	JN
2	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK2

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002091.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	1.7	J
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.2	J
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK2

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-08
Lab File ID : VU002091.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.24	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-xylene	0.5	U
179601-23-1	m,p-xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TK2

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002091.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TK2

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-08
Lab File ID : VU002091.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VU0702WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002085.D
% Solids :
Date Received :
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VU0702WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002085.D
% Solids :
Date Received :
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-xylene	0.5	U
179601-23-1	m,p-xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VU0702WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002085.D
% Solids :
Date Received :
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/01/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK01

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
.nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
:oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : VU0702WBL01
Lab File ID : VU002085.D
Date Received :
Date Extracted :
Date Analyzed : 07/01/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK04

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VU0703WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002129.D
% Solids :
Date Received :
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/02/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.: VBLK04

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : VU0703WBL01
Lab File ID : VU002129.D
Date Received :
Date Extracted :
Date Analyzed : 07/02/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-xylene	0.5	U
179601-23-1	m,p-xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.: VBLK04

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : VU0703WBL01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002129.D
% Solids :
Date Received :
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/02/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK04

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : VU0703WBL01
Lab File ID : VU002129.D
Date Received :
Date Extracted :
Date Analyzed : 07/02/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002131.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/03/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.5	U
79-20-9	Methyl Acetate	0.5	U
75-09-2	Methylene chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl Ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
110-82-7	Cyclohexane	0.5	U
56-23-5	Carbon tetrachloride	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-09
Lab File ID : VU002131.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/03/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : <2 Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
100-41-4	Ethylbenzene	0.5	U
95-47-6	o-xylene	0.5	U
179601-23-1	m,p-xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-trichlorobenzene	0.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : G2784-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU002131.D
% Solids :
Date Received : 06/25/2015
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 07/03/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : <2 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : Trace VOA
atrix : Water
ample wt/vol : 25.0 (g/mL): mL
Solids :
C Column : DB-624UI ID : 0.18 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) N
urge Volume : 25 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level :
Lab Sample ID : G2784-09
Lab File ID : VU002131.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 07/03/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TH2
Analytical Method : VOA Level : LOW
Matrix : Soil

EPA Sample No .	DMC1 (VCL)	DMC2 (CLA)	DMC3 (DCE)	DMC4 (BUT)	DMC5 (CLF)	DMC6 (DCA)	DMC7 (BEN)	DMC8 (DPA)
VBLK05	94	110	71	81	93	97	95	96
E2TH5	86	95	74	96	97	106	107	108
VBLK06	77	92	65	87	92	98	89	95
E2TH7	87	106	73	99	103	114	105	109
E2TJ1	91	105	76	82	98	104	116	118
E2TJ9	89	104	71	81	89	96	88	91
VBLK07	87	104	69	76	84	89	83	86
VHBLK02	74	88	65	84	87	92	86	89

	QC LIMITS
DMC1 (VCL) = Vinyl Chloride-d3	(30-150)
DMC2 (CLA) = Chloroethane-d5	(30-150)
DMC3 (DCE) = 1,1-Dichloroethene-d2	(45-110)
DMC4 (BUT) = 2-Butanone-d5	(20-135)
DMC5 (CLF) = Chloroform-d	(40-150)
DMC6 (DCA) = 1,2-Dichloroethane-d4	(70-130)
DMC7 (BEN) = Benzene-d6	(20-135)
DMC8 (DPA) = 1,2-Dichloropropane-d6	(70-120)

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
Lab Code : CHEM Case No.: 45411 MA No.: _____ SDG No.: E2TH2
Analytical Method : VOA Level : LOW
Matrix : Soil

EPA Sample No .	DMC9 (TOL)	DMC10 (TDP)	DMC11 (HEX)	DMC12 (TCA)	DMC13 (DCZ)	DMC14	DMC15	DMC16	TOT OUT
VBLK05	96	87	87	84	100				0
E2TH5	103	94	117	100	98				0
VBLK06	92	82	99	93	101				0
E2TH7	105	87	117	113	108				0
E2TJ1	111	87	104	93	99				0
E2TJ9	89	85	92	87	96				0
VBLK07	86	78	84	83	91				0
VHBLK02	88	78	92	89	95				0

	QC LIMITS
DMC9 (TOL) = Toluene-d8	(30-130)
DMC10 (TDP) = trans-1,3-Dichloropropene-d4	(30-135)
DMC11 (HEX) = 2-Hexanone-d5	(20-135)
DMC12 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(45-120)
DMC13 (DCZ) = 1,2-Dichlorobenzene-d4	(75-120)

EPA SAMPLE NO.

VBLK05

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method: VOA
Level : LOW
Matrix : Soil
Lab Sample ID: VT0626SBL01
Instrument ID: MSVOA_T
Lab File ID : VT010642.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/26/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 11:57
Heated Purge: (Y/N) Y Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TH5	G2784-03	VT010656.D	06/26/2015 18:53

EPA SAMPLE NO.

VBLK06

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM
Case No.: 45411
MA No. :
SDG No.: E2TH2
Analytical Method: VOA
Level : LOW
Matrix : Soil
Lab Sample ID: VT0627SBL01
Instrument ID: MSVOA_T
Lab File ID : VT010660.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/27/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 10:52
Heated Purge: (Y/N) Y
Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
E2TH7	G2784-04	VT010661.D	06/27/2015 11:30
E2TJ1	G2784-05	VT010662.D	06/27/2015 11:56
E2TJ9	G2784-07	VT010672.D	06/27/2015 16:39

EPA SAMPLE NO.

VBLK07

FORM 4-OR
METHOD BLANK SUMMARY

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method: VOA
Level : LOW
Matrix : Soil
Lab Sample ID: VT0629SBL01
Instrument ID: MSVOA_T
Lab File ID : VT010676.D
Extraction Type :
Date Extracted :
GC Column ( ) : RXI-624 ID : 0.25 (mm)
Date Analyzed : 06/29/2015
GC Column ( ) : ID : (mm)
Time Analyzed : 11:50
Heated Purge: (Y/N) Y Cleanup(Y/N):
Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
VHBLK02	G2784-10	VT010678.D	06/29/2015 12:43

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
Lab Code: CHEM Case No.: 45411 MA No.: SDG No.: E2TH2
Analytical Method: VOA Level : LOW
EPA Sample No. : VSTD02513 Lab File ID (Standard) : VT010641.D
Instrument ID : MSVOA_T Init.Calib.Date(s): 06/16/2015
GC Column : RXI-624 ID: 0.25 (mm) Date Analyzed : 06/26/2015
Heated Purge: (Y/N) Y Time Analyzed : 10:46

upper limit 8.53 11.36 13.29

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	847432	8.36	720765	11.19	400035	13.12
UPPER LIMIT	1694860	8.86	1441530	11.69	800070	13.62
LOWER LIMIT	423716	7.86	360383	10.69	200018	12.62
EPA SAMPLE NO. (lower limit)		8.19		11.02		12.95
VBLK05	823468	8.36	689777	11.19	348254	13.12
E2TH5	1006590	8.36	797979	11.19	348704	13.12

± 10 seconds ~ 0.17 minutes

ACH 8-12-15

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TH2
Analytical Method: VOA | Level : LOW
EPA Sample No. : VSTD02515 | Lab File ID (Standard) : VT010659.D
Instrument ID : MSVOA_T | Init.Calib.Date(s): 06/16/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/27/2015
Heated Purge: (Y/N) Y | Time Analyzed : 09:45

upper limit 8.53 11.36 13.29

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	1044020	8.36	844826	11.19	447070	13.12
UPPER LIMIT	2088040	8.86	1689650	11.69	894140	13.62
LOWER LIMIT	522010	7.86	422413	10.69	223535	12.62
EPA SAMPLE NO. (lower limit)		8.19		11.02		12.95
VBLK06	1020132	8.36	874506	11.19	429668	13.12
E2TH7	962787	8.36	800247	11.19	384106	13.12
E2TJ1	976373	8.36	709730	11.19	271402	13.12
E2TJ9	938615	8.36	799455	11.19	428325	13.12

± 10 seconds ~ 0.17 minutes

ACH 8-12-15

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group | Contract: EPW14030
Lab Code: CHEM | Case No.: 45411 | MA No.: | SDG No.: E2TH2
Analytical Method: VOA | Level : LOW
EPA Sample No. : VSTD02517 | Lab File ID (Standard) : VT010675.D
Instrument ID : MSVOA_T | Init.Calib.Date(s): 06/16/2015
GC Column : RXI-624 | ID: 0.25 (mm) | Date Analyzed : 06/29/2015
Heated Purge: (Y/N) Y | Time Analyzed : 11:08

upper limit 8.53 11.36 13.29

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	861901	8.36	749018	11.19	417821	13.12
UPPER LIMIT	1723800	8.86	1498040	11.69	835642	13.62
LOWER LIMIT	430951	7.86	374509	10.69	208911	12.62
lower limit EPA SAMPLE NO.		8.19		11.02		12.95
VBLK07	890700	8.36	753044	11.19	392184	13.12
VHBLK02	985687	8.36	831785	11.19	424350	13.12

± 10 seconds ~ 0.17 minutes
acH 8-12-15

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.: E2TH5

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-03
Sample wt/vol : 4.92 (g/mL): g
Lab File ID : VT010656.D
% Solids : 95.7
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
67-64-1	Acetone	6.7	J
75-15-0	Carbon disulfide	5.3	U
79-20-9	Methyl Acetate	5.3	U
75-09-2	Methylene chloride	3.9	J
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl Ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	5.3	U
71-55-6	1,1,1-Trichloroethane	5.3	U
110-82-7	Cyclohexane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
71-43-2	Benzene	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
79-01-6	Trichloroethene	5.3	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.: E2TH5

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 4.92 (g/mL): g
Solids : 95.7
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-03
Lab File ID : VT010656.D
Date Received : 06/25/2015
Date Extracted : _____
Date Analyzed : 06/26/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.3	U
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
95-47-6	o-xylene	5.3	U
179601-23-1	m,p-Xylene	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-trichlorobenzene	5.3	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH5

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-03
Sample wt/vol : 4.92 (g/mL): g
Lab File ID : VT010656.D
% Solids : 95.7
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.3	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH5

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 4.92 (g/mL): g
Solids : 95.7
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-03
Lab File ID : VT010656.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 06/26/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	1000190-11-5	Carbonic acid, butyl ester octyl e	13.19	5.3	JN
2	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH7

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-04
Sample wt/vol : 6.18 (g/mL): g
Lab File ID : VT010661.D
% Solids : 84.7
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	4.8	U
74-87-3	Chloromethane	4.8	U
75-01-4	Vinyl chloride	4.8	U
74-83-9	Bromomethane	4.8	U
75-00-3	Chloroethane	4.8	U
75-69-4	Trichlorofluoromethane	4.8	U
75-35-4	1,1-Dichloroethene	4.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.8	U
67-64-1	Acetone	9.6	U
75-15-0	Carbon disulfide	4.8	U
79-20-9	Methyl Acetate	4.8	U
75-09-2	Methylene chloride	4.8	U
156-60-5	trans-1,2-Dichloroethene	4.8	U
1634-04-4	Methyl tert-butyl Ether	4.8	U
75-34-3	1,1-Dichloroethane	4.8	U
156-59-2	cis-1,2-Dichloroethene	4.8	U
78-93-3	2-Butanone	9.6	U
74-97-5	Bromochloromethane	4.8	U
67-66-3	Chloroform	4.8	U
71-55-6	1,1,1-Trichloroethane	4.8	U
110-82-7	Cyclohexane	4.8	U
56-23-5	Carbon tetrachloride	4.8	U
71-43-2	Benzene	4.8	U
107-06-2	1,2-Dichloroethane	4.8	U
79-01-6	Trichloroethene	4.8	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH7

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 6.18 (g/mL): g
Solids : 84.7
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-04
Lab File ID : VT010661.D
Date Received : 06/25/2015
Date Extracted : _____
Date Analyzed : 06/27/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	4.8	U
78-87-5	1,2-Dichloropropane	4.8	U
75-27-4	Bromodichloromethane	4.8	U
10061-01-5	cis-1,3-Dichloropropene	4.8	U
108-10-1	4-Methyl-2-pentanone	9.6	U
108-88-3	Toluene	4.8	U
10061-02-6	trans-1,3-Dichloropropene	4.8	U
79-00-5	1,1,2-Trichloroethane	4.8	U
127-18-4	Tetrachloroethene	4.8	U
591-78-6	2-Hexanone	9.6	U
124-48-1	Dibromochloromethane	4.8	U
106-93-4	1,2-Dibromoethane	4.8	U
108-90-7	Chlorobenzene	4.8	U
100-41-4	Ethylbenzene	4.8	U
95-47-6	o-xylene	4.8	U
179601-23-1	m,p-Xylene	4.8	U
100-42-5	Styrene	4.8	U
75-25-2	Bromoform	4.8	U
98-82-8	Isopropylbenzene	4.8	U
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	U
120-82-1	1,2,4-trichlorobenzene	4.8	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TH7

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-04
Sample wt/vol : 6.18 (g/mL): g
Lab File ID : VT010661.D
% Solids : 84.7
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	4.8	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TH7

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 6.18 (g/mL): g
Solids : 84.7
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-04
Lab File ID : VT010661.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-05
Sample wt/vol : 5.92 (g/mL): g
Lab File ID : VT010662.D
% Solids : 83.3
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.1	U
74-87-3	Chloromethane	5.1	U
75-01-4	Vinyl chloride	5.1	U
74-83-9	Bromomethane	5.1	U
75-00-3	Chloroethane	5.1	U
75-69-4	Trichlorofluoromethane	5.1	U
75-35-4	1,1-Dichloroethene	5.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.1	U
79-20-9	Methyl Acetate	5.1	U
75-09-2	Methylene chloride	5.1	U
156-60-5	trans-1,2-Dichloroethene	5.1	U
1634-04-4	Methyl tert-butyl Ether	5.1	U
75-34-3	1,1-Dichloroethane	5.1	U
156-59-2	cis-1,2-Dichloroethene	5.1	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.1	U
67-66-3	Chloroform	5.1	U
71-55-6	1,1,1-Trichloroethane	5.1	U
110-82-7	Cyclohexane	5.1	U
56-23-5	Carbon tetrachloride	5.1	U
71-43-2	Benzene	5.1	U
107-06-2	1,2-Dichloroethane	5.1	U
79-01-6	Trichloroethene	5.1	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ1

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.92 (g/mL): g
Solids : 83.3
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-05
Lab File ID : VT010662.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.1	U
78-87-5	1,2-Dichloropropane	5.1	U
75-27-4	Bromodichloromethane	5.1	U
10061-01-5	cis-1,3-Dichloropropene	5.1	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.1	U
10061-02-6	trans-1,3-Dichloropropene	5.1	U
79-00-5	1,1,2-Trichloroethane	5.1	U
127-18-4	Tetrachloroethene	5.1	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.1	U
106-93-4	1,2-Dibromoethane	5.1	U
108-90-7	Chlorobenzene	5.1	U
100-41-4	Ethylbenzene	5.1	U
95-47-6	o-xylene	5.1	U
179601-23-1	m,p-Xylene	5.1	U
100-42-5	Styrene	5.1	U
75-25-2	Bromoform	5.1	U
98-82-8	Isopropylbenzene	5.1	U
79-34-5	1,1,2,2-Tetrachloroethane	5.1	U
541-73-1	1,3-Dichlorobenzene	5.1	U
106-46-7	1,4-Dichlorobenzene	5.1	U
95-50-1	1,2-Dichlorobenzene	5.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.1	U
120-82-1	1,2,4-trichlorobenzene	5.1	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-05
Sample wt/vol : 5.92 (g/mL): g
Lab File ID : VT010662.D
% Solids : 83.3
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.1	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ1

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.92 (g/mL): g
Solids : 83.3
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-05
Lab File ID : VT010662.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ9

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-07
Sample wt/vol : 5.8 (g/mL): g
Lab File ID : VT010672.D
% Solids : 78.5
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl Acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl Ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
79-01-6	Trichloroethene	5.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ9

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.8 (g/mL): g
Solids : 78.5
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-07
Lab File ID : VT010672.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	4.0	J
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-trichlorobenzene	5.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
E2TJ9

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-07
Sample wt/vol : 5.8 (g/mL): g
Lab File ID : VT010672.D
% Solids : 78.5
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2TJ9

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.8 (g/mL): g
Solids : 78.5
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-07
Lab File ID : VT010672.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK05

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0626SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010642.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK05

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0626SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010642.D
Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK05

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0626SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010642.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/26/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK05

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : VOA
Matrix : Soil
Sample wt/vol : 5.0 (g/mL): g
% Solids : 100
GC Column : RXI-624 ID : 0.25 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) Y
Purge Volume : 10 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : VT0626SBL01
Lab File ID : VT010642.D
Date Received :
Date Extracted :
Date Analyzed : 06/26/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	7.3	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK06

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0627SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010660.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK06

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : ID : (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : VT0627SBL01
Lab File ID : VT010660.D
Date Received :
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK06

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0627SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010660.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/27/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK06

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : VT0627SBL01
Lab File ID : VT010660.D
Date Received :
Date Extracted :
Date Analyzed : 06/27/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK07

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0629SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010676.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK07

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TH2
Level : LOW
Lab Sample ID : VT0629SBL01
Lab File ID : VT010676.D
Date Received : _____
Date Extracted : _____
Date Analyzed : 06/29/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLK07

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : VT0629SBL01
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010676.D
% Solids : 100
Date Received :
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK07

Lab Name : Chemtech Consulting Group
Lab Code: CHEM Case No.: 45411
Analytical Method : VOA
Matrix : Soil
Sample wt/vol : 5.0 (g/mL): g
% Solids : 100
GC Column : RXI-624 ID : 0.25 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) Y
Purge Volume : 10 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : VT0629SBL01
Lab File ID : VT010676.D
Date Received :
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-10
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010678.D
% Solids : 100
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK02

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
C Column : _____ ID : _____ (mm)
xtract Concentrated : (Y / N) _____
oil Aliquot (VOA) : _____ (µL)
eated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : _____ SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-10
Lab File ID : VT010678.D
Date Received : 06/25/2015
Date Extracted : _____
Date Analyzed : 06/29/2015
Extract Volume : _____ (µL)
Extraction Type : _____
Injection Volume : _____ (µL)
pH : _____ Dilution Factor : 1.0
Cleanup Factor : _____

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHEM Case No.: 45411
MA No. : SDG No.: E2TH2
Analytical Method : VOA
Level : LOW
Matrix : Soil
Lab Sample ID : G2784-10
Sample wt/vol : 5.0 (g/mL): g
Lab File ID : VT010678.D
% Solids : 100
Date Received : 06/25/2015
GC Column : RXI-624 ID : 0.25 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 06/29/2015
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type :
Heated Purge : (Y / N) Y
Injection Volume : (µL)
Purge Volume : 10 (mL)
pH : Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK02

ab Name : Chemtech Consulting Group
ab Code: CHEM Case No.: 45411
nalytical Method : VOA
atrix : Soil
ample wt/vol : 5.0 (g/mL): g
Solids : 100
C Column : RXI-624 ID : 0.25 (mm)
xtract Concentrated : (Y / N)
oil Aliquot (VOA) : (µL)
leated Purge : (Y / N) Y
urge Volume : 10 (mL)
leanup Types :
oncentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: E2TH2
Level : LOW
Lab Sample ID : G2784-10
Lab File ID : VT010678.D
Date Received : 06/25/2015
Date Extracted :
Date Analyzed : 06/29/2015
Extract Volume : (µL)
Extraction Type :
Injection Volume : (µL)
pH : Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0	

EPA-designated Registry Number.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2TH2 CERCLIS No: INN000510959

Case No: 45411 Site Name/Location: BEAN Blossom/Patricksburg

Contractor or EPA Lab: Chemtech Data User: IDEM

No. of Samples: 8 Date Sampled or Date Received: 16 July 2015

Have Chain-of-Custody records been received? Yes X No

Have traffic reports or packing lists been received? Yes X No

If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____

If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No

No of samples claimed: 8 No. of samples received:

Received by: PatHoefner Date: 16 July 2015

Received by LSSS: PatHoefner Date: 22 July 2015

Review started: August 11, 2015 Reviewer Signature: Allison C Harvey

Total time spent on review: 15.0 hrs Date review completed: August 12, 2015

Copied by: A. C Harvey Date: August 28, 2015

Mailed to user by: PatHoefner Date: 28 Aug, 2015

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: Date:

Data review received by: Date:

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] T if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] T if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] T if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] T if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date:

ATTACHMENT F

Well Records

Table of Contents

Page 1 - 6: Municipal Well # 1 Information

Page 7 - 11: Municipal Well # 2 Information

[redacted]

Page 14 - 18: Northern Wellfield Well Information

[redacted]

[redacted]

[redacted]

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
215201	645 W. OF W. ST. , 200' W. OF 9" WELL	

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	B.BLOSSOM PATRICKBURG WATER		
Driller	BASTIN - LOGAN		
Operator	DELFORD DUNN	License: null	

Construction Details

Well	**Use:**	**Drilling method:** Cable Tool	**Pump type:**
	Depth:	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 47.0	**Material:**	**Diameter:** 16.0
Screen	**Length:** 20.0	**Material:**	**Diameter:** 14.5 **Slot size:** .060

Well Capacity Test **Type of test:** Pumping **Test rate:** 1002.0 gpm for 8.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** ft. **Bailer Drawdown** ft.

Grouting Information **Material:** **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment **Sealing material:** **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: OWEN **Township:** 10N **Range:** 3W
Section: NE of the NW of the NE of Section 29 **Topo map:** SPENCER
Grant Number:
Field located by: KM **on:** Sep 08, 1986
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: 1850.0 **Ft N of SL:** **Ft E of WL:** **Ft S of NL:** 300.0
Ground elevation: 545.0 **Depth to bedrock:** 68.0 **Bedrock elevation:** 477.0 **Aquifer elevation:**
UTM Easting: 520181.0 **UTM Northing:** 4347839.0

Well Log

Top	Bottom	Formation
0.0	1.0	SANDY TOP SOIL
1.0	6.0	SANDY CLAY
6.0	17.0	BR SANDY CLAY
17.0	22.0	BR SANDY CLAY W/GRAV
22.0	32.0	FN,MD S & G
32.0	42.0	F,M,C, S & G
42.0	52.0	F.M.C.S W/M,C,GRAV
52.0	60.0	F,M,C, S & G
60.0	68.0	F,M,C, S & G W/BOULDER LS

Comments MC 477 ; VERIFIED BY WATER DEPT. ; MC477 ; CHEMICAL ANALYSIS ;

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
215241	800' W OF CORNER OF COPPER ST & W ST.	Mar 15, 1989

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	BEAN BLOSSOM PATRICKSBURG	SPENCER IN	
Driller	DELFORD L. DUNN WATER SERV.	237 W MONROE ST, FRANKLIN IN	(317) 738-4577

Construction Details

Well	**Use:**	**Drilling method:** Cable Tool	**Pump type:**
	Depth:	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 80.0	**Material:**	**Diameter:** 16.0
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test **Type of test:** **Test rate:** gpm for hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** 13.0 ft. **Bailer Drawdown** ft.

Grouting Information **Material:** BENTONITE **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment **Sealing material:** **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: OWEN **Township:** 10N **Range:** 3W
Section: NW of the NW of the NE of Section 29 **Topo map:** SPENCER
Grant Number:
Field located by: LH **on:** Aug 09, 1989
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: 2275.0 **Ft N of SL:** **Ft E of WL:** **Ft S of NL:** 275.0
Ground elevation: 544.0 **Depth to bedrock:** 77.0 **Bedrock elevation:** 467.0 **Aquifer elevation:**
UTM Easting: 520025.0 **UTM Northing:** 4347865.0

Well Log

Top	Bottom	Formation
0.0	1.0	TOPSOIL DARK BR SANDY
1.0	16.0	BR SANDY CLAY
16.0	33.0	FN MD&CRS S&G W/LG GRAV
33.0	45.0	FN MD&CRS S&G
45.0	56.0	FN MD CRS S&G LITTLE FINER
56.0	59.0	GRAY SANDY CLAY
59.0	64.0	FN MD CRS GRAV SOME SAND

Comments VERIFIED BY OWNER; CHEM ANALYSIS;

Record of Water Well

Indiana Department of Natural Resources

Reference Number 212523	***Driving directions to well*** HOOSIER WATER FIELD, SPENCER CO IN WEST FRANKLIN, ST AT PLANT		***Date completed*** Sun, Jul 01, 1973
Owner-Contractor Well Owner	***Name*** HOOSIER WATER	***Address*** TERRA HAUTE	***Telephone*** (812)824-3000
~~Building Contractor~~ Drilling Contractor	JOHN REYNOLDS AND SONS INC.	PAOLI , IN	
Equipment Operator	BOB MAGRUDER	License:	

Construction Details

Well — ***Use:*** PUBLIC SUPPLY; ***Drilling method:*** CABLE TOOL; ***Pump type:***; ***Depth:*** 65.0; ***Pump setting depth:***; ***Water quality:***

Casing — ***Length:*** 81.0; ***Material:***; ***Diameter:*** 12.0

Screen — ***Length:*** 12.0; ***Material:***; ***Diameter:*** 12.0 ***Slot size:*** 40

Well Capacity Test — ***Type of test:***; ***Test rate:*** 503.0 gpm for 9.0 hrs.; ***BailTest rate:*** gpm for hrs.; ***Drawdown:*** 24.0 ft.; ***Static water level:*** 21.0 ft.

Grouting Information — ***Material:***; ***Depth:*** from to; ***Installation Method:***; ***Number of bags used:***

Well Abandonment — ***Sealing material:***; ***Depth:*** from to; ***Installation Method:***; ***Number of bags used:***

Administrative

County: OWEN
Section: NW 1/4 of the SE 1/4 of the SW 1/4 of Section 20 ***Township:*** 10N ***Range:*** 3W ***Topo map:*** SPENCER
Field located by: JRD ***on:*** Wed, May 31, 1978
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: ***Ft N of SL:*** 1200 ***Ft E of WL:*** 1800 ***Ft S of NL:***
Ground elevation: 550.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 485.0
UTM Easting: 519672.0 ***UTM Northing:*** 4348524.0

Well Log

Top	Bottom	Formation
0.0	2.0	CINDER FILL
2.0	10.0	YELLOW CLAY
10.0	30.0	GRAY SANDY CLAY
30.0	55.0	HARD GRAY SANDY CLAY
55.0	60.0	GRITTY GRAY CLAY
60.0	62.0	FINE MUDDY SAND
62.0	65.0	CLAY AND SAND

Comments MC 485; 75 FT. EAST OF BUILDING; MC;

Indiana Department of Natural Resources

Record of Water Well

Indiana Department of Natural Resources

Reference Number **212528**	***Driving directions to well*** HOOSER WELL CO WELL FIELD		***Date completed*** Thu, Jul 05, 1973
Owner-Contractor	***Name***	***Address***	***Telephone***
Well Owner	HOOSER WATER CO.	TERRE HAUTE,IN.	
Building Contractor			
Drilling Contractor	OWENSBORO PUMP & SUPPLY	OWENSBORO,KY.	
Equipment Operator	BOB MCGRUDER	License:	

Construction Details

Well	***Use:*** PUBLIC SUPPLY ***Depth:*** 97.7	***Drilling method:*** ***Pump setting depth:***	***Pump type:*** ***Water quality:*** ***Diameter:*** 12.0
Casing	***Length:*** 87.3	***Material:***	***Diameter: Slot size:***
Screen	***Length:*** 10.3	***Material:***	

Well Capacity Test ***Type of test:*** ***Test rate:*** gpm for hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: ft. ***Static water level:*** 21.0 ft.

Grouting Information ***Material:*** ***Depth:*** from to
Installation Method: ***Number of bags used:***

Well Abandonment ***Sealing material:*** ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: OWEN ***Township:*** 10N ***Range:*** 3W
Section: NW 1/4 of the SE 1/4 of the SW 1/4 of Section 20 ***Topo map:*** SPENCER
Field located by: JRD ***on:*** Wed, May 31, 1978
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: ***Ft N of SL:*** 1200 ***Ft E of WL:*** 1800 ***Ft S of NL:***
Ground elevation: 550.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 485.0
UTM Easting: ***UTM Northing:***

Well Log

Top	Bottom	Formation
0.0	3.0	CINDERS
3.0	60.0	SHALE PROBABLY CLAY
60.0	64.0	SANDY SHALE PROBABLY CLAY
64.0	97.7	S & G

Comments 75' E. OF BUILDING ; CHEMICAL ANALYSIS ; MC ;

http://www.state.in.us/serv/dnr_waterwell?refNo=212528&_from=SUMMARY&_action=Details3/19/00

DEEP WELL TURBINE PUMP AND

#1 WELL DATA

ompany: Hoosier Water Company
Plant: Spencer
Submitted by: Gene Hutchens
Date Installed:

Region: Southwest
Unit No. 096
Date: 12/78

Type:
Manufacturer: Layne Northern
Type: DRHC
Serial No.: 44747
Model:
Size:
Kind:
Regular or Auxiliary Service (underline one)
Above or Below Ground Discharge (underline one)

G.P.M.: 170
Disch. Head:
Avg. Lift, Ft.:
T.D.H.:
No. of Stages: 7
R.P.M.: 1800

Depth of Impeller: 75' 2"
Setting:
No. of Impellers: 7 ,DIA:
Disch. Dia.: 4"
Curve No.:
Rated Eff.:
Suction Dia:
Drive:
Case:

Motor:
Manufacturer: US. Motors
Typed: HU
Serial No. 3271119
Kind:

H.P.: 15
Volts: 220-440
Amps.: L40 H20
Style:

Phase: 3
Cycle: 60
R.P.M.: 1800
Rotor:

Model:
Frame: 284 UPS
Temp. Rise: 40° C
Base:

Bearings, Upper: 1-7217BY
Lower: 1-6210J

Well Data
Type of Construction:
Drilled Depth: 97'
Column Length: 60'
Well Size or Dia.: 10"
Screen Settings:
Screen Openings:
Static Level:
Aquifer:

Pumping Level: 50 ft.
ft.
ft.

Pres. Pump Capacity: 170
Tested Capacity:
Max. Recommended Capacity:

G.P.M.: 170
G.P.M.:
G.P.M.:
G.P.M.:
G.P.M.:
G.P.M.:

STARTER

MFR.
Type:
S/N :
Max. H.P.:
AMPS:

Enclosure:
Switch Type:
Fuse Rating: Volts:
Phase:
Cycle:

REMARKS:

DEEP WELL TURBINE PUMP AND

#2 WELL DATA

ompany: Hoosier Water Company
Plant: Spencer
Submitted by: Gene Hutchens
Date Installed:

Region: Southwest
Unit No. 096
Date: 12/78

Type:
Manufacturer:
Type:
Serial No.: 288421
Model:
Size:
Kind:
G.P.M.: 150
Disch. Head:
Avg. Lift, Ft.:
T.D.H.:
No. of Stages:
R.P.M.: 1800
Depth of Impeller: 69.6
Setting:
No. of Impellers: 8 ,DIA:
Disch. Dia.: 6"
Curve No.:
Rated Eff.:
Suction Dia:
Drive:
Case:

Regular or Auxiliary Service (underline one)
Above or Below Ground Discharge (underline one)

Motor:
Manufacturer: GE
Typed: FT503Y
Serial No. 5243148
Kind:
H.P.: 20
Volts: 220
Amps.: 25.5
Style:
Phase: 3
Cycle: 60
R.P.M.: 1800
Rotor:
Model: 23E449
Frame: GE381
Temp. Rise: 55L
Base:

Bearings, Upper: Lower:

Well Data
Type of Construction:
Drilled Depth: 97'
Column Length: 55
Well Size or Dia.: 12"
Screen Settings:
Screen Openings:
Static Level:
Aquifer:

Pumping Level: 150 ft. G.P.M.:
ft. G.P.M.:
ft. G.P.M.:
Pres. Pump Capacity: 150 G.P.M.:
Tested Capacity: G.P.M.:
Max. Recommended Capacity: G.P.M.:

STARTER

MFR.
Type:
S/N :
Max. H.P.:
AMPS:

Enclosure:
Switch Type:
Fuse Rating: Volts:
Phase:
Cycle:

REMARKS:

DEEP WELL TURBINE PUMP AND

#3 WELL DATA

ompany: Hoosier Water Company
Plant: Spencer
Submitted by: Gene Hutchens
Date Installed:

Region: Southwest
Unit No. 096
Date: 12/78

Type:
Manufacturer: Layne Northern
Type: RKHC
Serial No.:
Model:
Size: 10"
Kind:
Regular or Auxiliary Service (underline one)
Above or Below Ground Discharge (underline one)

G.P.M.: 300
Disch. Head:
Avg. Lift, Ft.:
T.D.H.:
No. of Stages: 5
R.P.M.: 1770

Depth of Impeller: 74' 10"
Setting:
No. of Impellers: ,DIA:
Disch. Dia.: 6"
Curve No.:
Rated Eff.:
Suction Dia:
Drive:
Case:

Motor:
Manufacturer: Westinghou
Typed: CS
Serial No. 444
Kind:

H.P.: 40
Volts: 220-440
Amps.: 118-59
Style: 1077216

Phase: 3
Cycle: 60
R.P.M.: 1750
Rotor:

Model: 1077216
Frame: 445Y
Temp. Rise: 40° C
Base:

Bearings, Upper: Lower:

Well Data
Type of Construction:
Drilled Depth: 96' 6"
Column Length: 70'
Well Size or Dia.: 12"
Screen Settings:
Screen Openings:
Static Level:
Aquifer:

Pumping Level: 25 ft.
ft.
ft.

Pres. Pump Capacity: 300 G.P.M.
Tested Capacity:
Max. Recommended Capacity:

G.P.M.:
G.P.M.:
G.P.M.:
G.P.M.:
G.P.M.:
G.P.M.:

STARTER

MFR.
Type:
S/N :
Max. H.P.:
AMPS:

Enclosure:
Switch Type:
Fuse Rating: Volts:
Phase:
Cycle:

REMARKS:

ATTACHMENT G

IDNR Sensitive Environments Letter

(Confidential)

ATTACHMENT H

Boring Logs and Field Sheets

ATTACHMENT I

IDEM’s Drinking Water Branch Additional Investigation Map and Analytical Results

(Confidential)

ATTACHMENT J

IDEM’s State Cleanup Section Additional Investigation Analytical Results

Thermo SCIENTIFIC

CERTIFICATE OF ANALYSIS

Production Number:: 00058126

Item Number: 320-0125

Item Description: JAR SHORT CLEAR WM
Groups 1 and 2 are applicable

This is your Certificate of Analysis for Thermo Scientific Certified Environmental Sample Containers product which has been prepared in accordance with Thermo Fisher Scientific Performance-Based Specifications. This product meets or exceeds analyte specifications established in the U.S. EPA "Specification and Guidance for Contaminant-free Sample Containers" for use in Superfund and other hazardous waste programs.

Group 1. Glass and HDPE Sample containers for use in the analysis of Metals

Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)	Analyte	Detection Limit (µg/L)
Aluminum	<80	Calcium (all HDPE)	<100	Magnesium	<100	Selenium	<2
Antimony	<5	Chromium	<10	Manganese	<10	Silver	<5
Arsenic	<2	Cobalt	<10	Mercury	<0.2	Sodium	<500
Barium	<20	Copper	<5	Nickel	<10	Sodium (all HDPE)	<100
Beryllium	<0.5	Iron	<50	Potassium	<750	Thallium	<5
Cadmium	<1	Lead	<2	Potassium (all HDPE)	<100	Vanadium	<10
Calcium	<500					Zinc	<10

Group 2. Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acenaphthene	<5	Acenaphthylene	<5	Anthracene	<5
Benzo(a)anthracene	<5	Benzo(a)pyrene	<5	Benzo(b)fluoranthene	<5
Benzo(k)Fluoranthene	<5	Benzo(g,h,i)perylene	<5	Benzoic Acid	<20
Benzyl Alcohol	<5	4-Bromophenyl-phenylether	<5	Butylbenzylphthalate	<5
4-Chloroaniline	<5	4-Chloro-3-methylphenol	<5	bis-(2-Chloroethoxy)methane	<5
bis-(2-Chloroethyl)ether	<5	bis-(2-Chloroisopropyl)ether	<5	2-Chloronaphthalene	<5
2-Chlorophenol	<5	4-Chlorophenyl-phenylether	<5	Chrysene	<5
Di-n-butylphthalate	<5	Di-n-octylphthalate	<5	Dibenzo(a,h)anthracene	<5
Dibenzofuran	<5	1,2-Dichlorobenzene	<5	1,4-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5	3,3'-Dichlorobenzidine	<5	2,4-Dichlorophenol	<5
Diethylphthalate	<5	Dimethylphthalate	<5	2,4-Dinitrotoluene	<5
4,6-Dinitro-2-methylphenol	<20	2,4-Dinitrophenol	<20	Fluoranthene	<5
2,6-Dinitrotoluene	<5	bis-(2-Ethylhexyl)phthalate	<5	Hexachlorobutadiene	<5
Fluorene	<5	Hexachlorobenzene	<5	Indeno(1,2,3-cd)pyrene	<5
Hexachlorocyclopentadiene	<5	Hexachloroethane	<5	2-Methylphenol	<5
Isophorone	<5	2-Methylnaphthalene	<5	3-Nitroaniline	<20
4-Methylphenol	<5	2-Nitroaniline	<20	N-Nitrosodimethylamine	<5
4-Nitroaniline	<20	N-Nitroso-di-n-propylamine	<5	Nitrobenzene	<5
N-Nitrosodiphenylamine	<5	Naphthlene	<5	Pentachlorophenol	<20
2-Nitrophenol	<5	4-Nitrophenol	<20	Pyrene	<5
Phenanthrene	<5	Phenol	<5	2,4,6-Trichlorophenol	<5
1,2,4-Trichlorobenzene	<5	2,4,5-Trichlorophenol	<20	Aldrin	<0.01
Azobenzene	<5	Carbazole	<5	Alpha-BHC	<0.01
4,4-DDD	<0.02	Endosulfan II	<0.02	Beta-BHC	<0.01
4,4-DDE	<0.02	Endosulfan Sulfate	<0.02	Delta-BHC	<0.01
4,4-DDT	<0.02	Endrin	<0.02	Gamma-BHC	<0.01
Dieldrin	<0.02	Endrin Aldehyde	<0.02	Heptachlor Epoxide	<0.01
Endosulfan I	<0.01	Heptachlor	<0.01	Alpha-Chlordane	<0.01
Methoxychlor	<0.10	Endrin Ketone	<0.02	Aroclor-1016	<0.20
Gamma-Chlordane	<0.01	Toxaphene	<0.30	Aroclor-1242	<0.20
Aroclor-1221	<0.20	Aroclor-1232	<0.20	Aroclor-1260	<0.20
Aroclor-1248	<0.20	Aroclor-1254	<0.20		
Aroclor-1262	<0.20	Aroclor-1268	<0.20		

Group 3. Glass Sample Containers for use in the analysis of Volatiles

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	<5	1,3-Dichloropropane	<1	Benzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1	1,2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1,3-Dichloropropene	<1	Bromoform	<1
cis-1,3-Dichloropropene	<1	Bromomethane	<1	1,1-Dichloropropene	<1
2-Butanone	<5	Ethylbenzene	<1	tert-Butylbenzene	<1
Hexachlorobutadiene	<1	sec-Butylbenzene	<1	2-Hexanone	<5
n-Butylbenzene	<1	Isopropylbenzene	<1	Carbon Disulfide	<1
p-Isopropyltoluene	<1	Carbon Tetrachloride	<1	4-Methyl-2-pentanone	<5
Chloromethane	<1	Methylene Chloride	<2	Chloroethane	<1
1,1,2,2-Tetrachloroethane	<1	Chloroform	<1	n-Propylbenzene	<1
Dibromochloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1,2,3-Trichloropropane	<1	1,2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
1,4-Dichlorobenzene	<1	Toluene	<1	1,2-Dibromoethane (EDB)	<1
1,1,1-Trichloroethane	<1	Dibromomethane	<1	1,2,4-Trichlorobenzene	<1
Dichlorodifluoromethane	<1	1,1,2-Trichloroethane	<1	1,3-Dichlorobenzene	<1
1,2,3-Trichloropropane	<1	1,2-Dichlorobenzene	<1	Trichloroethene	<1
trans-1,2-Dichloroethene	<1	Trichlorofluoromethane	<1	1,2-Dichloroethene	<1
Vinyl Acetate	<5	1,1-Dichloroethane	<1	Bromochloromethane	<1
Xylenes (total)	<1	1,3,5-Trimethylbenzene	<1		
Vinyl Chloride	<1	1,1-Dichloroethene	<1		
		1,2,4-Trimethylbenzene	<1		
		cis-1,2-Dichloroethene	<1		

Thermo SCIENTIFIC

The world leader in serving science

Rev 1
05/15/14

Certificate of Analysis

STOCK CODE PP140-40CEP.2HA **LOT NO** HA4164050

DESCRIPTION 40ml Clear B Vial w/24-414 .125 Cap

CONTAINER VOLATILES QUALITY ASSURANCE

The empty containers used for Thermo Fisher Scientific certified products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications And Guidance For Contaminant-Free Sample Containers 12/92".

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Acetone	< 5.0	Ethylbenzene	< 0.5
Acrylonitrile	< 1.0	Hexachlorobutadiene	< 0.5
Benzene	< 0.5	2-Hexanone	< 5.0
Bromobenzene	< 0.5	Iodomethane	< 0.5
Bromochloromethane	< 0.5	Isopropylbenzene	< 0.5
Bromodichloromethane	< 0.5	m+p Xylenes	< 0.5
Bromoform	< 0.5	4-Methyl-2-pentanone	< 5.0
Bromomethane	< 0.5	Methyl t-butylether (MTBE)	< 0.5
2-Butanone	< 5.0	Naphthalene	< 0.5
Carbon Disulfide	< 0.5	n-Butylbenzene	< 0.5
Carbon Tetrachloride	< 0.5	Nitrobenzene	< 0.5
Chlorobenzene	< 0.5	n-Propylbenzene	< 0.5
Chloroethane	< 0.5	o-Xylene	< 0.5
Chloroform	< 0.5	p-Isopropyltoluene	< 0.5
Chloromethane	< 0.5	sec-Butylbenzene	< 0.5
2-Chlorotoluene	< 0.5	Styrene	< 0.5
4-Chlorotoluene	< 0.5	tert-Butylbenzene	< 0.5
cis-1,2-Dichloroethene	< 0.5	Tertiary amyl methyl ether (TAME)	< 3.0
cis-1,3-Dichloropropene	< 0.5	Tertiary butyl alcohol (TBA)	< 2.0
1,2-Dibromo-3-chloropropane	< 0.02	1,1,2,2-Tetrachloroethane	< 0.5
Dibromochloromethane	< 0.5	Tetrachloroethene	< 0.5
1,2-Dibromoethane (EDB)	< 0.01	Toluene	< 0.5
Dibromomethane	< 0.5	trans-1,2-Dichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	trans-1,3-Dichloropropene	< 0.5
1,3-Dichlorobenzene	< 0.5	1,1,2-Trichloro-1,2,2Trifluoroethane(Freon113)	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
Dichlorodifluoromethane (Freon-12)	< 0.5	1,2,4-Trichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,1,1-Trichloroethane	< 0.5
1,2-Dichloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
1,1-Dichloroethene	< 0.5	Trichloroethene	< 0.5
Dichloromethane	< 0.5	Trichlorofluoromethane	< 0.5
1,2-Dichloropropane	< 0.5	1,2,3-Trichloropropane	< 0.5
1,3-Dichloropropane	< 0.5	1,2,4-Trimethylbenzene	< 0.5
2,2-Dichloropropane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloropropene	< 0.5	Vinyl Acetate	< 0.5
Ethyl tertiary butyl ether (ETBE)	< 3.0	Vinyl Chloride	< 0.5
Octa methyl cycle tetrasiloxane	***< 5.0***	***Deca methyl cyclo pentasiloxane***	***< 5.0***

Approved By: Tami Burkybile 6-13-14

Tami Burkybile
Quality Assurance

SAMPLE CUSTODY CHAIN - IDEM OFFICE OF LAND QUALITY

State Form 42091 (R2 / 12-06)

Please Send Report to:

IDEM
OLQ Chemistry Section
Attn: QA Officer
MC 66-20 IGCN N1101
100 N Senate Avenue
Indianapolis, IN 46204-2251
www.idem.IN.gov

(1) SAMPLE CERTIFICATION - I certify the following samples were collected by me or in my presence:	Print Name: KENNETH C. McDANIEL
Sample Date(s): 17 DECEMBER 2014	Signature: [signature]

(2A-2C) SAMPLE INFORMATION			(2D) COUNTS				(2E-2F) ANALYSES REQUESTED								(2G) COMMENTS	(2H-2J) DATE & TIME			
Laboratory Control Number (Lab Use)	IDEM Sample Number	Matrix or Sample Type	Glass Bottles	Plastic Bottles	40 ml Vials	Other	VOA	MA/MEA								Date	Time	AM	PM
	OLSI7	SOIL			3	1	X									17 DEC 14	1:30		X
	OLSIF	↓			2	2	X	X								17 DEC 14	1:30		X

(3) REQUIRED TURNAROUND TIME (with full documentation)			
30 days	14 days	7 days	2 days

(5) TRANSFER OF CUSTODY - I certify that I received the above samples.	Date	Time
Relinquished by: Sign [signature]	[illegible]	[illegible] AM / PM
Received by: Sign [signature]		
Relinquished by: Sign		AM / PM
Received by: Sign		

(4) COMMENTS

FOR LABORATORY USE ONLY:	
Cooler Temp:	**Sample Condition:**

(6) LABORATORY RECEIPT OF SAMPLES		
I certify that I received the above samples. After recording these samples in the official logbook, they will remain in the custody of competent lab personnel or be secured in a locked area at all times.		
Received by: Sign	Date	Time
Laboratory:		AM / PM
Address:		

(7) DISTRIBUTION: PINK COPY - IDEM Sampler YELLOW COPY - Lab (Keep) WHITE COPY - Lab (To be Returned to IDEM with Data Package)

December 30, 2014

Indiana Department of Environmental Management
OLQ, 100 N. Senate Ave., Room N1101
Indianapolis, IN 46204-2251

Work Order No.: 14L0854

Re: OL 517 -OL 518

Dear David Harrison:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 12/18/2014 1:20:00PM for the analyses presented in the following report as Work Order 14L0854.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,
Microbac Laboratories, Inc.

Kristen Gehlbach
Senior Project Manager

MICROBAC®

WORK ORDER SAMPLE SUMMARY

Date: *Tuesday, December 30, 2014*

Client: Indiana Department of Environmental Management
Project: OL 517 -OL 518
Lab Order: 14L0854

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
14L0854-01	OL 517		12/17/2014 13:30	12/18/2014 1:20:00PM
14L0854-02	OL 518		12/17/2014 13:30	12/18/2014 1:20:00PM

CASE NARRATIVE

Date: *Tuesday, December 30, 2014*

Client: Indiana Department of Environmental Management
Project: OL 517 -OL 518
Lab Order: 14L0854

The Matrix Spike and Matrix Spike Duplicate performed on the 14L0854-02 [OL 518] sample failed the accuracy criteria for 1,1,2-trichloroethane with a high bias and acetone with a low bias. The precision criteria were met. This data is indicative of a bias related to sample matrix.

The Matrix Spike performed on the 14L0854-02 [OL 518] sample also failed the accuracy criteria for tetrachloroethene with a high bias. The Matrix Spike Duplicate failed precision criteria and failed accuracy criteria with a low bias. This bias is due to the high indigenous analyte concentration (relative to the spike amount).

E - The acetone concentrations for the 14L0854-01 [OL 517] and 14L0854-02 [OL 518] samples was above the linear range of calibration. A 50 times dilution produced a result below the reporting limit. This compound was, therefore, reported with an 'E' qualifier from the undiluted analysis.

The B064092 Matrix Spike and Matrix Spike Duplicate performed on the 14L0854-02 [OL 518] sample is flagging as having failed the accuracy criteria for bromomethane, this is considered insignificant as bromomethane is not being reported from this analytical batch.

MICROBAC®

Analytical Results

Date: *Tuesday, December 30, 2014*

Client: Indiana Department of Environmental Management
Client Project: OL 517 -OL 518
Client Sample ID: OL 517
Sample Description:
Matrix: Solid

Work Order/ID: 14L0854-01
Sampled: 12/17/2014 13:30
Received: 12/18/2014 13:20

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**						Analyst: **jln**
Volatile Organic Compounds, 5035 prep, SB preserve									Prep Date/Time: **12/23/2014 08:38**
1,1,1,2-Tetrachloroethane	cgk	A	***ND***	1.0	12		µg/Kg dry	1	12/23/2014 12:12
1,1,1-Trichloroethane	cgk	A	***ND***	1.3	6.2		µg/Kg dry	1	12/23/2014 12:12
1,1,2,2-Tetrachloroethane	cgk	A	***ND***	1.6	6.2		µg/Kg dry	1	12/23/2014 12:12
1,1,2-Trichloroethane	cgk	A	***ND***	1.6	6.2		µg/Kg dry	1	12/23/2014 12:12
1,1-Dichloroethane	cgk	A	***ND***	1.4	6.2		µg/Kg dry	1	12/23/2014 12:12
1,1-Dichloroethene	cgk	A	***ND***	1.5	6.2		µg/Kg dry	1	12/23/2014 12:12
1,2-Dichloroethane	cgk	A	***ND***	1.9	6.2		µg/Kg dry	1	12/23/2014 12:12
1,2-Dichloropropane	cgk	A	***ND***	1.4	6.2		µg/Kg dry	1	12/23/2014 12:12
2-Butanone	cgk	A	***38***	1.4	12		µg/Kg dry	1	12/23/2014 12:12
2-Hexanone	cgk	A	***ND***	2.7	6.2		µg/Kg dry	1	12/23/2014 12:12
4-Methyl-2-Pentanone	cgk	A	***ND***	2.6	6.2		µg/Kg dry	1	12/23/2014 12:12
Acetone	cgk	A	***260***	5.4	62	E	µg/Kg dry	1	12/23/2014 12:12
Acrolein	cgk	A	***ND***	28	120		µg/Kg dry	1	12/23/2014 12:12
Acrylonitrile	cgk	A	***ND***	33	120		µg/Kg dry	1	12/23/2014 12:12
Benzene	cgk	A	***ND***	1.1	6.2		µg/Kg dry	1	12/23/2014 12:12
Bromodichloromethane	cgk	A	***ND***	1.0	6.2		µg/Kg dry	1	12/23/2014 12:12
Bromoform	cgk	A	***ND***	2.0	6.2		µg/Kg dry	1	12/23/2014 12:12
Bromomethane	cgk	A	***ND***	1.9	12		µg/Kg dry	1	12/23/2014 12:12
Carbon Disulfide	cgk	A	***ND***	1.3	12		µg/Kg dry	1	12/23/2014 12:12
Carbon tetrachloride	cgk	A	***ND***	1.3	6.2		µg/Kg dry	1	12/23/2014 12:12
Chlorobenzene	cgk	A	***ND***	0.67	6.2		µg/Kg dry	1	12/23/2014 12:12
Chloroethane	cgk	A	***ND***	2.3	12		µg/Kg dry	1	12/23/2014 12:12
Chloroform	cgk	A	***ND***	0.77	6.2		µg/Kg dry	1	12/23/2014 12:12
Chloromethane	cgk	A	***ND***	1.4	12		µg/Kg dry	1	12/23/2014 12:12
cis-1,2-Dichloroethene	cgk	A	***1.9***	0.88	6.2	J	µg/Kg dry	1	12/23/2014 12:12
cis-1,3-Dichloropropene	cgk	A	***ND***	0.64	6.2		µg/Kg dry	1	12/23/2014 12:12
Dibromochloromethane	cgk	A	***ND***	1.2	6.2		µg/Kg dry	1	12/23/2014 12:12
Ethylbenzene	cgk	A	***ND***	1.1	6.2		µg/Kg dry	1	12/23/2014 12:12
m,p-Xylene	cgk	A	***ND***	2.2	6.2		µg/Kg dry	1	12/23/2014 12:12
Methylene chloride	cgk	A	***ND***	2.5	25		µg/Kg dry	1	12/23/2014 12:12
Methyl-t-Butyl Ether	cgk	A	***ND***	2.2	6.2		µg/Kg dry	1	12/23/2014 12:12
o-Xylene	cgk	A	***ND***	1.1	6.2		µg/Kg dry	1	12/23/2014 12:12
Styrene	cgk	A	***ND***	0.93	6.2		µg/Kg dry	1	12/23/2014 12:12
Tetrachloroethene	cgk	A	***12000***	79	330		µg/Kg dry	50	12/29/2014 11:45
Toluene	cgk	A	***ND***	0.97	6.2		µg/Kg dry	1	12/23/2014 12:12
trans-1,2-Dichloroethene	cgk	A	***ND***	1.2	6.2		µg/Kg dry	1	12/23/2014 12:12
trans-1,3-Dichloropropene	cgk	A	***ND***	1.4	6.2		µg/Kg dry	1	12/23/2014 12:12
Trichloroethene	cgk	A	***9.4***	1.7	6.2		µg/Kg dry	1	12/23/2014 12:12
Total 1,2-Dichloroethene	cgk	M	***1.9***	1.9	12	J	µg/Kg dry	1	12/23/2014 12:12
Trichlorofluoromethane	cgk	A	***ND***	1.5	12		µg/Kg dry	1	12/23/2014 12:12
Vinyl Acetate	cgk	A	***ND***	2.6	12		µg/Kg dry	1	12/23/2014 12:12

MICROBAC®

Analytical Results

Date: *Tuesday, December 30, 2014*

Client: Indiana Department of Environmental Management
Client Project: OL 517 -OL 518
Client Sample ID: OL 517
Sample Description:
Matrix: Solid

Work Order/ID: 14L0854-01
Sampled: 12/17/2014 13:30
Received: 12/18/2014 13:20

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**						Analyst: **jln**
Volatile Organic Compounds, 5035 prep, SB preserve									Prep Date/Time: **12/23/2014 08:38**
Vinyl chloride	cgk	A	***ND***	1.6	12		µg/Kg dry	1	12/23/2014 12:12
Total Xylenes	cgk	M	***ND***	3.1	6.2		µg/Kg dry	1	12/23/2014 12:12
Surr: 1,2-Dichloroethane-d4		S	108		51.7-162		%REC	1	12/23/2014 12:12
Surr: 4-Bromofluorobenzene		S	99.0		57.4-135		%REC	1	12/23/2014 12:12
Surr: Dibromofluoromethane		S	106		63.5-139		%REC	1	12/23/2014 12:12
Surr: Toluene-d8		S	108		66.6-143		%REC	1	12/23/2014 12:12
			Method: **SM 2540 G-1997**						Analyst: **agrie**
Percent Solids									Prep Date/Time: **12/19/2014 13:23**
Percent Solids	cg	A	***79***	0.050	0.10		wt%	1	12/19/2014 13:23

MICROBAC®

Analytical Results

Date: *Tuesday, December 30, 2014*

Client: Indiana Department of Environmental Management
Client Project: OL 517 -OL 518
Client Sample ID: OL 518
Sample Description:
Matrix: Solid

Work Order/ID: 14L0854-02
Sampled: 12/17/2014 13:30
Received: 12/18/2014 13:20

Method: **SW-846 8260B** Analyst: **jln**

Volatile Organic Compounds, 5035 prep, SB preserve Prep Date/Time: **12/23/2014 08:38**

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
1,1,1,2-Tetrachloroethane	cgk	A	***ND***	0.95	12		µg/Kg dry	1	12/23/2014 12:41
1,1,1-Trichloroethane	cgk	A	***ND***	1.3	5.9		µg/Kg dry	1	12/23/2014 12:41
1,1,2,2-Tetrachloroethane	cgk	A	***ND***	1.6	5.9		µg/Kg dry	1	12/23/2014 12:41
1,1,2-Trichloroethane	cgk	A	***ND***	1.5	5.9		µg/Kg dry	1	12/23/2014 12:41
1,1-Dichloroethane	cgk	A	***ND***	1.3	5.9		µg/Kg dry	1	12/23/2014 12:41
1,1-Dichloroethene	cgk	A	***ND***	1.4	5.9		µg/Kg dry	1	12/23/2014 12:41
1,2-Dichloroethane	cgk	A	***ND***	1.8	5.9		µg/Kg dry	1	12/23/2014 12:41
1,2-Dichloropropane	cgk	A	***ND***	1.4	5.9		µg/Kg dry	1	12/23/2014 12:41
2-Butanone	cgk	A	***38***	1.3	12		µg/Kg dry	1	12/23/2014 12:41
2-Hexanone	cgk	A	***ND***	2.6	5.9		µg/Kg dry	1	12/23/2014 12:41
4-Methyl-2-Pentanone	cgk	A	***ND***	2.5	5.9		µg/Kg dry	1	12/23/2014 12:41
Acetone	cgk	A	***270***	5.2	59	E	µg/Kg dry	1	12/23/2014 12:41
Acrolein	cgk	A	***ND***	27	120		µg/Kg dry	1	12/23/2014 12:41
Acrylonitrile	cgk	A	***ND***	31	120		µg/Kg dry	1	12/23/2014 12:41
Benzene	cgk	A	***ND***	1.0	5.9		µg/Kg dry	1	12/23/2014 12:41
Bromodichloromethane	cgk	A	***ND***	0.99	5.9		µg/Kg dry	1	12/23/2014 12:41
Bromoform	cgk	A	***ND***	1.9	5.9		µg/Kg dry	1	12/23/2014 12:41
Bromomethane	cgk	A	***ND***	1.8	12		µg/Kg dry	1	12/23/2014 12:41
Carbon Disulfide	cgk	A	***ND***	1.2	12		µg/Kg dry	1	12/23/2014 12:41
Carbon tetrachloride	cgk	A	***ND***	1.2	5.9		µg/Kg dry	1	12/23/2014 12:41
Chlorobenzene	cgk	A	***ND***	0.64	5.9		µg/Kg dry	1	12/23/2014 12:41
Chloroethane	cgk	A	***ND***	2.2	12		µg/Kg dry	1	12/23/2014 12:41
Chloroform	cgk	A	***ND***	0.73	5.9		µg/Kg dry	1	12/23/2014 12:41
Chloromethane	cgk	A	***ND***	1.3	12		µg/Kg dry	1	12/23/2014 12:41
cis-1,2-Dichloroethene	cgk	A	***2.8***	0.84	5.9	J	µg/Kg dry	1	12/23/2014 12:41
cis-1,3-Dichloropropene	cgk	A	***ND***	0.61	5.9		µg/Kg dry	1	12/23/2014 12:41
Dibromochloromethane	cgk	A	***ND***	1.2	5.9		µg/Kg dry	1	12/23/2014 12:41
Ethylbenzene	cgk	A	***ND***	1.1	5.9		µg/Kg dry	1	12/23/2014 12:41
m,p-Xylene	cgk	A	***ND***	2.1	5.9		µg/Kg dry	1	12/23/2014 12:41
Methylene chloride	cgk	A	***ND***	2.4	24		µg/Kg dry	1	12/23/2014 12:41
Methyl-t-Butyl Ether	cgk	A	***ND***	2.1	5.9		µg/Kg dry	1	12/23/2014 12:41
o-Xylene	cgk	A	***ND***	1.1	5.9		µg/Kg dry	1	12/23/2014 12:41
Styrene	cgk	A	***ND***	0.88	5.9		µg/Kg dry	1	12/23/2014 12:41
Tetrachloroethene	cgk	A	***2300***	85	360		µg/Kg dry	50	12/29/2014 12:14
Toluene	cgk	A	***ND***	0.92	5.9		µg/Kg dry	1	12/23/2014 12:41
trans-1,2-Dichloroethene	cgk	A	***ND***	1.2	5.9		µg/Kg dry	1	12/23/2014 12:41
trans-1,3-Dichloropropene	cgk	A	***ND***	1.4	5.9		µg/Kg dry	1	12/23/2014 12:41
Trichloroethene	cgk	A	***8.1***	1.6	5.9		µg/Kg dry	1	12/23/2014 12:41
Total 1,2-Dichloroethene	cgk	M	***2.8***	1.8	12	J	µg/Kg dry	1	12/23/2014 12:41
Trichlorofluoromethane	cgk	A	***ND***	1.4	12		µg/Kg dry	1	12/23/2014 12:41
Vinyl Acetate	cgk	A	***ND***	2.5	12		µg/Kg dry	1	12/23/2014 12:41

MICROBAC®

Analytical Results

Date: *Tuesday, December 30, 2014*

Client: Indiana Department of Environmental Management
Client Project: OL 517 -OL 518
Client Sample ID: OL 518
Sample Description:
Matrix: Solid

Work Order/ID: 14L0854-02
Sampled: 12/17/2014 13:30
Received: 12/18/2014 13:20

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**						Analyst: **jln**
Volatile Organic Compounds, 5035 prep, SB preserve									Prep Date/Time: **12/23/2014 08:38**
Vinyl chloride	cgk	A	***ND***	1.5	12		µg/Kg dry	1	12/23/2014 12:41
Total Xylenes	cgk	M	***ND***	3.0	5.9		µg/Kg dry	1	12/23/2014 12:41
Surr: 1,2-Dichloroethane-d4		S	110		51.7-162		%REC	1	12/23/2014 12:41
Surr: 4-Bromofluorobenzene		S	101		57.4-135		%REC	1	12/23/2014 12:41
Surr: Dibromofluoromethane		S	105		63.5-139		%REC	1	12/23/2014 12:41
Surr: Toluene-d8		S	106		66.6-143		%REC	1	12/23/2014 12:41
			Method: **SM 2540 G-1997**						Analyst: **agrie**
Percent Solids									Prep Date/Time: **12/19/2014 13:23**
Percent Solids	cg	A	***77***	0.050	0.10		wt%	1	12/19/2014 13:23

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL
b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL
b* = Detected in the associated method Blank at a concentration greater than half the RL
CFU = Colony forming units
D = Dilution performed on sample
DF = Dilution Factor
g = Gram
E = Value above quantitation range
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference
J = Analyte concentration detected between RL and MDL (Metals / Organics)
LOD = Limit of Detection
m3 = Meters cubed
MDL = Method Detection Limit
mg/Kg = Milligrams per Kilogram (ppm)
mg/L = Milligrams per Liter (ppm)
NA = Not Analyzed
ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
NR = Not Recovered
R = RPD outside accepted recovery limits
RL = Reporting Limit
S = Spike recovery outside recovery limits
Surr = Surrogate
U = Undetected
> = Greater than
< = Less than
% = Percent

ANALYTE TYPES: (AT)

A,B = Target Analyte
I = Internal Standard
M = Summation Analyte
S = Surrogate
T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank
DUP = Method Duplicate
BS = Method Blank Spike
MS = Matrix Spike
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
CRL = Client Required Reporting Limit
PDS = Post Digestion Spike
QCS = Quality Control Standard
ICSA = Interference Check Standard "A"
ICSAB = Interference Check Standard "AB"
BSD = Method Blank Spike Duplicate
MSD = Matrix Spike Duplicate
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
OPR = Ongoing Precision and Recovery Standard
SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

a The American Association for Laboratory Accreditation [A2LA] for Biological Testing, ISO/IEC 17025 (Certificate# 3045.01)
b The American Association for Laboratory Accreditation [A2LA] for Environmental Department of Defense Testing, ISO/IEC 17025 (Certificate# 3045.02)
c Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #200064)
d Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
e Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
f Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
g Kansas Department of Health and Environment for the analysis of drinking water, wastewater, and solid hazardous waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Certificate No. E-10397)
h Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
i New York SDOH in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Lab#12006;accreditation #49179)
j New York SDOH in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Lab# 12006; accreditation #49386)
k North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
l Pennsylvania Department of Environmental Protection [NELAP] (Lab# 68-04863)
m Washington State Department of Ecology in accordance to Ch. 173-50 WAC (lab #C992)
n Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

MICROBAC®

COOLER INSPECTION

Date: Tuesday, December 30, 2014

Client Name: Indiana Department of Environmental Management

Date/Time Received: 12/18/2014 13:20

Work Order Number: 14L0854

Received by: Holly Donsbach

Checklist completed by: 12/18/2014 1:49:00PM | Holly Donsbach

Reviewed by: 12/22/2014 | KG

Carrier Name: Client Delivered

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 2.0° C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		

If No, adjusted by? _____

COC included the requested analyses?	Yes	☑	No	☐		
COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☑	No	☐		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☑	No	☐	No VOA vials submitted	☐

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
14L0854-01	OL 517	
14L0854-02	OL 518	

14L0854

SAMPLE CUSTODY CHAIN - IDEM OFFICE OF LAND QUALITY

State Form 42091 (R2 / 12-06)

Please Send Report to:

IDEM
OLQ Chemistry Section
Attn: QA Officer
MC 66-20 IGCN N1101
100 N Senate Avenue
Indianapolis, IN 46204-2251
www.idem.IN.gov

SAMPLE CERTIFICATION - I certify the following samples were collected by me or in my presence:

Print Name: KENNETH C. McDANIEL

Sample Date(s): 17 DECEMBER 2014

Signature: Kenneth C. McDaniel

(2A-2C) SAMPLE INFORMATION			(2D) COUNTS				(2E-2F) ANALYSES REQUESTED								(2G) COMMENTS	(2H-2J) DATE & TIME			
Laboratory Control Number (Lab Use)	IDEM Sample Number	Matrix or Sample Type	Glass Bottles	Plastic Bottles	40 ml Vials	Other	VOA	MS/MSD								Date	Time	AM	PM
	OL517	SOIL			3	1	X									17 DEC 2014	1:30		X
	OL518	↓			9	3	X	X								17 DEC 2014	1:30		X

01
02

12/18/2014

(3) REQUIRED TURNAROUND TIME (with full documentation)

30 days | 14 days | 7 days | 2 days

(4) COMMENTS

(5) TRANSFER OF CUSTODY - I certify that I received the above samples

	Sign	Date	Time
Relinquished by:	Kenneth C. McDaniel	17 DEC 2014	3:53 EST AM / PM
Received by:	William J. Griffiths		
Relinquished by:	Walter J. Griffiths	12-18-14	14:20 AM / PM
Received by:			

(6) LABORATORY RECEIPT OF SAMPLES

I certify that I received the above samples. After recording these samples in the official logbook, they will remain in the custody of competent lab personnel or be secured in a locked area at all times.

	Sign	Date	Time
Received by:	M. Adamson	12-18-14	1320 AM / PM
Laboratory:			
Address:			

FOR LABORATORY USE ONLY:

Cooler Temp: 2.0°C4

Sample Condition:

(7) DISTRIBUTION: PINK COPY - IDEM Sampler YELLOW COPY - Lab (Keep) WHITE COPY - Lab (To be Returned to IDEM with Data Package)

14L0854 Kristen Gehlbach IDEM - Indianapolis, IN LQ - LQ

CollectionDate	Client SampID	Sample Type	Analyte	Conc.	Units	Detection Limit	Detection	Analytical Method	Estimated	Comments
12/17/2014 13:30	OL 517	N	1,1,1,2-Tetrachloroethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,1,1-Trichloroethane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,1,2,2-Tetrachloroethane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,1,2-Trichloroethane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,1-Dichloroethane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,1-Dichloroethene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,2-Dichloroethane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,2-Dichloroethane-d4	54	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	1,2-Dichloropropane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	2-Butanone	38	µg/Kg dry	12	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	2-Hexanone	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	4-Bromofluorobenzene	49	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	4-Methyl-2-Pentanone	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Acetone	260	µg/Kg dry	62	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Acrolein	120	µg/Kg dry	120	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Acrylonitrile	120	µg/Kg dry	120	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Benzene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Bromodichloromethane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Bromoform	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Bromomethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Carbon Disulfide	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Carbon tetrachloride	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Chlorobenzene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Chloroethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Chloroform	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Chloromethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	cis-1,2-Dichloroethene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	cis-1,3-Dichloropropene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Dibromochloromethane	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Dibromofluoromethane	53	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Ethylbenzene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	m,p-Xylene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Methylene chloride	25	µg/Kg dry	25	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Methyl-t-Butyl Ether	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	

CollectionDate	Client SampID	Sample Type	Analyte	Conc.	Units	Detection Limit	Detection	Analytical Method	Estimated	Comments
12/17/2014 13:30	OL 517	N	o-Xylene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Percent Solids	79	wt%	0.10	Yes	SM 2540 G-1997	No	
12/17/2014 13:30	OL 517	N	Styrene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Tetrachloroethene	12000	µg/Kg dry	330	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Toluene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Toluene-d8	54	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Total 1,2-Dichloroethene	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Total Xylenes	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	trans-1,2-Dichloroethene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	trans-1,3-Dichloropropene	6.2	µg/Kg dry	6.2	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Trichloroethene	9.4	µg/Kg dry	6.2	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Trichlorofluoromethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Vinyl Acetate	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 517	N	Vinyl chloride	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,1,1,2-Tetrachloroethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,1,1-Trichloroethane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,1,2,2-Tetrachloroethane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,1,2-Trichloroethane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,1-Dichloroethane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,1-Dichloroethene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,2-Dichloroethane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,2-Dichloroethane-d4	55	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	1,2-Dichloropropane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	2-Butanone	38	µg/Kg dry	12	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	2-Hexanone	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	4-Bromofluorobenzene	50	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	4-Methyl-2-Pentanone	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Acetone	270	µg/Kg dry	59	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Acrolein	120	µg/Kg dry	120	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Acrylonitrile	120	µg/Kg dry	120	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Benzene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Bromodichloromethane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Bromoform	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Bromomethane	12	µg/Kg dry	12	No	SW-846 8260B	No	

CollectionDate	Client SampID	Sample Type	Analyte	Conc.	Units	Detection Limit	Detection	Analytical Method	Estimated	Comments
12/17/2014 13:30	OL 518	N	Carbon Disulfide	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Carbon tetrachloride	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Chlorobenzene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Chloroethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Chloroform	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Chloromethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	cis-1,2-Dichloroethene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	cis-1,3-Dichloropropene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Dibromochloromethane	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Dibromofluoromethane	53	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Ethylbenzene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	m,p-Xylene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Methylene chloride	24	µg/Kg dry	24	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Methyl-t-Butyl Ether	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	o-Xylene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Percent Solids	77	wt%	0.10	Yes	SM 2540 G-1997	No	
12/17/2014 13:30	OL 518	N	Styrene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Tetrachloroethene	2300	µg/Kg dry	360	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Toluene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Toluene-d8	53	µg/L		No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Total 1,2-Dichloroethene	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Total Xylenes	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	trans-1,2-Dichloroethene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	trans-1,3-Dichloropropene	5.9	µg/Kg dry	5.9	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Trichloroethene	8.1	µg/Kg dry	5.9	Yes	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Trichlorofluoromethane	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Vinyl Acetate	12	µg/Kg dry	12	No	SW-846 8260B	No	
12/17/2014 13:30	OL 518	N	Vinyl chloride	12	µg/Kg dry	12	No	SW-846 8260B	No	

LEVEL IV
QA/QC DATA PACKAGE

CLIENT:	Indiana Department of Environmental Management
PROJECT:	OL 517 -OL 518
LAB WORKORDER:	14L0854
DATE PACKAGE ISSUED:	1/14/2015

TABLE OF CONTENTS

CLIENT: **Indiana Department of Environmental Management**

PROJECT: **OL 517 -OL 518**

LAB WORKORDER: **14L0854**

CHAIN-OF-CUSTODY: **IDEM**

CONTENTS:	Page		Page
Table of Contents	2	to	2
Volatile Organic Compound (VOC) Analysis			
Case Narrative	4	to	5
Holding Time Summary	6	to	7
Summary Forms:			
Form I, Results and Raw Data	8	to	48
Form II, Surrogates Summary	49	to	51
Form III, LCS/MS/MSD Summary	52	to	62
Form IV, Blank Summary	63	to	65
Form V, Tune Check Summary	66	to	70
Form VI, Initial Calibration Summary	71	to	83
Form VII, Continuing Calibration Summary	84	to	92
Form VIII, Internal Standard/RT Summary	93	to	95
Tuning Raw Data	96	to	100
Standard Raw Data	101	to	161
QC Form I and Raw Data	162	to	198
Soil Preparation Log	199	to	200
Bench Sheet(s)/Injection Log(s)	201	to	207
Chain(s) of Custody	208	to	209
Internal Chain of Custody Log(s)	210	to	211
Percent Solids Raw Data	212	to	213

VOA GC/MS ANALYSIS

VOA CASE NARRATIVE

Case Narrative
VOA Analysis

Client: Indiana Department of Environmental Management

Project: OL 517 -OL 518

Laboratory #: 14L0854

Two solid samples were received on 12/18/2014 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The solid samples were analyzed for Volatile Organic Analytes using SW-846 Method 5035/8260B, as well as for Percent Solids using Standard Method 2540 G-1997. The solids data were used to calculate the dry-weight concentration of the analytes.

The samples were collected on 12/17/2014 and then analyzed on 12/23/2014 and 12/29/2014. The samples were analyzed within the prescribed maximum allowable holding time.

The required instrument calibration was performed and the acceptance criteria met. Where quadratic or linear regression was used for evaluation of the Initial Calibration, the CCVs were evaluated by calculating the percent recovery based on the concentration of the standard used and meeting the acceptance criteria. The acrolein ICV associated with the MEOH112514 ICAL and SOIL120314 ICAL on VOA-2 failed the accuracy criteria with a high bias. Acrolein is not reported above the reporting limit in any of the samples.

Prior to analysis, the resultant mass spectra for BFB met all method criteria, and the samples were analyzed within a 12-hour analytical sequence.

Prior to daily analysis, a CCV standard was analyzed and the acceptance criteria met for all CCCs and SPCCs.

Surrogate compounds are spiked into each sample to evaluate analysis efficiency. The environmental samples yielded acceptable surrogate recovery without exception.

Internal standards are spiked into each CCV standard and environmental sample. All internal standard responses met the criteria established for the CCVs and samples.

The batch quality control tests were performed and the acceptance criteria met without exception.

Sample matrix analysis was performed on the OL518 sample. The accuracy criteria was not met for 1,1,2-trichloroethane, acetone, and tetrachloroethene, and the precision criteria was not met for tetrachloroethene. See the report narrative and CLP forms for specific batch and matrix quality control information.

This Case Narrative was prepared by Matthew Sheehy, QA Specialist.

VOA HOLDING TIME SUMMARY

HOLDING TIME SUMMARY

SW-846 8260B

Laboratory: Microbac Laboratories, Inc. - Chicagoland SDG: 14L0854

Client: IDEM - Indianapolis, IN Project: LQ - LQ

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
OL 517	12/17/14 13:30	12/18/14 13:20	12/23/14 08:38	6.00	14.00	12/23/14 12:12	0.15		
OL 517	12/17/14 13:30	12/18/14 13:20	12/29/14 08:31	12.00	14.00	12/29/14 11:45	0.13		
OL 518	12/17/14 13:30	12/18/14 13:20	12/23/14 08:38	6.00	14.00	12/23/14 12:41	0.17		
OL 518	12/17/14 13:30	12/18/14 13:20	12/29/14 08:31	12.00	14.00	12/29/14 12:14	0.15		

VOA FORM I: RESULTS AND RAW DATA

ORGANIC ANALYSIS DATA SHEET

SW-846 8260B

OL 517

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	14L0854-01	File ID:	B122306.D
Sampled:	12/17/14 13:30	Prepared:	12/23/14 08:38	Analyzed:	12/23/14 12:12
Solids:	79.00	Preparation:	soil prep	Initial/Final:	5.11 g / 5 ml
Batch:	B064000	Sequence:	S021758	Calibration:	0000296
Instrument:	VOA-2				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/Kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	12	U
71-55-6	1,1,1-Trichloroethane	1	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	6.2	U
79-00-5	1,1,2-Trichloroethane	1	6.2	U
75-34-3	1,1-Dichloroethane	1	6.2	U
75-35-4	1,1-Dichloroethene	1	6.2	U
107-06-2	1,2-Dichloroethane	1	6.2	U
78-87-5	1,2-Dichloropropane	1	6.2	U
78-93-3	2-Butanone	1	38	
591-78-6	2-Hexanone	1	6.2	U
108-10-1	4-Methyl-2-Pentanone	1	6.2	U
67-64-1	Acetone	1	260	E
107-02-8	Acrolein	1	120	U
107-13-1	Acrylonitrile	1	120	U
71-43-2	Benzene	1	6.2	U
75-27-4	Bromodichloromethane	1	6.2	U
75-25-2	Bromoform	1	6.2	U
74-83-9	Bromomethane	1	12	U
75-15-0	Carbon Disulfide	1	12	U
56-23-5	Carbon tetrachloride	1	6.2	U
108-90-7	Chlorobenzene	1	6.2	U
75-00-3	Chloroethane	1	12	U
67-66-3	Chloroform	1	6.2	U
74-87-3	Chloromethane	1	12	U
156-59-2	cis-1,2-Dichloroethene	1	6.2	U
10061-01-5	cis-1,3-Dichloropropene	1	6.2	U
124-48-1	Dibromochloromethane	1	6.2	U
100-41-4	Ethylbenzene	1	6.2	U
179601-23-1	m,p-Xylene	1	6.2	U
75-09-2	Methylene chloride	1	25	U
1634-04-4	Methyl-t-Butyl Ether	1	6.2	U
95-47-6	o-Xylene	1	6.2	U
100-42-5	Styrene	1	6.2	U
108-88-3	Toluene	1	6.2	U
156-60-5	trans-1,2-Dichloroethene	1	6.2	U
10061-02-6	trans-1,3-Dichloropropene	1	6.2	U
79-01-6	Trichloroethene	1	9.4	
25323-30-2	Total 1,2-Dichloroethene	1	12	U
75-69-4	Trichlorofluoromethane	1	12	U
108-05-4	Vinyl Acetate	1	12	U

ORGANIC ANALYSIS DATA SHEET

SW-846 8260B

OL 517

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	14L0854-01	File ID:	B122306.D
Sampled:	12/17/14 13:30	Prepared:	12/23/14 08:38	Analyzed:	12/23/14 12:12
Solids:	79.00	Preparation:	soil prep	Initial/Final:	5.11 g / 5 ml
Batch:	B064000	Sequence:	S021758	Calibration:	0000296
Instrument:	VOA-2				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/Kg dry)	Q
75-01-4	Vinyl chloride	1	12	U
1330-20-7T	Total Xylenes	1	6.2	U

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122306.D Vial: 4
Acq On : 23 Dec 2014 12:12 pm Operator: jln
Sample : 14L0854-01 Inst : VOA2
Misc : 8260_5035_SB Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:09:52 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

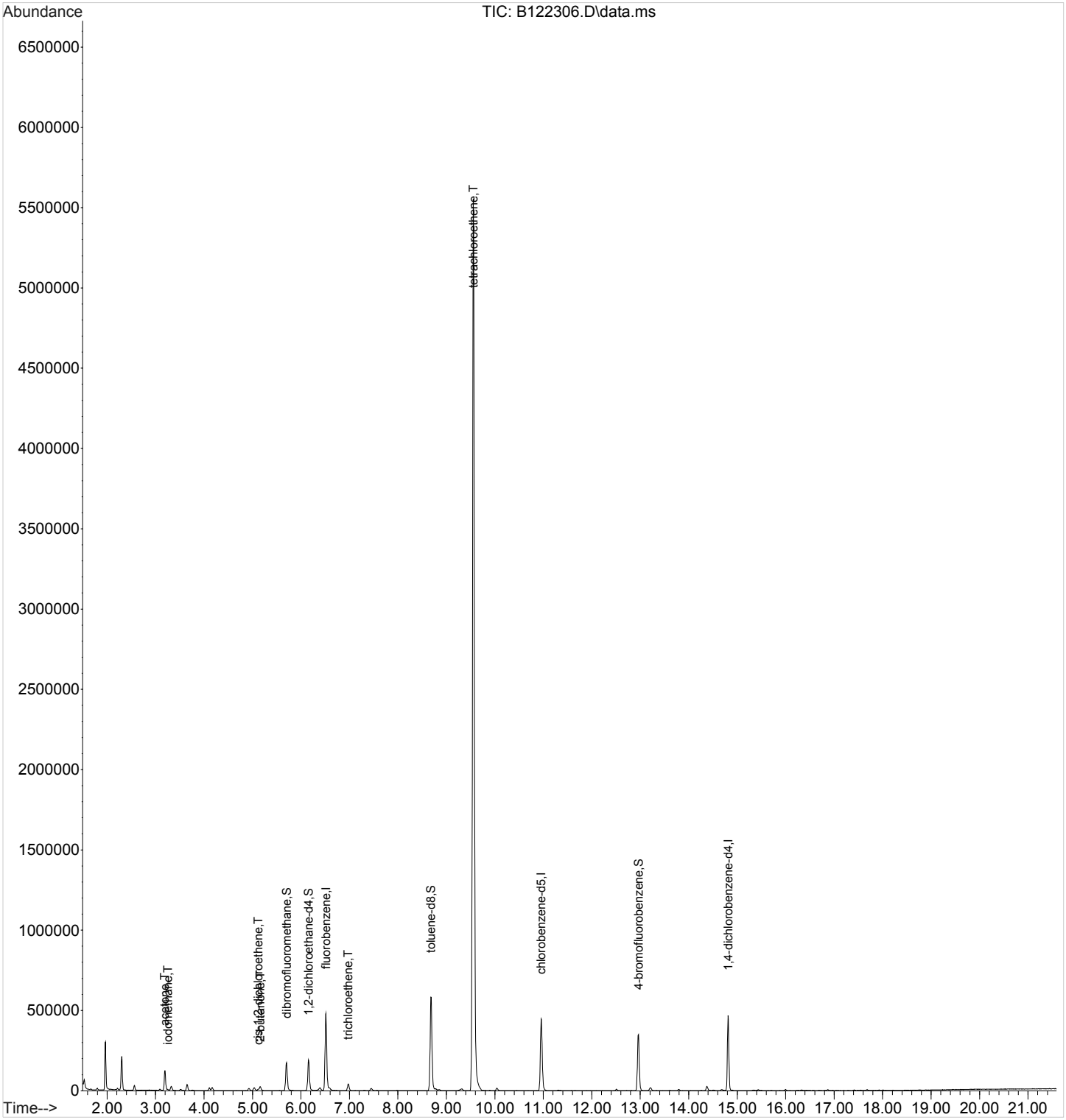
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.516	96	579650	50.00	ug/L	0.00
44) chlorobenzene-d5	10.955	117	391728	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.811	152	174318	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.701	113	135768	53.24	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 106.48%			
33) 1,2-dichloroethane-d4	6.157	65	167073	53.79	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 107.58%			
47) toluene-d8	8.681	98	583637	54.04	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 108.08%			
66) 4-bromofluorobenzene	12.962	95	186749	49.48	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 98.96%			
Target Compounds						Qvalue
6) bromomethane	2.174	94	1062	Below Cal		86
12) acetone	3.189	43	171024	211.63	ug/L	99
13) iodomethane	3.250	142	5443	7.28	ug/L	98
20) hexane	4.114	57	10325	Below Cal		99
23) cis-1,2-dichloroethene	5.117	96	4237	1.55	ug/L #	84
25) 2-butanone	5.160	43	40279	30.58	ug/L	99
37) trichloroethene	6.972	95	18817	7.60	ug/L	97
51) tetrachloroethene	9.557	164	2144279	1066.35	ug/L	99

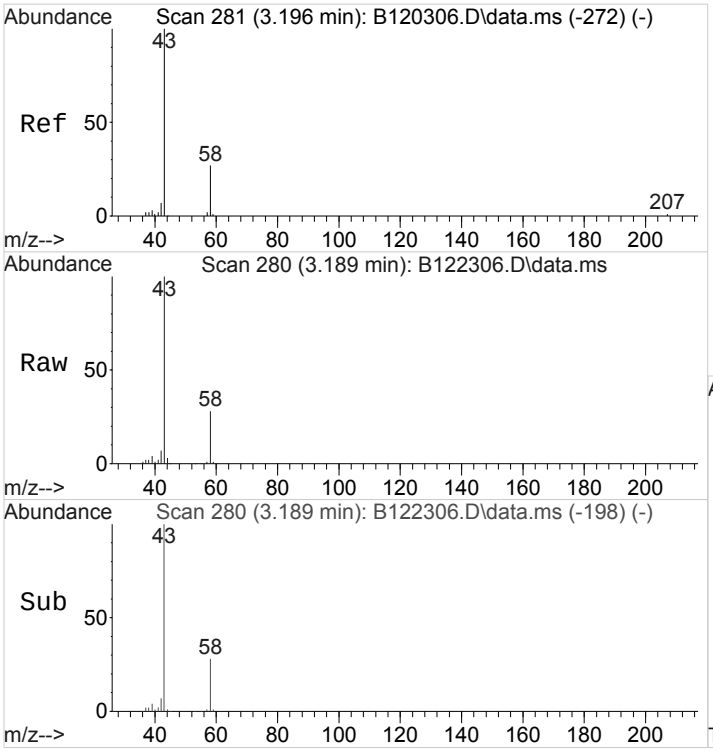
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122306.D Vial: 4
Acq On : 23 Dec 2014 12:12 pm Operator: jln
Sample : 14L0854-01 Inst : VOA2
Misc : 8260_5035_SB Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:09:52 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

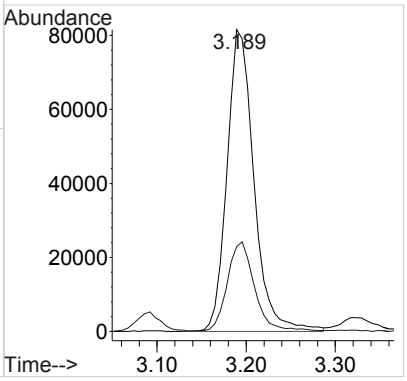


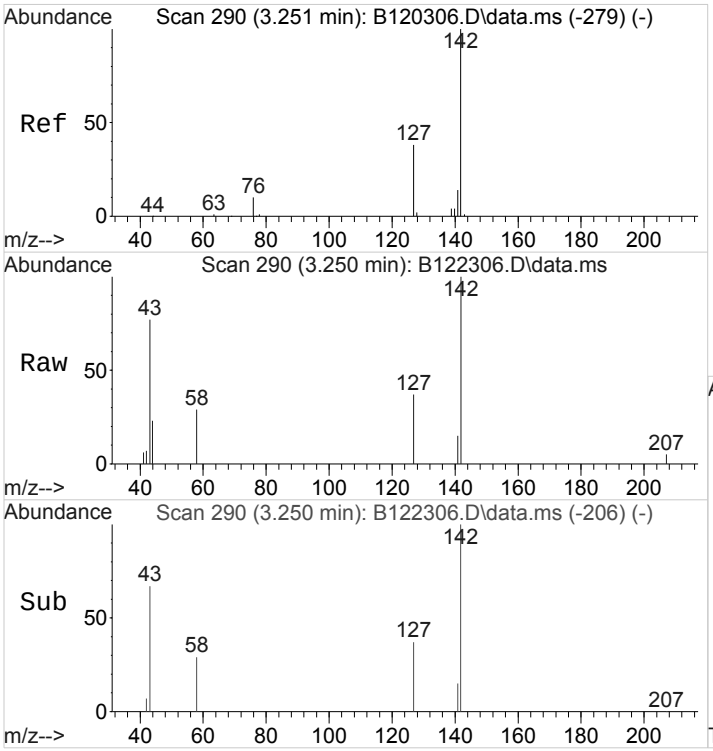


#12
acetone
Concen: 211.63 ug/L
RT: 3.189 min Scan# 280
Delta R.T. -0.003 min
Lab File: B122306.D
Acq: 23 Dec 2014 12:12 pm

Tgt Ion: 43 Resp: 171024

Ion	Ratio	Lower	Upper
43	100		
58	27.7	7.2	47.2

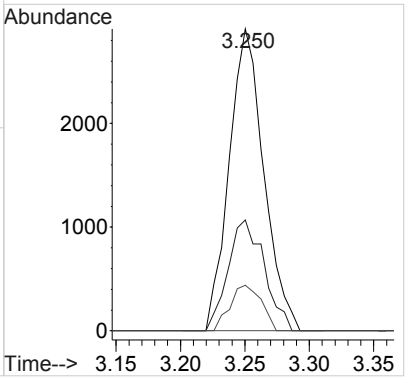


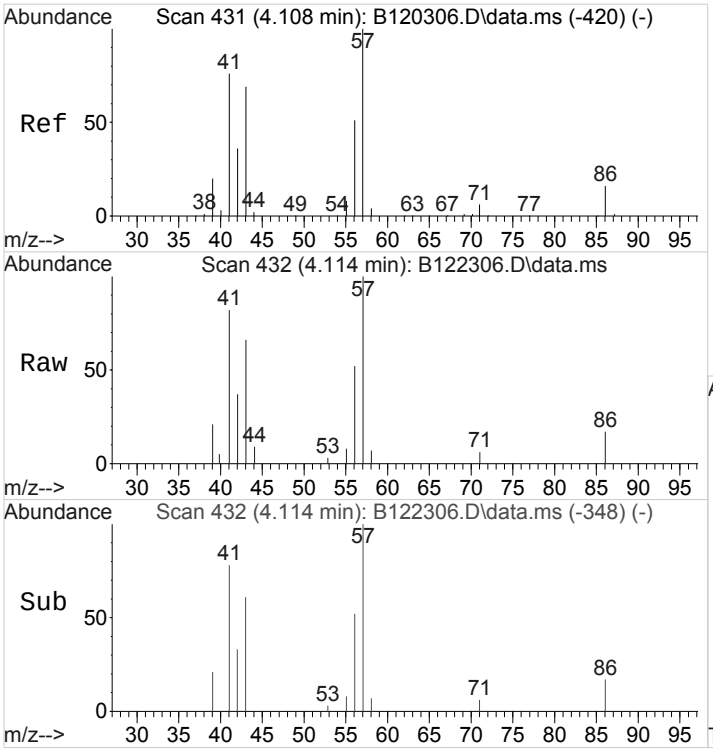


#13
iodomethane
Concen: 7.28 ug/L
RT: 3.250 min Scan# 290
Delta R.T. 0.010 min
Lab File: B122306.D
Acq: 23 Dec 2014 12:12 pm

Tgt Ion:142 Resp: 5443

Ion	Ratio	Lower	Upper
142	100		
127	36.7	17.9	57.9
141	15.0	0.0	34.1

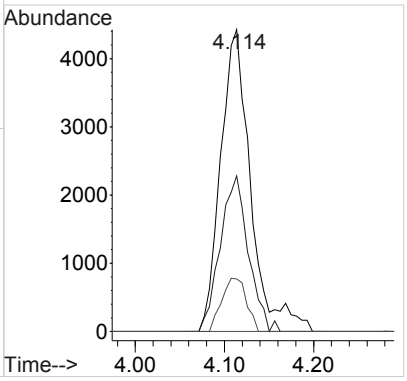


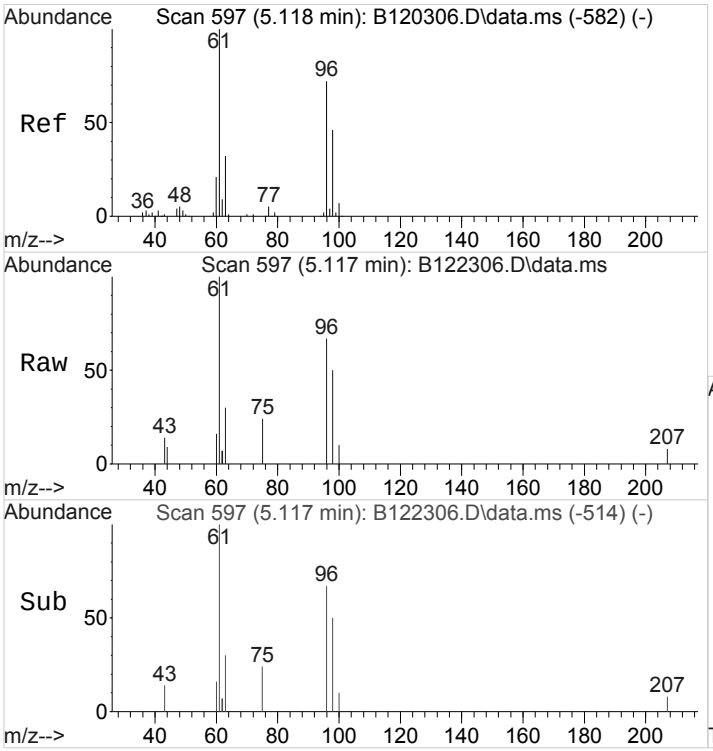


#20
hexane
Concen: Below Cal
RT: 4.114 min Scan# 432
Delta R.T. 0.010 min
Lab File: B122306.D
Acq: 23 Dec 2014 12:12 pm

Tgt Ion: 57 Resp: 10325

Ion	Ratio	Lower	Upper
57	100		
56	51.5	31.3	71.3
86	17.3	0.0	36.1

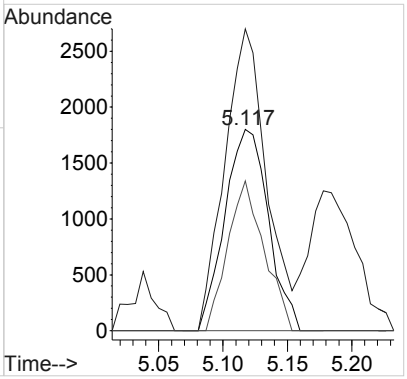


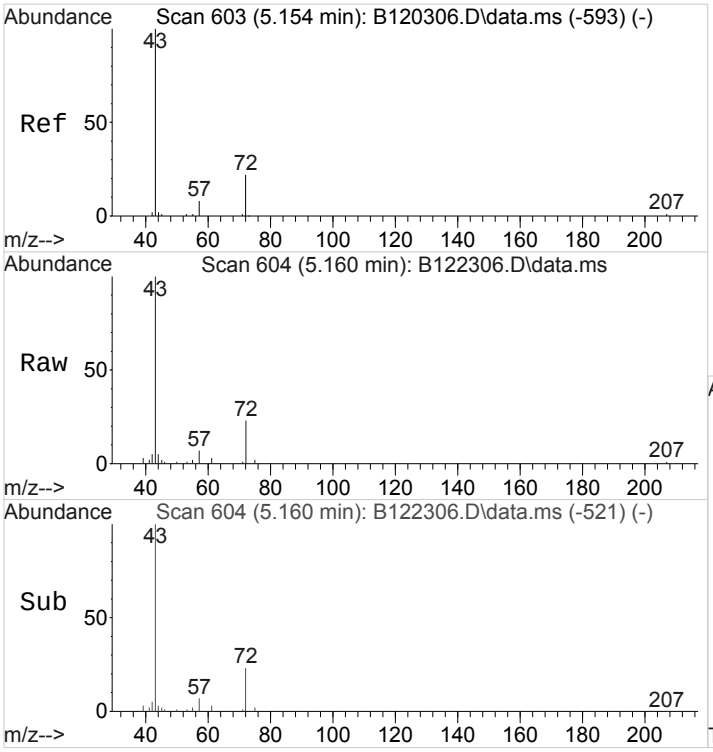


#23
cis-1,2-dichloroethene
Concen: 1.55 ug/L
RT: 5.117 min Scan# 597
Delta R.T. 0.003 min
Lab File: B122306.D
Acq: 23 Dec 2014 12:12 pm

Tgt Ion: 96 Resp: 4237

Ion	Ratio	Lower	Upper
96	100		
61	160.9	119.8	159.8#
98	74.4	44.1	84.1

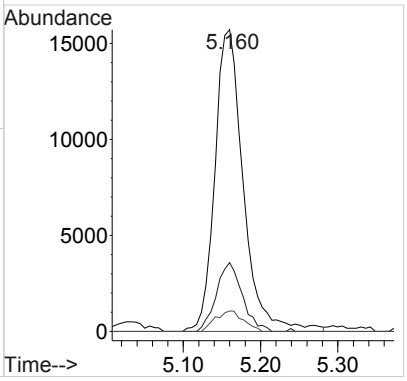


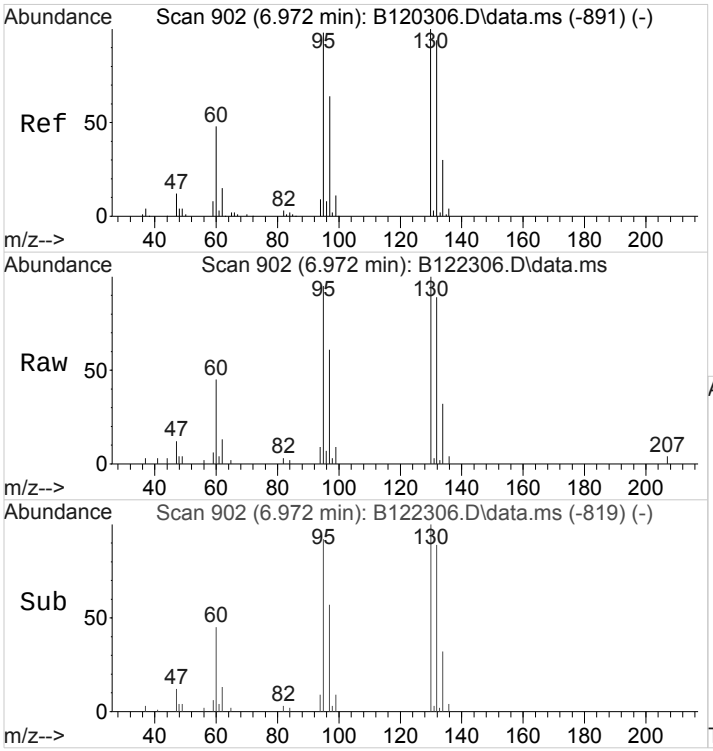


#25
2-butanone
Concen: 30.58 ug/L
RT: 5.160 min Scan# 604
Delta R.T. 0.004 min
Lab File: B122306.D
Acq: 23 Dec 2014 12:12 pm

Tgt Ion: 43 Resp: 40279

Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.2	27.2
57	6.8	6.0	9.0

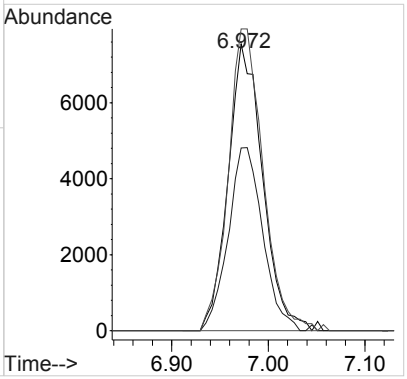


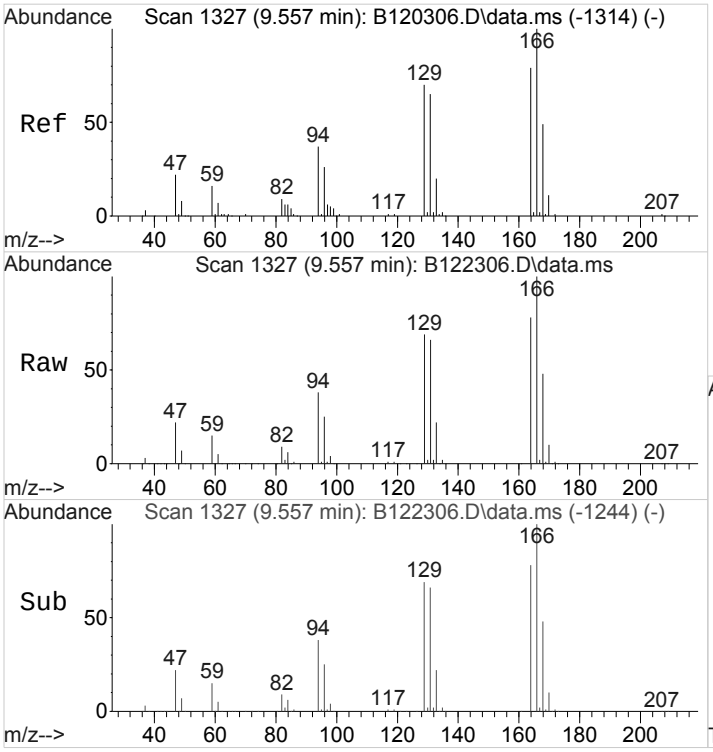


#37
trichloroethene
Concen: 7.60 ug/L
RT: 6.972 min Scan# 902
Delta R.T. 0.003 min
Lab File: B122306.D
Acq: 23 Dec 2014 12:12 pm

Tgt Ion: 95 Resp: 18817

Ion	Ratio	Lower	Upper
95	100		
97	63.8	45.1	85.1
130	105.3	81.6	121.6

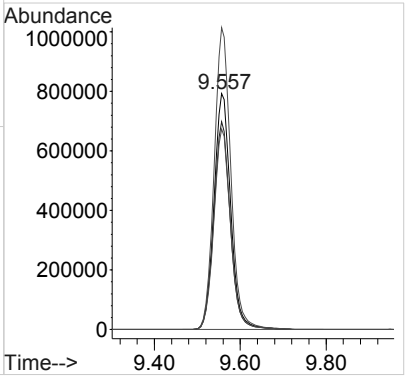




#51
tetrachloroethene
Concen: 1066.35 ug/L
RT: 9.557 min Scan# 1327
Delta R.T. 0.003 min
Lab File: B122306.D
Acq: 23 Dec 2014 12:12 pm

Tgt Ion:164 Resp: 2144279

Ion	Ratio	Lower	Upper
164	100		
129	88.1	68.8	108.8
131	85.0	62.9	102.9
166	128.0	107.3	147.3



ORGANIC ANALYSIS DATA SHEET

SW-846 8260B

OL 517

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	14L0854-01RE1	File ID:	B122905.D
Sampled:	12/17/14 13:30	Prepared:	12/29/14 08:31	Analyzed:	12/29/14 11:45
Solids:	79.00	Preparation:	soil prep	Initial/Final:	4.747 g / 5 ml
Batch:	B064092	Sequence:	S021800	Calibration:	0000296
Instrument:	VOA-2				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/Kg dry)	Q
127-18-4	Tetrachloroethene	50	12000	D

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122905.D Vial: 4
Acq On : 29 Dec 2014 11:45 am Operator: jln
Sample : 14L0854-01re1 Inst : VOA2
Misc : 8260_5035_sb Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 14:53:16 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

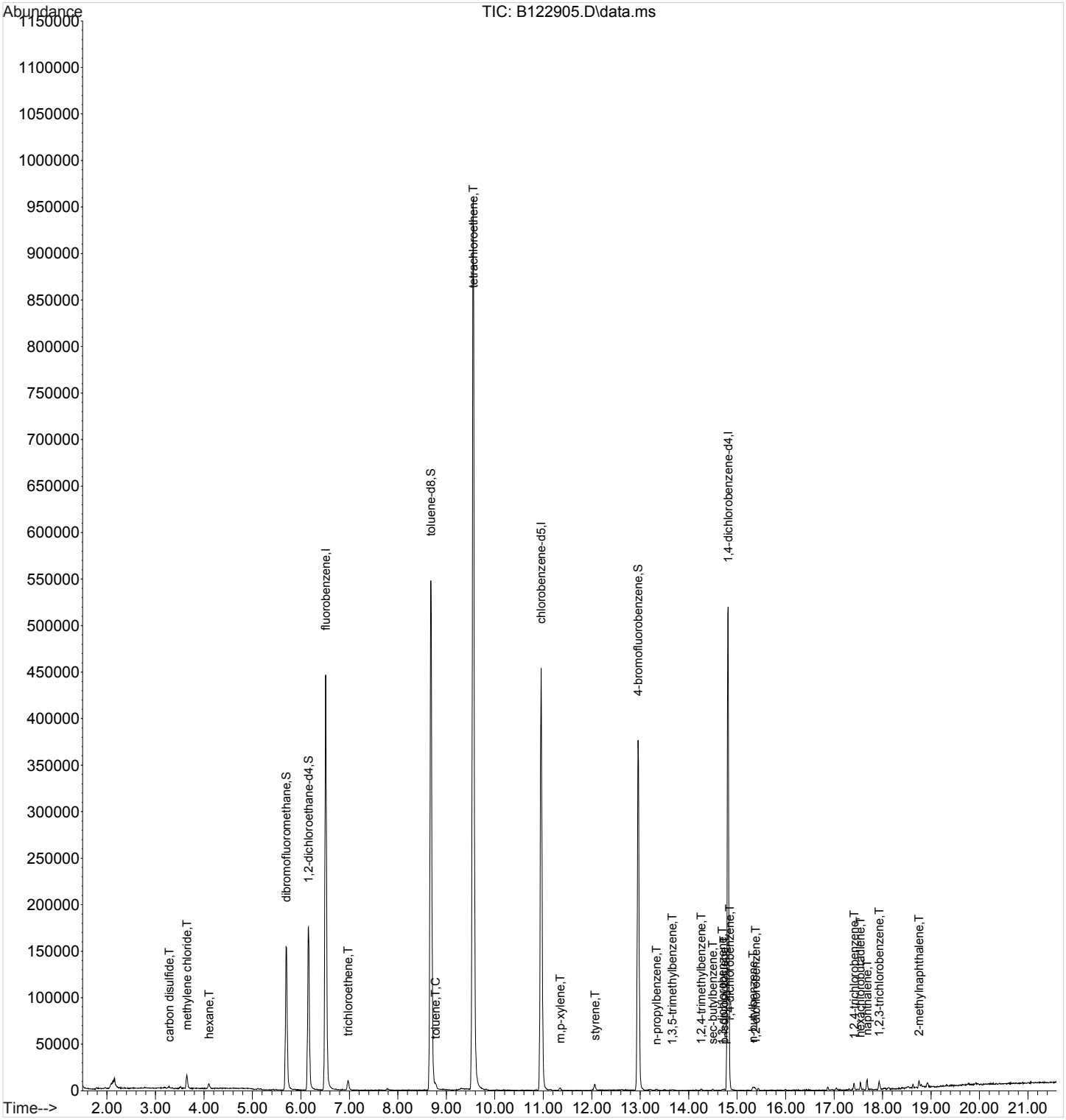
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	535529	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	388933	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	196816	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.696	113	122086	51.48	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.96%			
33) 1,2-dichloroethane-d4	6.158	65	158225	52.32	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 104.64%			
47) toluene-d8	8.682	98	544967	52.11	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.22%			
66) 4-bromofluorobenzene	12.957	95	195611	50.77	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.54%			
Target Compounds						Qvalue
13) acetone	3.184	58	147	Below Cal	#	4
14) carbon disulfide	3.281	76	2227	0.32	ug/L	83
15) methylene chloride	3.646	84	6916	1.01	ug/L	95
20) hexane	4.102	57	2772	0.67	ug/L #	99
23) cis-1,2-dichloroethene	5.118	96	873	Below Cal	#	79
37) trichloroethene	6.973	95	4776	1.93	ug/L	99
48) toluene	8.779	92	2488	0.38	ug/L #	80
51) tetrachloroethene	9.557	164	384254	187.26	ug/L	98
59) m,p-xylene	11.351	106	1658	0.36	ug/L #	62
62) styrene	12.069	104	4930	0.62	ug/L	89
69) n-propylbenzene	13.334	91	2190	0.17	ug/L	98
72) 1,3,5-trimethylbenzene	13.662	105	1258	0.14	ug/L	96
76) sec-butylbenzene	14.495	105	1903	0.18	ug/L #	85
77) 1,2,4-trimethylbenzene	14.258	105	1763	0.20	ug/L	100
78) 1,3-dichlorobenzene	14.690	146	1106	0.23	ug/L	82
79) p-isopropyltoluene	14.733	119	1851	0.21	ug/L	90
81) 1,4-dichlorobenzene	14.848	146	1680	0.34	ug/L	98
82) 1,2-dichlorobenzene	15.383	146	1299	0.28	ug/L	81
83) n-butylbenzene	15.329	91	2935	0.39	ug/L	92
85) 1,2,4-trichlorobenzene	17.414	180	2850	1.12	ug/L	96
86) hexachlorobutadiene	17.542	225	1813	1.41	ug/L	98
87) naphthalene	17.682	128	8222	1.35	ug/L	100
88) 1,2,3-trichlorobenzene	17.931	180	3432	1.76	ug/L	100
89) 2-methylnaphthalene	18.752	142	4815	3.58	ug/L	97

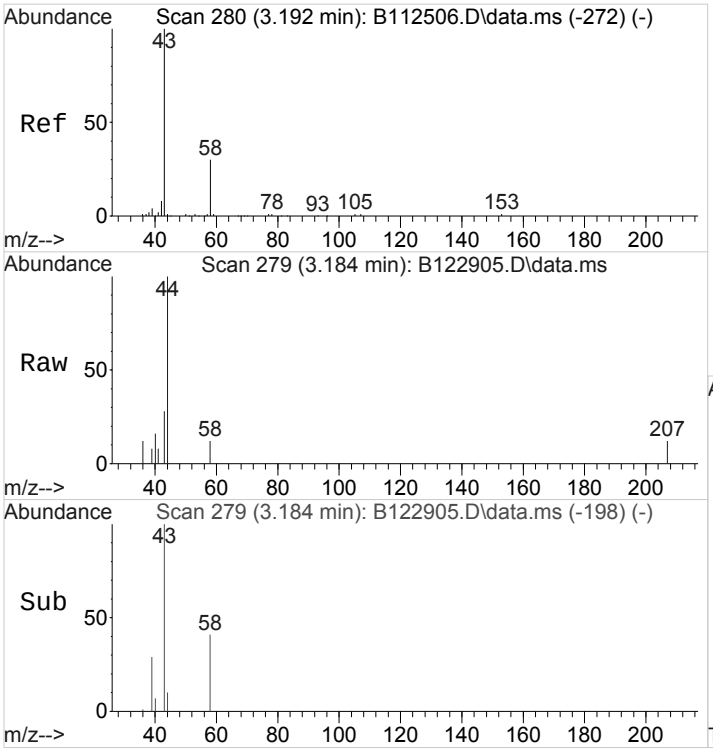
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122905.D Vial: 4
Acq On : 29 Dec 2014 11:45 am Operator: jln
Sample : 14L0854-01re1 Inst : VOA2
Misc : 8260_5035_sb Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 14:53:16 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

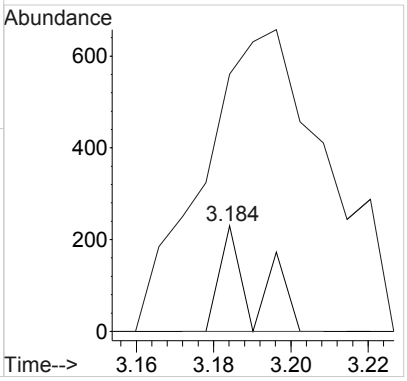


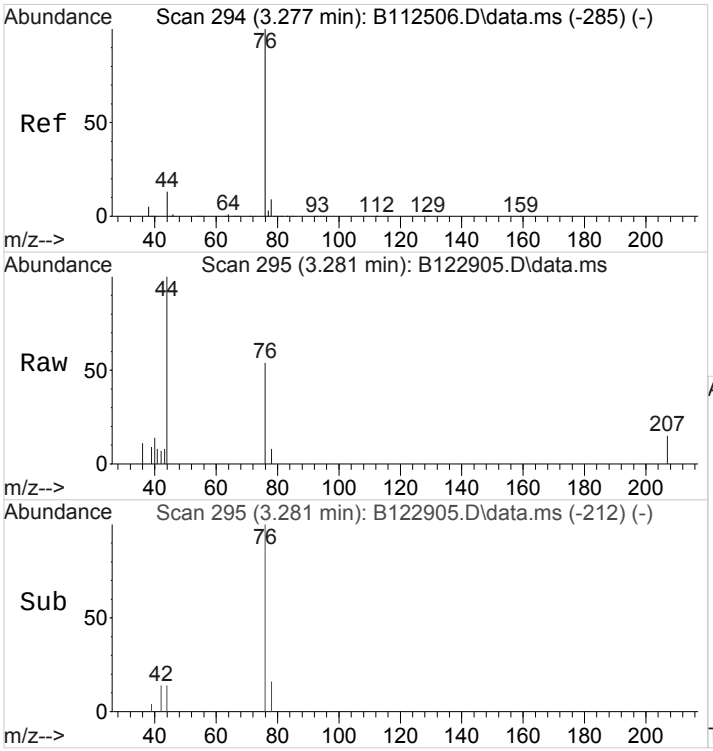


#13
acetone
Concen: Below Cal
RT: 3.184 min Scan# 279
Delta R.T. -0.008 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 58 Resp: 147

Ion	Ratio	Lower	Upper
58	100		
43	135.2	318.5	358.5#

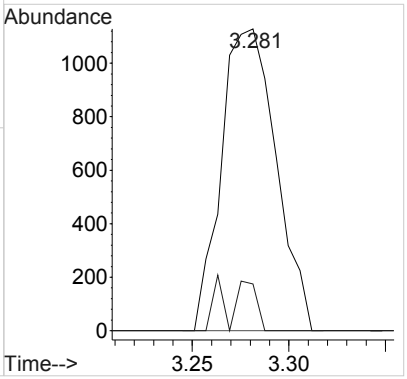


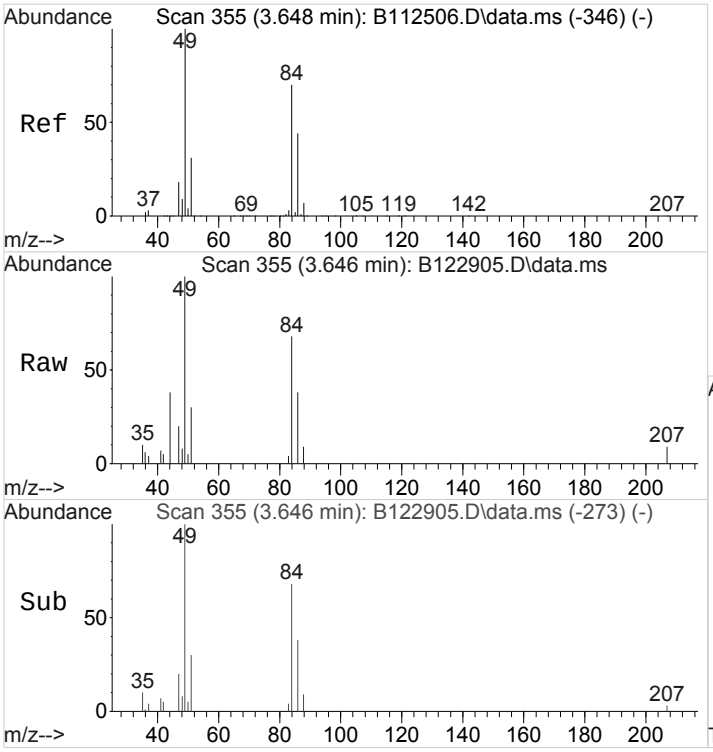


#14
carbon disulfide
Concen: 0.32 ug/L
RT: 3.281 min Scan# 295
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 76 Resp: 2227

Ion	Ratio	Lower	Upper
76	100		
78	15.5	0.0	29.3

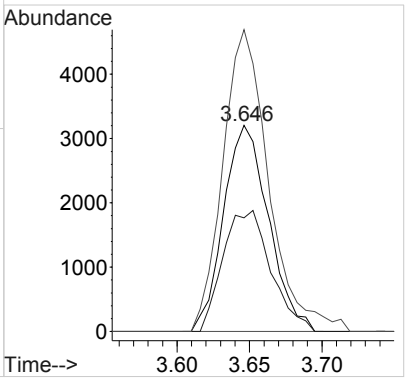


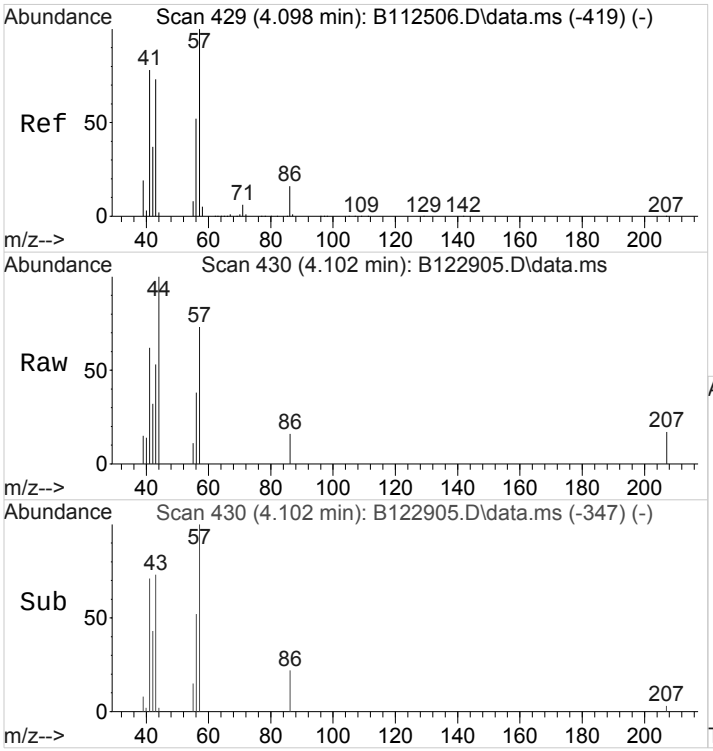


#15
methylene chloride
Concen: 1.01 ug/L
RT: 3.646 min Scan# 355
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 84 Resp: 6916

Ion	Ratio	Lower	Upper
84	100		
86	55.1	42.3	82.3
49	146.4	122.2	162.2

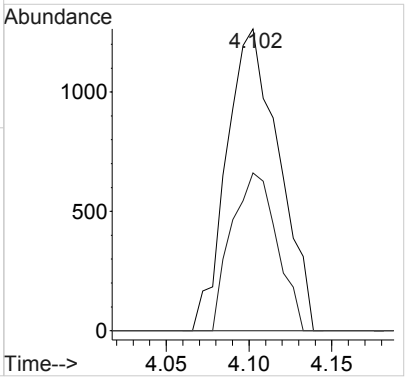


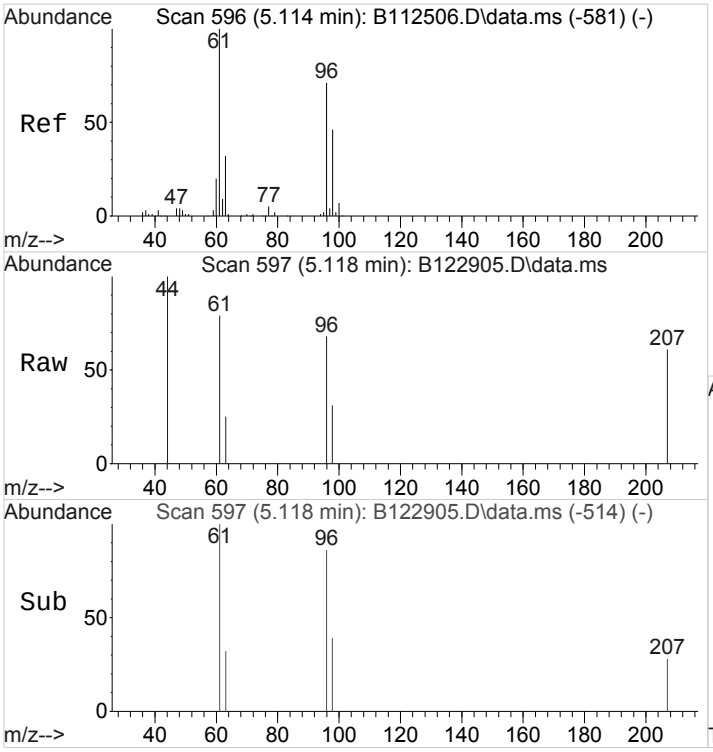


#20
hexane
Concen: 0.67 ug/L
RT: 4.102 min Scan# 430
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 57 Resp: 2772

Ion	Ratio	Lower	Upper
57	100		
56	52.3	41.4	62.2
80	0.0	0.1	0.1#

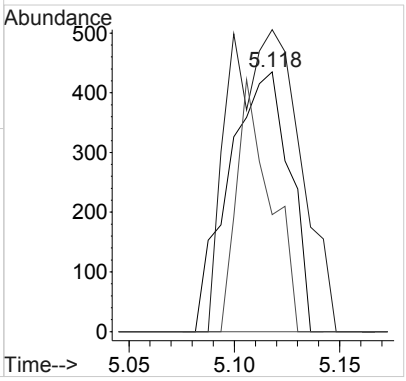


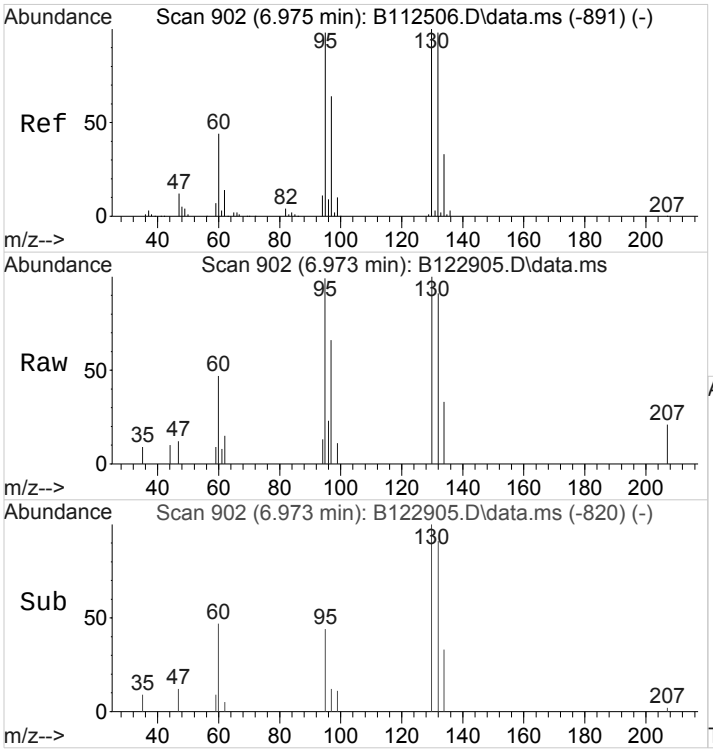


#23
cis-1,2-dichloroethene
Concen: Below Cal
RT: 5.118 min Scan# 597
Delta R.T. 0.005 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 96 Resp: 873

Ion	Ratio	Lower	Upper
96	100		
61	116.3	120.7	160.7#
98	45.1	44.2	84.2

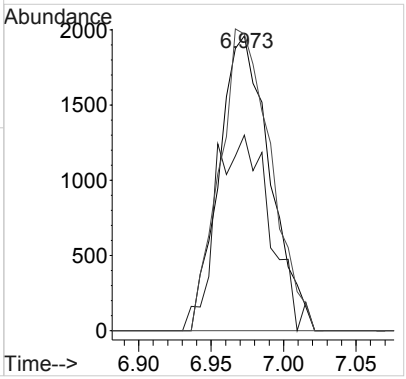


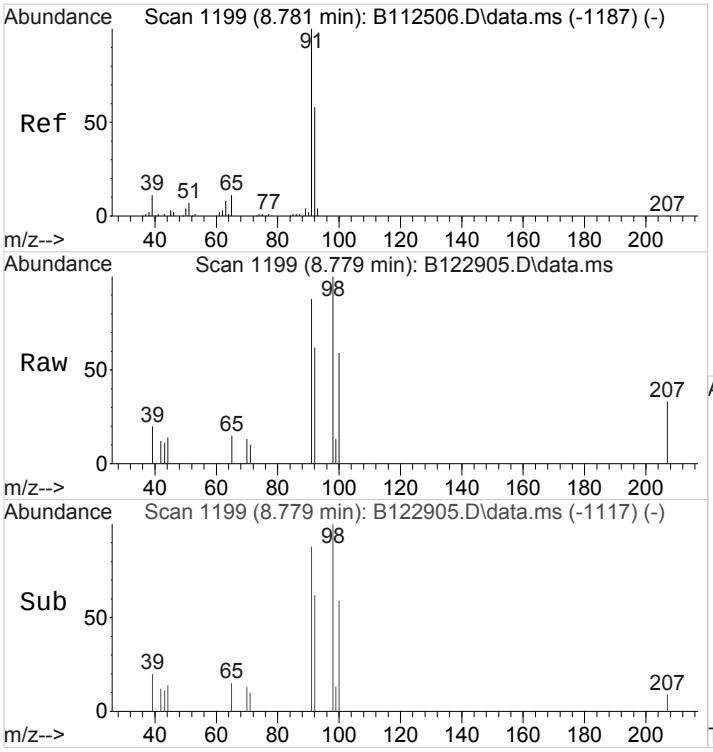


#37
trichloroethene
Concen: 1.93 ug/L
RT: 6.973 min Scan# 902
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 95 Resp: 4776

Ion	Ratio	Lower	Upper
95	100		
97	66.4	46.0	86.0
130	100.7	82.4	122.4

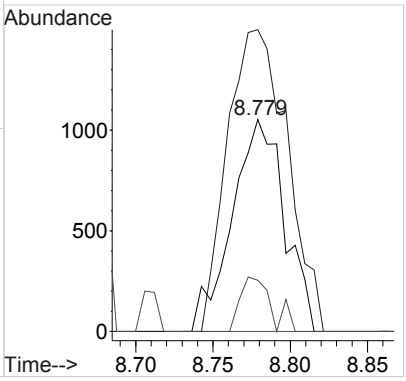


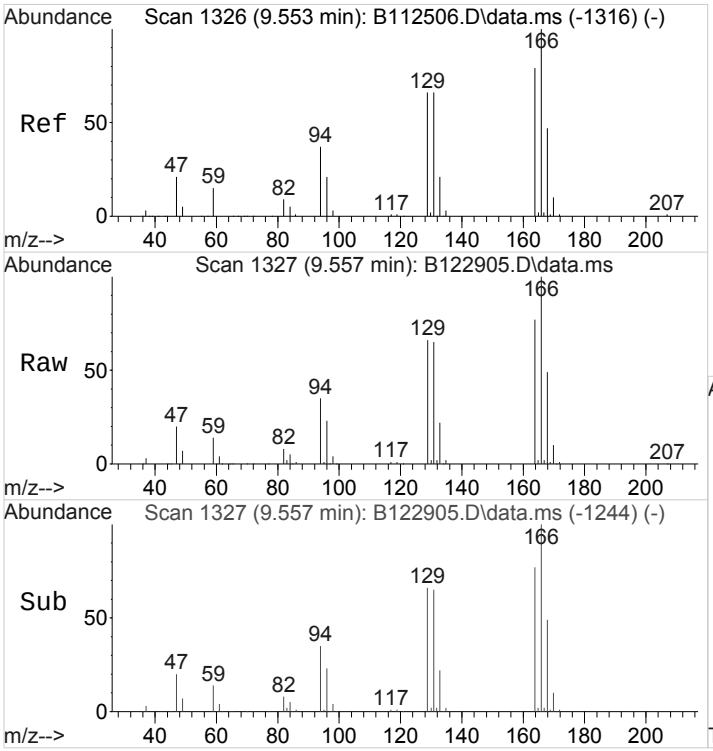


#48
toluene
Concen: 0.38 ug/L
RT: 8.779 min Scan# 1199
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 92 Resp: 2488

Ion	Ratio	Lower	Upper
92	100		
91	142.5	151.2	191.2#
65	24.1	0.0	39.4

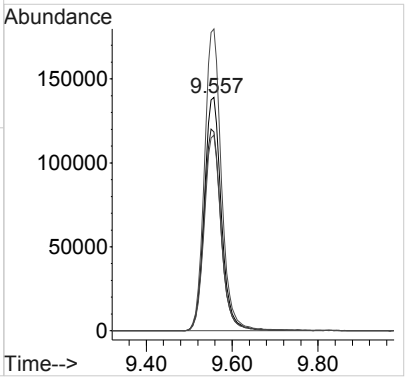


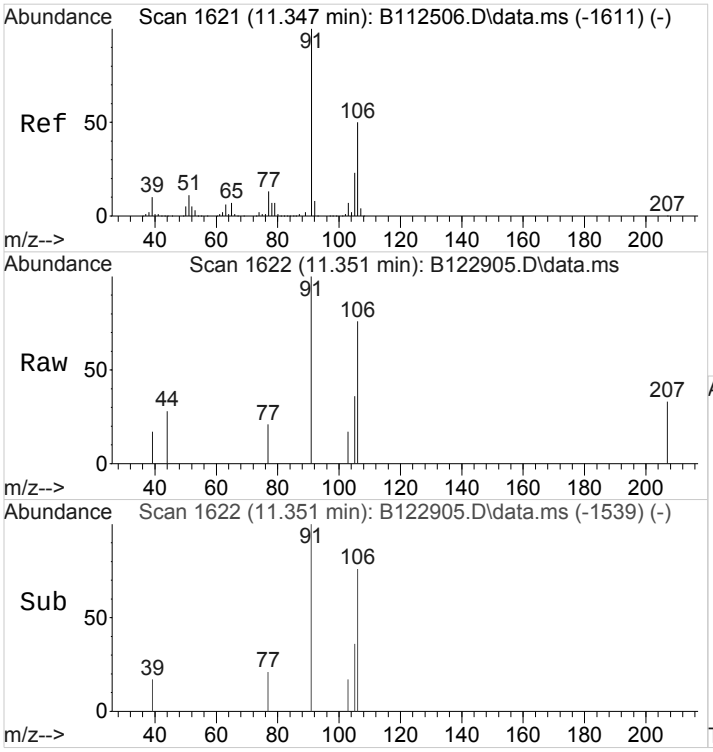


#51
tetrachloroethene
Concen: 187.26 ug/L
RT: 9.557 min Scan# 1327
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:164 Resp: 384254

Ion	Ratio	Lower	Upper
164	100		
129	85.2	63.2	103.2
131	83.8	63.3	103.3
166	129.4	106.8	146.8

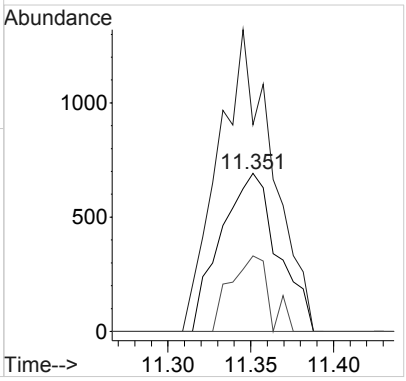


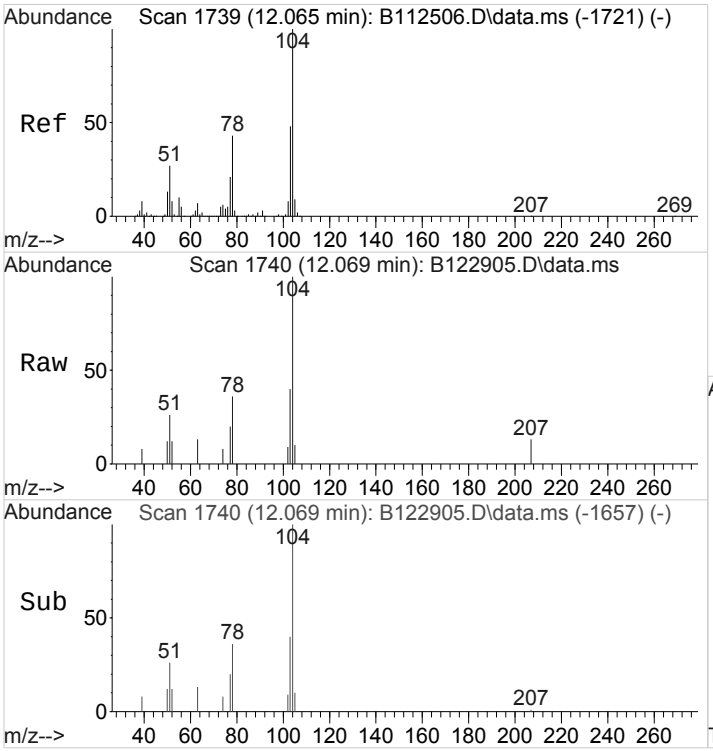


#59
m,p-xylene
Concen: 0.36 ug/L
RT: 11.351 min Scan# 1622
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:106 Resp: 1658

Ion	Ratio	Lower	Upper
106	100		
91	130.8	179.7	219.7#
105	47.7	25.2	65.2

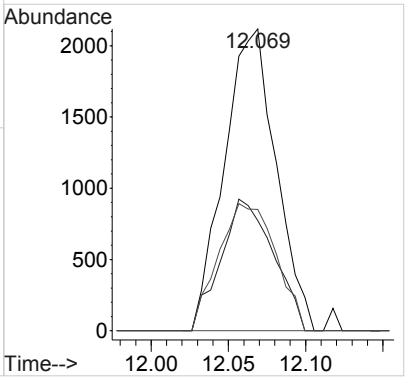


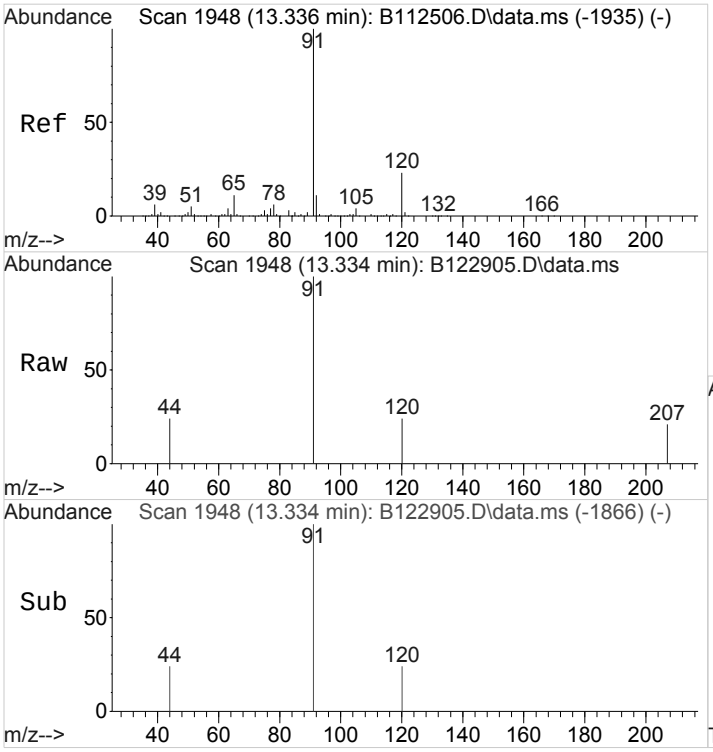


#62
styrene
Concen: 0.62 ug/L
RT: 12.069 min Scan# 1740
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:104 Resp: 4930

Ion	Ratio	Lower	Upper
104	100		
78	36.5	23.0	63.0
103	40.2	28.1	68.1

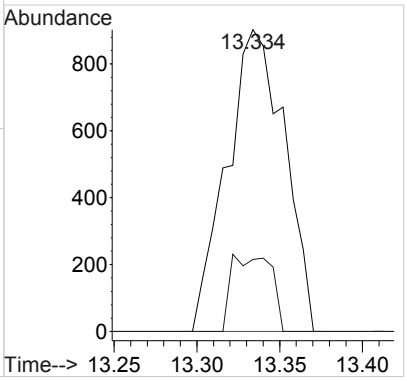


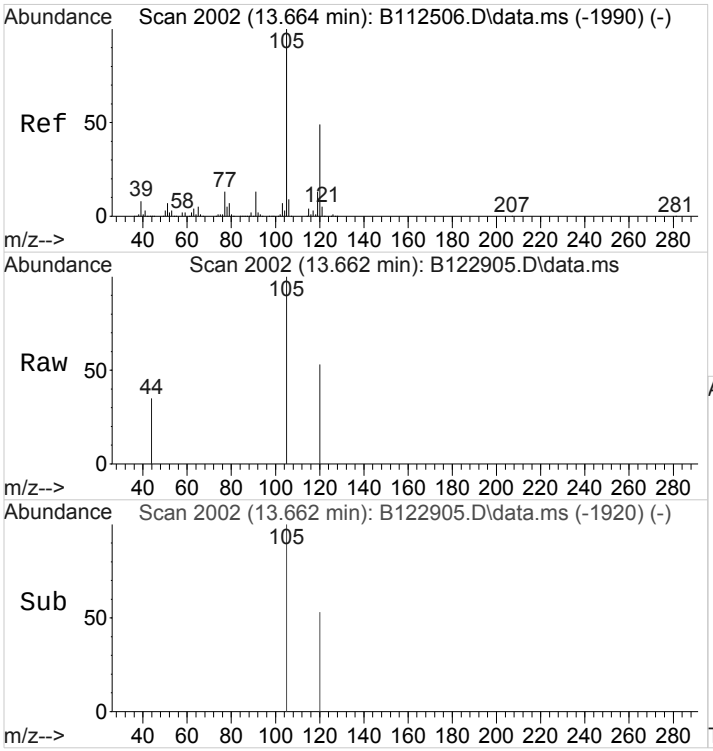


#69
n-propylbenzene
Concen: 0.17 ug/L
RT: 13.334 min Scan# 1948
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 91 Resp: 2190

Ion	Ratio	Lower	Upper
91	100		
120	23.9	18.3	27.5

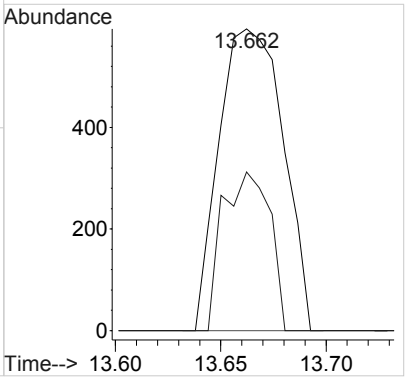


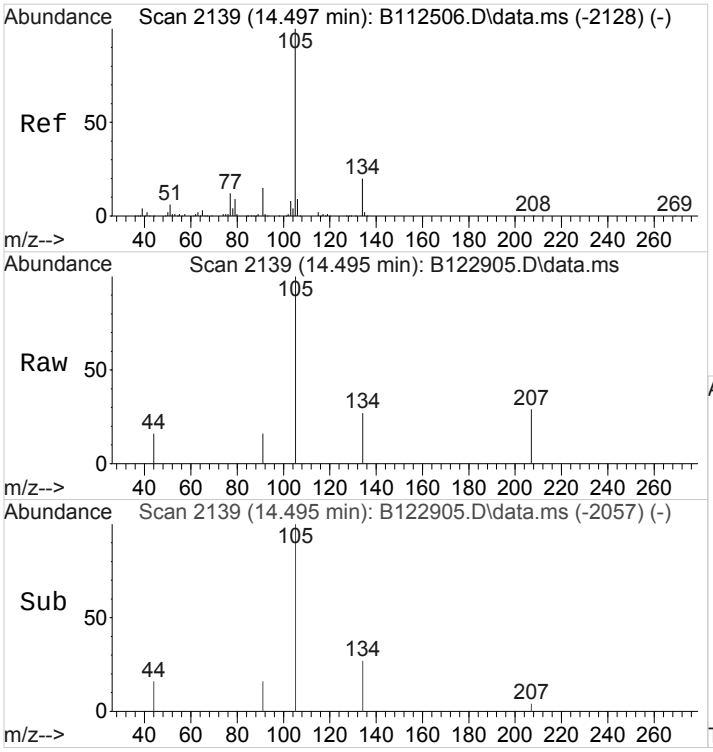


#72
1,3,5-trimethylbenzene
Concen: 0.14 ug/L
RT: 13.662 min Scan# 2002
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:105 Resp: 1258

Ion	Ratio	Lower	Upper
105	100		
120	52.5	39.6	59.4

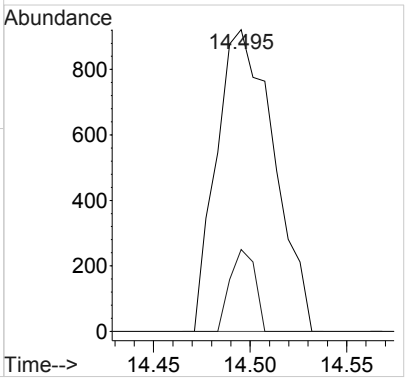


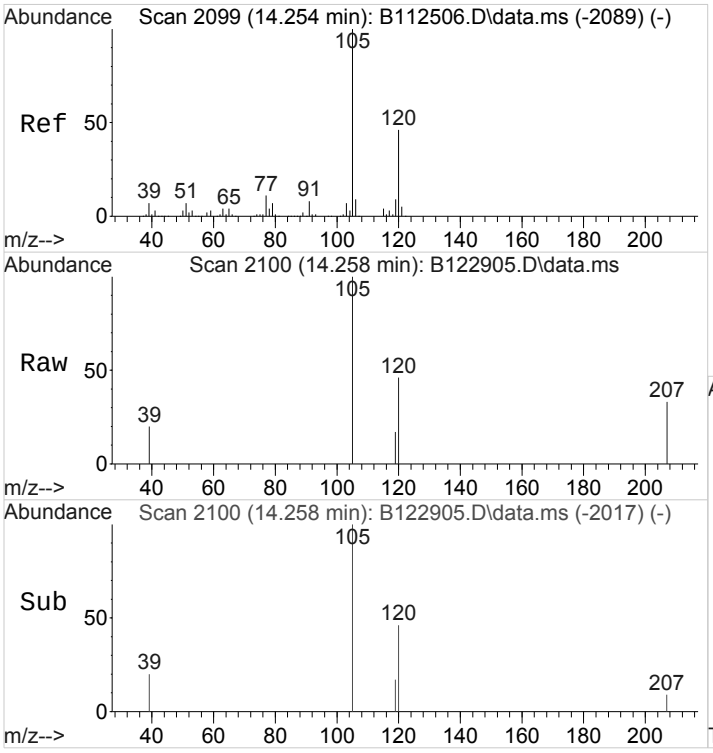


#76
sec-butylbenzene
Concen: 0.18 ug/L
RT: 14.495 min Scan# 2139
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:105 Resp: 1903

Ion	Ratio	Lower	Upper
105	100		
134	27.1	16.3	24.5#

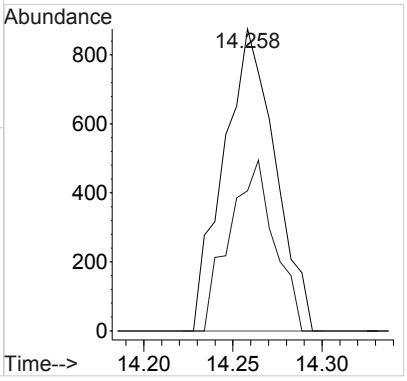


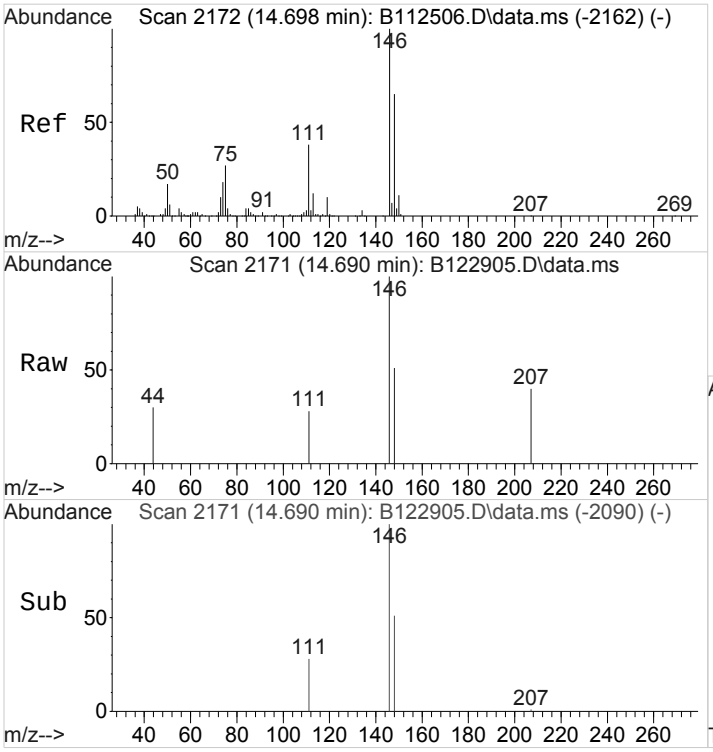


#77
1,2,4-trimethylbenzene
Concen: 0.20 ug/L
RT: 14.258 min Scan# 2100
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:105 Resp: 1763

Ion	Ratio	Lower	Upper
105	100		
120	46.3	37.3	55.9

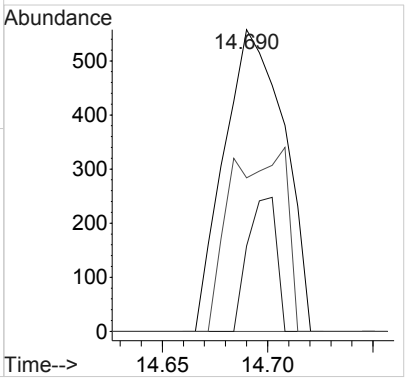


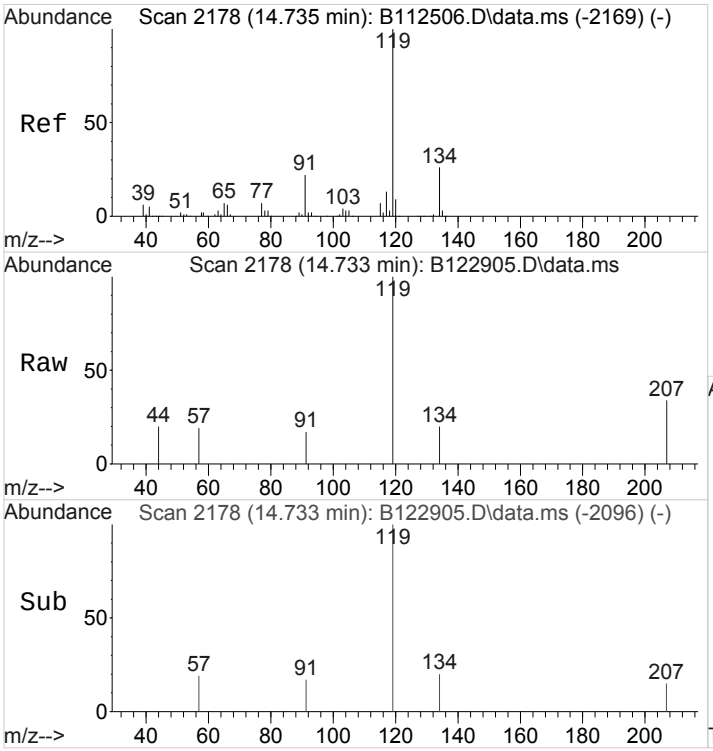


#78
1,3-dichlorobenzene
Concen: 0.23 ug/L
RT: 14.690 min Scan# 2171
Delta R.T. -0.008 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:146 Resp: 1106

Ion	Ratio	Lower	Upper
146	100		
111	28.3	18.4	58.4
148	50.9	45.4	85.4

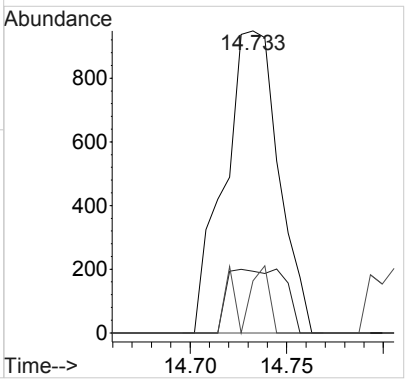


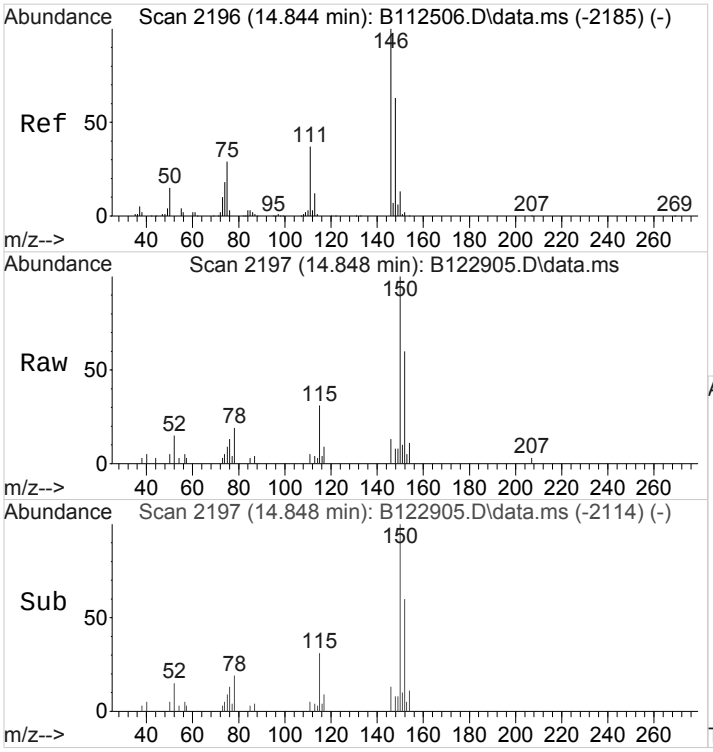


#79
p-isopropyltoluene
Concen: 0.21 ug/L
RT: 14.733 min Scan# 2178
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:119 Resp: 1851

Ion	Ratio	Lower	Upper
119	100		
134	20.4	6.4	46.4
91	17.3	1.6	41.6

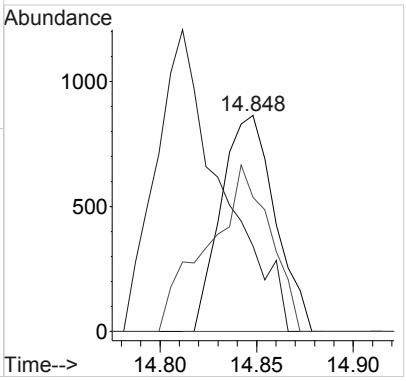


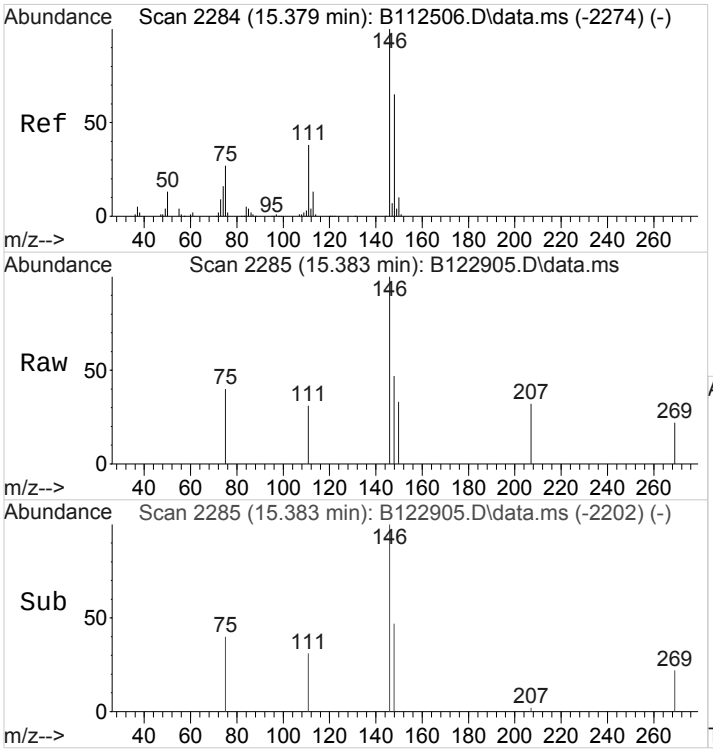


#81
1,4-dichlorobenzene
Concen: 0.34 ug/L
RT: 14.848 min Scan# 2197
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:146 Resp: 1680

Ion	Ratio	Lower	Upper
146	100		
111	39.5	17.2	57.2
148	62.1	43.1	83.1

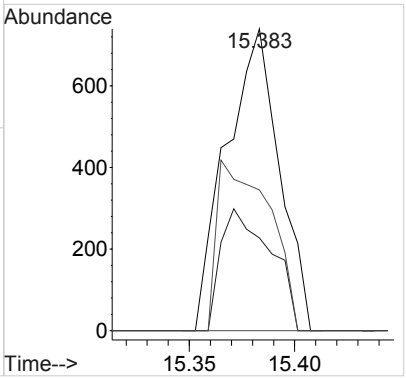


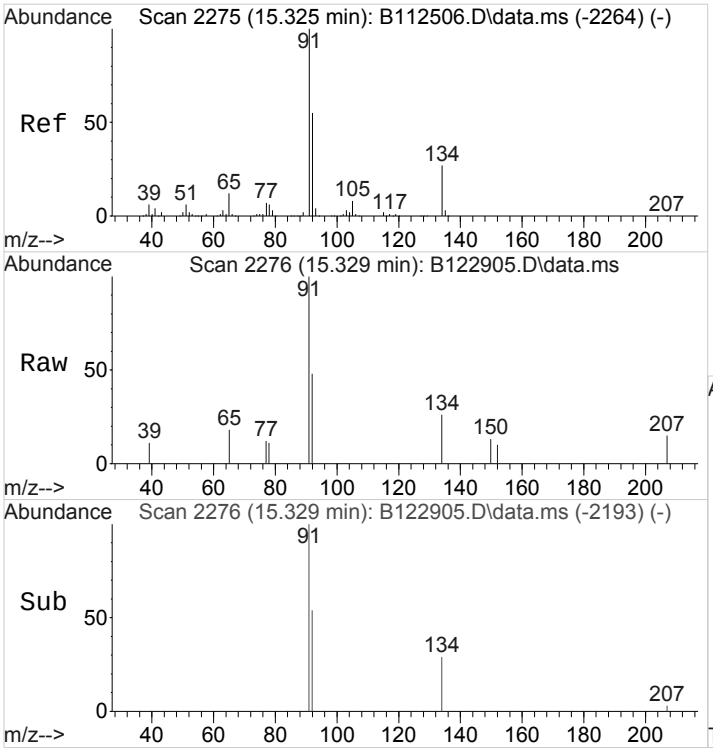


#82
1,2-dichlorobenzene
Concen: 0.28 ug/L
RT: 15.383 min Scan# 2285
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:146 Resp: 1299

Ion	Ratio	Lower	Upper
146	100		
111	30.8	18.3	58.3
148	46.6	44.7	84.7

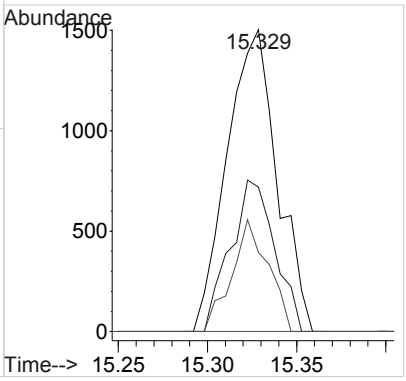


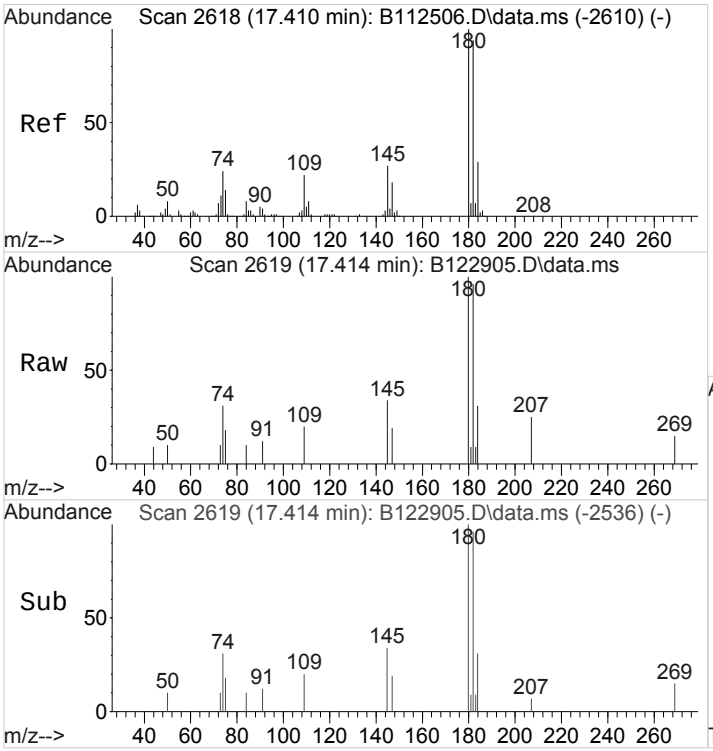


#83
n-butylbenzene
Concen: 0.39 ug/L
RT: 15.329 min Scan# 2276
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion: 91 Resp: 2935

Ion	Ratio	Lower	Upper
91	100		
92	47.8	35.4	75.4
134	26.2	7.4	47.4

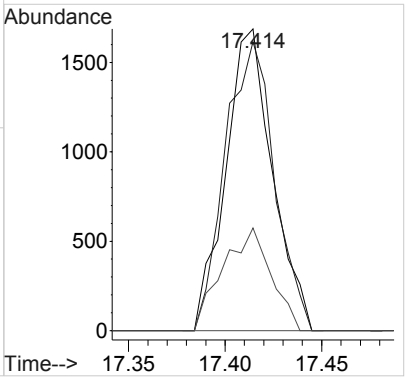


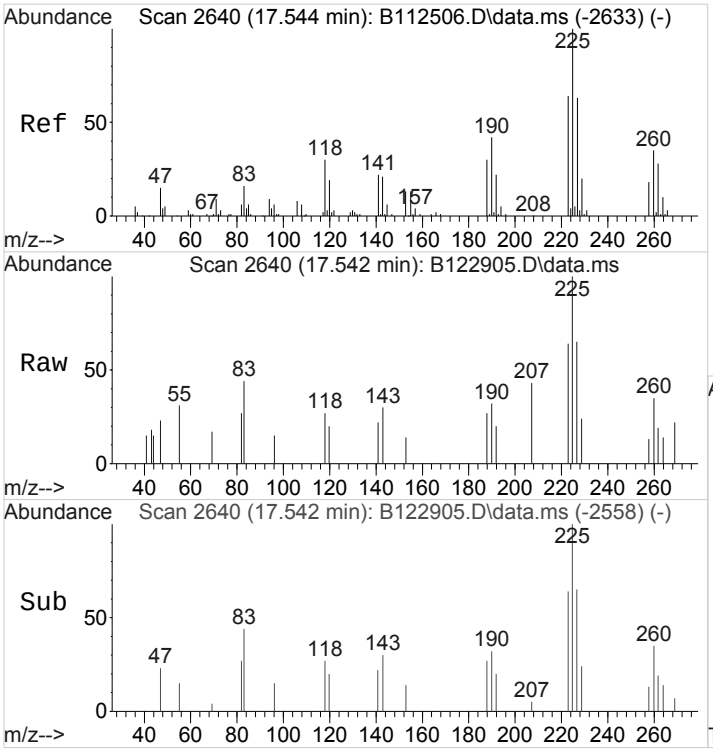


#85
1,2,4-trichlorobenzene
Concen: 1.12 ug/L
RT: 17.414 min Scan# 2619
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:180 Resp: 2850

Ion	Ratio	Lower	Upper
180	100		
182	95.7	74.1	114.1
145	34.0	6.8	46.8

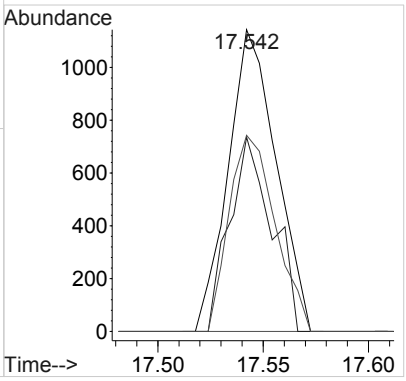


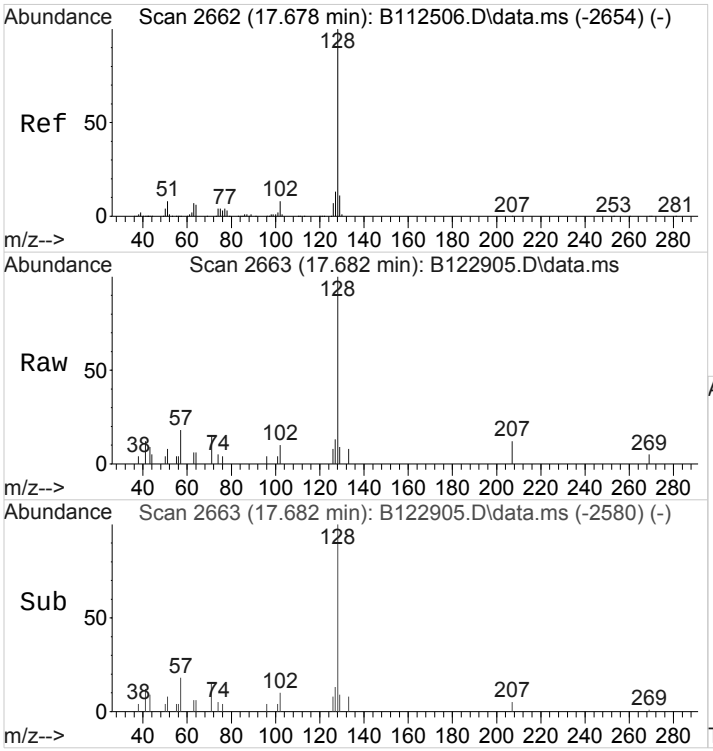


#86
hexachlorobutadiene
Concen: 1.41 ug/L
RT: 17.542 min Scan# 2640
Delta R.T. -0.002 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:225 Resp: 1813

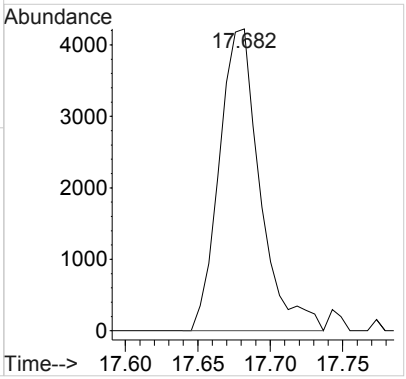
Ion	Ratio	Lower	Upper
225	100		
223	64.3	43.9	83.9
227	64.9	42.7	82.7

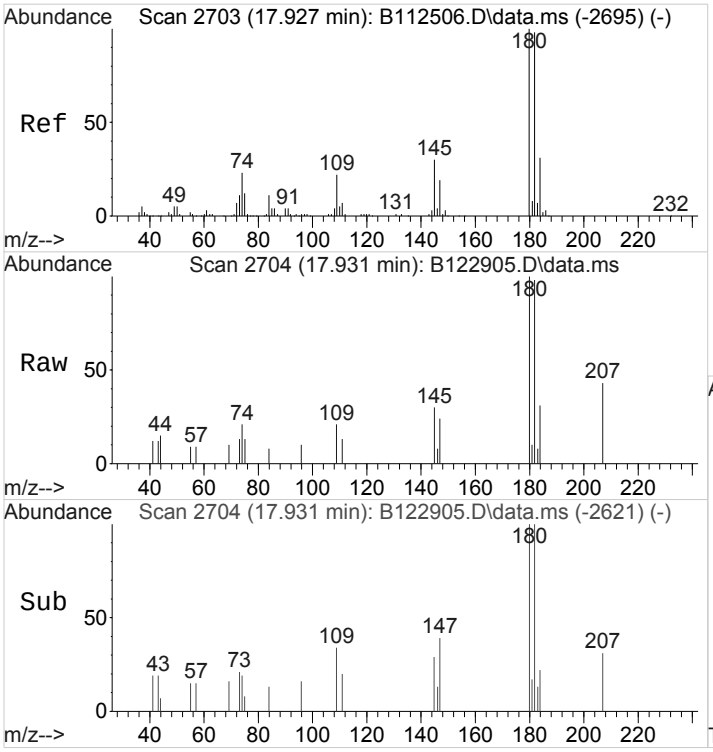




#87
naphthalene
Concen: 1.35 ug/L
RT: 17.682 min Scan# 2663
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:128 Resp: 8222

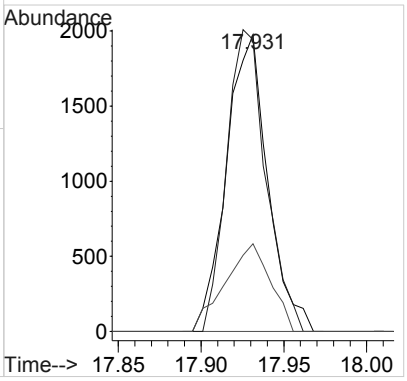


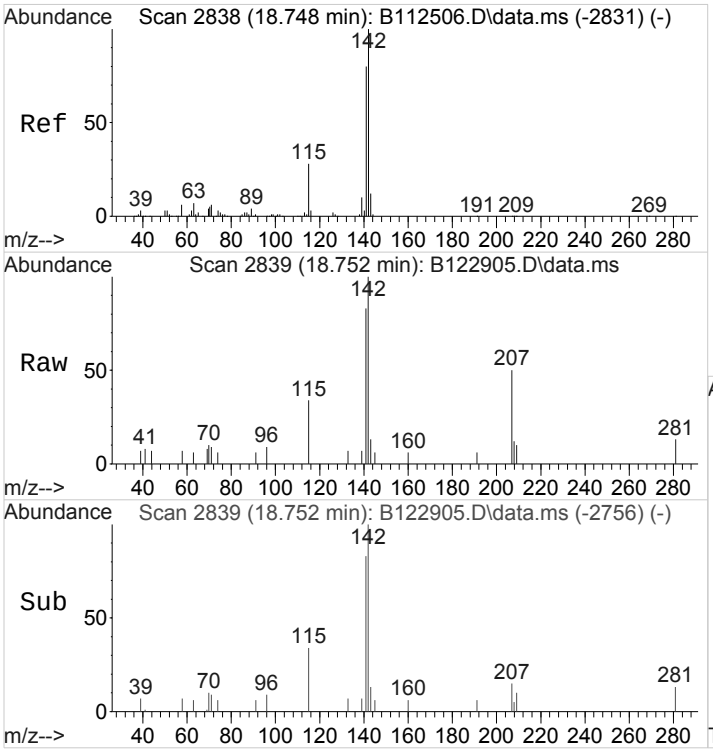


#88
1,2,3-trichlorobenzene
Concen: 1.76 ug/L
RT: 17.931 min Scan# 2704
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:180 Resp: 3432

Ion	Ratio	Lower	Upper
180	100		
182	98.3	78.3	118.3
145	29.6	9.5	49.5

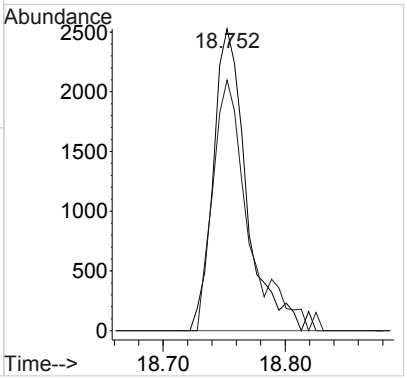




#89
2-methylnaphthalene
Concen: 3.58 ug/L
RT: 18.752 min Scan# 2839
Delta R.T. 0.004 min
Lab File: B122905.D
Acq: 29 Dec 2014 11:45 am

Tgt Ion:142 Resp: 4815

Ion	Ratio	Lower	Upper
142	100		
141	83.0	60.0	100.0



ORGANIC ANALYSIS DATA SHEET

SW-846 8260B

OL 518

Laboratory: Microbac Laboratories, Inc. - Chicagoland SDG: 14L0854

Client: IDEM - Indianapolis, IN Project: LQ - LQ

Matrix: Solid Laboratory ID: 14L0854-02 File ID: B122307.D

Sampled: 12/17/14 13:30 Prepared: 12/23/14 08:38 Analyzed: 12/23/14 12:41

Solids: 76.75 Preparation: soil prep Initial/Final: 5.537 g / 5 ml

Batch: B064000 Sequence: S021758 Calibration: 0000296 Instrument: VOA-2

CAS NO.	COMPOUND	DILUTION	CONC. (µg/Kg dry)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	12	U
71-55-6	1,1,1-Trichloroethane	1	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	1	5.9	U
79-00-5	1,1,2-Trichloroethane	1	5.9	U
75-34-3	1,1-Dichloroethane	1	5.9	U
75-35-4	1,1-Dichloroethene	1	5.9	U
107-06-2	1,2-Dichloroethane	1	5.9	U
78-87-5	1,2-Dichloropropane	1	5.9	U
78-93-3	2-Butanone	1	38	
591-78-6	2-Hexanone	1	5.9	U
108-10-1	4-Methyl-2-Pentanone	1	5.9	U
67-64-1	Acetone	1	270	E
107-02-8	Acrolein	1	120	U
107-13-1	Acrylonitrile	1	120	U
71-43-2	Benzene	1	5.9	U
75-27-4	Bromodichloromethane	1	5.9	U
75-25-2	Bromoform	1	5.9	U
74-83-9	Bromomethane	1	12	U
75-15-0	Carbon Disulfide	1	12	U
56-23-5	Carbon tetrachloride	1	5.9	U
108-90-7	Chlorobenzene	1	5.9	U
75-00-3	Chloroethane	1	12	U
67-66-3	Chloroform	1	5.9	U
74-87-3	Chloromethane	1	12	U
156-59-2	cis-1,2-Dichloroethene	1	5.9	U
10061-01-5	cis-1,3-Dichloropropene	1	5.9	U
124-48-1	Dibromochloromethane	1	5.9	U
100-41-4	Ethylbenzene	1	5.9	U
179601-23-1	m,p-Xylene	1	5.9	U
75-09-2	Methylene chloride	1	24	U
1634-04-4	Methyl-t-Butyl Ether	1	5.9	U
95-47-6	o-Xylene	1	5.9	U
100-42-5	Styrene	1	5.9	U
108-88-3	Toluene	1	5.9	U
156-60-5	trans-1,2-Dichloroethene	1	5.9	U
10061-02-6	trans-1,3-Dichloropropene	1	5.9	U
79-01-6	Trichloroethene	1	8.1	
25323-30-2	Total 1,2-Dichloroethene	1	12	U
75-69-4	Trichlorofluoromethane	1	12	U
108-05-4	Vinyl Acetate	1	12	U

ORGANIC ANALYSIS DATA SHEET

SW-846 8260B

OL 518

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	14L0854-02	File ID:	B122307.D
Sampled:	12/17/14 13:30	Prepared:	12/23/14 08:38	Analyzed:	12/23/14 12:41
Solids:	76.75	Preparation:	soil prep	Initial/Final:	5.537 g / 5 ml
Batch:	B064000	Sequence:	S021758	Calibration:	0000296
Instrument:	VOA-2				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/Kg dry)	Q
75-01-4	Vinyl chloride	1	12	U
1330-20-7T	Total Xylenes	1	5.9	U

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122307.D Vial: 5
Acq On : 23 Dec 2014 12:41 pm Operator: jln
Sample : 14L0854-02 Inst : VOA2
Misc : 8260_5035_SB Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:12:04 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

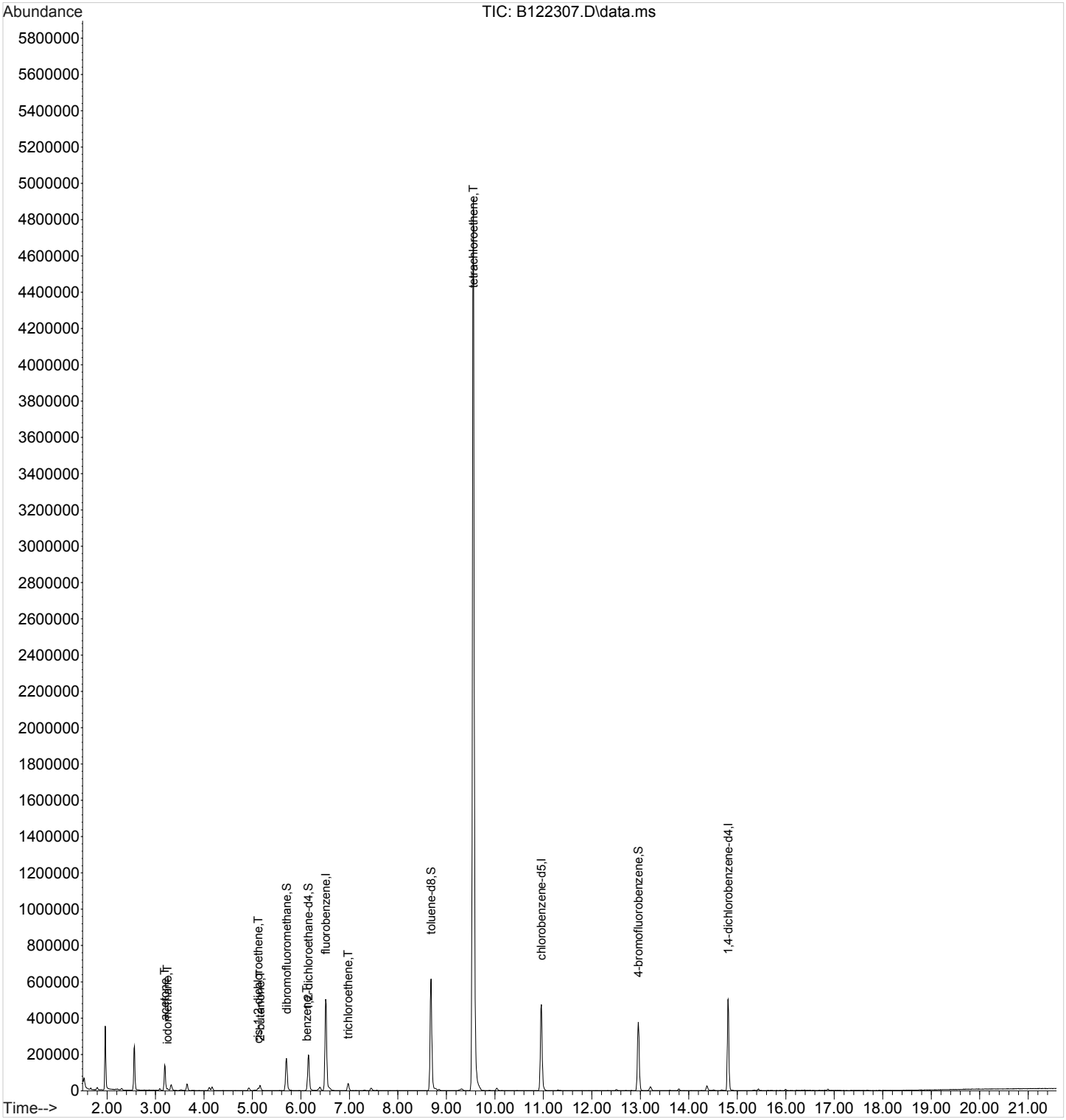
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	600479	50.00	ug/L	0.00
44) chlorobenzene-d5	10.957	117	412680	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	190837	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.703	113	139223	52.70	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 105.40%			
33) 1,2-dichloroethane-d4	6.153	65	176550	54.87	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 109.74%			
47) toluene-d8	8.682	98	602122	52.92	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 105.84%			
66) 4-bromofluorobenzene	12.958	95	200653	50.46	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 100.92%			
Target Compounds						Qvalue
6) bromomethane	2.175	94	1332	Below Cal	#	81
12) acetone	3.191	43	189109	225.89	ug/L	96
13) iodomethane	3.246	142	7203	7.93	ug/L	91
20) hexane	4.109	57	9980	Below Cal		93
23) cis-1,2-dichloroethene	5.119	96	6732	2.37	ug/L	98
25) 2-butanone	5.161	43	44581	32.58	ug/L	99
34) benzene	6.122	78	7591	0.68	ug/L	97
37) trichloroethene	6.974	95	17633	6.87	ug/L	93
51) tetrachloroethene	9.552	164	1899074	896.46	ug/L	99

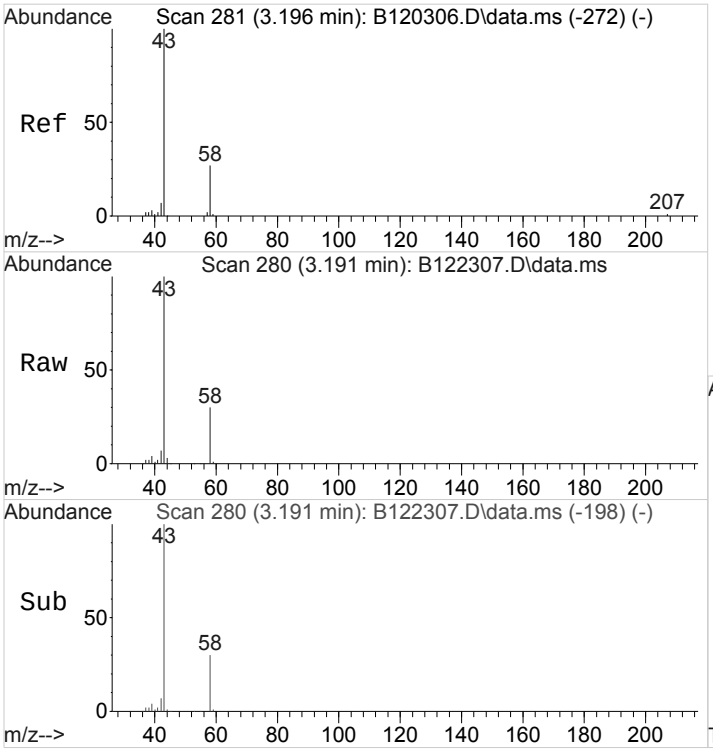
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122307.D Vial: 5
Acq On : 23 Dec 2014 12:41 pm Operator: jln
Sample : 14L0854-02 Inst : VOA2
Misc : 8260_5035_SB Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:12:04 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

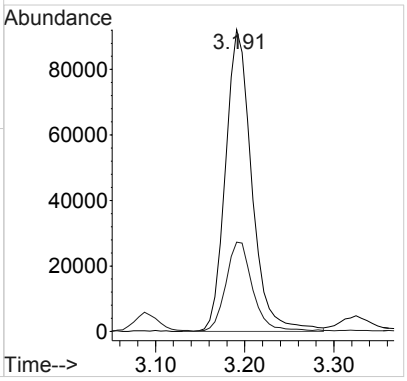


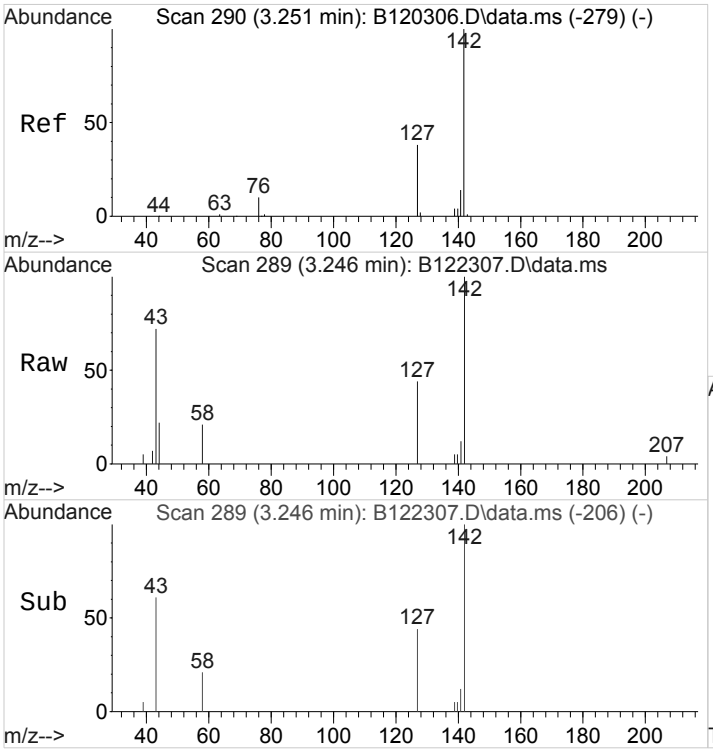


#12
acetone
Concen: 225.89 ug/L
RT: 3.191 min Scan# 280
Delta R.T. -0.001 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion: 43 Resp: 189109

Ion	Ratio	Lower	Upper
43	100		
58	29.3	7.2	47.2

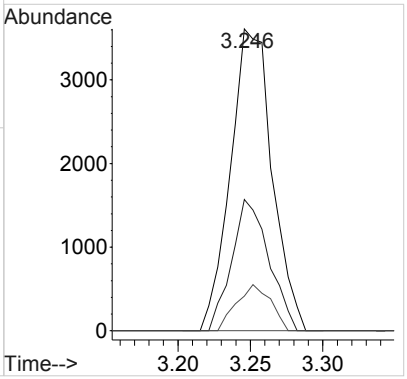


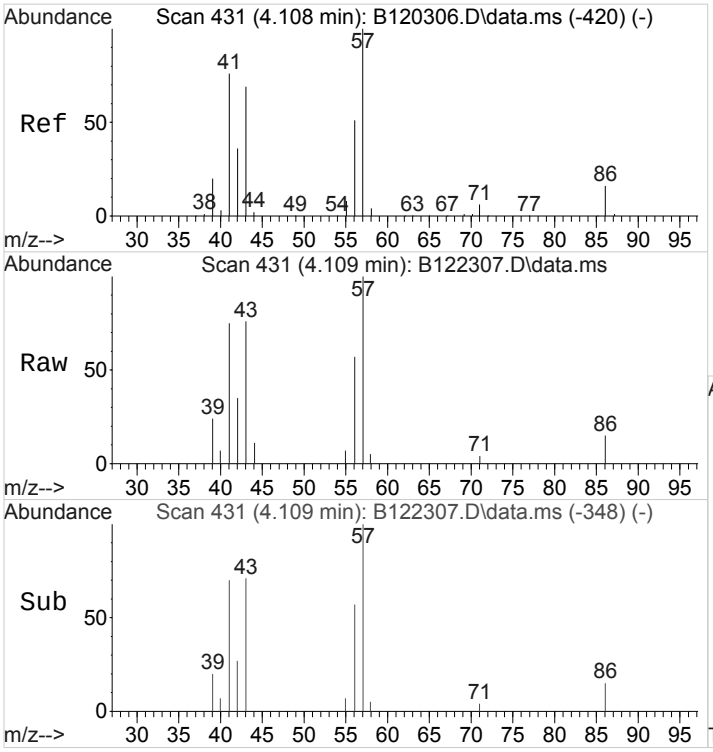


#13
iodomethane
Concen: 7.93 ug/L
RT: 3.246 min Scan# 289
Delta R.T. 0.006 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion:142 Resp: 7203

Ion	Ratio	Lower	Upper
142	100		
127	43.5	17.9	57.9
141	11.5	0.0	34.1

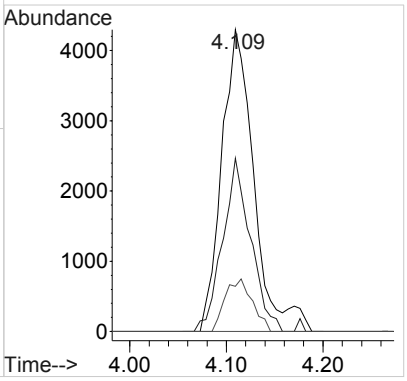


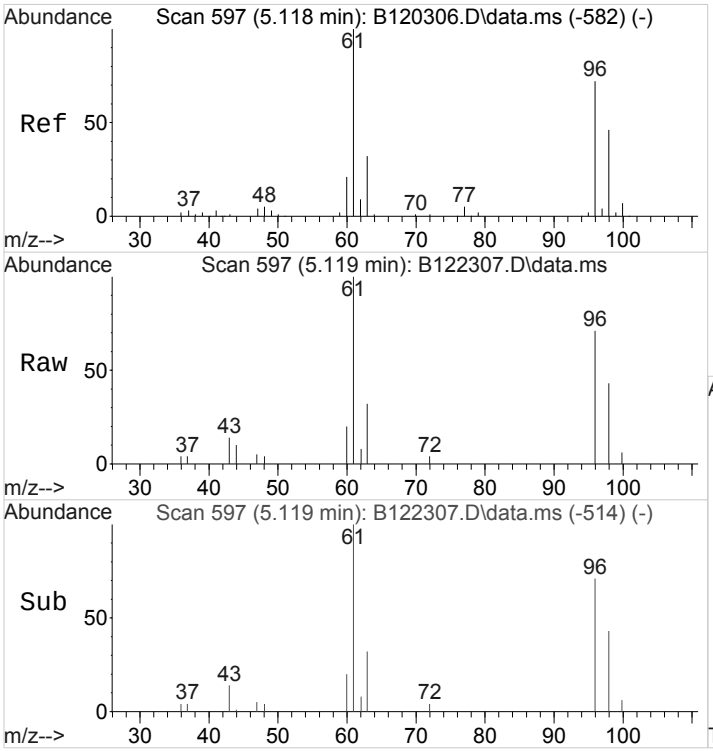


#20
hexane
Concen: Below Cal
RT: 4.109 min Scan# 431
Delta R.T. 0.005 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion: 57 Resp: 9980

Ion	Ratio	Lower	Upper
57	100		
56	57.4	31.3	71.3
86	14.9	0.0	36.1

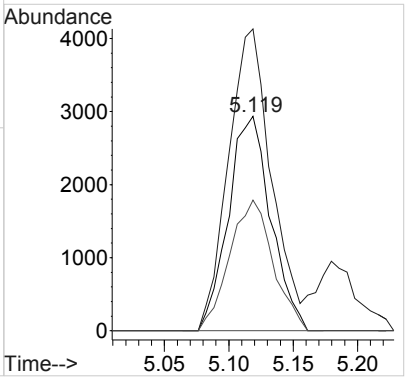


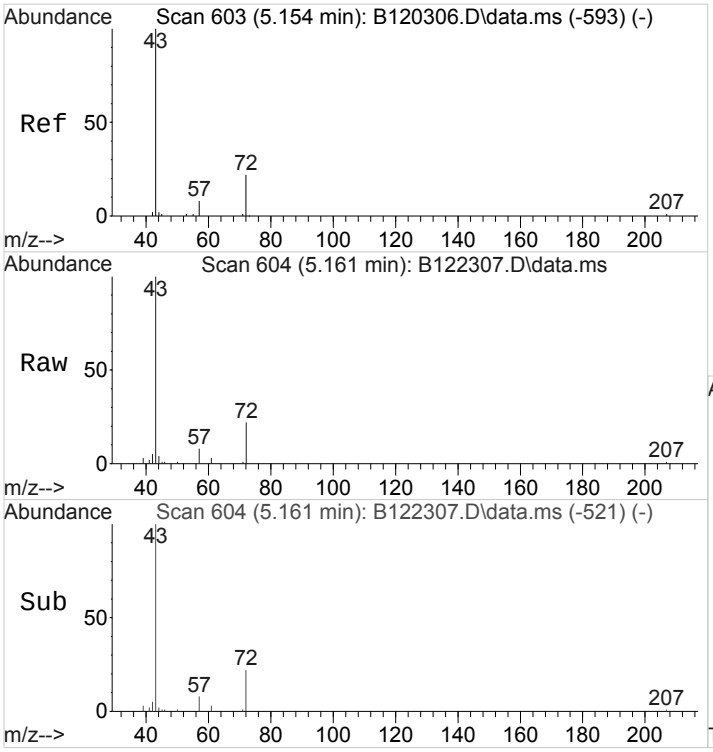


#23
cis-1,2-dichloroethene
Concen: 2.37 ug/L
RT: 5.119 min Scan# 597
Delta R.T. 0.005 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion: 96 Resp: 6732

Ion	Ratio	Lower	Upper
96	100		
61	140.8	119.8	159.8
98	60.9	44.1	84.1

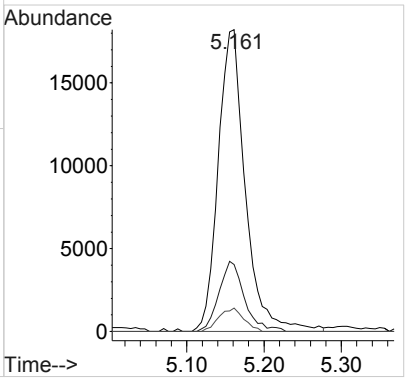


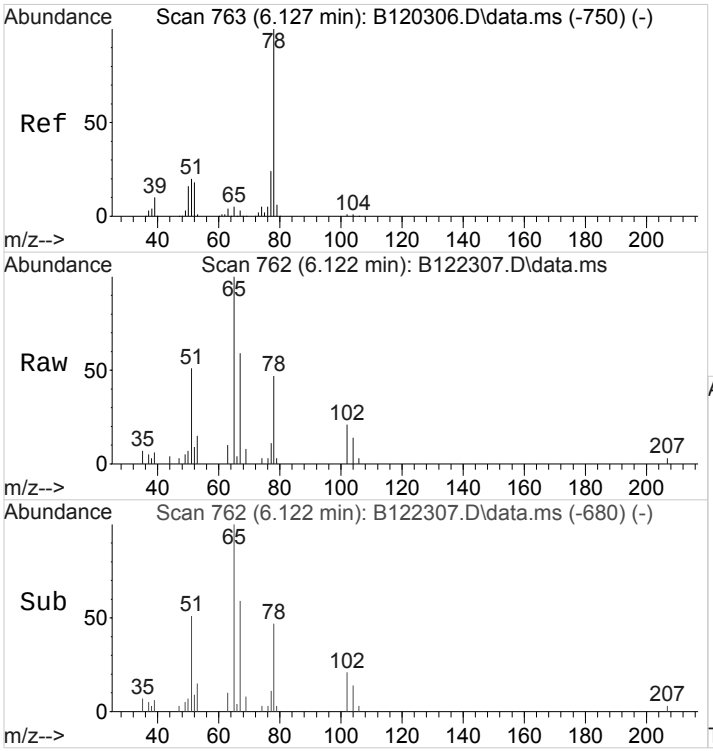


#25
2-butanone
Concen: 32.58 ug/L
RT: 5.161 min Scan# 604
Delta R.T. 0.005 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion: 43 Resp: 44581

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.2	27.2
57	7.8	6.0	9.0

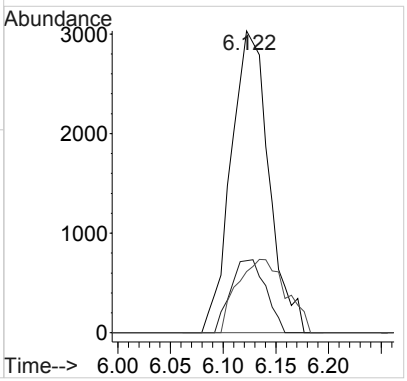


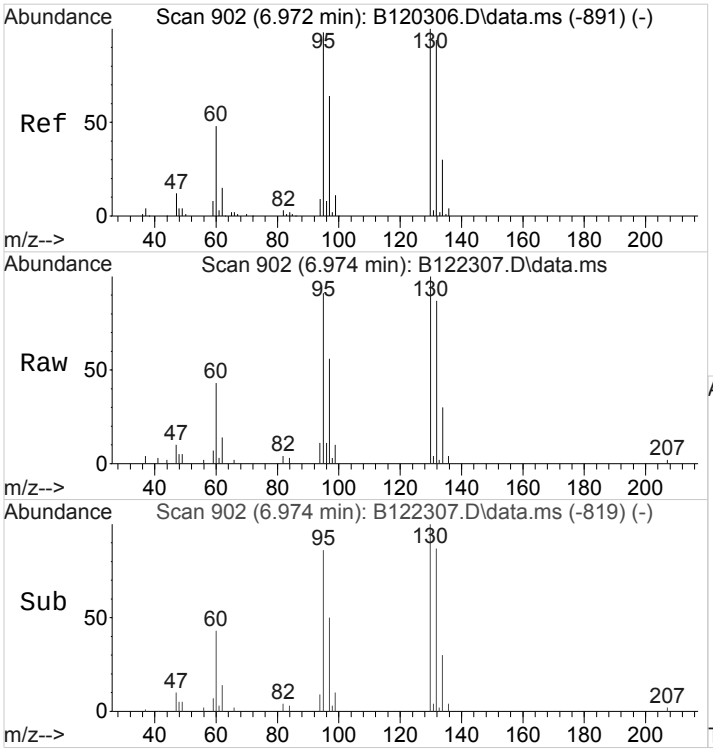


#34
benzene
Concen: 0.68 ug/L
RT: 6.122 min Scan# 762
Delta R.T. -0.001 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion: 78 Resp: 7591

Ion	Ratio	Lower	Upper
78	100		
77	23.8	3.9	43.9
52	20.3	0.0	37.8

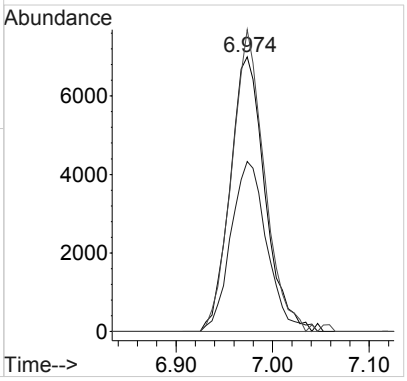


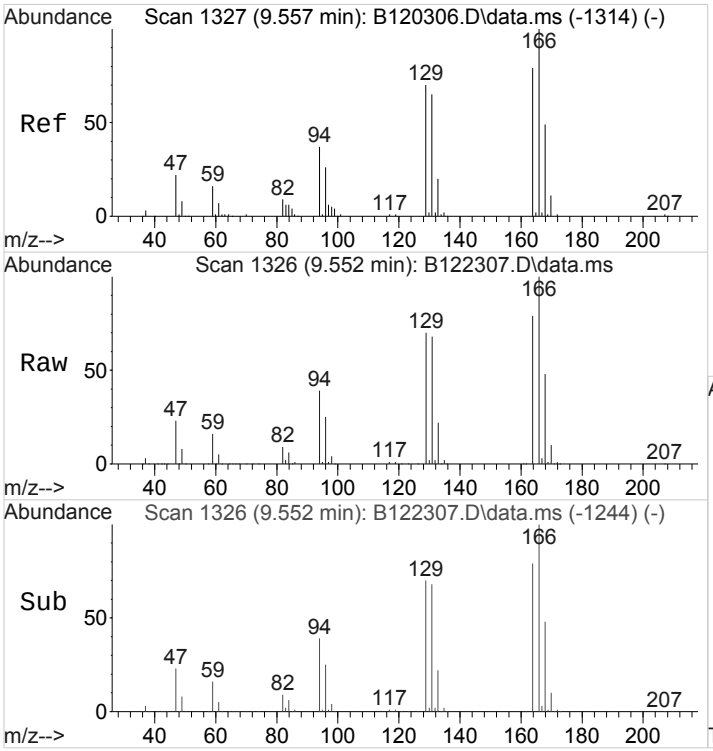


#37
trichloroethene
Concen: 6.87 ug/L
RT: 6.974 min Scan# 902
Delta R.T. 0.005 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion: 95 Resp: 17633

Ion	Ratio	Lower	Upper
95	100		
97	62.0	45.1	85.1
130	110.0	81.6	121.6

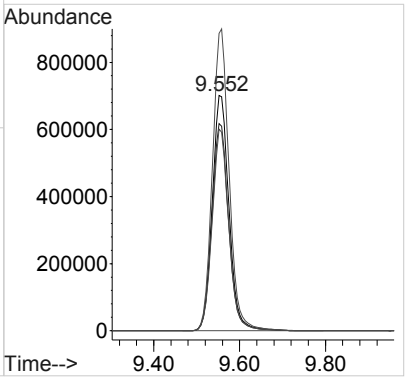




#51
tetrachloroethene
Concen: 896.46 ug/L
RT: 9.552 min Scan# 1326
Delta R.T. -0.001 min
Lab File: B122307.D
Acq: 23 Dec 2014 12:41 pm

Tgt Ion:164 Resp: 1899074

Ion	Ratio	Lower	Upper
164	100		
129	88.1	68.8	108.8
131	85.7	62.9	102.9
166	126.4	107.3	147.3



ORGANIC ANALYSIS DATA SHEET

SW-846 8260B

OL 518

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	14L0854-02RE1	File ID:	B122906.D
Sampled:	12/17/14 13:30	Prepared:	12/29/14 08:31	Analyzed:	12/29/14 12:14
Solids:	76.75	Preparation:	soil prep	Initial/Final:	4.512 g / 5 ml
Batch:	B064092	Sequence:	S021800	Calibration:	0000296
Instrument:	VOA-2				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/Kg dry)	Q
127-18-4	Tetrachloroethene	50	2300	D

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122906.D Vial: 5
Acq On : 29 Dec 2014 12:14 pm Operator: jln
Sample : 14L0854-02re1 Inst : VOA2
Misc : 8260_5035_sb Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 14:55:15 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

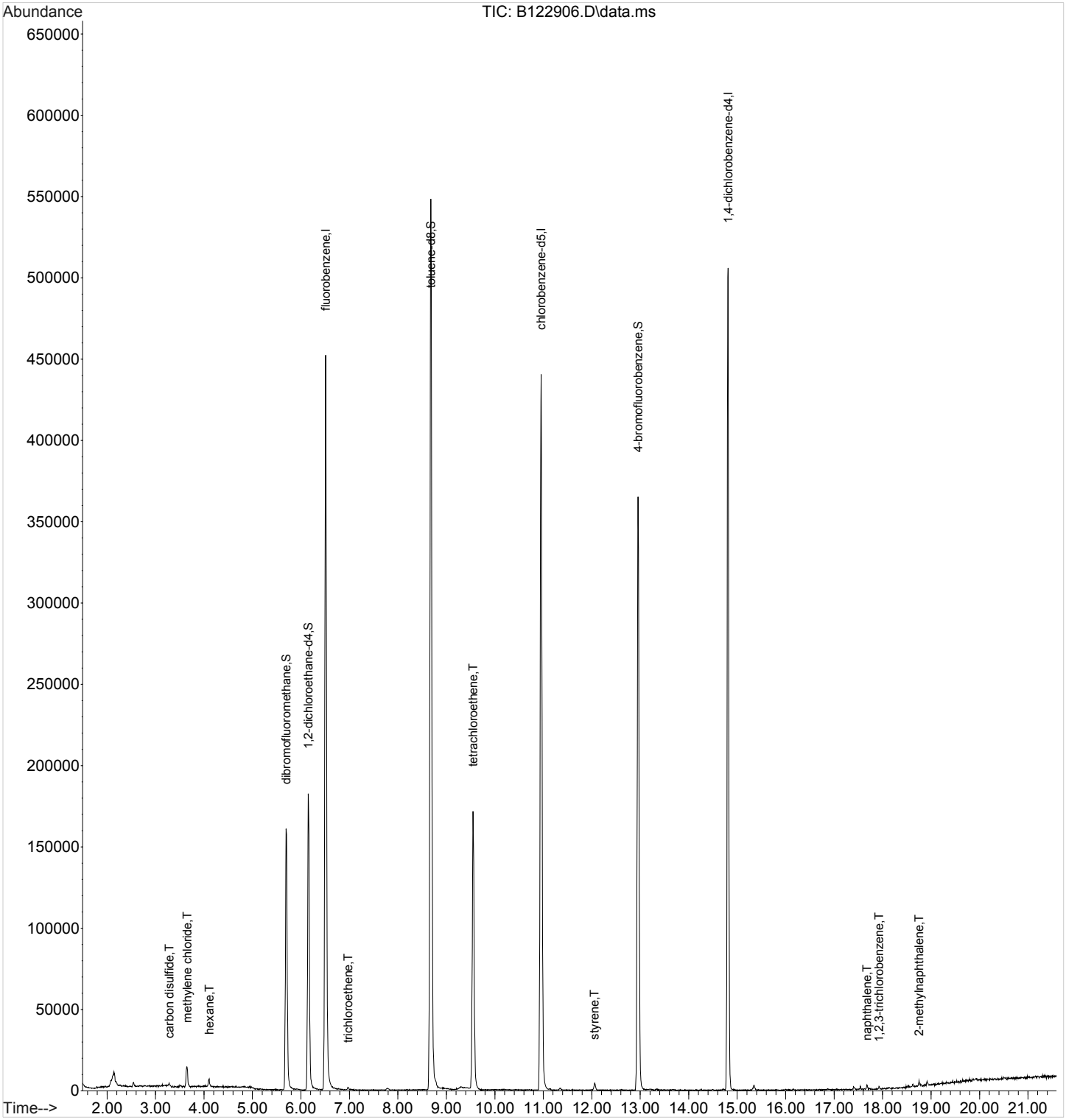
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.510	96	552739	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	387119	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.811	152	190951	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.695	113	125616	51.32	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.64%			
33) 1,2-dichloroethane-d4	6.151	65	163041	52.24	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 104.48%			
47) toluene-d8	8.681	98	559088	53.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.42%			
66) 4-bromofluorobenzene	12.956	95	191101	49.83	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.66%			
Target Compounds						Qvalue
14) carbon disulfide	3.281	76	2084	0.29	ug/L	85
15) methylene chloride	3.652	84	6624	0.82	ug/L	91
20) hexane	4.108	57	2365	0.56	ug/L #	75
37) trichloroethene	6.972	95	596	0.23	ug/L	94
51) tetrachloroethene	9.551	164	66338	32.48	ug/L	98
62) styrene	12.056	104	3450	0.44	ug/L	95
87) naphthalene	17.675	128	1954	0.33	ug/L	100
88) 1,2,3-trichlorobenzene	17.925	180	884	0.47	ug/L #	70
89) 2-methylnaphthalene	18.752	142	2139	1.64	ug/L	89

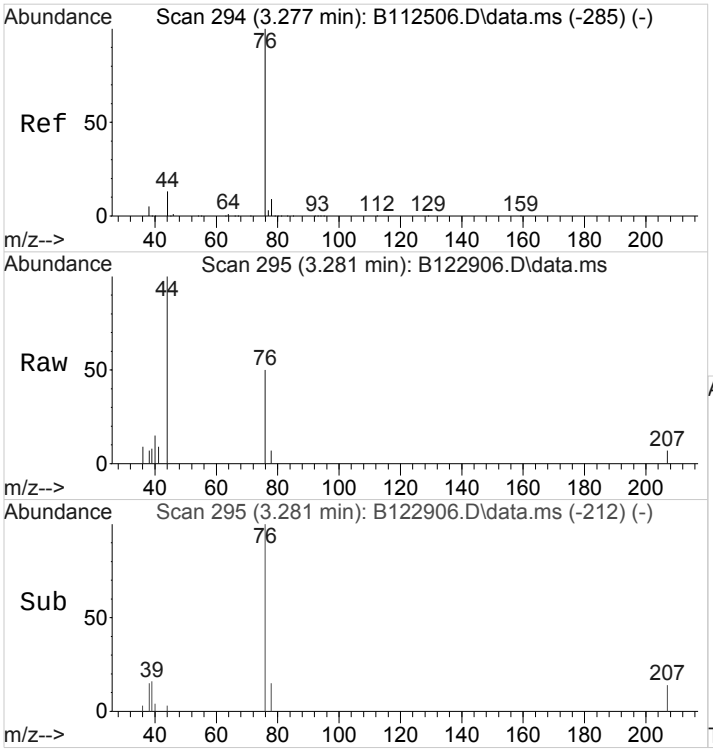
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122906.D Vial: 5
Acq On : 29 Dec 2014 12:14 pm Operator: jln
Sample : 14L0854-02re1 Inst : VOA2
Misc : 8260_5035_sb Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 14:55:15 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

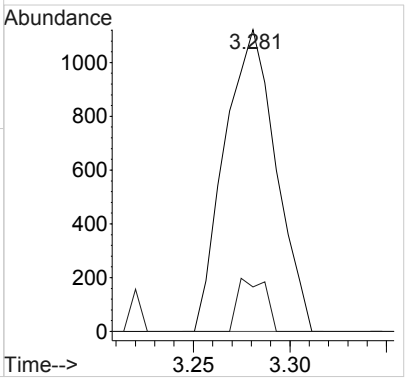


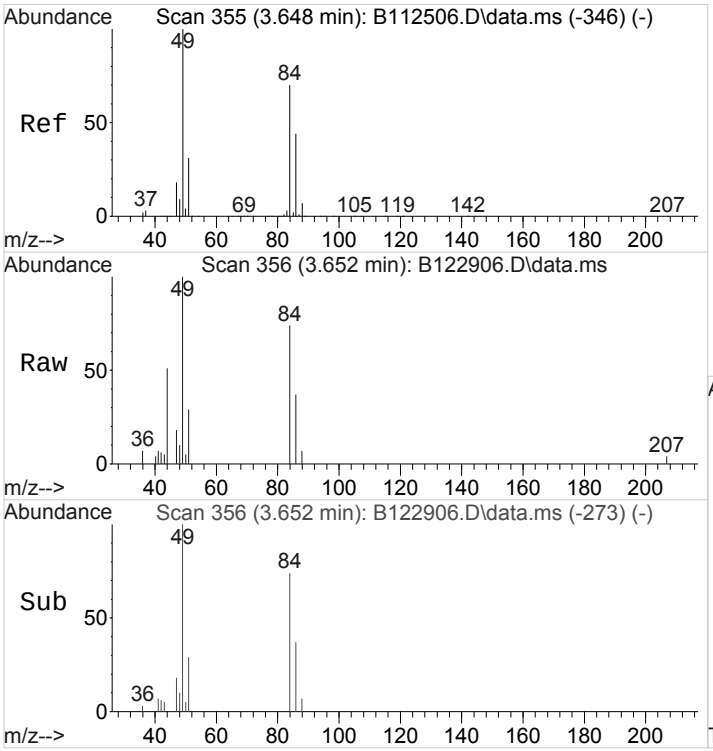


#14
carbon disulfide
Concen: 0.29 ug/L
RT: 3.281 min Scan# 295
Delta R.T. 0.004 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion: 76 Resp: 2084

Ion	Ratio	Lower	Upper
76	100		
78	14.8	0.0	29.3

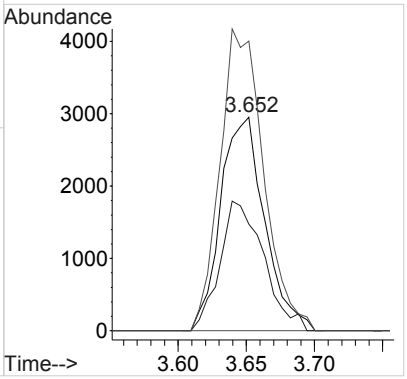


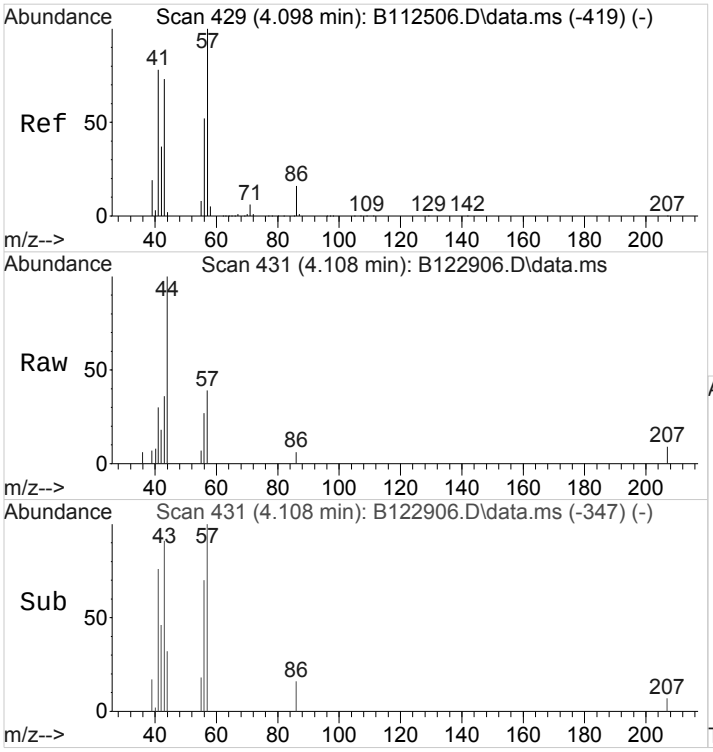


#15
methylene chloride
Concen: 0.82 ug/L
RT: 3.652 min Scan# 356
Delta R.T. 0.004 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion: 84 Resp: 6624

Ion	Ratio	Lower	Upper
84	100		
86	49.9	42.3	82.3
49	135.7	122.2	162.2

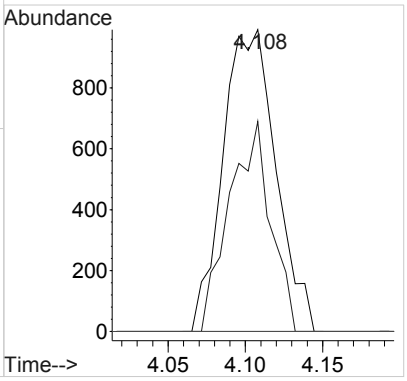


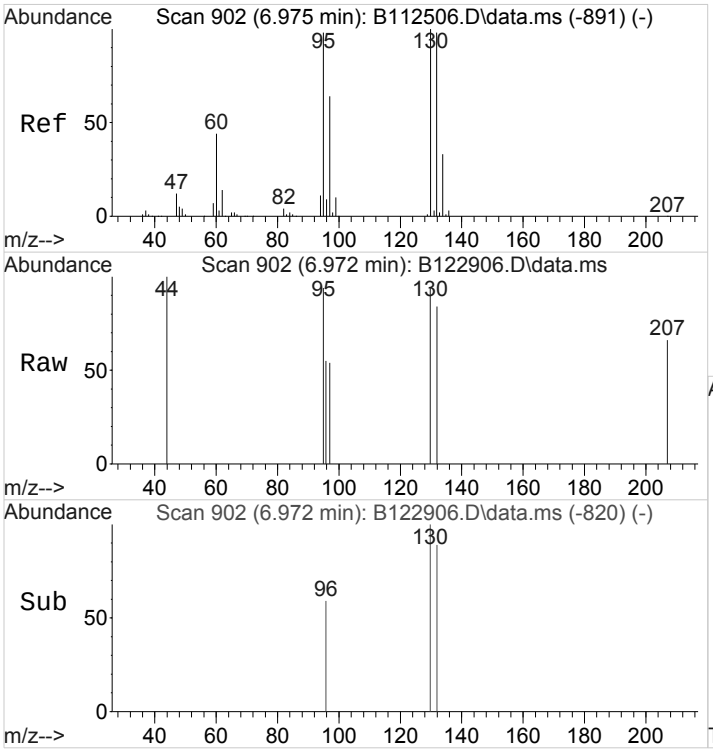


#20
hexane
Concen: 0.56 ug/L
RT: 4.108 min Scan# 431
Delta R.T. 0.010 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion: 57 Resp: 2365

Ion	Ratio	Lower	Upper
57	100		
56	69.6	41.4	62.2#
80	0.0	0.1	0.1#

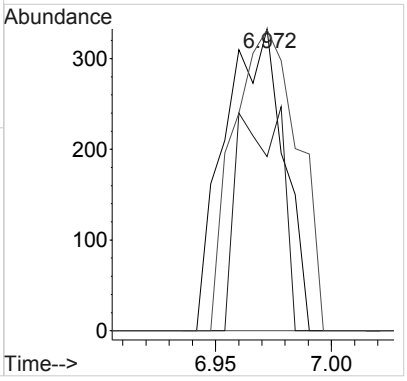


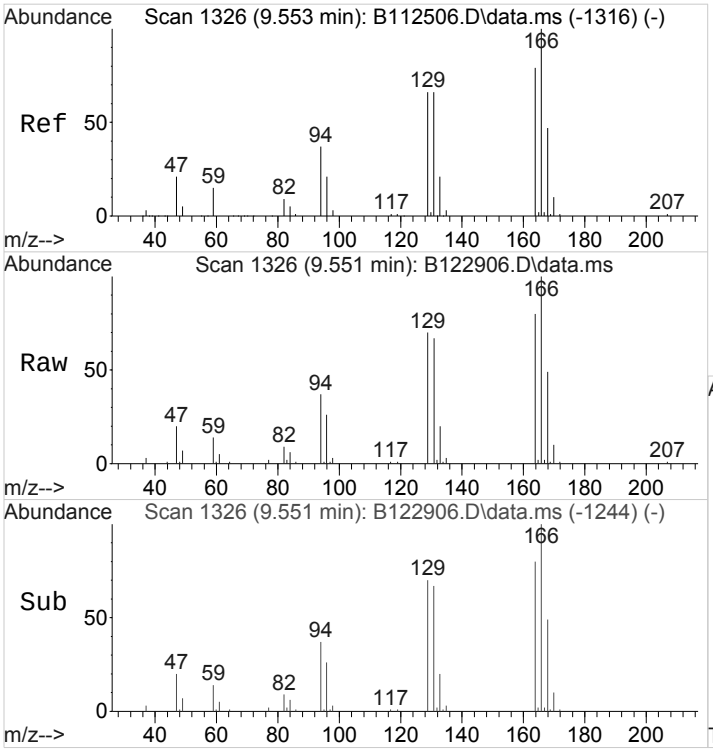


#37
trichloroethene
Concen: 0.23 ug/L
RT: 6.972 min Scan# 902
Delta R.T. -0.003 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion: 95 Resp: 596

Ion	Ratio	Lower	Upper
95	100		
97	57.7	46.0	86.0
130	99.7	82.4	122.4

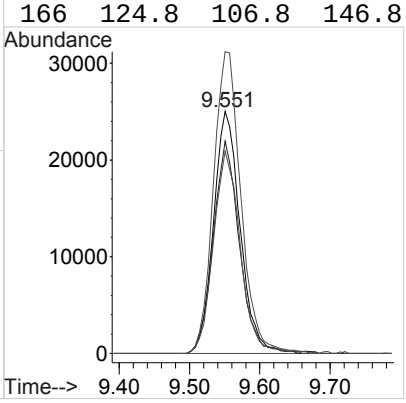


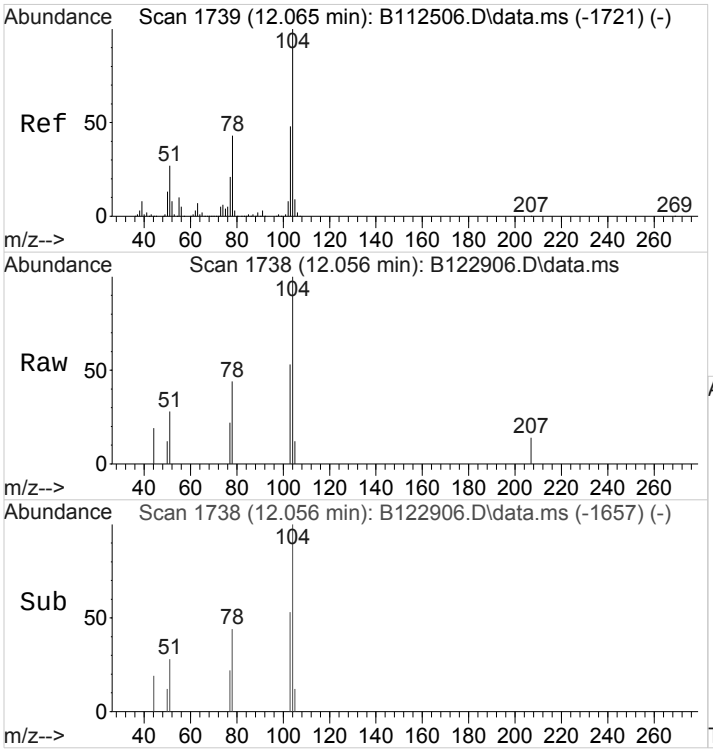


#51
tetrachloroethene
Concen: 32.48 ug/L
RT: 9.551 min Scan# 1326
Delta R.T. -0.003 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion:164 Resp: 66338

Ion	Ratio	Lower	Upper
164	100		
129	87.7	63.2	103.2
131	83.7	63.3	103.3
166	124.8	106.8	146.8

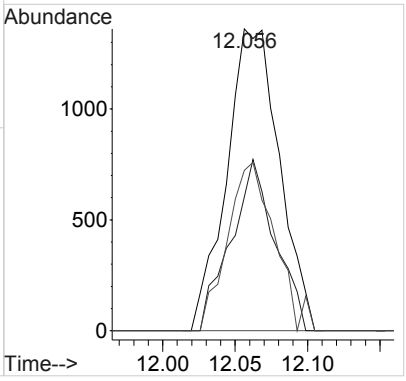


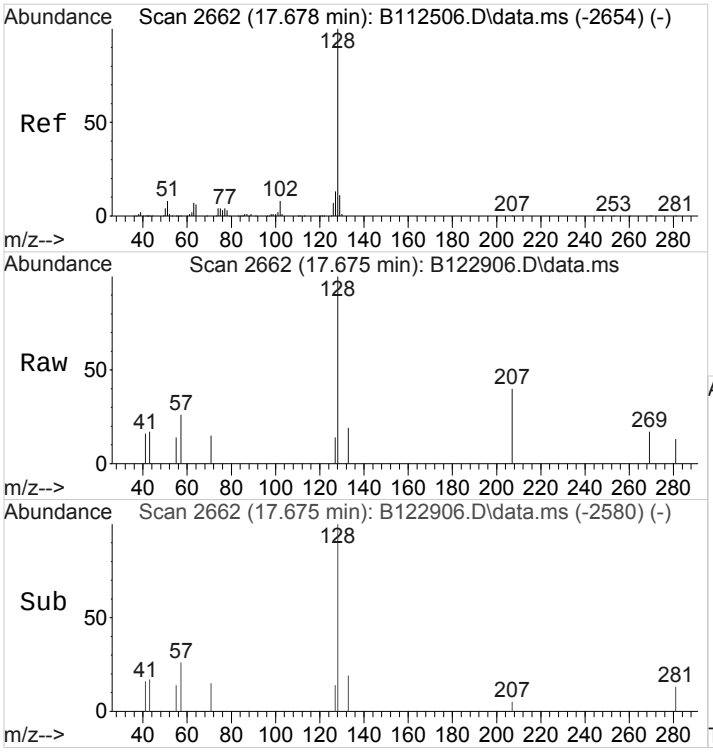


#62
styrene
Concen: 0.44 ug/L
RT: 12.056 min Scan# 1738
Delta R.T. -0.009 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion:104 Resp: 3450

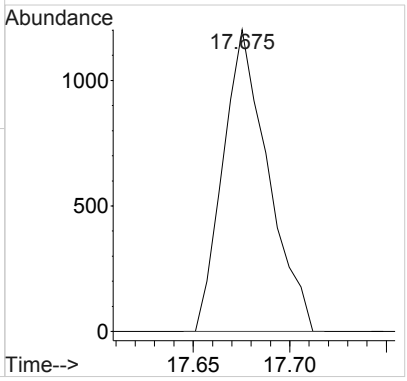
Ion	Ratio	Lower	Upper
104	100		
78	44.3	23.0	63.0
103	53.1	28.1	68.1

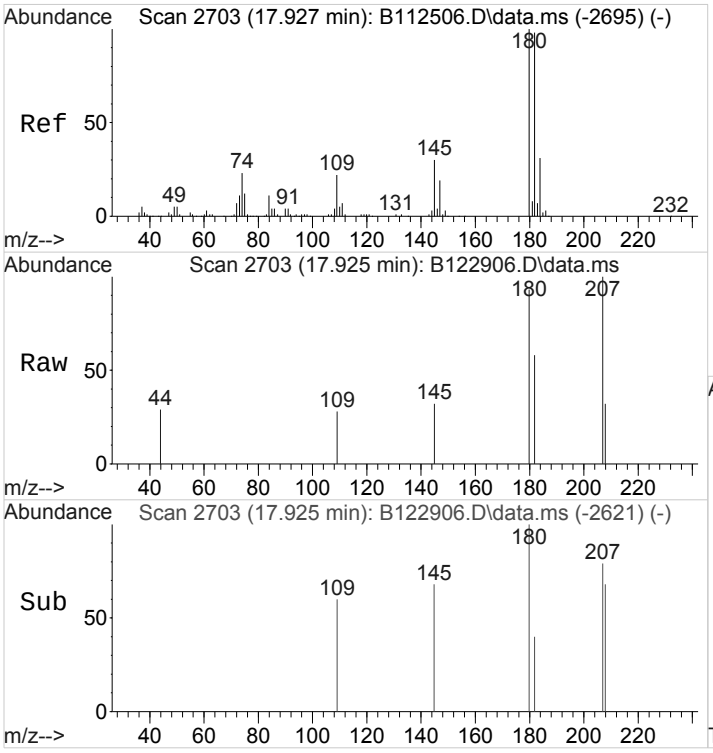




#87
naphthalene
Concen: 0.33 ug/L
RT: 17.675 min Scan# 2662
Delta R.T. -0.003 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion:128 Resp: 1954

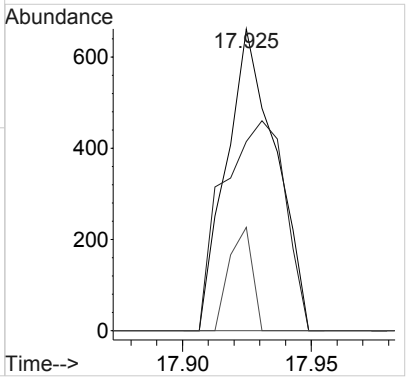


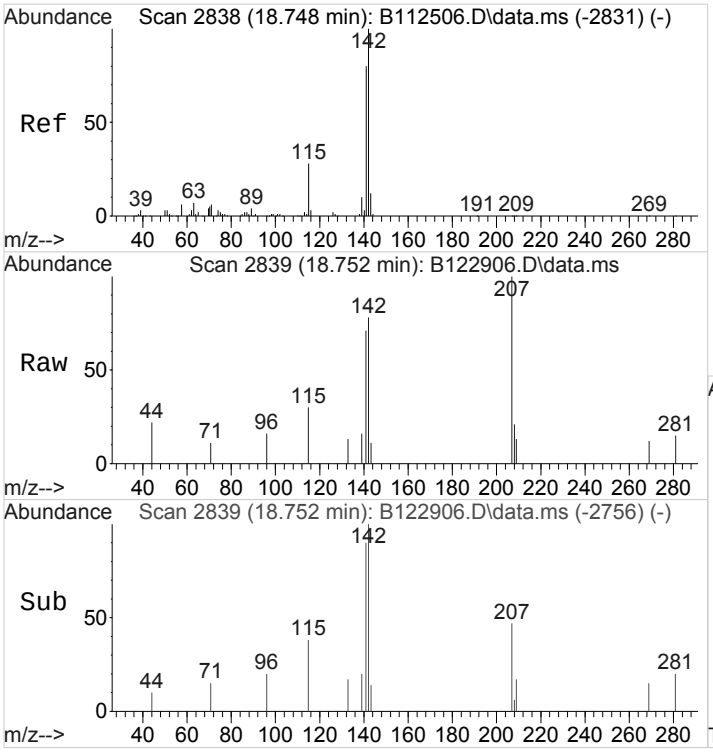


#88
1,2,3-trichlorobenzene
Concen: 0.47 ug/L
RT: 17.925 min Scan# 2703
Delta R.T. -0.003 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion:180 Resp: 884

Ion	Ratio	Lower	Upper
180	100		
182	62.7	78.3	118.3#
145	34.3	9.5	49.5

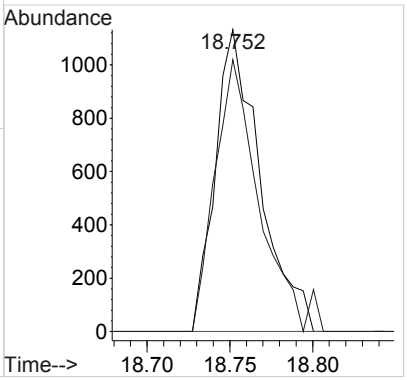




#89
2-methylnaphthalene
Concen: 1.64 ug/L
RT: 18.752 min Scan# 2839
Delta R.T. 0.003 min
Lab File: B122906.D
Acq: 29 Dec 2014 12:14 pm

Tgt Ion:142 Resp: 2139

Ion	Ratio	Lower	Upper
142	100		
141	89.9	60.0	100.0



SURROGATE STANDARD RECOVERY

Laboratory: SDG:

Client: Project:

Sequence: Instrument:

Matrix: Calibration:

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
		ND		

VOA FORM II:
SURROGATE SUMMARY

SURROGATE STANDARD RECOVERY

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Sequence:	S021758	Instrument:	VOA-2
Matrix:	Solid	Calibration:	0000296

Surrogate Compound	Spike Level µg/L	% Recovery	Recovery Limits	Q
Blank (B064000-BLK1)	Lab File ID: B122304.D	Analyzed: 12/23/14 11:00		
1,2-Dichloroethane-d4	50.00	113	51.7 - 162	
4-Bromofluorobenzene	50.00	103	57.4 - 135	
Dibromofluoromethane	50.00	107	63.5 - 139	
Toluene-d8	50.00	105	66.6 - 143	
LCS (B064000-BS1)	Lab File ID: B122305.D	Analyzed: 12/23/14 11:29		
1,2-Dichloroethane-d4	50.00	103	51.7 - 162	
4-Bromofluorobenzene	50.00	102	57.4 - 135	
Dibromofluoromethane	50.00	105	63.5 - 139	
Toluene-d8	50.00	105	66.6 - 143	
OL 517 (14L0854-01)	Lab File ID: B122306.D	Analyzed: 12/23/14 12:12		
1,2-Dichloroethane-d4	50.00	108	51.7 - 162	
4-Bromofluorobenzene	50.00	99.0	57.4 - 135	
Dibromofluoromethane	50.00	106	63.5 - 139	
Toluene-d8	50.00	108	66.6 - 143	
OL 518 (14L0854-02)	Lab File ID: B122307.D	Analyzed: 12/23/14 12:41		
1,2-Dichloroethane-d4	50.00	110	51.7 - 162	
4-Bromofluorobenzene	50.00	101	57.4 - 135	
Dibromofluoromethane	50.00	105	63.5 - 139	
Toluene-d8	50.00	106	66.6 - 143	
Matrix Spike (B064000-MS1)	Lab File ID: B122308.D	Analyzed: 12/23/14 13:10		
1,2-Dichloroethane-d4	50.00	101	51.7 - 162	
4-Bromofluorobenzene	50.00	103	57.4 - 135	
Dibromofluoromethane	50.00	105	63.5 - 139	
Toluene-d8	50.00	107	66.6 - 143	
Matrix Spike Dup (B064000-MSD1)	Lab File ID: B122309.D	Analyzed: 12/23/14 13:39		
1,2-Dichloroethane-d4	50.00	102	51.7 - 162	
4-Bromofluorobenzene	50.00	99.8	57.4 - 135	
Dibromofluoromethane	50.00	106	63.5 - 139	
Toluene-d8	50.00	105	66.6 - 143	

SURROGATE STANDARD RECOVERY

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Sequence:	S021800	Instrument:	VOA-2
Matrix:	Solid	Calibration:	0000296

Surrogate Compound	Spike Level µg/L	% Recovery	Recovery Limits	Q
Blank (B064092-BLK1)	Lab File ID: B122903.D		Analyzed: 12/29/14 10:09	
1,2-Dichloroethane-d4	50.00	106	51.7 - 162	
4-Bromofluorobenzene	50.00	100	57.4 - 135	
Dibromofluoromethane	50.00	103	63.5 - 139	
Toluene-d8	50.00	106	66.6 - 143	
LCS (B064092-BS1)	Lab File ID: B122904.D		Analyzed: 12/29/14 10:39	
1,2-Dichloroethane-d4	50.00	101	51.7 - 162	
4-Bromofluorobenzene	50.00	102	57.4 - 135	
Dibromofluoromethane	50.00	104	63.5 - 139	
Toluene-d8	50.00	108	66.6 - 143	
Matrix Spike (B064092-MS1)	Lab File ID: B122908.D		Analyzed: 12/29/14 13:57	
1,2-Dichloroethane-d4	50.00	103	51.7 - 162	
4-Bromofluorobenzene	50.00	104	57.4 - 135	
Dibromofluoromethane	50.00	104	63.5 - 139	
Toluene-d8	50.00	105	66.6 - 143	
Matrix Spike Dup (B064092-MSD1)	Lab File ID: B122909.D		Analyzed: 12/29/14 14:26	
1,2-Dichloroethane-d4	50.00	102	51.7 - 162	
4-Bromofluorobenzene	50.00	102	57.4 - 135	
Dibromofluoromethane	50.00	104	63.5 - 139	
Toluene-d8	50.00	107	66.6 - 143	

VOA FORM III:
LCS/MS/MSD SUMMARY

LCS / LCS DUPLICATE RECOVERY

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Matrix:	Solid		
Batch:	B064000	Laboratory ID:	B064000-BS1
Preparation:	soil prep	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.00	51.7	103	73.2 - 127
1,1,1-Trichloroethane	50.00	50.9	102	68.4 - 134
1,1,2,2-Tetrachloroethane	50.00	52.0	104	67.8 - 115
1,1,2-Trichloroethane	50.00	52.6	105	74 - 114
1,1-Dichloroethane	50.00	51.1	102	70.3 - 121
1,1-Dichloroethene	50.00	49.4	98.8	54 - 119
1,2-Dichloroethane	50.00	52.0	104	65.5 - 129
1,2-Dichloropropane	50.00	52.7	105	68.6 - 124
2-Butanone	50.00	46.9	93.7	55.8 - 114
2-Hexanone	50.00	48.0	95.9	49.9 - 110
4-Methyl-2-Pentanone	50.00	49.8	99.5	57 - 114
Acetone	50.00	48.3	96.6	37.2 - 135
Acrolein	50.00	83.6	167	31 - 200
Acrylonitrile	50.00	52.7	105	45.3 - 148
Benzene	50.00	52.9	106	71.8 - 123
Bromodichloromethane	50.00	51.1	102	69.4 - 132
Bromoform	50.00	50.8	102	54.7 - 123
Bromomethane	50.00	68.6	137	10 - 143
Carbon Disulfide	50.00	43.8	87.6	68.6 - 114
Carbon tetrachloride	50.00	50.7	101	68.6 - 138
Chlorobenzene	50.00	53.1	106	80.1 - 122
Chloroethane	50.00	55.9	112	53.6 - 121
Chloroform	50.00	53.1	106	71.9 - 127
Chloromethane	50.00	48.2	96.3	28.3 - 124
cis-1,2-Dichloroethene	50.00	52.1	104	81.5 - 132
cis-1,3-Dichloropropene	50.00	52.6	105	74.9 - 117
Dibromochloromethane	50.00	52.3	105	65.1 - 132
Ethylbenzene	50.00	51.9	104	77.1 - 124
m,p-Xylene	100.0	103	103	77.4 - 126
Methylene chloride	50.00	54.7	109	69.2 - 138

LCS / LCS DUPLICATE RECOVERY

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Matrix:	Solid		
Batch:	B064000	Laboratory ID:	B064000-BS1
Preparation:	soil prep	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC. #	QC LIMITS REC.
Methyl-t-Butyl Ether	50.00	50.6	101	77.8 - 120
o-Xylene	50.00	51.6	103	74.9 - 124
Styrene	50.00	53.1	106	77.7 - 117
Tetrachloroethene	50.00	53.3	107	81.9 - 127
Toluene	50.00	51.1	102	76.7 - 122
trans-1,2-Dichloroethene	50.00	51.5	103	67.6 - 126
trans-1,3-Dichloropropene	50.00	51.8	104	77.6 - 129
Trichloroethene	50.00	52.2	104	73.1 - 131
Trichlorofluoromethane	50.00	50.9	102	61.3 - 140
Vinyl Acetate	50.00	36.0	72.1	52.4 - 154
Vinyl chloride	50.00	53.7	107	48.5 - 124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Matrix:	Solid		
Batch:	B064092	Laboratory ID:	B064092-BS1
Preparation:	soil prep	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.00	51.8	104	73.2 - 127
1,1,1-Trichloroethane	50.00	49.8	99.7	68.4 - 134
1,1,2,2-Tetrachloroethane	50.00	50.3	101	67.8 - 115
1,1,2-Trichloroethane	50.00	49.8	99.5	74 - 114
1,1-Dichloroethane	50.00	50.0	99.9	70.3 - 121
1,1-Dichloroethene	50.00	49.1	98.2	54 - 119
1,2-Dichloroethane	50.00	51.2	102	65.5 - 129
1,2-Dichloropropane	50.00	51.5	103	68.6 - 124
2-Butanone	50.00	48.3	96.6	55.8 - 114
2-Hexanone	50.00	47.5	95.0	49.9 - 110
4-Methyl-2-Pentanone	50.00	49.5	99.0	57 - 114
Acetone	50.00	46.6	93.2	37.2 - 135
Acrolein	50.00	89.8	180	31 - 200
Acrylonitrile	50.00	51.6	103	45.3 - 148
Benzene	50.00	51.6	103	71.8 - 123
Bromodichloromethane	50.00	47.0	94.0	69.4 - 132
Bromoform	50.00	47.9	95.9	54.7 - 123
Bromomethane	50.00	56.1	112	10 - 143
Carbon Disulfide	50.00	48.3	96.5	68.6 - 114
Carbon tetrachloride	50.00	50.0	100	68.6 - 138
Chlorobenzene	50.00	53.8	108	80.1 - 122
Chloroethane	50.00	48.7	97.4	53.6 - 121
Chloroform	50.00	51.2	102	71.9 - 127
Chloromethane	50.00	47.2	94.4	28.3 - 124
cis-1,2-Dichloroethene	50.00	48.9	97.8	81.5 - 132
cis-1,3-Dichloropropene	50.00	51.9	104	74.9 - 117
Dibromochloromethane	50.00	50.1	100	65.1 - 132
Ethylbenzene	50.00	51.2	102	77.1 - 124
m,p-Xylene	100.0	105	105	77.4 - 126
Methylene chloride	50.00	47.8	95.6	69.2 - 138

LCS / LCS DUPLICATE RECOVERY

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Matrix:	Solid		
Batch:	B064092	Laboratory ID:	B064092-BS1
Preparation:	soil prep	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC. #	QC LIMITS REC.
Methyl-t-Butyl Ether	50.00	51.4	103	77.8 - 120
o-Xylene	50.00	52.0	104	74.9 - 124
Styrene	50.00	51.8	104	77.7 - 117
Tetrachloroethene	50.00	53.8	108	81.9 - 127
Toluene	50.00	53.7	107	76.7 - 122
trans-1,2-Dichloroethene	50.00	49.0	98.0	67.6 - 126
trans-1,3-Dichloropropene	50.00	49.3	98.7	77.6 - 129
Trichloroethene	50.00	50.1	100	73.1 - 131
Trichlorofluoromethane	50.00	47.8	95.6	61.3 - 140
Vinyl Acetate	50.00	33.9	67.8	52.4 - 154
Vinyl chloride	50.00	52.5	105	48.5 - 124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW-846 8260B

OL 518

Laboratory: Microbac Laboratories, Inc. - Chicagoland
SDG: 14L0854
Client: IDEM - Indianapolis, IN
Project: LQ - LQ
Matrix: Solid
Batch: B064000
Laboratory ID: B064000-MS1
Preparation: soil prep
Initial/Final: 5.496 g / 5 ml

Source Sample Name: OL 518

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.00	ND	50.1	100	52.5 - 130
1,1,1-Trichloroethane	50.00	ND	48.5	97.0	46.3 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	47.1	94.2	56 - 146
1,1,2-Trichloroethane	50.00	ND	84.8	170 *	60.2 - 129
1,1-Dichloroethane	50.00	ND	48.8	97.6	59 - 131
1,1-Dichloroethene	50.00	ND	46.6	93.3	39.1 - 116
1,2-Dichloroethane	50.00	ND	48.8	97.5	54.7 - 126
1,2-Dichloropropane	50.00	ND	50.5	101	62.9 - 118
2-Butanone	50.00	32.3	59.8	54.9	38.1 - 138
2-Hexanone	50.00	ND	43.1	86.2	34 - 149
4-Methyl-2-Pentanone	50.00	ND	45.1	90.2	31.1 - 175
Acetone	50.00	224	178	-92.6 *	27.9 - 161
Acrolein	50.00	ND	65.0	130	10 - 200
Acrylonitrile	50.00	ND	45.2	90.4	39.4 - 186
Benzene	50.00	0.675	51.1	101	54.8 - 120
Bromodichloromethane	50.00	ND	48.7	97.5	54.6 - 122
Bromoform	50.00	ND	45.3	90.6	31 - 122
Bromomethane	50.00	ND	65.4	131	10.8 - 142
Carbon Disulfide	50.00	ND	42.1	84.2	16 - 177
Carbon tetrachloride	50.00	ND	48.9	97.8	41.6 - 132
Chlorobenzene	50.00	ND	49.2	98.4	36.8 - 129
Chloroethane	50.00	ND	50.0	100	42.4 - 126
Chloroform	50.00	ND	51.4	103	64 - 123
Chloromethane	50.00	ND	43.5	87.0	45.3 - 143
cis-1,2-Dichloroethene	50.00	2.35	53.1	101	67 - 126
cis-1,3-Dichloropropene	50.00	ND	50.0	100	49.9 - 139
Dibromochloromethane	50.00	ND	49.3	98.7	52.1 - 132
Ethylbenzene	50.00	ND	48.5	97.1	33.4 - 133
m,p-Xylene	100.0	ND	96.3	96.3	30.5 - 132
Methylene chloride	50.00	ND	50.5	101	53.8 - 125
Methyl-t-Butyl Ether	50.00	ND	47.1	94.3	41.1 - 144
o-Xylene	50.00	ND	48.0	96.1	38 - 123

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW-846 8260B

OL 518

Laboratory: Microbac Laboratories, Inc. - Chicagoland
SDG: 14L0854
Client: IDEM - Indianapolis, IN
Project: LQ - LQ
Matrix: Solid
Batch: B064000
Laboratory ID: B064000-MS1
Preparation: soil prep
Initial/Final: 5.496 g / 5 ml
Source Sample Name: OL 518

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC. #	QC LIMITS REC.
Styrene	50.00	ND	35.5	71.0	16.9 - 131
Tetrachloroethene	50.00	890	1400	1020 *	43 - 135
Toluene	50.00	ND	49.3	98.7	35.2 - 143
trans-1,2-Dichloroethene	50.00	ND	49.4	98.9	53.7 - 120
trans-1,3-Dichloropropene	50.00	ND	48.1	96.2	42 - 148
Trichloroethene	50.00	6.82	63.0	112	37.1 - 145
Trichlorofluoromethane	50.00	ND	45.0	90.0	40.5 - 141
Vinyl Acetate	50.00	ND	30.8	61.5	22.5 - 184
Vinyl chloride	50.00	ND	47.6	95.2	54.5 - 143

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.00	52.8	106	5.29	30	52.5 - 130
1,1,1-Trichloroethane	50.00	50.3	101	3.68	30	46.3 - 135
1,1,2,2-Tetrachloroethane	50.00	51.0	102	7.85	30	56 - 146
1,1,2-Trichloroethane	50.00	69.0	138 *	20.5	30	60.2 - 129
1,1-Dichloroethane	50.00	50.9	102	4.21	30	59 - 131
1,1-Dichloroethene	50.00	48.5	96.9	3.85	30	39.1 - 116
1,2-Dichloroethane	50.00	51.4	103	5.17	30	54.7 - 126
1,2-Dichloropropane	50.00	52.4	105	3.79	30	62.9 - 118
2-Butanone	50.00	67.9	69.2	12.7	30	38.1 - 138
2-Hexanone	50.00	45.6	91.1	5.62	30	34 - 149
4-Methyl-2-Pentanone	50.00	47.5	95.1	5.20	30	31.1 - 175
Acetone	50.00	208	-45.7 *	15.7	30	27.9 - 161
Acrolein	50.00	64.9	130	0.277	30	10 - 200
Acrylonitrile	50.00	45.5	91.1	0.749	30	39.4 - 186
Benzene	50.00	52.6	104	2.85	30	54.8 - 120
Bromodichloromethane	50.00	50.9	102	4.28	30	54.6 - 122
Bromoform	50.00	47.5	95.0	4.78	30	31 - 122
Bromomethane	50.00	73.7	147 *	12.0	30	10.8 - 142
Carbon Disulfide	50.00	43.1	86.1	2.28	30	16 - 177
Carbon tetrachloride	50.00	50.6	101	3.36	30	41.6 - 132

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW-846 8260B

OL 518

Laboratory: Microbac Laboratories, Inc. - Chicagoland
SDG: 14L0854
Client: IDEM - Indianapolis, IN
Project: LQ - LQ
Matrix: Solid
Batch: B064000
Laboratory ID: B064000-MSD1
Preparation: soil prep
Initial/Final: 5.662 g / 5 ml

Source Sample Name: OL 518

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chlorobenzene	50.00	51.6	103	4.70	30	36.8 - 129
Chloroethane	50.00	55.0	110	9.41	30	42.4 - 126
Chloroform	50.00	53.5	107	4.04	30	64 - 123
Chloromethane	50.00	47.2	94.4	8.12	30	45.3 - 143
cis-1,2-Dichloroethene	50.00	53.6	102	1.01	30	67 - 126
cis-1,3-Dichloropropene	50.00	51.4	103	2.80	30	49.9 - 139
Dibromochloromethane	50.00	51.0	102	3.21	30	52.1 - 132
Ethylbenzene	50.00	50.4	101	3.74	30	33.4 - 133
m,p-Xylene	100.0	101	101	4.59	30	30.5 - 132
Methylene chloride	50.00	53.0	106	4.68	30	53.8 - 125
Methyl-t-Butyl Ether	50.00	49.5	99.0	4.86	30	41.1 - 144
o-Xylene	50.00	49.6	99.2	3.18	30	38 - 123
Styrene	50.00	26.8	53.6	28.1	30	16.9 - 131
Tetrachloroethene	50.00	724	-385 *	63.7 *	30	43 - 135
Toluene	50.00	50.7	101	2.82	30	35.2 - 143
trans-1,2-Dichloroethene	50.00	50.2	100	1.41	30	53.7 - 120
trans-1,3-Dichloropropene	50.00	50.0	100	3.91	30	42 - 148
Trichloroethene	50.00	56.7	99.4	10.5	30	37.1 - 145
Trichlorofluoromethane	50.00	50.7	101	12.0	30	40.5 - 141
Vinyl Acetate	50.00	30.9	61.8	0.357	30	22.5 - 184
Vinyl chloride	50.00	53.0	106	10.8	30	54.5 - 143

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW-846 8260B

OL 518

Laboratory: Microbac Laboratories, Inc. - Chicagoland
SDG: 14L0854
Client: IDEM - Indianapolis, IN
Project: LQ - LQ
Matrix: Solid
Batch: B064092
Laboratory ID: B064092-MS1
Preparation: soil prep
Initial/Final: 4.512 g / 5 ml

Source Sample Name: OL 518

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	2500	ND	2570	103	52.5 - 130
1,1,1-Trichloroethane	2500	ND	2640	106	46.3 - 135
1,1,2,2-Tetrachloroethane	2500	ND	2500	100	56 - 146
1,1,2-Trichloroethane	2500	ND	2580	103	60.2 - 129
1,1-Dichloroethane	2500	ND	2580	103	59 - 131
1,1-Dichloroethene	2500	ND	2540	102	39.1 - 116
1,2-Dichloroethane	2500	ND	2660	107	54.7 - 126
1,2-Dichloropropane	2500	ND	2640	106	62.9 - 118
2-Butanone	2500	ND	2380	95.2	38.1 - 138
2-Hexanone	2500	ND	2420	96.6	34 - 149
4-Methyl-2-Pentanone	2500	ND	2550	102	31.1 - 175
Acetone	2500	ND	2330	93.2	27.9 - 161
Acrolein	2500	ND	4490	180	10 - 200
Acrylonitrile	2500	ND	2640	105	39.4 - 186
Benzene	2500	ND	2690	108	54.8 - 120
Bromodichloromethane	2500	ND	2430	97.2	54.6 - 122
Bromoform	2500	ND	2450	97.8	31 - 122
Bromomethane	2500	ND	3830	153 *	10.8 - 142
Carbon Disulfide	2500	14.5	2660	106	16 - 177
Carbon tetrachloride	2500	ND	2620	105	41.6 - 132
Chlorobenzene	2500	ND	2700	108	36.8 - 129
Chloroethane	2500	ND	2930	117	42.4 - 126
Chloroform	2500	ND	2640	106	64 - 123
Chloromethane	2500	ND	2560	102	45.3 - 143
cis-1,2-Dichloroethene	2500	ND	2560	102	67 - 126
cis-1,3-Dichloropropene	2500	ND	2610	104	49.9 - 139
Dibromochloromethane	2500	ND	2510	100	52.1 - 132
Ethylbenzene	2500	ND	2610	104	33.4 - 133
m,p-Xylene	5000	ND	5430	109	30.5 - 132
Methylene chloride	2500	41.0	2540	99.8	53.8 - 125
Methyl-t-Butyl Ether	2500	ND	2690	108	41.1 - 144
o-Xylene	2500	ND	2650	106	38 - 123

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW-846 8260B

OL 518

Laboratory: Microbac Laboratories, Inc. - Chicagoland
SDG: 14L0854
Client: IDEM - Indianapolis, IN
Project: LQ - LQ
Matrix: Solid
Batch: B064092
Laboratory ID: B064092-MS1
Preparation: soil prep
Initial/Final: 4.512 g / 5 ml
Source Sample Name: OL 518

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC. #	QC LIMITS REC.
Styrene	2500	22.0	2670	106	16.9 - 131
Tetrachloroethene	2500	1620	4510	116	43 - 135
Toluene	2500	ND	2680	107	35.2 - 143
trans-1,2-Dichloroethene	2500	ND	2530	101	53.7 - 120
trans-1,3-Dichloropropene	2500	ND	2490	99.7	42 - 148
Trichloroethene	2500	11.5	2590	103	37.1 - 145
Trichlorofluoromethane	2500	ND	2570	103	40.5 - 141
Vinyl Acetate	2500	ND	1770	70.7	22.5 - 184
Vinyl chloride	2500	ND	2900	116	54.5 - 143

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	2500	2440	97.8	5.20	30	52.5 - 130
1,1,1-Trichloroethane	2500	2370	94.9	10.6	30	46.3 - 135
1,1,2,2-Tetrachloroethane	2500	2530	101	1.05	30	56 - 146
1,1,2-Trichloroethane	2500	2480	99.2	4.01	30	60.2 - 129
1,1-Dichloroethane	2500	2330	93.4	9.86	30	59 - 131
1,1-Dichloroethene	2500	2280	91.1	11.1	30	39.1 - 116
1,2-Dichloroethane	2500	2530	101	5.12	30	54.7 - 126
1,2-Dichloropropane	2500	2480	99.3	6.32	30	62.9 - 118
2-Butanone	2500	2360	94.6	0.590	30	38.1 - 138
2-Hexanone	2500	2410	96.3	0.353	30	34 - 149
4-Methyl-2-Pentanone	2500	2510	100	1.68	30	31.1 - 175
Acetone	2500	2280	91.3	2.08	30	27.9 - 161
Acrolein	2500	4290	172	4.61	30	10 - 200
Acrylonitrile	2500	2560	102	3.06	30	39.4 - 186
Benzene	2500	2440	97.7	9.59	30	54.8 - 120
Bromodichloromethane	2500	2270	90.7	6.92	30	54.6 - 122
Bromoform	2500	2400	96.0	1.88	30	31 - 122
Bromomethane	2500	3740	150 *	2.43	30	10.8 - 142
Carbon Disulfide	2500	2240	89.0	17.1	30	16 - 177
Carbon tetrachloride	2500	2300	92.0	12.8	30	41.6 - 132

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW-846 8260B

OL 518

Laboratory: Microbac Laboratories, Inc. - Chicagoland
SDG: 14L0854
Client: IDEM - Indianapolis, IN
Project: LQ - LQ
Matrix: Solid
Batch: B064092
Laboratory ID: B064092-MSD1
Preparation: soil prep
Initial/Final: 4.512 g / 5 ml

Source Sample Name: OL 518

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chlorobenzene	2500	2530	101	6.45	30	36.8 - 129
Chloroethane	2500	2590	104	12.2	30	42.4 - 126
Chloroform	2500	2440	97.8	7.65	30	64 - 123
Chloromethane	2500	2270	90.8	12.1	30	45.3 - 143
cis-1,2-Dichloroethene	2500	2310	92.4	10.2	30	67 - 126
cis-1,3-Dichloropropene	2500	2470	98.7	5.67	30	49.9 - 139
Dibromochloromethane	2500	2410	96.5	3.80	30	52.1 - 132
Ethylbenzene	2500	2390	95.5	8.81	30	33.4 - 133
m,p-Xylene	5000	4950	98.9	9.27	30	30.5 - 132
Methylene chloride	2500	2360	92.8	7.09	30	53.8 - 125
Methyl-t-Butyl Ether	2500	2550	102	5.27	30	41.1 - 144
o-Xylene	2500	2450	98.1	7.59	30	38 - 123
Styrene	2500	2500	99.1	6.60	30	16.9 - 131
Tetrachloroethene	2500	4040	96.5	11.1	30	43 - 135
Toluene	2500	2470	98.8	8.23	30	35.2 - 143
trans-1,2-Dichloroethene	2500	2290	91.7	9.93	30	53.7 - 120
trans-1,3-Dichloropropene	2500	2410	96.2	3.55	30	42 - 148
Trichloroethene	2500	2360	93.7	9.41	30	37.1 - 145
Trichlorofluoromethane	2500	2250	90.0	13.2	30	40.5 - 141
Vinyl Acetate	2500	1670	66.9	5.49	30	22.5 - 184
Vinyl chloride	2500	2510	100	14.5	30	54.5 - 143

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

VOA FORM IV:
BLANK SUMMARY

METHOD BLANK SUMMARY

SW-846 8260B

Lab Name: Microbac Laboratories, Inc. - Chicagoland
Client: IDEM - Indianapolis, IN
Work Order: 14L0854
Project: LQ - LQ

Blank ID:	B064000-BLK1	File ID:	B122304.D	Batch:	B064000

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B064000-BS1	B122305.D	12/23/2014 1129
OL 517	14L0854-01	B122306.D	12/23/2014 1212
OL 518	14L0854-02	B122307.D	12/23/2014 1241
Matrix Spike	B064000-MS1	B122308.D	12/23/2014 1310
Matrix Spike Dup	B064000-MSD1	B122309.D	12/23/2014 1339

METHOD BLANK SUMMARY

SW-846 8260B

Lab Name: Microbac Laboratories, Inc. - Chicagoland
Client: IDEM - Indianapolis, IN
Work Order: 14L0854
Project: LQ - LQ

Blank ID:	B064092-BLK1	File ID:	B122903.D	Batch:	B064092

Client Sample ID	Laboratory Sample ID	Lab File ID	Analysis Date/Time
LCS	B064092-BS1	B122904.D	12/29/2014 1039
OL 517	14L0854-01RE1	B122905.D	12/29/2014 1145
OL 518	14L0854-02RE1	B122906.D	12/29/2014 1214
Matrix Spike	B064092-MS1	B122908.D	12/29/2014 1357
Matrix Spike Dup	B064092-MSD1	B122909.D	12/29/2014 1426

VOA FORM V:
TUNE CHECK SUMMARY

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Lab File ID:	B112501.D	Injection Date:	11/25/14
Instrument ID:	VOA-2	Injection Time:	09:29
Sequence:	S021967	Lab Sample ID:	S021967-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
174	50 - 120% of 95	88.6	PASS
96	5 - 9% of 95	6.71	PASS
173	Less than 2% of 174	0.421	PASS
175	5 - 9% of 174	7.93	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.87	PASS
50	15 - 40% of 95	19.6	PASS
75	30 - 80% of 95	46.7	PASS
95	Base peak, 100% relative abundance	100	PASS

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

EPA Sample Number	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S021967-CAL1	B112502.D	11/25/2014	11:32
Cal Standard	S021967-CAL2	B112503.D	11/25/2014	12:02
Cal Standard	S021967-CAL3	B112504.D	11/25/2014	12:31
Cal Standard	S021967-CAL4	B112505.D	11/25/2014	13:01
Cal Standard	S021967-CAL5	B112506.D	11/25/2014	13:31
Cal Standard	S021967-CAL6	B112507.D	11/25/2014	14:29
Cal Standard	S021967-CAL7	B112508.D	11/25/2014	14:58
Cal Standard	S021967-CAL8	B112509.D	11/25/2014	15:28
Initial Cal Check	S021967-ICV1	B112510.D	11/25/2014	16:38

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Lab File ID:	B120301.D	Injection Date:	12/03/14
Instrument ID:	VOA-2	Injection Time:	09:36
Sequence:	S021553	Lab Sample ID:	S021553-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
174	50 - 120% of 95	84.8	PASS
96	5 - 9% of 95	7.76	PASS
173	Less than 2% of 174	0	PASS
175	5 - 9% of 174	7.63	PASS
176	95 - 101% of 174	95.2	PASS
177	5 - 9% of 176	7.59	PASS
50	15 - 40% of 95	19.7	PASS
75	30 - 80% of 95	49.2	PASS
95	Base peak, 100% relative abundance	100	PASS

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

EPA Sample Number	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S021553-CAL1	B120302.D	12/03/2014	10:05
Cal Standard	S021553-CAL2	B120303.D	12/03/2014	10:41
Cal Standard	S021553-CAL3	B120304.D	12/03/2014	11:10
Cal Standard	S021553-CAL4	B120305.D	12/03/2014	11:39
Cal Standard	S021553-CAL5	B120306.D	12/03/2014	12:08
Cal Standard	S021553-CAL6	B120307.D	12/03/2014	12:37
Cal Standard	S021553-CAL7	B120308.D	12/03/2014	13:06
Cal Standard	S021553-CAL8	B120309.D	12/03/2014	13:35
Initial Cal Check	S021553-ICV1	B120311.D	12/03/2014	15:15

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Lab File ID:	B122301.D	Injection Date:	12/23/14
Instrument ID:	VOA-2	Injection Time:	09:07
Sequence:	S021758	Lab Sample ID:	S021758-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
174	50 - 120% of 95	84.2	PASS
173	Less than 2% of 174	0	PASS
96	5 - 9% of 95	7.1	PASS
175	5 - 9% of 174	7.92	PASS
176	95 - 101% of 174	96.1	PASS
177	5 - 9% of 176	6.62	PASS
50	15 - 40% of 95	20.8	PASS
75	30 - 80% of 95	50.5	PASS
95	Base peak, 100% relative abundance	100	PASS

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

EPA Sample Number	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S021758-CCV1	B122303.D	12/23/2014	10:22
Blank	B064000-BLK1	B122304.D	12/23/2014	11:00
LCS	B064000-BS1	B122305.D	12/23/2014	11:29
OL 517	14L0854-01	B122306.D	12/23/2014	12:12
OL 518	14L0854-02	B122307.D	12/23/2014	12:41
Matrix Spike	B064000-MS1	B122308.D	12/23/2014	13:10
Matrix Spike Dup	B064000-MSD1	B122309.D	12/23/2014	13:39

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Lab File ID:	B122901.D	Injection Date:	12/29/14
Instrument ID:	VOA-2	Injection Time:	08:54
Sequence:	S021800	Lab Sample ID:	S021800-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
174	50 - 120% of 95	84.6	PASS
173	Less than 2% of 174	0	PASS
96	5 - 9% of 95	6.89	PASS
175	5 - 9% of 174	7.15	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.65	PASS
50	15 - 40% of 95	19.9	PASS
75	30 - 80% of 95	48.4	PASS
95	Base peak, 100% relative abundance	100	PASS

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

EPA Sample Number	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S021800-CCV1	B122902.D	12/29/2014	09:25
Blank	B064092-BLK1	B122903.D	12/29/2014	10:09
LCS	B064092-BS1	B122904.D	12/29/2014	10:39
OL 517	14L0854-01RE1	B122905.D	12/29/2014	11:45
OL 518	14L0854-02RE1	B122906.D	12/29/2014	12:14
Matrix Spike	B064092-MS1	B122908.D	12/29/2014	13:57
Matrix Spike Dup	B064092-MSD1	B122909.D	12/29/2014	14:26

VOA FORM VI: INITIAL CALIBRATION SUMMARY

Response Factor Report VOA2

Method Path : C:\msdchem\1\METHODS\
Method File : SOIL120314.M
Title : VOA2 Soil ICAL 12/3/14
Last Update : Wed Dec 03 14:10:34 2014
Response Via : Initial Calibration

Calibration Files
5 =B120303.D 10 =B120304.D 20 =B120305.D 50 =B120306.D 70 =B120307.D 100 =B120308.D 200 =B120309.D
2 =B120302.D

		Compound	5	10	20	50	70	100	200	2	Avg	%RSD
1)	I	fluorobenzene	ISTD									
2)	T	dichlorodifluo...	0.214	0.191	0.177	0.178	0.171	0.180	0.176	0.206	0.187	8.43
3)	T,P	chloromethane	0.336	0.293	0.276	0.279	0.276	0.288	0.285	0.340	0.297	8.82
4)	T	1,3-butadiene	0.282	0.234	0.238	0.238	0.223	0.233	0.231	0.287	0.246	9.90
5)	T,C	vinyl chloride	0.342	0.289	0.280	0.281	0.274	0.284	0.279	0.299	0.291	7.59
6)	T	bromomethane	0.114	0.097	0.091	0.085	0.080			0.123	0.098	17.24
7)	T	chloroethane	0.213	0.185	0.179	0.181	0.177	0.184	0.156	0.194	0.184	8.84
8)	T	trichlorofluor...	0.362	0.321	0.305	0.301	0.293	0.303	0.299	0.311	0.312	7.01
9)	T	acrolein	0.021	0.017	0.018	0.021	0.020	0.021	0.023	0.019	0.020	8.77
10)	T	1,1,2-trichlor...	0.146	0.121	0.119	0.118	0.112	0.119	0.116	0.128	0.122	8.70
11)	T,C	1,1-dichloroet...	0.192	0.161	0.154	0.165	0.157	0.165	0.161	0.169	0.165	7.06
12)	T	acetone		0.086	0.067	0.070	0.064	0.064	0.067		0.070	12.13
13)	T	iodomethane	0.125	0.111	0.130	0.167	0.174	0.191	0.198	0.083	0.147	27.95
14)	T	carbon disulfide	0.784	0.628	0.599	0.638	0.606	0.627	0.636	0.777	0.662	11.24
15)	T	methylene chlo...	0.601	0.369	0.289	0.254	0.230	0.232	0.231	0.727	0.367	52.37
16)	T	acrylonitrile	0.081	0.063	0.069	0.077	0.074	0.080	0.084	0.065	0.074	10.37
17)	T	trans-1,2-dich...	0.234	0.196	0.188	0.202	0.193	0.202	0.205	0.208	0.204	6.87
18)	T	methyl-t-butyl...	0.671	0.587	0.589	0.663	0.636	0.661	0.692	0.594	0.637	6.53
19)	T	acetonitrile	0.040	0.026	0.030	0.033	0.033	0.033	0.035	0.033	0.033	11.75
20)	T	hexane		0.762	0.536	0.405	0.386	0.368	0.334		0.465	34.58
21)	T,P	1,1-dichloroet...	0.467	0.395	0.390	0.420	0.407	0.420	0.430	0.423	0.419	5.73
22)	T	vinyl acetate	0.594	0.532	0.522	0.594	0.562	0.591	0.621	0.518	0.567	6.84
23)	T	cis-1,2-dichlo...	0.261	0.225	0.221	0.241	0.231	0.242	0.247	0.222	0.236	5.97
24)	T	2,2-dichloropr...	0.377	0.306	0.303	0.320	0.313	0.323	0.330	0.325	0.325	7.17
25)	T	2-butanone	0.188	0.112	0.105	0.115	0.105	0.114	0.121	0.164	0.128	23.99
26)	T	methyl acrylate	0.224	0.191	0.194	0.221	0.203	0.215	0.229	0.178	0.207	8.82
27)	T	bromochloromet...	0.110	0.095	0.096	0.105	0.102	0.108	0.109	0.096	0.102	6.03
28)	T,C	chloroform	0.407	0.350	0.344	0.373	0.356	0.378	0.390	0.351	0.369	6.01
29)	S	dibromofluorom...	0.219	0.220	0.221	0.219	0.218	0.222	0.222	0.220	0.220	0.70
30)	T	1,1,1-trichlor...	0.350	0.297	0.287	0.305	0.294	0.306	0.313	0.300	0.306	6.28
31)	T	cyclohexane	0.496	0.411	0.410	0.418	0.393	0.411	0.412	0.396	0.418	7.77
32)	T	carbon tetrach...	0.288	0.238	0.233	0.253	0.238	0.253	0.255	0.239	0.250	7.08
33)	S	1,2-dichloroet...	0.269	0.271	0.269	0.266	0.264	0.264	0.267	0.272	0.268	1.13
34)	T	benzene	1.049	0.897	0.864	0.940	0.902	0.938	0.962	0.936	0.936	5.88
35)	T	1,1-dichloropr...	0.355	0.286	0.282	0.297	0.282	0.294	0.296	0.293	0.298	7.96
36)	T	1,2-dichloroet...	0.295	0.265	0.262	0.286	0.275	0.291	0.301	0.254	0.279	6.15
37)	T	trichloroethene	0.243	0.201	0.202	0.214	0.204	0.215	0.217	0.212	0.214	6.34
38)	T	ethyl acrylate	0.337	0.292	0.285	0.335	0.311	0.331	0.354	0.279	0.315	8.82
39)	T,C	1,2-dichloropr...	0.273	0.240	0.236	0.256	0.248	0.260	0.269	0.235	0.252	5.86
40)	T	methyl methacr...	0.235	0.210	0.205	0.234	0.215	0.230	0.246	0.215	0.224	6.46

JN 12/3/14

SC 12/9/14

Method Path : C:\msdchem\1\METHODS\
Method File : SOIL120314.M
Title : VOA2 Soil ICAL 12/3/14

41)	T	dibromomethane	0.120	0.106	0.111	0.123	0.117	0.125	0.129	0.099	0.116	8.55
42)	T	bromodichlorom...	0.298	0.261	0.262	0.294	0.286	0.302	0.315	0.253	0.284	7.87
43)	T	2-chloroethyl ...	0.154	0.140	0.142	0.163	0.156	0.164	0.174	0.127	0.152	10.08
44)	I	chlorobenzene-d5	----------ISTD----------									
45)	T	cis-1,3-dichlo...	0.566	0.499	0.504	0.563	0.538	0.561	0.590	0.488	0.539	6.94
46)	T	4-methyl-2-pen...	0.353	0.302	0.337	0.370	0.340	0.354	0.375	0.293	0.341	8.78
47)	S	toluene-d8	1.384	1.396	1.399	1.391	1.377	1.369	1.370	1.341	1.378	1.37
48)	T,C	toluene	0.976	0.807	0.783	0.829	0.788	0.810	0.830	0.947	0.846	8.68
49)	T	1,1,2-trichlor...	0.239	0.211	0.213	0.236	0.222	0.232	0.243	0.213	0.226	5.71
50)	T	1,3-dichloropr...	0.500	0.452	0.450	0.502	0.475	0.494	0.515	0.440	0.479	5.93
51)	T	tetrachloroethene	0.316	0.248	0.245	0.254	0.240	0.246	0.247	0.256	0.257	9.47
52)	T	trans-1,3-dich...	0.499	0.432	0.440	0.496	0.475	0.498	0.523	0.429	0.474	7.57
53)	T	2-hexanone	0.262	0.215	0.214	0.254	0.238	0.246	0.262	0.214	0.238	8.86
54)	T	dibromochlorom...	0.275	0.253	0.254	0.293	0.279	0.291	0.311	0.247	0.276	8.25
55)	T	1,2-dibromoethane	0.259	0.227	0.227	0.257	0.247	0.257	0.269	0.222	0.246	7.31
56)	T,P	chlorobenzene	0.967	0.819	0.806	0.867	0.830	0.855	0.883	0.837	0.858	5.93
57)	T	1,1,1,2-tetrac...	0.311	0.276	0.278	0.306	0.292	0.305	0.318	0.262	0.293	6.73
58)	T,C	ethylbenzene	1.769	1.464	1.453	1.545	1.473	1.514	1.559	1.575	1.544	6.59
59)	T	m,p-xylene	0.686	0.557	0.555	0.586	0.556	0.573	0.588	0.638	0.592	7.89
60)	T	butyl acrylate	0.678	0.589	0.609	0.712	0.679	0.712	0.752	0.523	0.657	11.61
61)	T	o-xylene	0.647	0.549	0.531	0.574	0.548	0.571	0.588	0.573	0.573	6.13
62)	T	styrene	1.048	0.897	0.916	0.996	0.969	0.998	1.030	0.871	0.965	6.67
63)	T	isopropylbenzene	1.666	1.366	1.349	1.452	1.392	1.430	1.449	1.441	1.443	6.80
64)	T	bromobenzene	0.388	0.337	0.334	0.366	0.349	0.363	0.373	0.332	0.355	5.81
65)	T,P	bromoform	0.185	0.161	0.163	0.192	0.183	0.195	0.209	0.157	0.181	10.23
66)	S	4-bromofluorob...	0.483	0.471	0.479	0.482	0.481	0.477	0.480	0.502	0.482	1.83
67)	T	1,2,3-trichlor...	0.092	0.086	0.085	0.096	0.091	0.095	0.100	0.077	0.090	8.09
68)		trans-1,4-dich...	0.059	0.054	0.056	0.070	0.066	0.069	0.077		0.064	13.24
69)	T	n-propylbenzene	2.045	1.649	1.633	1.720	1.636	1.687	1.701	1.827	1.737	8.01
70)	T	2-chlorotoluene	1.162	0.965	0.954	1.008	0.969	1.000	1.017	1.040	1.014	6.53
71)	T	4-chlorotoluene	1.332	1.118	1.109	1.187	1.122	1.159	1.196	1.147	1.171	6.18
72)	T	1,3,5-trimethy...	1.369	1.101	1.102	1.186	1.136	1.174	1.195	1.257	1.190	7.48
73)	I	1,4-dichlorobenzen...	----------ISTD----------									
74)	T,P	1,1,2,2-tetrac...	0.718	0.631	0.622	0.711	0.665	0.709	0.728	0.517	0.663	10.80
75)	T	tert-butylbenzene	2.435	2.005	1.955	2.082	1.969	2.077	2.063	1.858	2.055	8.32
76)	T	sec-butylbenzene	3.656	2.987	2.949	3.094	2.879	3.062	3.009	2.867	3.063	8.25
77)	T	1,2,4-trimethy...	2.955	2.344	2.256	2.421	2.303	2.417	2.411	2.869	2.497	10.57
78)	T	1,3-dichlorobe...	1.545	1.282	1.258	1.350	1.278	1.341	1.355	1.262	1.334	7.06
79)	T	p-isopropyltol...	3.066	2.496	2.456	2.586	2.435	2.559	2.529	2.524	2.581	7.83
80)	T	dicyclopentadiene	3.964	3.251	3.295	3.278	3.195	3.423	3.439	3.234	3.385	7.37
81)	T	1,4-dichlorobe...	1.547	1.318	1.282	1.369	1.300	1.359	1.377	1.302	1.357	6.24
82)	T	1,2-dichlorobe...	1.374	1.192	1.161	1.271	1.213	1.271	1.315	1.075	1.234	7.59
83)	T	n-butylbenzene	2.851	2.240	2.201	2.288	2.160	2.244	2.230	2.376	2.324	9.57
84)	T	1,2-dibromo-3-...	0.105	0.096	0.096	0.112	0.104	0.109	0.120	0.076	0.102	13.15
85)	T	1,2,4-trichlor...	1.042	0.814	0.777	0.847	0.800	0.827	0.871	0.927	0.863	9.93
86)	T	hexachlorobuta...	0.676	0.489	0.473	0.501	0.464	0.486	0.492	0.538	0.515	13.38
87)	T	naphthalene	2.031	1.683	1.633	1.854	1.756	1.847	1.991	2.023	1.852	8.33
88)	T	1,2,3-trichlor...	0.906	0.719	0.692	0.752	0.713	0.751	0.788	0.805	0.766	8.89

JW 12/3/14
SC 12/9/14

Method Path : C:\msdchem\1\METHODS\
Method File : SOIL120314.M
Title : VOA2 Soil ICAL 12/3/14

89)	T	2-Methylnaphth...	1.077	0.790	0.768	0.826	0.798	0.836	0.917	1.452	0.933	24.86

(#) = Out of Range

Response Factor Report VOA2

Method Path : C:\msdchem\1\METHODS\
Method File : SOIL120314.M
Title : VOA2 Soil ICAL 12/3/14
Last Update : Fri Dec 05 09:22:22 2014
Response Via : Initial Calibration

Calibration Files
5 =B120303.D 10 =B120304.D 20 =B120305.D 50 =B120306.D 70 =B120307.D
100 =B120308.D 200 =B120309.D 2 =B120302.D

		Compound	5	10	20	50	70	100	200	2	Avg	%RSD:r^2
1)	Avg	fluorobenzene	----------ISTD----------									
2)	Avg	dichlorodifluo...	0.214	0.191	0.177	0.178	0.171	0.180	0.176	0.206	0.187	8.429
3)	Avg	chloromethane	0.336	0.293	0.276	0.279	0.276	0.288	0.285	0.340	0.297	8.817
4)	Avg	1,3-butadiene	0.282	0.234	0.238	0.238	0.223	0.233	0.231	0.287	0.246	9.900
5)	Avg	vinyl chloride	0.342	0.289	0.280	0.281	0.274	0.284	0.279	0.299	0.291	7.589
6)	Lin	bromomethane	0.114	0.097	0.091	0.085	0.080			0.123	0.098	0.998
7)	Avg	chloroethane	0.213	0.185	0.179	0.181	0.177	0.184	0.156	0.194	0.184	8.845
8)	Avg	trichlorofluor...	0.362	0.321	0.305	0.301	0.293	0.303	0.299	0.311	0.312	7.015
9)	Avg	acrolein	0.021	0.017	0.018	0.021	0.020	0.021	0.023	0.019	0.020	8.767
10)	Avg	1,1,2-trichlor...	0.146	0.121	0.119	0.118	0.112	0.119	0.116	0.128	0.122	8.696
11)	Avg	1,1-dichloroet...	0.192	0.161	0.154	0.165	0.157	0.165	0.161	0.169	0.165	7.062
12)	Avg	acetone		0.086	0.067	0.070	0.064	0.064	0.067		0.070	12.131
13)	Lin	iodomethane	0.125	0.111	0.130	0.167	0.174	0.191	0.198	0.083	0.147	0.998
14)	Avg	carbon disulfide	0.784	0.628	0.599	0.638	0.606	0.627	0.636	0.777	0.662	11.242
15)	Lin	methylene chlo...	0.601	0.369	0.289	0.254	0.230	0.232	0.231	0.727	0.367	0.999
16)	Avg	acrylonitrile	0.081	0.063	0.069	0.077	0.074	0.080	0.084	0.065	0.074	10.374
17)	Avg	trans-1,2-dich...	0.234	0.196	0.188	0.202	0.193	0.202	0.205	0.208	0.204	6.866
18)	Avg	methyl-t-butyl...	0.671	0.587	0.589	0.663	0.636	0.661	0.692	0.594	0.637	6.527
19)	Avg	acetonitrile	0.040	0.026	0.030	0.033	0.033	0.033	0.035	0.033	0.033	11.748
20)	Lin	hexane		0.762	0.536	0.405	0.386	0.368	0.334		0.465	1.000
21)	Avg	1,1-dichloroet...	0.467	0.395	0.390	0.420	0.407	0.420	0.430	0.423	0.419	5.728
22)	Avg	vinyl acetate	0.594	0.532	0.522	0.594	0.562	0.591	0.621	0.518	0.567	6.844
23)	Avg	cis-1,2-dichlo...	0.261	0.225	0.221	0.241	0.231	0.242	0.247	0.222	0.236	5.970
24)	Avg	2,2-dichloropr...	0.377	0.306	0.303	0.320	0.313	0.323	0.330	0.325	0.325	7.170
25)	Lin	2-butanone	0.188	0.112	0.105	0.115	0.105	0.114	0.121	0.164	0.128	0.997
26)	Avg	methyl acrylate	0.224	0.191	0.194	0.221	0.203	0.215	0.229	0.178	0.207	8.816
27)	Avg	bromochloromet...	0.110	0.095	0.096	0.105	0.102	0.108	0.109	0.096	0.102	6.028
28)	Avg	chloroform	0.407	0.350	0.344	0.373	0.356	0.378	0.390	0.351	0.369	6.006
29)	Avg	dibromofluorom...	0.219	0.220	0.221	0.219	0.218	0.222	0.222	0.220	0.220	0.703
30)	Avg	1,1,1-trichlor...	0.350	0.297	0.287	0.305	0.294	0.306	0.313	0.300	0.306	6.285
31)	Avg	cyclohexane	0.496	0.411	0.410	0.418	0.393	0.411	0.412	0.396	0.418	7.772
32)	Avg	carbon tetrach...	0.288	0.238	0.233	0.253	0.238	0.253	0.255	0.239	0.250	7.078
33)	Avg	1,2-dichloroet...	0.269	0.271	0.269	0.266	0.264	0.264	0.267	0.272	0.268	1.129
34)	Avg	benzene	1.049	0.897	0.864	0.940	0.902	0.938	0.962	0.936	0.936	5.885
35)	Avg	1,1-dichloropr...	0.355	0.286	0.282	0.297	0.282	0.294	0.296	0.293	0.298	7.958
36)	Avg	1,2-dichloroet...	0.295	0.265	0.262	0.286	0.275	0.291	0.301	0.254	0.279	6.153
37)	Avg	trichloroethene	0.243	0.201	0.202	0.214	0.204	0.215	0.217	0.212	0.214	6.342

38)	Avg	ethyl acrylate	0.337	0.292	0.285	0.335	0.311	0.331	0.354	0.279	0.315	8.825
39)	Avg	1,2-dichloropr...	0.273	0.240	0.236	0.256	0.248	0.260	0.269	0.235	0.252	5.859
40)	Avg	methyl methacr...	0.235	0.210	0.205	0.234	0.215	0.230	0.246	0.215	0.224	6.458
41)	Avg	dibromomethane	0.120	0.106	0.111	0.123	0.117	0.125	0.129	0.099	0.116	8.549
42)	Avg	bromodichlorom...	0.298	0.261	0.262	0.294	0.286	0.302	0.315	0.253	0.284	7.874
43)	Avg	2-chloroethyl ...	0.154	0.140	0.142	0.163	0.156	0.164	0.174	0.127	0.152	10.080
44)	Avg	chlorobenzene-d5	----------ISTD----------									
45)	Avg	cis-1,3-dichlo...	0.566	0.499	0.504	0.563	0.538	0.561	0.590	0.488	0.539	6.944
46)	Avg	4-methyl-2-pen...	0.353	0.302	0.337	0.370	0.340	0.354	0.375	0.293	0.341	8.780
47)	Avg	toluene-d8	1.384	1.396	1.399	1.391	1.377	1.369	1.370	1.341	1.378	1.374
48)	Avg	toluene	0.976	0.807	0.783	0.829	0.788	0.810	0.830	0.947	0.846	8.676
49)	Avg	1,1,2-trichlor...	0.239	0.211	0.213	0.236	0.222	0.232	0.243	0.213	0.226	5.712
50)	Avg	1,3-dichloropr...	0.500	0.452	0.450	0.502	0.475	0.494	0.515	0.440	0.479	5.932
51)	Avg	tetrachloroethene	0.316	0.248	0.245	0.254	0.240	0.246	0.247	0.256	0.257	9.472
52)	Avg	trans-1,3-dich...	0.499	0.432	0.440	0.496	0.475	0.498	0.523	0.429	0.474	7.574
53)	Avg	2-hexanone	0.262	0.215	0.214	0.254	0.238	0.246	0.262	0.214	0.238	8.863
54)	Avg	dibromochlorom...	0.275	0.253	0.254	0.293	0.279	0.291	0.311	0.247	0.276	8.250
55)	Avg	1,2-dibromoethane	0.259	0.227	0.227	0.257	0.247	0.257	0.269	0.222	0.246	7.307
56)	Avg	chlorobenzene	0.967	0.819	0.806	0.867	0.830	0.855	0.883	0.837	0.858	5.929
57)	Avg	1,1,1,2-tetrac...	0.311	0.276	0.278	0.306	0.292	0.305	0.318	0.262	0.293	6.728
58)	Avg	ethylbenzene	1.769	1.464	1.453	1.545	1.473	1.514	1.559	1.575	1.544	6.587
59)	Avg	m,p-xylene	0.686	0.557	0.555	0.586	0.556	0.573	0.588	0.638	0.592	7.890
60)	Avg	butyl acrylate	0.678	0.589	0.609	0.712	0.679	0.712	0.752	0.523	0.657	11.608
61)	Avg	o-xylene	0.647	0.549	0.531	0.574	0.548	0.571	0.588	0.573	0.573	6.135
62)	Avg	styrene	1.048	0.897	0.916	0.996	0.969	0.998	1.030	0.871	0.965	6.673
63)	Avg	isopropylbenzene	1.666	1.366	1.349	1.452	1.392	1.430	1.449	1.441	1.443	6.802
64)	Avg	bromobenzene	0.388	0.337	0.334	0.366	0.349	0.363	0.373	0.332	0.355	5.805
65)	Avg	bromoform	0.185	0.161	0.163	0.192	0.183	0.195	0.209	0.157	0.181	10.231
66)	Avg	4-bromofluorob...	0.483	0.471	0.479	0.482	0.481	0.477	0.480	0.502	0.482	1.826
67)	Avg	1,2,3-trichlor...	0.092	0.086	0.085	0.096	0.091	0.095	0.100	0.077	0.090	8.090
68)	Avg	trans-1,4-dich...	0.059	0.054	0.056	0.070	0.066	0.069	0.077		0.064	13.244
69)	Avg	n-propylbenzene	2.045	1.649	1.633	1.720	1.636	1.687	1.701	1.827	1.737	8.015
70)	Avg	2-chlorotoluene	1.162	0.965	0.954	1.008	0.969	1.000	1.017	1.040	1.014	6.528
71)	Avg	4-chlorotoluene	1.332	1.118	1.109	1.187	1.122	1.159	1.196	1.147	1.171	6.184
72)	Avg	1,3,5-trimethy...	1.369	1.101	1.102	1.186	1.136	1.174	1.195	1.257	1.190	7.484
73)	Avg	1,4-dichlorobenzen...	----------ISTD----------									
74)	Avg	1,1,2,2-tetrac...	0.718	0.631	0.622	0.711	0.665	0.709	0.728	0.517	0.663	10.796
75)	Avg	tert-butylbenzene	2.435	2.005	1.955	2.082	1.969	2.077	2.063	1.858	2.055	8.321
76)	Avg	sec-butylbenzene	3.656	2.987	2.949	3.094	2.879	3.062	3.009	2.867	3.063	8.251
77)	Avg	1,2,4-trimethy...	2.955	2.344	2.256	2.421	2.303	2.417	2.411	2.869	2.497	10.568
78)	Avg	1,3-dichlorobe...	1.545	1.282	1.258	1.350	1.278	1.341	1.355	1.262	1.334	7.056
79)	Avg	p-isopropyltol...	3.066	2.496	2.456	2.586	2.435	2.559	2.529	2.524	2.581	7.830
80)	Avg	dicyclopentadiene	3.964	3.251	3.295	3.278	3.195	3.423	3.439	3.234	3.385	7.374
81)	Avg	1,4-dichlorobe...	1.547	1.318	1.282	1.369	1.300	1.359	1.377	1.302	1.357	6.240
82)	Avg	1,2-dichlorobe...	1.374	1.192	1.161	1.271	1.213	1.271	1.315	1.075	1.234	7.594
83)	Avg	n-butylbenzene	2.851	2.240	2.201	2.288	2.160	2.244	2.230	2.376	2.324	9.568
84)	Avg	1,2-dibromo-3-...	0.105	0.096	0.096	0.112	0.104	0.109	0.120	0.076	0.102	13.154
85)	Avg	1,2,4-trichlor...	1.042	0.814	0.777	0.847	0.800	0.827	0.871	0.927	0.863	9.930
86)	Avg	hexachlorobuta...	0.676	0.489	0.473	0.501	0.464	0.486	0.492	0.538	0.515	13.376
87)	Avg	naphthalene	2.031	1.683	1.633	1.854	1.756	1.847	1.991	2.023	1.852	8.326

88)	Avg	1,2,3-trichlor...	0.906	0.719	0.692	0.752	0.713	0.751	0.788	0.805	0.766	8.890
89)	Lin	2-Methylnaphth...	1.077	0.790	0.768	0.826	0.798	0.836	0.917	1.452	0.933	0.996

(#) = Out of Range

B120306.D SOIL120314.M Fri Dec 05 09:22:35 2014 voa2

C:\msdchem\1\METHODS\SOIL120314.M\calfit.txt

Response Factor Report VOA2

Method Path : C:\msdchem\1\METHODS\
Method File : MEOH112514.m
Title : Voa2 MEOH ICAL 11/25/14
Last Update : Tue Nov 25 16:05:51 2014
Response Via : Initial Calibration

Calibration Files
2 =B112502.D 5 =B112503.D 10 =B112504.D 20 =B112505.D 50 =B112506.D 70 =B112507.D 100 =B112508.D
200 =B112509.D

		Compound	2	5	10	20	50	70	100	200	Avg	%RSD
1)	I	fluorobenzene	----------	----------	ISTD	----------	----------	----------	----------	----------		
2)	T	dichlorodifluo...	0.193	0.223	0.217	0.224	0.210	0.241	0.215	0.208	0.216	6.52
3)	T,P	chloromethane	0.281	0.281	0.295	0.310	0.298	0.317	0.293	0.282	0.295	4.60
4)	T,C	vinyl chloride	0.240	0.271	0.287	0.306	0.299	0.336	0.309	0.302	0.294	9.77
5)	T	1,3-butadiene	0.191	0.278	0.257	0.288	0.247	0.274	0.247	0.237	0.252	12.10
6)	T	bromomethane			0.011	0.017	0.021	0.036	0.039	0.049	0.029	51.90
7)	T	chloroethane		0.143	0.184	0.188	0.180	0.211	0.198	0.191	0.185	11.39
8)	T	trichlorofluor...	0.294	0.316	0.331	0.354	0.344	0.378	0.355	0.344	0.339	7.64
9)	T	acrolein	0.032	0.028	0.029	0.031	0.031	VQL 500			0.030	4.86
10)		1,1,2-Trichlor...	0.132	0.140	0.147	0.155	0.151	0.167	0.154	0.152	0.150	6.96
11)	T,C	1,1-dichloroet...	0.175	0.171	0.191	0.187	0.183	0.199	0.187	0.181	0.184	4.80
12)		iodomethane	0.050	0.026	0.031	0.042	0.081	0.152	0.165	0.185	0.091	71.87
13)	T	acetone	0.040	0.063	0.055	0.044	0.031	0.027	0.026	0.024	0.051	75.59
14)	T	carbon disulfide	0.674	0.669	0.625	0.661	0.631	0.719	0.646	0.633	0.657	4.70
15)	T	methylene chlo...	0.375	0.281	0.251	0.255	0.242	0.259	0.247	0.238	0.268	16.71
16)	T	acrylonitrile	0.114	0.126	0.123	0.129	0.126	0.174	0.123	0.120	0.129	14.47
17)	T	trans-1,2-dich...	0.214	0.215	0.211	0.221	0.214	0.234	0.225	0.216	0.219	3.55
18)	T	methyl-t-butyl...	0.685	0.741	0.755	0.787	0.770	0.786	0.771	0.757	0.756	4.33
19)	T	acetonitrile	0.064	0.053	0.049	0.049	0.046	VQL 500			0.052	13.18
20)	T	hexane	0.441	0.398	0.344	0.355	0.338	0.461	0.381	0.354	0.384	11.99
21)	T,P	1,1-dichloroet...	0.422	0.438	0.455	0.476	0.462	0.492	0.471	0.460	0.460	4.76
22)	T	vinyl acetate	0.964	0.837	0.795	0.854	0.799	0.814	0.795	0.771	0.829	7.31
23)	T	cis-1,2-dichlo...	0.411	0.270	0.245	0.269	0.256	0.272	0.263	0.253	0.280	19.21
24)	T	2,2-dichloropr...	0.376	0.365	0.361	0.387	0.359	0.410	0.390	0.370	0.377	4.62
25)	T	2-butanone	0.046	0.038	0.032	0.038	0.033	0.035	0.034	0.032	0.036	12.90
26)	T	methyl acrylate	0.355	0.304	0.279	0.305	0.295	0.291	0.291	0.277	0.300	8.24
27)		bromochloromet...	0.108	0.110	0.117	0.119	0.117	0.125	0.122	0.115	0.117	4.87
28)	T,C	chloroform	0.398	0.376	0.382	0.405	0.390	0.417	0.401	0.393	0.395	3.27
29)	S	dibromofluorom...	0.222	0.224	0.220	0.220	0.221	0.219	0.221	0.225	0.221	0.98
30)	T	1,1,1-trichlor...	0.281	0.316	0.326	0.349	0.342	0.359	0.347	0.334	0.332	7.40
31)	T	cyclohexane	0.379	0.393	0.405	0.435	0.420	0.475	0.421	0.414	0.418	6.91
32)	T	carbon tetrach...	0.263	0.262	0.264	0.282	0.278	0.302	0.291	0.284	0.278	5.21
33)	S	1,2-dichloroet...	0.285	0.291	0.290	0.277	0.280	0.276	0.278	0.281	0.282	2.07
34)	T	benzene	0.907	0.947	0.966	1.004	0.996	1.054	1.013	0.989	0.984	4.53
35)	T	1,1-dichloropr...	0.277	0.294	0.304	0.328	0.317	0.344	0.326	0.317	0.313	6.68
36)	T	1,2-dichloroet...	0.264	0.290	0.304	0.331	0.324	0.338	0.329	0.320	0.313	7.97
37)	T	trichloroethene	0.211	0.238	0.226	0.235	0.228	0.247	0.236	0.232	0.232	4.50
38)	T	ethyl acrylate	0.448	0.420	0.398	0.429	0.418	0.411	0.410	0.397	0.416	4.04
39)	T,C	1,2-dichloropr...	0.237	0.263	0.260	0.276	0.269	0.288	0.278	0.273	0.268	5.77
40)	T	methyl methacr...	0.209	0.196	0.193	0.203	0.206	0.201	0.199	0.190	0.200	3.24

JV 12/1/14

SC 12/2/14

Method Path : C:\msdchem\1\METHODS\
Method File : MEOH112514.m
Title : Voa2 MEOH ICAL 11/25/14

41)	T	dibromomethane	0.171	0.142	0.145	0.149	0.146	0.150	0.146	0.144	0.149	6.18
42)	T	bromodichlorom...	0.293	0.305	0.328	0.334	0.325	0.344	0.329	0.324	0.323	5.11
43)	T	2-chloroethyl ...	0.176	0.197	0.198	0.215	0.206	0.209	0.206	0.201	0.201	5.89
44)	I	chlorobenzene-d5	----------ISTD----------									
45)	T	cis-1,3-dichlo...	0.495	0.555	0.576	0.615	0.607	0.619	0.624	0.599	0.586	7.43
46)	T	4-methyl-2-pen...	0.438	0.417	0.459	0.467	0.439	0.393	0.418	0.384	0.427	6.86
47)	S	toluene-d8	1.302	1.343	1.360	1.366	1.359	1.321	1.359	1.346	1.345	1.65
48)	T,C	toluene	0.724	0.825	0.833	0.877	0.867	0.891	0.889	0.854	0.845	6.45
49)	T	1,1,2-trichlor...	0.288	0.272	0.272	0.295	0.275	0.274	0.278	0.264	0.277	3.56
50)	T	1,3-dichloropr...	0.466	0.540	0.554	0.586	0.576	0.575	0.584	0.558	0.555	7.10
51)	T	tetrachloroethene	0.219	0.249	0.259	0.277	0.270	0.288	0.278	0.270	0.264	8.20
52)	T	trans-1,3-dich...	0.471	0.546	0.535	0.567	0.560	0.576	0.576	0.552	0.548	6.26
53)	T	2-hexanone	0.297	0.319	0.287	0.316	0.296	0.266	0.282	0.258	0.290	7.51
54)	T	dibromochlorom...	0.279	0.320	0.323	0.342	0.335	0.340	0.346	0.336	0.328	6.63
55)	T	1,2-dibromoethane	0.275	0.309	0.309	0.324	0.318	0.317	0.321	0.308	0.310	4.96
56)	T,P	chlorobenzene	0.759	0.846	0.862	0.916	0.905	0.929	0.926	0.890	0.879	6.46
57)	T	1,1,1,2-tetrac...	0.285	0.304	0.304	0.330	0.324	0.330	0.331	0.320	0.316	5.32
58)	T,C	ethylbenzene	1.514	1.522	1.536	1.641	1.583	1.651	1.623	1.575	1.581	3.40
59)	T	m,p-xylene	0.505	0.571	0.569	0.620	0.606	0.634	0.622	0.600	0.591	7.08
60)	T	butyl acrylate	0.722	0.757	0.790	0.828	0.818	0.790	0.812	0.763	0.785	4.58
61)	T	o-xylene	0.512	0.562	0.568	0.613	0.597	0.619	0.608	0.588	0.583	6.04
62)	T	styrene	0.859	0.988	1.006	1.066	1.042	1.077	1.068	1.031	1.017	7.00
63)	T	isopropylbenzene	1.250	1.361	1.404	1.493	1.455	1.551	1.493	1.435	1.430	6.53
64)	T	bromobenzene	0.291	0.356	0.373	0.393	0.385	0.400	0.395	0.385	0.372	9.60
65)	T,P	bromoform	0.199	0.230	0.233	0.245	0.243	0.241	0.249	0.240	0.235	6.69
66)	S	4-bromofluorob...	0.518	0.493	0.495	0.492	0.491	0.502	0.486	0.486	0.495	2.10
67)	T	1,2,3-trichlor...	0.319	0.326	0.359	0.380	0.378	0.348	0.349	0.331	0.349	6.51
68)		trans-1,4-dich...	0.167	0.146	0.145	0.150	0.144	0.138	0.142	0.135	0.146	6.73
69)	T	n-propylbenzene	1.536	1.597	1.676	1.761	1.720	1.826	1.733	1.677	1.691	5.43
70)	T	2-chlorotoluene	0.918	0.956	0.986	1.042	1.013	1.074	1.031	0.997	1.002	4.96
71)	T	4-chlorotoluene	1.105	1.160	1.138	1.195	1.176	1.243	1.201	1.169	1.173	3.56
72)	T	1,3,5-trimethy...	1.067	1.109	1.149	1.208	1.180	1.268	1.204	1.170	1.170	5.32
73)	I	1,4-dichlorobenzen...	----------ISTD----------									
74)	T,P	1,1,2,2-tetrac...	0.596	0.787	0.840	0.859	0.826	0.744	0.813	0.758	0.778	10.71
75)	T	tert-butylbenzene	1.476	1.779	1.828	1.936	1.894	2.002	1.936	1.837	1.836	8.83
76)	T	sec-butylbenzene	2.138	2.527	2.629	2.724	2.731	2.927	2.790	2.641	2.638	8.89
77)	T	1,2,4-trimethy...	1.780	2.158	2.226	2.349	2.321	2.393	2.374	2.257	2.232	8.93
78)	T	1,3-dichlorobe...	0.927	1.178	1.234	1.324	1.303	1.322	1.349	1.296	1.242	11.16
79)	T	p-isopropyltol...	1.803	2.182	2.228	2.335	2.334	2.504	2.400	2.293	2.260	9.27
80)	T	dicyclopentadiene	2.636	2.979	3.012	3.098	3.014	3.168	3.036	2.884	2.978	5.41
81)	T	1,4-dichlorobe...	0.933	1.216	1.279	1.349	1.338	1.347	1.376	1.319	1.269	11.42
82)	T	1,2-dichlorobe...	0.854	1.154	1.196	1.269	1.250	1.255	1.275	1.224	1.185	11.79
83)	T	n-butylbenzene	1.700	1.862	1.864	1.988	1.962	2.139	2.022	1.928	1.933	6.73
84)	T	1,2-dibromo-3-...	0.094	0.126	0.123	0.139	0.133	0.115	0.127	0.118	0.122	11.20
85)	T	1,2,4-trichlor...	0.574	0.624	0.633	0.669	0.671	0.682	0.679	0.656	0.649	5.68
86)	T	hexachlorobuta...	0.351	0.307	0.314	0.323	0.320	0.355	0.327	0.308	0.326	5.63
87)	T	naphthalene	1.243	1.496	1.549	1.666	1.669	1.538	1.657	1.565	1.548	9.03
88)	T	1,2,3-trichlor...	0.431	0.480	0.482	0.508	0.527	0.512	0.523	0.499	0.495	6.26

JD 12/1/14
SC 12/2/14

Method Path : C:\msdchem\1\METHODS\
Method File : MEOH112514.m
Title : Voa2 MEOH ICAL 11/25/14

89)	T	2-methylnaphth...	0.309	0.300	0.328	0.351	0.378	0.339	0.370	0.358	0.342	8.23

(#) = Out of Range

Response Factor Report VOA2

Method Path : C:\msdchem\1\METHODS\
Method File : MEOH112514.m
Title : Voa2 MEOH ICAL 11/25/14
Last Update : Tue Nov 25 16:05:51 2014
Response Via : Initial Calibration

Calibration Files
2 =B112502.D 5 =B112503.D 10 =B112504.D 20 =B112505.D 50 =B112506.D
70 =B112507.D 100 =B112508.D 200 =B112509.D

	Compound	2	5	10	20	50	70	100	200	Avg	%RSD:r^2
1) Avg	fluorobenzene	----------ISTD----------									
2) Avg	dichlorodifluo...	0.193	0.223	0.217	0.224	0.210	0.241	0.215	0.208	0.216	6.518
3) Avg	chloromethane	0.281	0.281	0.295	0.310	0.298	0.317	0.293	0.282	0.295	4.604
4) Avg	vinyl chloride	0.240	0.271	0.287	0.306	0.299	0.336	0.309	0.302	0.294	9.772
5) Avg	1,3-butadiene	0.191	0.278	0.257	0.288	0.247	0.274	0.247	0.237	0.252	12.102
6) Quad	bromomethane			0.011	0.017	0.021	0.036	0.039	0.049	0.029	0.996
7) Avg	chloroethane		0.143	0.184	0.188	0.180	0.211	0.198	0.191	0.185	11.390
8) Avg	trichlorofluor...	0.294	0.316	0.331	0.354	0.344	0.378	0.355	0.344	0.339	7.645
9) Avg	acrolein	0.032	0.028	0.029	0.031	0.031				0.030	4.857
10) Avg	1,1,2-Trichlor...	0.132	0.140	0.147	0.155	0.151	0.167	0.154	0.152	0.150	6.958
11) Avg	1,1-dichloroet...	0.175	0.171	0.191	0.187	0.183	0.199	0.187	0.181	0.184	4.797
12) Quad	iodomethane	0.050	0.026	0.031	0.042	0.081	0.152	0.165	0.185	0.091	0.991
13) Lin	acetone	0.140	0.063	0.055	0.044	0.031	0.027	0.026	0.024	0.051	0.997
14) Avg	carbon disulfide	0.674	0.669	0.625	0.661	0.631	0.719	0.646	0.633	0.657	4.696
15) Lin	methylene chlo...	0.375	0.281	0.251	0.255	0.242	0.259	0.247	0.238	0.268	0.999
16) Avg	acrylonitrile	0.114	0.126	0.123	0.129	0.126	0.174	0.123	0.120	0.129	14.470
17) Avg	trans-1,2-dich...	0.214	0.215	0.211	0.221	0.214	0.234	0.225	0.216	0.219	3.548
18) Avg	methyl-t-butyl...	0.685	0.741	0.755	0.787	0.770	0.786	0.771	0.757	0.756	4.327
19) Avg	acetonitrile	0.064	0.053	0.049	0.049	0.046				0.052	13.176
20) Avg	hexane	0.441	0.398	0.344	0.355	0.338	0.461	0.381	0.354	0.384	11.993
21) Avg	1,1-dichloroet...	0.422	0.438	0.455	0.476	0.462	0.492	0.471	0.460	0.460	4.763
22) Avg	vinyl acetate	0.964	0.837	0.795	0.854	0.799	0.814	0.795	0.771	0.829	7.311
23) Lin	cis-1,2-dichlo...	0.411	0.270	0.245	0.269	0.256	0.272	0.263	0.253	0.280	0.999
24) Avg	2,2-dichloropr...	0.376	0.365	0.361	0.387	0.359	0.410	0.390	0.370	0.377	4.621
25) Avg	2-butanone	0.046	0.038	0.032	0.038	0.033	0.035	0.034	0.032	0.036	12.898
26) Avg	methyl acrylate	0.355	0.304	0.279	0.305	0.295	0.291	0.291	0.277	0.300	8.235
27) Avg	bromochloromet...	0.108	0.110	0.117	0.119	0.117	0.125	0.122	0.115	0.117	4.865
28) Avg	chloroform	0.398	0.376	0.382	0.405	0.390	0.417	0.401	0.393	0.395	3.273
29) Avg	dibromofluorom...	0.222	0.224	0.220	0.220	0.221	0.219	0.221	0.225	0.221	0.978
30) Avg	1,1,1-trichlor...	0.281	0.316	0.326	0.349	0.342	0.359	0.347	0.334	0.332	7.402
31) Avg	cyclohexane	0.379	0.393	0.405	0.435	0.420	0.475	0.421	0.414	0.418	6.912
32) Avg	carbon tetrach...	0.263	0.262	0.264	0.282	0.278	0.302	0.291	0.284	0.278	5.212
33) Avg	1,2-dichloroet...	0.285	0.291	0.290	0.277	0.280	0.276	0.278	0.281	0.282	2.068
34) Avg	benzene	0.907	0.947	0.966	1.004	0.996	1.054	1.013	0.989	0.984	4.526
35) Avg	1,1-dichloropr...	0.277	0.294	0.304	0.328	0.317	0.344	0.326	0.317	0.313	6.675
36) Avg	1,2-dichloroet...	0.264	0.290	0.304	0.331	0.324	0.338	0.329	0.320	0.313	7.967
37) Avg	trichloroethene	0.211	0.238	0.226	0.235	0.228	0.247	0.236	0.232	0.232	4.496

38)	Avg	ethyl acrylate	0.448	0.420	0.398	0.429	0.418	0.411	0.410	0.397	0.416	4.041
39)	Avg	1,2-dichloropr...	0.237	0.263	0.260	0.276	0.269	0.288	0.278	0.273	0.268	5.768
40)	Avg	methyl methacr...	0.209	0.196	0.193	0.203	0.206	0.201	0.199	0.190	0.200	3.242
41)	Avg	dibromomethane	0.171	0.142	0.145	0.149	0.146	0.150	0.146	0.144	0.149	6.176
42)	Avg	bromodichlorom...	0.293	0.305	0.328	0.334	0.325	0.344	0.329	0.324	0.323	5.107
43)	Avg	2-chloroethyl ...	0.176	0.197	0.198	0.215	0.206	0.209	0.206	0.201	0.201	5.888
44)	Avg	chlorobenzene-d5	----------ISTD----------									
45)	Avg	cis-1,3-dichlo...	0.495	0.555	0.576	0.615	0.607	0.619	0.624	0.599	0.586	7.430
46)	Avg	4-methyl-2-pen...	0.438	0.417	0.459	0.467	0.439	0.393	0.418	0.384	0.427	6.857
47)	Avg	toluene-d8	1.302	1.343	1.360	1.366	1.359	1.321	1.359	1.346	1.345	1.648
48)	Avg	toluene	0.724	0.825	0.833	0.877	0.867	0.891	0.889	0.854	0.845	6.449
49)	Avg	1,1,2-trichlor...	0.288	0.272	0.272	0.295	0.275	0.274	0.278	0.264	0.277	3.557
50)	Avg	1,3-dichloropr...	0.466	0.540	0.554	0.586	0.576	0.575	0.584	0.558	0.555	7.097
51)	Avg	tetrachloroethene	0.219	0.249	0.259	0.277	0.270	0.288	0.278	0.270	0.264	8.201
52)	Avg	trans-1,3-dich...	0.471	0.546	0.535	0.567	0.560	0.576	0.576	0.552	0.548	6.264
53)	Avg	2-hexanone	0.297	0.319	0.287	0.316	0.296	0.266	0.282	0.258	0.290	7.512
54)	Avg	dibromochlorom...	0.279	0.320	0.323	0.342	0.335	0.340	0.346	0.336	0.328	6.630
55)	Avg	1,2-dibromoethane	0.275	0.309	0.309	0.324	0.318	0.317	0.321	0.308	0.310	4.962
56)	Avg	chlorobenzene	0.759	0.846	0.862	0.916	0.905	0.929	0.926	0.890	0.879	6.462
57)	Avg	1,1,1,2-tetrac...	0.285	0.304	0.304	0.330	0.324	0.330	0.331	0.320	0.316	5.318
58)	Avg	ethylbenzene	1.514	1.522	1.536	1.641	1.583	1.651	1.623	1.575	1.581	3.396
59)	Avg	m,p-xylene	0.505	0.571	0.569	0.620	0.606	0.634	0.622	0.600	0.591	7.080
60)	Avg	butyl acrylate	0.722	0.757	0.790	0.828	0.818	0.790	0.812	0.763	0.785	4.575
61)	Avg	o-xylene	0.512	0.562	0.568	0.613	0.597	0.619	0.608	0.588	0.583	6.040
62)	Avg	styrene	0.859	0.988	1.006	1.066	1.042	1.077	1.068	1.031	1.017	6.999
63)	Avg	isopropylbenzene	1.250	1.361	1.404	1.493	1.455	1.551	1.493	1.435	1.430	6.534
64)	Avg	bromobenzene	0.291	0.356	0.373	0.393	0.385	0.400	0.395	0.385	0.372	9.602
65)	Avg	bromoform	0.199	0.230	0.233	0.245	0.243	0.241	0.249	0.240	0.235	6.686
66)	Avg	4-bromofluorob...	0.518	0.493	0.495	0.492	0.491	0.502	0.486	0.486	0.495	2.104
67)	Avg	1,2,3-trichlor...	0.319	0.326	0.359	0.380	0.378	0.348	0.349	0.331	0.349	6.506
68)	Avg	trans-1,4-dich...	0.167	0.146	0.145	0.150	0.144	0.138	0.142	0.135	0.146	6.732
69)	Avg	n-propylbenzene	1.536	1.597	1.676	1.761	1.720	1.826	1.733	1.677	1.691	5.432
70)	Avg	2-chlorotoluene	0.918	0.956	0.986	1.042	1.013	1.074	1.031	0.997	1.002	4.957
71)	Avg	4-chlorotoluene	1.105	1.160	1.138	1.195	1.176	1.243	1.201	1.169	1.173	3.559
72)	Avg	1,3,5-trimethy...	1.067	1.109	1.149	1.208	1.180	1.268	1.204	1.170	1.170	5.318
73)	Avg	1,4-dichlorobenzen...	----------ISTD----------									
74)	Avg	1,1,2,2-tetrac...	0.596	0.787	0.840	0.859	0.826	0.744	0.813	0.758	0.778	10.708
75)	Avg	tert-butylbenzene	1.476	1.779	1.828	1.936	1.894	2.002	1.936	1.837	1.836	8.830
76)	Avg	sec-butylbenzene	2.138	2.527	2.629	2.724	2.731	2.927	2.790	2.641	2.638	8.892
77)	Avg	1,2,4-trimethy...	1.780	2.158	2.226	2.349	2.321	2.393	2.374	2.257	2.232	8.928
78)	Avg	1,3-dichlorobe...	0.927	1.178	1.234	1.324	1.303	1.322	1.349	1.296	1.242	11.155
79)	Avg	p-isopropyltol...	1.803	2.182	2.228	2.335	2.334	2.504	2.400	2.293	2.260	9.272
80)	Avg	dicyclopentadiene	2.636	2.979	3.012	3.098	3.014	3.168	3.036	2.884	2.978	5.414
81)	Avg	1,4-dichlorobe...	0.933	1.216	1.279	1.349	1.338	1.347	1.376	1.319	1.269	11.421
82)	Avg	1,2-dichlorobe...	0.854	1.154	1.196	1.269	1.250	1.255	1.275	1.224	1.185	11.795
83)	Avg	n-butylbenzene	1.700	1.862	1.864	1.988	1.962	2.139	2.022	1.928	1.933	6.726
84)	Avg	1,2-dibromo-3-...	0.094	0.126	0.123	0.139	0.133	0.115	0.127	0.118	0.122	11.200
85)	Avg	1,2,4-trichlor...	0.574	0.624	0.633	0.669	0.671	0.682	0.679	0.656	0.649	5.680
86)	Avg	hexachlorobuta...	0.351	0.307	0.314	0.323	0.320	0.355	0.327	0.308	0.326	5.635
87)	Avg	naphthalene	1.243	1.496	1.549	1.666	1.669	1.538	1.657	1.565	1.548	9.029

88) Avg 1,2,3-trichlor... 0.431 0.480 0.482 0.508 0.527 0.512 0.523 0.499 0.495 6.260
89) Avg 2-methylnaphth... 0.309 0.300 0.328 0.351 0.378 0.339 0.370 0.358 0.342 8.228

(#) = Out of Range

B120114.D MEOH112514.m Mon Dec 01 16:42:16 2014 voa2

C:\msdchem\1\METHODS\MEOH112514.m\calfit.txt

VOA FORM VII: CONTINUING CALIBRATION SUMMARY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\B122314\B122303.D Vial: 1
Acq On : 23 Dec 2014 10:22 am Operator: jln
Sample : S021758-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 26 07:51:12 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	95	0.00
2	T	dichlorodifluoromethane	0.187	0.172	8.0	92	0.00
3	T,P	chloromethane	0.297	0.314	-5.7	106	0.00
4	T	1,3-butadiene	0.246	0.268	-8.9	107	0.00
5	T,C	vinyl chloride	0.291	0.322	-10.7	109	0.00
6	T	bromomethane	0.098	0.135	-37.8#	150	0.02
7	T	chloroethane	0.184	0.208	-13.0	109	0.04
8	T	trichlorofluoromethane	0.312	0.361	-15.7	114	0.02
9	T	acrolein	0.020	0.041	-105.0#	184	0.00
10	T	1,1,2-trichloro-1,2,2-trifl	0.122	0.236	-93.4#	190	0.01
11	T,C	1,1-dichloroethene	0.165	0.182	-10.3	104	0.01
12	T	acetone	0.070	0.074	-5.7	101	0.00
13	T	iodomethane	0.147	0.227	-54.4#	129	0.01
14	T	carbon disulfide	0.662	0.693	-4.7	103	0.01
15	T	methylene chloride	0.367	0.291	20.7#	109	0.01
16	T	acrylonitrile	0.074	0.094	-27.0#	116	0.00
17	T	trans-1,2-dichloroethene	0.204	0.224	-9.8	105	0.00
18	T	methyl-t-butyl ether	0.637	0.712	-11.8	102	0.00
19	T	acetonitrile	0.033	0.036	-9.1	101	0.00
20	T	hexane	0.465	0.492	-5.8	115	0.00
21	T,P	1,1-dichloroethane	0.419	0.462	-10.3	104	0.00
22	T	vinyl acetate	0.567	0.627	-10.6	100	0.00
23	T	cis-1,2-dichloroethene	0.236	0.266	-12.7	105	0.00
24	T	2,2-dichloropropane	0.325	0.368	-13.2	109	0.00
25	T	2-butanone	0.128	0.125	2.3	103	0.00
26	T	methyl acrylate	0.207	0.236	-14.0	101	0.00
27	T	bromochloromethane	0.102	0.116	-13.7	105	0.00
28	T,C	chloroform	0.369	0.408	-10.6	104	0.00
29	S	dibromofluoromethane	0.220	0.229	-4.1	99	0.00
30	T	1,1,1-trichloroethane	0.306	0.342	-11.8	106	0.00
31	T	cyclohexane	0.418	0.484	-15.8	110	0.00
32	T	carbon tetrachloride	0.250	0.278	-11.2	104	0.00
33	S	1,2-dichloroethane-d4	0.268	0.278	-3.7	99	0.00
34	T	benzene	0.936	1.038	-10.9	105	0.00
35	T	1,1-dichloropropene	0.298	0.339	-13.8	108	0.00
36	T	1,2-dichloroethane	0.279	0.310	-11.1	103	0.00
37	T	trichloroethene	0.214	0.242	-13.1	107	0.00
38	T	ethyl acrylate	0.315	0.350	-11.1	99	0.00
39	T,C	1,2-dichloropropane	0.252	0.285	-13.1	105	0.00
40	T	methyl methacrylate	0.224	0.243	-8.5	98	0.00
41	T	dibromomethane	0.116	0.131	-12.9	101	0.00
42	T	bromodichloromethane	0.284	0.319	-12.3	103	0.00
43	T	2-chloroethyl vinyl ether	0.152	0.173	-13.8	101	0.00
44	I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00
45	T	cis-1,3-dichloropropene	0.539	0.617	-14.5	104	0.00
46	T	4-methyl-2-pentanone	0.341	0.383	-12.3	98	0.00
47	S	toluene-d8	1.378	1.448	-5.1	99	0.00
48	T,C	toluene	0.846	0.930	-9.9	107	0.00
49	T	1,1,2-trichloroethane	0.226	0.255	-12.8	103	0.00
50	T	1,3-dichloropropane	0.479	0.546	-14.0	104	0.00

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\B122314\B122303.D Vial: 1
Acq On : 23 Dec 2014 10:22 am Operator: jln
Sample : S021758-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 26 07:51:12 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	tetrachloroethene	0.257	0.304	-18.3	114	0.00
52	T	trans-1,3-dichloropropene	0.474	0.533	-12.4	102	0.00
53	T	2-hexanone	0.238	0.263	-10.5	98	0.00
54	T	dibromochloromethane	0.276	0.312	-13.0	101	0.00
55	T	1,2-dibromoethane	0.246	0.281	-14.2	104	0.00
56	T,P	chlorobenzene	0.858	0.974	-13.5	107	0.00
57	T	1,1,1,2-tetrachloroethane	0.293	0.333	-13.7	103	0.00
58	T,C	ethylbenzene	1.544	1.748	-13.2	108	0.00
59	T	m,p-xylene	0.592	0.675	-14.0	110	0.00
60	T	butyl acrylate	0.657	0.756	-15.1	101	0.00
61	T	o-xylene	0.573	0.648	-13.1	107	0.00
62	T	styrene	0.965	1.122	-16.3	107	0.00
63	T	isopropylbenzene	1.443	1.677	-16.2	110	0.00
64	T	bromobenzene	0.355	0.409	-15.2	106	0.00
65	T,P	bromoform	0.181	0.207	-14.4	102	0.00
66	S	4-bromofluorobenzene	0.482	0.494	-2.5	97	0.00
67	T	1,2,3-trichloropropane	0.090	0.105	-16.7	104	0.00
68		trans-1,4-dichloro-2-butene	0.064	0.073	-14.1	100	0.00
69	T	n-propylbenzene	1.737	2.013	-15.9	111	0.00
70	T	2-chlorotoluene	1.014	1.149	-13.3	108	0.00
71	T	4-chlorotoluene	1.171	1.356	-15.8	109	0.00
72	T	1,3,5-trimethylbenzene	1.190	1.374	-15.5	110	0.00
73	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
74	T,P	1,1,2,2-tetrachloroethane	0.663	0.768	-15.8	103	0.00
75	T	tert-butylbenzene	2.055	2.387	-16.2	109	0.00
76	T	sec-butylbenzene	3.063	3.633	-18.6	111	0.00
77	T	1,2,4-trimethylbenzene	2.497	2.821	-13.0	111	0.00
78	T	1,3-dichlorobenzene	1.334	1.570	-17.7	110	0.00
79	T	p-isopropyltoluene	2.581	3.065	-18.8	112	0.00
80	T	dicyclopentadiene	3.385	3.769	-11.3	109	0.00
81	T	1,4-dichlorobenzene	1.357	1.606	-18.3	111	0.00
82	T	1,2-dichlorobenzene	1.234	1.462	-18.5	109	0.00
83	T	n-butylbenzene	2.324	2.760	-18.8	114	0.00
84	T	1,2-dibromo-3-chloropropane	0.102	0.115	-12.7	98	0.00
85	T	1,2,4-trichlorobenzene	0.863	1.023	-18.5	115	0.00
86	T	hexachlorobutadiene	0.515	0.609	-18.3	115	0.00
87	T	naphthalene	1.852	2.088	-12.7	107	0.00
88	T	1,2,3-trichlorobenzene	0.766	0.890	-16.2	112	0.00
89	T	2-Methylnaphthalene	0.933	0.948	-1.6	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\B122314\B122303.D Vial: 1
Acq On : 23 Dec 2014 10:22 am Operator: jln
Sample : S021758-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 26 07:51:12 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	fluorobenzene	50.000	50.000	0.0	95	0.00
2	T	dichlorodifluoromethane	50.000	46.039	7.9	92	0.00
3	T,P	chloromethane	50.000	52.850	-5.7	106	0.00
4	T	1,3-butadiene	50.000	54.492	-9.0	107	0.00
5	T,C	vinyl chloride	50.000	55.276	-10.6	109	0.00
6	T	bromomethane	50.000	83.282	-66.6#	150	0.02
7	T	chloroethane	50.000	56.712	-13.4	109	0.04
8	T	trichlorofluoromethane	50.000	57.937	-15.9	114	0.02
9	T	acrolein	500.000	1015.147	-103.0#	184	0.00
10	T	1,1,2-trichloro-1,2,2-trifl	50.000	96.404	-92.8#	190	0.01
11	T,C	1,1-dichloroethene	50.000	54.952	-9.9	104	0.01
12	T	acetone	50.000	53.342	-6.7	101	0.00
13	T	iodomethane	50.000	61.474	-22.9#	129	0.01
14	T	carbon disulfide	50.000	52.351	-4.7	103	0.01
15	T	methylene chloride	50.000	59.532	-19.1	109	0.01
16	T	acrylonitrile	500.000	631.853	-26.4#	116	0.00
17	T	trans-1,2-dichloroethene	50.000	55.140	-10.3	105	0.00
18	T	methyl-t-butyl ether	50.000	55.930	-11.9	102	0.00
19	T	acetonitrile	500.000	540.613	-8.1	101	0.00
20	T	hexane	50.000	63.510	-27.0#	115	0.00
21	T,P	1,1-dichloroethane	50.000	55.145	-10.3	104	0.00
22	T	vinyl acetate	50.000	55.283	-10.6	100	0.00
23	T	cis-1,2-dichloroethene	50.000	56.353	-12.7	105	0.00
24	T	2,2-dichloropropane	50.000	56.592	-13.2	109	0.00
25	T	2-butanone	50.000	53.654	-7.3	103	0.00
26	T	methyl acrylate	50.000	56.940	-13.9	101	0.00
27	T	bromochloromethane	50.000	56.778	-13.6	105	0.00
28	T,C	chloroform	50.000	55.326	-10.7	104	0.00
29	S	dibromofluoromethane	50.000	52.029	-4.1	99	0.00
30	T	1,1,1-trichloroethane	50.000	55.852	-11.7	106	0.00
31	T	cyclohexane	50.000	57.891	-15.8	110	0.00
32	T	carbon tetrachloride	50.000	55.633	-11.3	104	0.00
33	S	1,2-dichloroethane-d4	50.000	51.856	-3.7	99	0.00
34	T	benzene	50.000	55.453	-10.9	105	0.00
35	T	1,1-dichloropropene	50.000	56.780	-13.6	108	0.00
36	T	1,2-dichloroethane	50.000	55.615	-11.2	103	0.00
37	T	trichloroethene	50.000	56.746	-13.5	107	0.00
38	T	ethyl acrylate	50.000	55.516	-11.0	99	0.00
39	T,C	1,2-dichloropropane	50.000	56.572	-13.1	105	0.00
40	T	methyl methacrylate	50.000	54.308	-8.6	98	0.00
41	T	dibromomethane	50.000	56.535	-13.1	101	0.00
42	T	bromodichloromethane	50.000	56.103	-12.2	103	0.00
43	T	2-chloroethyl vinyl ether	50.000	56.866	-13.7	101	0.00
44	I	chlorobenzene-d5	50.000	50.000	0.0	95	0.00
45	T	cis-1,3-dichloropropene	50.000	57.276	-14.6	104	0.00
46	T	4-methyl-2-pentanone	50.000	56.281	-12.6	98	0.00
47	S	toluene-d8	50.000	52.506	-5.0	99	0.00
48	T,C	toluene	50.000	54.942	-9.9	107	0.00
49	T	1,1,2-trichloroethane	50.000	56.346	-12.7	103	0.00
50	T	1,3-dichloropropane	50.000	57.080	-14.2	104	0.00

Data File : C:\msdchem\1\DATA\B122314\B122303.D Vial: 1
Acq On : 23 Dec 2014 10:22 am Operator: jln
Sample : S021758-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 26 07:51:12 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T	tetrachloroethene	50.000	59.210	-18.4	114	0.00
52	T	trans-1,3-dichloropropene	50.000	56.190	-12.4	102	0.00
53	T	2-hexanone	50.000	55.243	-10.5	98	0.00
54	T	dibromochloromethane	50.000	56.669	-13.3	101	0.00
55	T	1,2-dibromoethane	50.000	57.191	-14.4	104	0.00
56	T,P	chlorobenzene	50.000	56.777	-13.6	107	0.00
57	T	1,1,1,2-tetrachloroethane	50.000	56.728	-13.5	103	0.00
58	T,C	ethylbenzene	50.000	56.608	-13.2	108	0.00
59	T	m,p-xylene	100.000	113.918	-13.9	110	0.00
60	T	butyl acrylate	50.000	57.565	-15.1	101	0.00
61	T	o-xylene	50.000	56.536	-13.1	107	0.00
62	T	styrene	50.000	58.098	-16.2	107	0.00
63	T	isopropylbenzene	50.000	58.084	-16.2	110	0.00
64	T	bromobenzene	50.000	57.552	-15.1	106	0.00
65	T,P	bromoform	50.000	57.236	-14.5	102	0.00
66	S	4-bromofluorobenzene	50.000	51.268	-2.5	97	0.00
67	T	1,2,3-trichloropropane	50.000	58.267	-16.5	104	0.00
68		trans-1,4-dichloro-2-butene	50.000	56.987	-14.0	100	0.00
69	T	n-propylbenzene	50.000	57.938	-15.9	111	0.00
70	T	2-chlorotoluene	50.000	56.636	-13.3	108	0.00
71	T	4-chlorotoluene	50.000	57.894	-15.8	109	0.00
72	T	1,3,5-trimethylbenzene	50.000	57.716	-15.4	110	0.00
73	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
74	T,P	1,1,2,2-tetrachloroethane	50.000	57.940	-15.9	103	0.00
75	T	tert-butylbenzene	50.000	58.070	-16.1	109	0.00
76	T	sec-butylbenzene	50.000	59.315	-18.6	111	0.00
77	T	1,2,4-trimethylbenzene	50.000	56.481	-13.0	111	0.00
78	T	1,3-dichlorobenzene	50.000	58.855	-17.7	110	0.00
79	T	p-isopropyltoluene	50.000	59.372	-18.7	112	0.00
80	T	dicyclopentadiene	50.000	55.679	-11.4	109	0.00
81	T	1,4-dichlorobenzene	50.000	59.191	-18.4	111	0.00
82	T	1,2-dichlorobenzene	50.000	59.227	-18.5	109	0.00
83	T	n-butylbenzene	50.000	59.377	-18.8	114	0.00
84	T	1,2-dibromo-3-chloropropane	50.000	56.344	-12.7	98	0.00
85	T	1,2,4-trichlorobenzene	50.000	59.265	-18.5	115	0.00
86	T	hexachlorobutadiene	50.000	59.156	-18.3	115	0.00
87	T	naphthalene	50.000	56.363	-12.7	107	0.00
88	T	1,2,3-trichlorobenzene	50.000	58.142	-16.3	112	0.00
89	T	2-Methylnaphthalene	50.000	54.869	-9.7	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\B122914\B122902.D Vial: 1
Acq On : 29 Dec 2014 9:25 am Operator: jln
Sample : S021800-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:46:41 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	103	0.00
2	T	dichlorodifluoromethane	0.216	0.158	26.9#	77	0.03
3	T,P	chloromethane	0.295	0.262	11.2	91	0.00
4	T,C	vinyl chloride	0.294	0.262	10.9	90	0.00
5	T	1,3-butadiene	0.252	0.224	11.1	93	0.00
6	T	bromomethane	0.029	0.022	24.1#	109	0.00
7	T	chloroethane	0.185	0.049	73.5#	28#	-0.02
8	T	trichlorofluoromethane	0.339	0.291	14.2	87	-0.04
9	T	acrolein	0.030	0.049	-63.3#	163	0.00
10		1,1,2-Trichloro-1,2,2-Trifl	0.150	0.193	-28.7#	132	-0.02
11	T,C	1,1-dichloroethene	0.184	0.157	14.7	89	-0.01
12		iodomethane	0.091	0.089	2.2	114	-0.02
13	T	acetone	0.051	0.026	49.0#	86	0.00
14	T	carbon disulfide	0.657	0.548	16.6	89	-0.01
15	T	methylene chloride	0.268	0.213	20.5#	91	-0.01
16	T	acrylonitrile	0.129	0.127	1.6	104	0.00
17	T	trans-1,2-dichloroethene	0.219	0.197	10.0	95	0.00
18	T	methyl-t-butyl ether	0.756	0.686	9.3	92	0.00
19	T	acetonitrile	0.052	0.048	7.7	107	0.00
20	T	hexane	0.384	0.346	9.9	106	0.00
21	T,P	1,1-dichloroethane	0.460	0.418	9.1	93	0.00
22	T	vinyl acetate	0.829	0.690	16.8	89	0.00
23	T	cis-1,2-dichloroethene	0.280	0.238	15.0	96	0.00
24	T	2,2-dichloropropane	0.377	0.338	10.3	97	0.00
25	T	2-butanone	0.036	0.032	11.1	101	0.00
26	T	methyl acrylate	0.300	0.286	4.7	100	0.00
27		bromochloromethane	0.117	0.110	6.0	97	0.00
28	T,C	chloroform	0.395	0.368	6.8	97	0.00
29	S	dibromofluoromethane	0.221	0.233	-5.4	109	0.00
30	T	1,1,1-trichloroethane	0.332	0.311	6.3	94	0.00
31	T	cyclohexane	0.418	0.413	1.2	101	0.00
32	T	carbon tetrachloride	0.278	0.256	7.9	95	0.00
33	S	1,2-dichloroethane-d4	0.282	0.292	-3.5	108	0.00
34	T	benzene	0.984	0.932	5.3	96	0.00
35	T	1,1-dichloropropene	0.313	0.299	4.5	97	0.00
36	T	1,2-dichloroethane	0.313	0.295	5.8	94	0.00
37	T	trichloroethene	0.232	0.217	6.5	98	0.00
38	T	ethyl acrylate	0.416	0.378	9.1	93	0.00
39	T,C	1,2-dichloropropane	0.268	0.257	4.1	99	0.00
40	T	methyl methacrylate	0.200	0.183	8.5	91	0.00
41	T	dibromomethane	0.149	0.134	10.1	95	0.00
42	T	bromodichloromethane	0.323	0.291	9.9	92	0.00
43	T	2-chloroethyl vinyl ether	0.201	0.186	7.5	93	0.00
44	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00
45	T	cis-1,3-dichloropropene	0.586	0.576	1.7	96	0.00
46	T	4-methyl-2-pentanone	0.427	0.392	8.2	90	0.00
47	S	toluene-d8	1.345	1.453	-8.0	108	0.00
48	T,C	toluene	0.845	0.842	0.4	98	0.00
49	T	1,1,2-trichloroethane	0.277	0.258	6.9	95	0.00
50	T	1,3-dichloropropane	0.555	0.549	1.1	97	0.00

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\B122914\B122902.D Vial: 1
Acq On : 29 Dec 2014 9:25 am Operator: jln
Sample : S021800-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:46:41 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	tetrachloroethene	0.264	0.269	-1.9	101	0.00
52	T	trans-1,3-dichloropropene	0.548	0.522	4.7	94	0.00
53	T	2-hexanone	0.290	0.265	8.6	91	0.00
54	T	dibromochloromethane	0.328	0.307	6.4	93	0.00
55	T	1,2-dibromoethane	0.310	0.297	4.2	95	0.00
56	T,P	chlorobenzene	0.879	0.878	0.1	98	0.00
57	T	1,1,1,2-tetrachloroethane	0.316	0.305	3.5	96	0.00
58	T,C	ethylbenzene	1.581	1.550	2.0	99	0.00
59	T	m,p-xylene	0.591	0.591	0.0	99	0.00
60	T	butyl acrylate	0.785	0.733	6.6	91	0.00
61	T	o-xylene	0.583	0.578	0.9	98	0.00
62	T	styrene	1.017	0.993	2.4	97	0.00
63	T	isopropylbenzene	1.430	1.448	-1.3	101	0.00
64	T	bromobenzene	0.372	0.371	0.3	98	0.00
65	T,P	bromoform	0.235	0.218	7.2	91	0.00
66	S	4-bromofluorobenzene	0.495	0.509	-2.8	105	0.00
67	T	1,2,3-trichloropropane	0.349	0.355	-1.7	95	0.00
68		trans-1,4-dichloro-2-butene	0.146	0.133	8.9	94	0.00
69	T	n-propylbenzene	1.691	1.687	0.2	99	0.00
70	T	2-chlorotoluene	1.002	1.003	-0.1	100	0.00
71	T	4-chlorotoluene	1.173	1.155	1.5	99	0.00
72	T	1,3,5-trimethylbenzene	1.170	1.183	-1.1	101	0.00
73	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
74	T,P	1,1,2,2-tetrachloroethane	0.778	0.726	6.7	94	0.00
75	T	tert-butylbenzene	1.836	1.872	-2.0	106	0.00
76	T	sec-butylbenzene	2.638	2.726	-3.3	107	0.00
77	T	1,2,4-trimethylbenzene	2.232	2.197	1.6	102	0.00
78	T	1,3-dichlorobenzene	1.242	1.239	0.2	102	0.00
79	T	p-isopropyltoluene	2.260	2.323	-2.8	107	0.00
80	T	dicyclopentadiene	2.978	2.930	1.6	104	0.00
81	T	1,4-dichlorobenzene	1.269	1.255	1.1	101	0.00
82	T	1,2-dichlorobenzene	1.185	1.185	0.0	102	0.00
83	T	n-butylbenzene	1.933	1.982	-2.5	108	0.00
84	T	1,2-dibromo-3-chloropropane	0.122	0.110	9.8	88	0.00
85	T	1,2,4-trichlorobenzene	0.649	0.677	-4.3	108	0.00
86	T	hexachlorobutadiene	0.326	0.357	-9.5	120	0.00
87	T	naphthalene	1.548	1.512	2.3	97	0.00
88	T	1,2,3-trichlorobenzene	0.495	0.521	-5.3	106	0.00
89	T	2-methylnaphthalene	0.342	0.512	-49.7#	145	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\B122914\B122902.D Vial: 1
Acq On : 29 Dec 2014 9:25 am Operator: jln
Sample : S021800-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:46:41 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	fluorobenzene	50.000	50.000	0.0	103	0.00
2	T	dichlorodifluoromethane	50.000	36.444	27.1#	77	0.03
3	T,P	chloromethane	50.000	44.528	10.9	91	0.00
4	T,C	vinyl chloride	50.000	44.623	10.8	90	0.00
5	T	1,3-butadiene	50.000	44.416	11.2	93	0.00
6	T	bromomethane	50.000	40.463	19.1	109	0.00
7	T	chloroethane	50.000	13.139	73.7#	28	-0.02
8	T	trichlorofluoromethane	50.000	42.873	14.3	87	-0.04
9	T	acrolein	500.000	809.630	-61.9#	163	0.00
10		1,1,2-Trichloro-1,2,2-Trifl	50.000	64.642	-29.3#	132	-0.02
11	T,C	1,1-dichloroethene	50.000	42.668	14.7	89	-0.01
12		iodomethane	50.000	37.882	24.2#	114	-0.02
13	T	acetone	50.000	43.216	13.6	86	0.00
14	T	carbon disulfide	50.000	41.677	16.6	89	-0.01
15	T	methylene chloride	50.000	42.907	14.2	91	-0.01
16	T	acrylonitrile	500.000	491.813	1.6	104	0.00
17	T	trans-1,2-dichloroethene	50.000	44.924	10.2	95	0.00
18	T	methyl-t-butyl ether	50.000	45.327	9.3	92	0.00
19	T	acetonitrile	500.000	457.272	8.5	107	0.00
20	T	hexane	50.000	45.114	9.8	106	0.00
21	T,P	1,1-dichloroethane	50.000	45.519	9.0	93	0.00
22	T	vinyl acetate	50.000	41.649	16.7	89	0.00
23	T	cis-1,2-dichloroethene	50.000	45.570	8.9	96	0.00
24	T	2,2-dichloropropane	50.000	44.807	10.4	97	0.00
25	T	2-butanone	50.000	44.605	10.8	101	0.00
26	T	methyl acrylate	50.000	47.647	4.7	100	0.00
27		bromochloromethane	50.000	47.272	5.5	97	0.00
28	T,C	chloroform	50.000	46.537	6.9	97	0.00
29	S	dibromofluoromethane	50.000	52.612	-5.2	109	0.00
30	T	1,1,1-trichloroethane	50.000	46.832	6.3	94	0.00
31	T	cyclohexane	50.000	49.406	1.2	101	0.00
32	T	carbon tetrachloride	50.000	45.953	8.1	95	0.00
33	S	1,2-dichloroethane-d4	50.000	51.760	-3.5	108	0.00
34	T	benzene	50.000	47.347	5.3	96	0.00
35	T	1,1-dichloropropene	50.000	47.675	4.7	97	0.00
36	T	1,2-dichloroethane	50.000	47.270	5.5	94	0.00
37	T	trichloroethene	50.000	46.765	6.5	98	0.00
38	T	ethyl acrylate	50.000	45.467	9.1	93	0.00
39	T,C	1,2-dichloropropane	50.000	48.034	3.9	99	0.00
40	T	methyl methacrylate	50.000	45.859	8.3	91	0.00
41	T	dibromomethane	50.000	45.006	10.0	95	0.00
42	T	bromodichloromethane	50.000	45.137	9.7	92	0.00
43	T	2-chloroethyl vinyl ether	50.000	46.327	7.3	93	0.00
44	I	chlorobenzene-d5	50.000	50.000	0.0	101	0.00
45	T	cis-1,3-dichloropropene	50.000	49.081	1.8	96	0.00
46	T	4-methyl-2-pentanone	50.000	45.887	8.2	90	0.00
47	S	toluene-d8	50.000	54.029	-8.1	108	0.00
48	T,C	toluene	50.000	49.816	0.4	98	0.00
49	T	1,1,2-trichloroethane	50.000	46.604	6.8	95	0.00
50	T	1,3-dichloropropane	50.000	49.493	1.0	97	0.00

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\B122914\B122902.D Vial: 1
Acq On : 29 Dec 2014 9:25 am Operator: jln
Sample : S021800-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:46:41 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T	tetrachloroethene	50.000	51.013	-2.0	101	0.00
52	T	trans-1,3-dichloropropene	50.000	47.624	4.8	94	0.00
53	T	2-hexanone	50.000	45.593	8.8	91	0.00
54	T	dibromochloromethane	50.000	46.801	6.4	93	0.00
55	T	1,2-dibromoethane	50.000	47.957	4.1	95	0.00
56	T,P	chlorobenzene	50.000	49.931	0.1	98	0.00
57	T	1,1,1,2-tetrachloroethane	50.000	48.287	3.4	96	0.00
58	T,C	ethylbenzene	50.000	49.017	2.0	99	0.00
59	T	m,p-xylene	100.000	100.034	-0.0	99	0.00
60	T	butyl acrylate	50.000	46.720	6.6	91	0.00
61	T	o-xylene	50.000	49.570	0.9	98	0.00
62	T	styrene	50.000	48.833	2.3	97	0.00
63	T	isopropylbenzene	50.000	50.633	-1.3	101	0.00
64	T	bromobenzene	50.000	49.794	0.4	98	0.00
65	T,P	bromoform	50.000	46.336	7.3	91	0.00
66	S	4-bromofluorobenzene	50.000	51.395	-2.8	105	0.00
67	T	1,2,3-trichloropropane	50.000	50.930	-1.9	95	0.00
68		trans-1,4-dichloro-2-butene	50.000	45.580	8.8	94	0.00
69	T	n-propylbenzene	50.000	49.876	0.2	99	0.00
70	T	2-chlorotoluene	50.000	50.034	-0.1	100	0.00
71	T	4-chlorotoluene	50.000	49.201	1.6	99	0.00
72	T	1,3,5-trimethylbenzene	50.000	50.567	-1.1	101	0.00
73	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
74	T,P	1,1,2,2-tetrachloroethane	50.000	46.633	6.7	94	0.00
75	T	tert-butylbenzene	50.000	50.978	-2.0	106	0.00
76	T	sec-butylbenzene	50.000	51.658	-3.3	107	0.00
77	T	1,2,4-trimethylbenzene	50.000	49.210	1.6	102	0.00
78	T	1,3-dichlorobenzene	50.000	49.893	0.2	102	0.00
79	T	p-isopropyltoluene	50.000	51.404	-2.8	107	0.00
80	T	dicyclopentadiene	50.000	49.182	1.6	104	0.00
81	T	1,4-dichlorobenzene	50.000	49.445	1.1	101	0.00
82	T	1,2-dichlorobenzene	50.000	50.019	-0.0	102	0.00
83	T	n-butylbenzene	50.000	51.276	-2.6	108	0.00
84	T	1,2-dibromo-3-chloropropane	50.000	45.068	9.9	88	0.00
85	T	1,2,4-trichlorobenzene	50.000	52.173	-4.3	108	0.00
86	T	hexachlorobutadiene	50.000	54.812	-9.6	120	0.00
87	T	naphthalene	50.000	48.836	2.3	97	0.00
88	T	1,2,3-trichlorobenzene	50.000	52.593	-5.2	106	0.00
89	T	2-methylnaphthalene	50.000	74.968	-49.9#	145	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

VOA FORM VIII: INTERNAL STANDARD SUMMARY

INTERNAL STANDARD AREA AND RT SUMMARY
SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Sequence:	S021758	Instrument:	VOA-2
Matrix:	Solid	Calibration:	0000296

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S021758-CCV1)			Lab File ID: B122303.D			Analyzed: 12/23/14 10:22			
1,4-Dichlorobenzene-d4	199739	14.812				50 - 200		+/-0.50	
Chlorobenzene-d5	407683	10.956				50 - 200		+/-0.50	
Fluorobenzene	582266	6.511				50 - 200		+/-0.50	
Blank (B064000-BLK1)			Lab File ID: B122304.D			Analyzed: 12/23/14 11:00			
1,4-Dichlorobenzene-d4	188710	14.812	199739	14.812	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	388173	10.956	407683	10.956	95	50 - 200	0.0000	+/-0.50	
Fluorobenzene	558738	6.517	582266	6.511	96	50 - 200	0.0060	+/-0.50	
LCS (B064000-BS1)			Lab File ID: B122305.D			Analyzed: 12/23/14 11:29			
1,4-Dichlorobenzene-d4	206981	14.812	199739	14.812	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	427496	10.957	407683	10.956	105	50 - 200	0.0010	+/-0.50	
Fluorobenzene	608891	6.511	582266	6.511	105	50 - 200	0.0000	+/-0.50	
OL 517 (14L0854-01)			Lab File ID: B122306.D			Analyzed: 12/23/14 12:12			
1,4-Dichlorobenzene-d4	174318	14.811	199739	14.812	87	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	391728	10.955	407683	10.956	96	50 - 200	-0.0010	+/-0.50	
Fluorobenzene	579650	6.516	582266	6.511	100	50 - 200	0.0050	+/-0.50	
OL 518 (14L0854-02)			Lab File ID: B122307.D			Analyzed: 12/23/14 12:41			
1,4-Dichlorobenzene-d4	190837	14.812	199739	14.812	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	412680	10.957	407683	10.956	101	50 - 200	0.0010	+/-0.50	
Fluorobenzene	600479	6.511	582266	6.511	103	50 - 200	0.0000	+/-0.50	
Matrix Spike (B064000-MS1)			Lab File ID: B122308.D			Analyzed: 12/23/14 13:10			
1,4-Dichlorobenzene-d4	198832	14.813	199739	14.812	100	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	416070	10.957	407683	10.956	102	50 - 200	0.0010	+/-0.50	
Fluorobenzene	600484	6.511	582266	6.511	103	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B064000-MSD1)			Lab File ID: B122309.D			Analyzed: 12/23/14 13:39			
1,4-Dichlorobenzene-d4	192783	14.808	199739	14.812	97	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	416542	10.959	407683	10.956	102	50 - 200	0.0030	+/-0.50	
Fluorobenzene	590786	6.513	582266	6.511	101	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland	SDG:	14L0854
Client:	IDEM - Indianapolis, IN	Project:	LQ - LQ
Sequence:	S021800	Instrument:	VOA-2
Matrix:	Solid	Calibration:	0000296

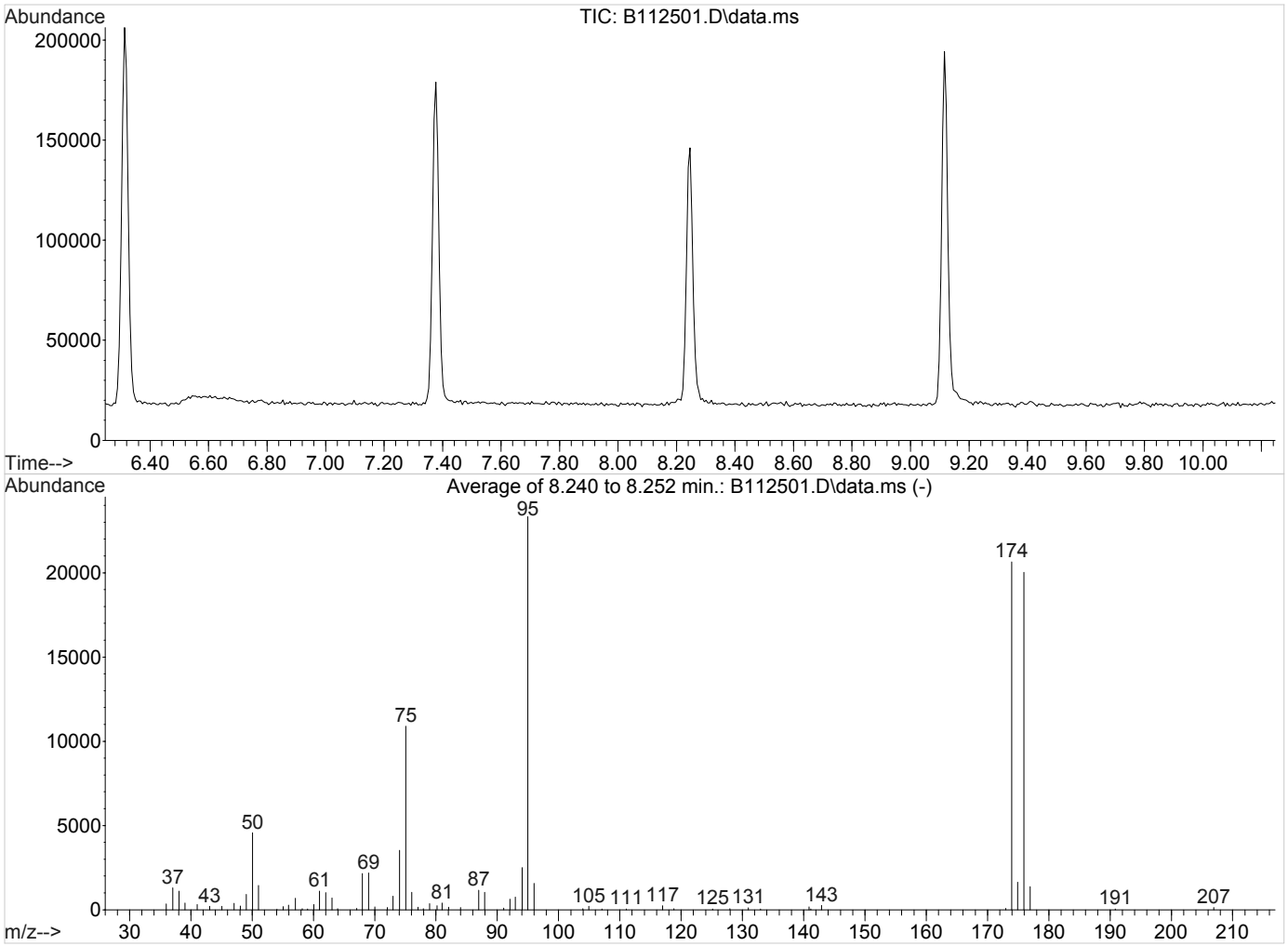
Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S021800-CCV1)			Lab File ID: B122902.D			Analyzed: 12/29/14 09:25			
1,4-Dichlorobenzene-d4	218500	14.809				50 - 200		+/-0.50	
Chlorobenzene-d5	402698	10.953				50 - 200		+/-0.50	
Fluorobenzene	578830	6.508				50 - 200		+/-0.50	
Blank (B064092-BLK1)			Lab File ID: B122903.D			Analyzed: 12/29/14 10:09			
1,4-Dichlorobenzene-d4	184614	14.808	218500	14.809	84	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	369612	10.958	402698	10.953	92	50 - 200	0.0050	+/-0.50	
Fluorobenzene	513014	6.507	578830	6.508	89	50 - 200	-0.0010	+/-0.50	
LCS (B064092-BS1)			Lab File ID: B122904.D			Analyzed: 12/29/14 10:39			
1,4-Dichlorobenzene-d4	197771	14.812	218500	14.809	91	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	381363	10.957	402698	10.953	95	50 - 200	0.0040	+/-0.50	
Fluorobenzene	545513	6.511	578830	6.508	94	50 - 200	0.0030	+/-0.50	
Matrix Spike (B064092-MS1)			Lab File ID: B122908.D			Analyzed: 12/29/14 13:57			
1,4-Dichlorobenzene-d4	199773	14.812	218500	14.809	91	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	379969	10.956	402698	10.953	94	50 - 200	0.0030	+/-0.50	
Fluorobenzene	524847	6.511	578830	6.508	91	50 - 200	0.0030	+/-0.50	
Matrix Spike Dup (B064092-MSD1)			Lab File ID: B122909.D			Analyzed: 12/29/14 14:26			
1,4-Dichlorobenzene-d4	197770	14.808	218500	14.809	91	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	387063	10.952	402698	10.953	96	50 - 200	-0.0010	+/-0.50	
Fluorobenzene	546203	6.513	578830	6.508	94	50 - 200	0.0050	+/-0.50	

VOA TUNING RAW DATA

Data File: C:\msdchem\1\DATA\B112514\B112501.D
Acq On : 25 Nov 2014 9:29 am
Sample : SEQ-TUN1 Inst : VOA2
Operator : jln
Misc : 8260
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\MEOH112514.m
Title : Voa2 MEOH ICAL 11/25/14
Last Update : Wed Sep 17 13:40:42 2014



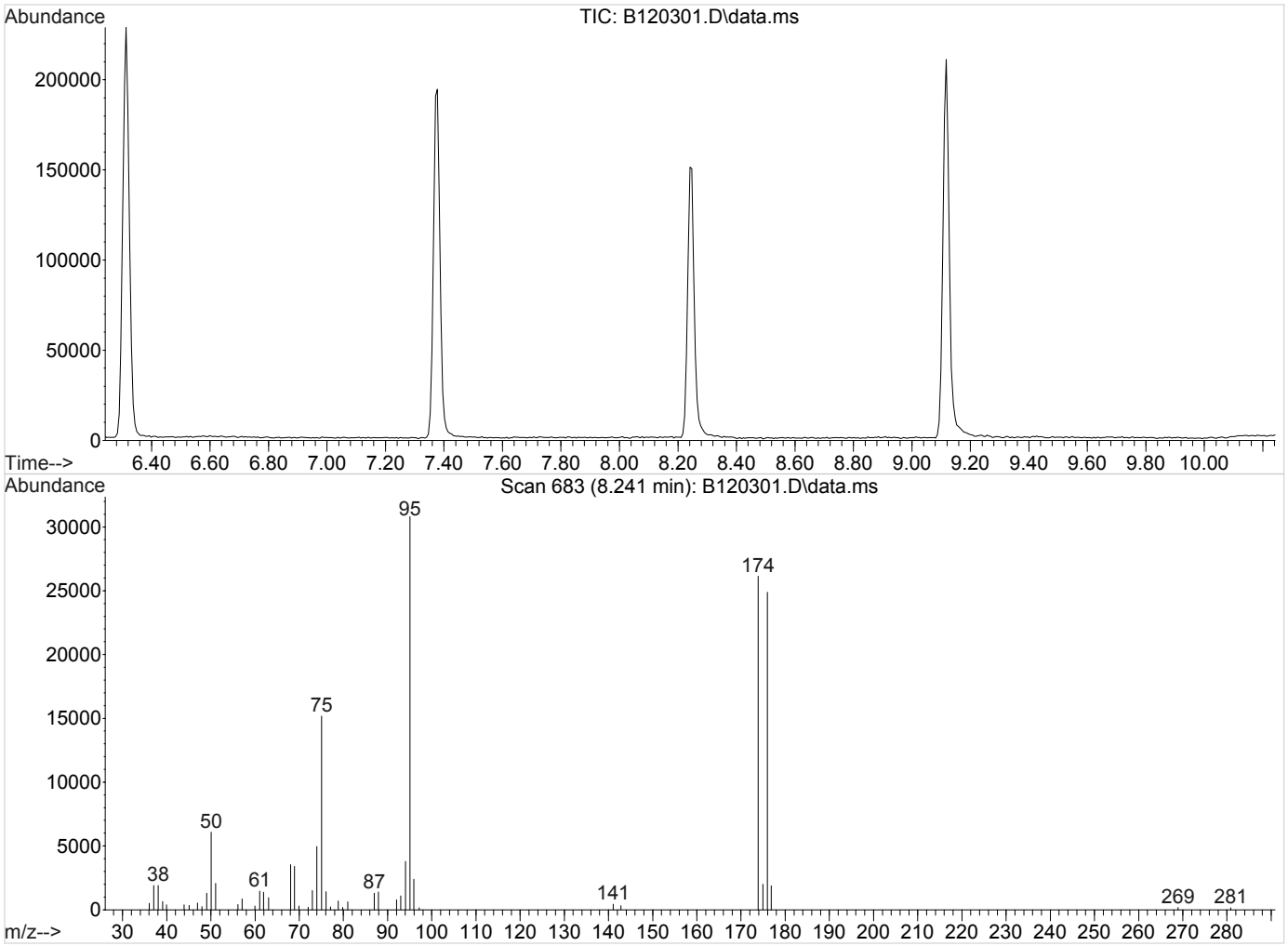
AutoFind: Scans 683, 684, 685; Background Corrected with Scan 675

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	4566	PASS
75	95	30	60	46.7	10897	PASS
95	95	100	100	100.0	23341	PASS
96	95	5	9	6.7	1563	PASS
173	174	0.00	2	0.4	87	PASS
174	95	50	250	88.5	20656	PASS
175	174	5	9	7.9	1638	PASS
176	174	95	101	96.9	20021	PASS
177	176	5	9	6.9	1376	PASS

Data File: C:\msdchem\1\DATA\B120314\B120301.D
Acq On : 3 Dec 2014 9:36 am
Sample : SEQ-TUN1 Inst : VOA2
Operator : jln
Misc : 8260
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\SOIL120314.M
Title : VOA2 Soil ICAL 12/3/14
Last Update : Wed Dec 03 14:10:34 2014



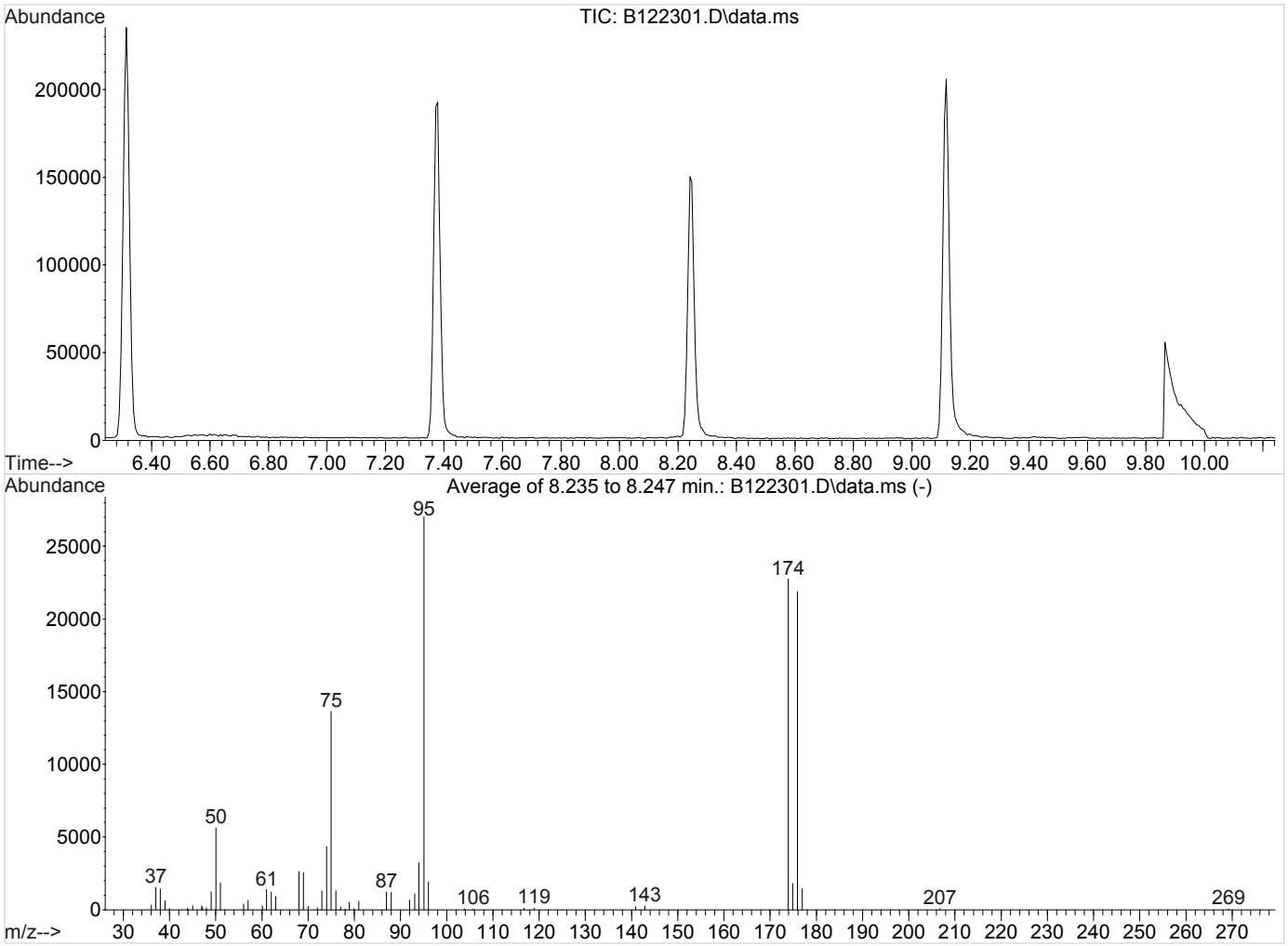
Spectrum Information: Scan 683

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	6072	PASS
75	95	30	60	49.2	15169	PASS
95	95	100	100	100.0	30816	PASS
96	95	5	9	7.8	2392	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.8	26144	PASS
175	174	5	9	7.6	1996	PASS
176	174	95	101	95.2	24888	PASS
177	176	5	9	7.6	1888	PASS

Data File: C:\msdchem\1\DATA\B122314\B122301.D
Acq On : 23 Dec 2014 9:07 am
Sample : S021758-TUN1 Inst : VOA2
Operator : jln
Misc : 8260
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\SOIL120314.M
Title : VOA2 Soil ICAL 12/3/14
Last Update : Fri Dec 05 09:22:22 2014



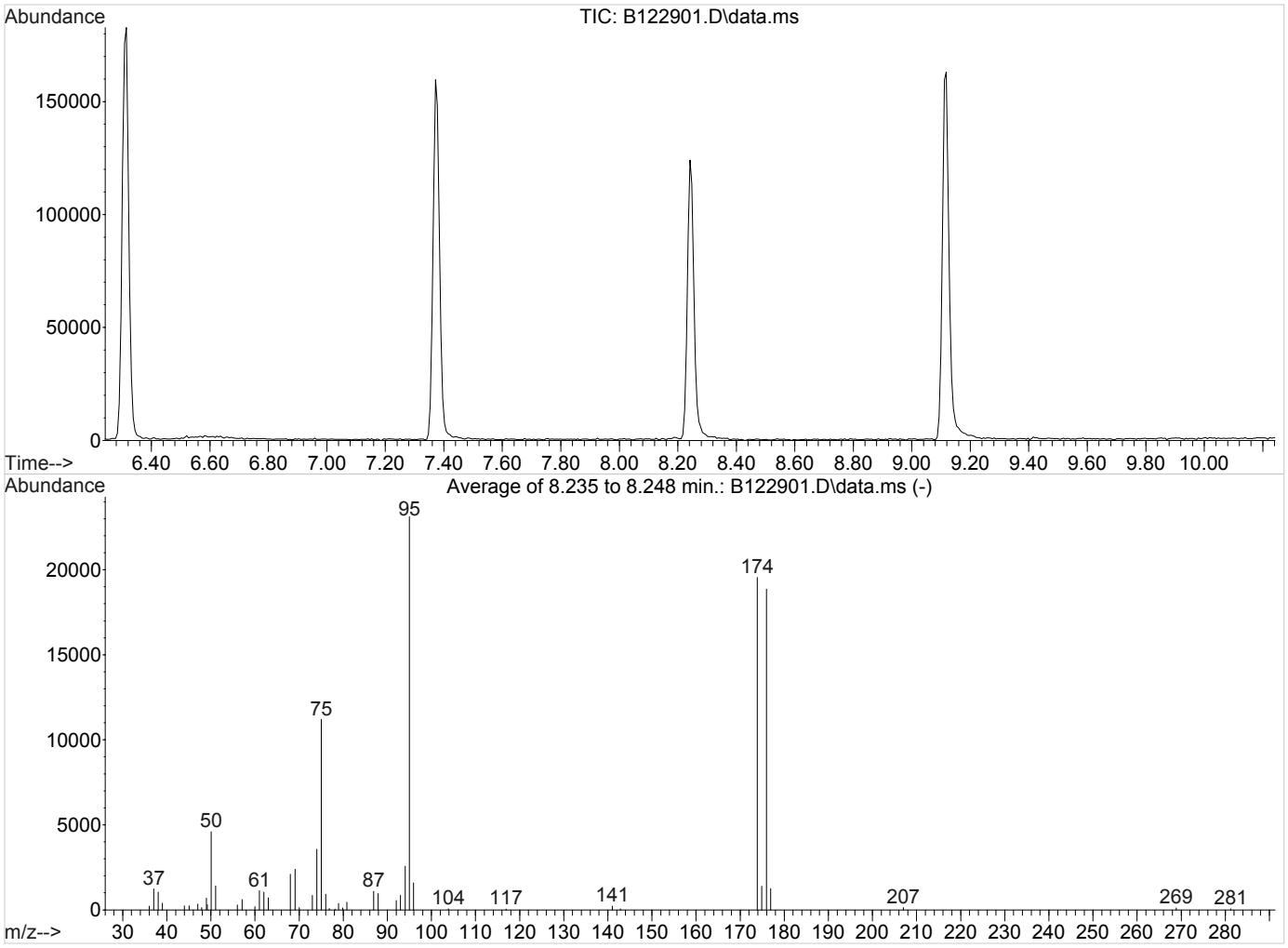
AutoFind: Scans 682, 683, 684; Background Corrected with Scan 674

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	5632	PASS
75	95	30	60	50.5	13649	PASS
95	95	100	100	100.0	27045	PASS
96	95	5	9	7.1	1921	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.2	22765	PASS
175	174	5	9	7.9	1803	PASS
176	174	95	101	96.1	21867	PASS
177	176	5	9	6.6	1447	PASS

Data File: C:\msdchem\1\DATA\B122914\B122901.D
Acq On : 29 Dec 2014 8:54 am
Sample : S021800-TUN1 Inst : VOA2
Operator : jln
Misc : 8260
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\MEOH112514.m
Title : Voa2 MEOH ICAL 11/25/14
Last Update : Mon Dec 01 16:43:56 2014



AutoFind: Scans 682, 683, 684; Background Corrected with Scan 676

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	4598	PASS
75	95	30	60	48.4	11203	PASS
95	95	100	100	100.0	23128	PASS
96	95	5	9	6.9	1593	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	84.6	19555	PASS
175	174	5	9	7.2	1399	PASS
176	174	95	101	96.5	18867	PASS
177	176	5	9	6.6	1254	PASS

VOA STANDARD RAW DATA

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112502.D Vial: 2
Acq On : 25 Nov 2014 11:32 am Operator: jln
Sample : SEQ-CAL1 Inst : VOA2
Misc : 8260 meoh 2ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:57:26 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.512	96	544116	50.00	ug/L		0.00
44) chlorobenzene-d5	10.957	117	413856	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.813	152	251648	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.697	113	121036	47.11	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.22%				
33) 1,2-dichloroethane-d4	6.153	65	155301	46.11	ug/L		0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 92.22%				
47) toluene-d8	8.683	98	538935	49.19	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.38%				
66) 4-bromofluorobenzene	12.958	95	214339	56.47	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 112.94%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.562	85	4192	1.26	ug/L		94
3) chloromethane	1.720	50	6118	1.58	ug/L		99
4) vinyl chloride	1.829	62	5218	1.49	ug/L		87
5) 1,3-butadiene	1.853	39	4152	2.11	ug/L		87
6) bromomethane	2.133	94	684m3	6.88	ug/L		
7) chloroethane	2.218	64	2382	0.98	ug/L	#	59
8) trichlorofluoromethane	2.449	101	6394	1.42	ug/L		100
9) acrolein	3.027	56	6932	15.21	ug/L		88
10) 1,1,2-Trichloro-1,2,2-...	3.009	101	2870	1.30	ug/L		96
11) 1,1-dichloroethene	3.045	96	3809	1.64	ug/L	#	85
12) iodomethane	3.240	142	1082	6.38	ug/L	#	49
13) acetone	3.204	58	3054	8.09	ug/L	#	83
14) carbon disulfide	3.270	76	14663	2.01	ug/L		95
15) methylene chloride	3.641	84	8151	2.79	ug/L		97
16) acrylonitrile	4.006	53	24726	20.76	ug/L		97
17) trans-1,2-dichloroethene	3.885	96	4659	1.85	ug/L		98
18) methyl-t-butyl ether	3.872	73	14913	1.77	ug/L		95
19) acetonitrile	3.581	41	13919	32.64	ug/L	#	89
20) hexane	4.091	57	9605	1.81	ug/L	#	96
21) 1,1-dichloroethane	4.420	63	9185	1.84	ug/L		95
22) vinyl acetate	4.462	43	20980m3	3.05	ug/L		
23) cis-1,2-dichloroethene	5.107	96	8942	3.06	ug/L		90
24) 2,2-dichloropropane	5.064	77	8186	1.87	ug/L	#	88
25) 2-butanone	5.162	72	992	2.76	ug/L	#	58
26) methyl acrylate	5.241	55	7735	2.55	ug/L		99
27) bromochloromethane	5.411	128	2342	1.63	ug/L	#	89
28) chloroform	5.496	83	8667	1.81	ug/L		87
30) 1,1,1-trichloroethane	5.660	97	6114	1.46	ug/L		92
31) cyclohexane	5.630	56	8257	1.93	ug/L	#	85
32) carbon tetrachloride	5.806	117	5734	1.59	ug/L		95
34) benzene	6.123	78	19744	1.75	ug/L		95
35) 1,1-dichloropropene	5.861	75	6037	1.63	ug/L		92
36) 1,2-dichloroethane	6.256	62	5756	1.42	ug/L		93
37) trichloroethene	6.968	95	4596	1.74	ug/L		88
38) ethyl acrylate	7.175	55	9758	5.33	ug/L		92
39) 1,2-dichloropropane	7.351	63	5150	1.78	ug/L		88
40) methyl methacrylate	7.491	69	4552	5.00	ug/L		89
41) dibromomethane	7.515	93	3718	2.21	ug/L	#	74
42) bromodichloromethane	7.722	83	6368	1.73	ug/L		95

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112502.D Vial: 2
Acq On : 25 Nov 2014 11:32 am Operator: jln
Sample : SEQ-CAL1 Inst : VOA2
Misc : 8260 meoh 2ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:57:26 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

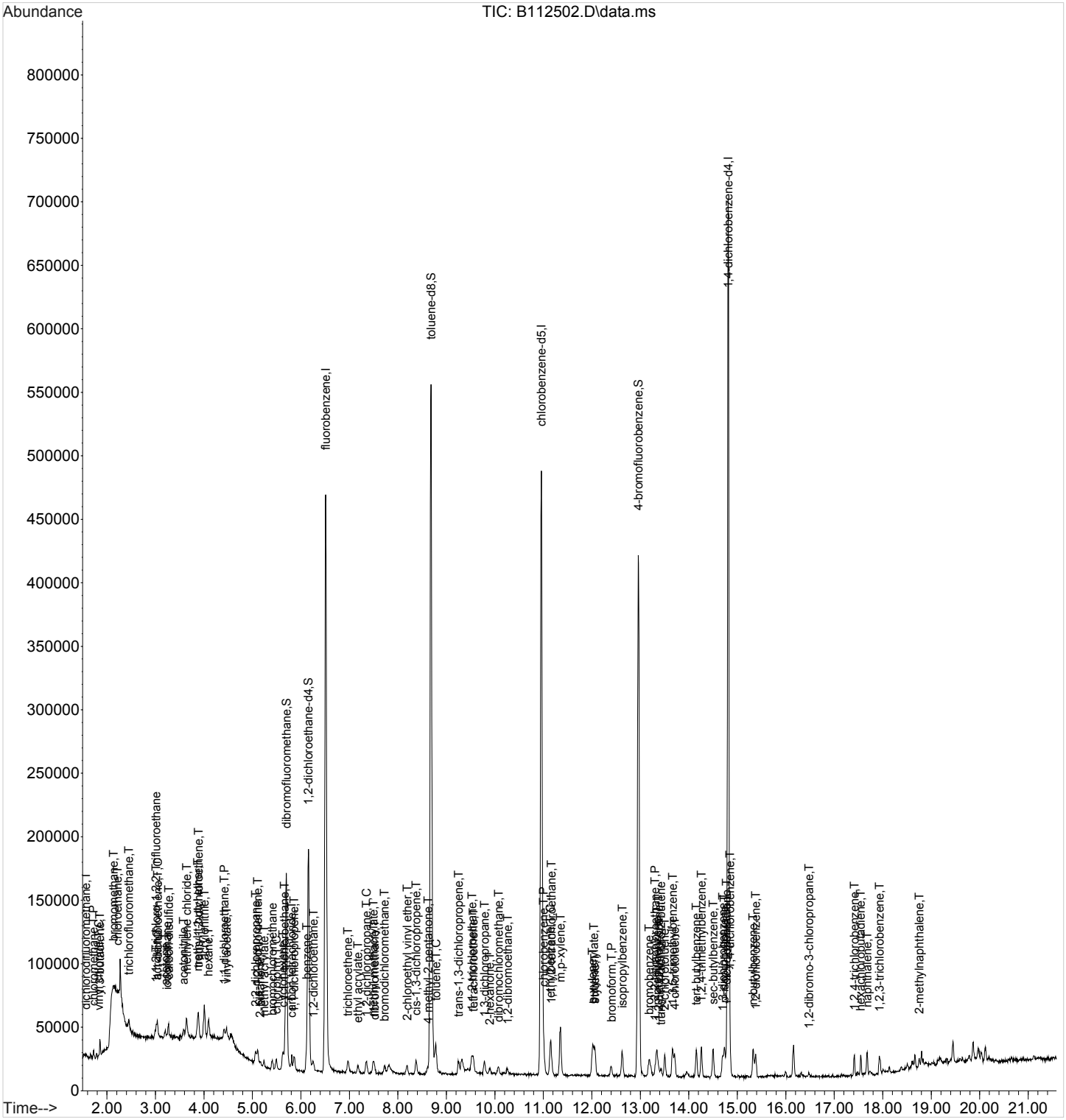
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.190	63	3822	4.86 ug/L	94
45) cis-1,3-dichloropropene	8.373	75	8194	1.71 ug/L	99
46) 4-methyl-2-pentanone	8.622	43	7253	2.11 ug/L #	93
48) toluene	8.786	92	11985	1.66 ug/L	91
49) 1,1,2-trichloroethane	9.528	83	4763	2.20 ug/L	95
50) 1,3-dichloropropane	9.790	76	7710	1.62 ug/L	96
51) tetrachloroethene	9.552	164	3625	1.45 ug/L	96
52) trans-1,3-dichloropropene	9.254	75	7790	1.75 ug/L #	93
53) 2-hexanone	9.893	43	4922	3.30 ug/L	95
54) dibromochloromethane	10.075	129	4612	1.60 ug/L	68
55) 1,2-dibromoethane	10.264	107	4552	1.67 ug/L #	79
56) chlorobenzene	11.006	112	12564	1.61 ug/L	95
57) 1,1,1,2-tetrachloroethane	11.164	131	4716	1.67 ug/L	95
58) ethylbenzene	11.146	91	25068	1.95 ug/L	93
59) m,p-xylene	11.353	106	16706	3.37 ug/L	98
60) butyl acrylate	12.040	55	11946	5.68 ug/L	99
61) o-xylene	12.009	106	8480	1.80 ug/L	98
62) styrene	12.064	104	14212	1.73 ug/L	91
63) isopropylbenzene	12.630	105	20693	1.78 ug/L	99
64) bromobenzene	13.183	156	4813	1.36 ug/L	87
65) bromoform	12.405	173	3297	3.12 ug/L	89
67) 1,2,3-trichloropropane	13.378	75	5286	1.70 ug/L	89
68) trans-1,4-dichloro-2-b...	13.426	53	2772	5.94 ug/L #	79
69) n-propylbenzene	13.341	91	25422	1.86 ug/L	95
70) 2-chlorotoluene	13.505	91	15193	1.84 ug/L	94
71) 4-chlorotoluene	13.706	91	18299	1.87 ug/L	97
72) 1,3,5-trimethylbenzene	13.670	105	17665	1.87 ug/L	99
74) 1,1,2,2-tetrachloroethane	13.305	83	6004	1.58 ug/L	83
75) tert-butylbenzene	14.156	119	14857	1.70 ug/L	98
76) sec-butylbenzene	14.503	105	21517	1.75 ug/L	99
77) 1,2,4-trimethylbenzene	14.259	105	17921	1.69 ug/L	99
78) 1,3-dichlorobenzene	14.697	146	9336	1.40 ug/L	94
79) p-isopropyltoluene	14.734	119	18151	1.70 ug/L	95
80) dicyclopentadiene	14.776	66	26534	2.10 ug/L	99
81) 1,4-dichlorobenzene	14.849	146	9387	1.34 ug/L	96
82) 1,2-dichlorobenzene	15.378	146	8595	1.33 ug/L	96
83) n-butylbenzene	15.324	91	17113	1.96 ug/L	96
84) 1,2-dibromo-3-chloropr...	16.479	75	946	1.52 ug/L	94
85) 1,2,4-trichlorobenzene	17.416	180	5773	1.63 ug/L	96
86) hexachlorobutadiene	17.543	225	3538	2.03 ug/L	87
87) naphthalene	17.677	128	12507	1.58 ug/L	100
88) 1,2,3-trichlorobenzene	17.933	180	4336	1.47 ug/L	88
89) 2-methylnaphthalene	18.754	142	3106m2	5.56 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112502.D Vial: 2
Acq On : 25 Nov 2014 11:32 am Operator: jln
Sample : SEQ-CAL1 Inst : VOA2
Misc : 8260 meoh 2ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:57:26 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112503.D Vial: 3
Acq On : 25 Nov 2014 12:02 pm Operator: jln
Sample : SEQ-CAL2 Inst : VOA2
Misc : 8260 meoh 5ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:58:09 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.510	96	514244	50.00	ug/L		0.00
44) chlorobenzene-d5	10.955	117	370266	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.811	152	191818	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.695	113	114965	47.34	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.68%				
33) 1,2-dichloroethane-d4	6.157	65	149814	47.06	ug/L		0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 94.12%				
47) toluene-d8	8.681	98	497268	50.73	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.46%				
66) 4-bromofluorobenzene	12.962	95	182556	53.75	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.50%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.529	85	11491	3.67	ug/L		94
3) chloromethane	1.724	50	14457	3.95	ug/L		97
4) vinyl chloride	1.827	62	13941	4.21	ug/L		98
5) 1,3-butadiene	1.857	39	14308m3	7.71	ug/L		
6) bromomethane	2.137	94	336m3	6.59	ug/L		
7) chloroethane	2.228	64	7360	3.22	ug/L		91
8) trichlorofluoromethane	2.466	101	16239	3.83	ug/L		100
9) acrolein	3.031	56	14589	33.87	ug/L		94
10) 1,1,2-Trichloro-1,2,2-...	3.007	101	7189	3.45	ug/L		96
11) 1,1-dichloroethene	3.049	96	8805	4.01	ug/L		96
12) iodomethane	3.238	142	1321	6.55	ug/L		85
13) acetone	3.195	58	3230	9.49	ug/L	#	64
14) carbon disulfide	3.274	76	34381	4.99	ug/L		98
15) methylene chloride	3.645	84	14459	5.24	ug/L		92
16) acrylonitrile	4.010	53	64891	57.64	ug/L		92
17) trans-1,2-dichloroethene	3.889	96	11038	4.63	ug/L		94
18) methyl-t-butyl ether	3.870	73	38091	4.78	ug/L		97
19) acetonitrile	3.578	41	27255	67.62	ug/L		97
20) hexane	4.095	57	20449	5.53	ug/L	#	100
21) 1,1-dichloroethane	4.418	63	22505	4.77	ug/L		93
22) vinyl acetate	4.466	43	43046m3	6.61	ug/L		
23) cis-1,2-dichloroethene	5.117	96	13869	5.02	ug/L	#	82
24) 2,2-dichloropropane	5.068	77	18788	4.53	ug/L		97
25) 2-butanone	5.160	72	1976	5.82	ug/L	#	65
26) methyl acrylate	5.239	55	15629	5.46	ug/L		94
27) bromochloromethane	5.409	128	5671	4.18	ug/L	#	88
28) chloroform	5.488	83	19321	4.27	ug/L		99
30) 1,1,1-trichloroethane	5.658	97	16257	4.11	ug/L		96
31) cyclohexane	5.628	56	20192	4.99	ug/L	#	88
32) carbon tetrachloride	5.816	117	13474	3.94	ug/L		98
34) benzene	6.120	78	48675	4.55	ug/L		95
35) 1,1-dichloropropene	5.865	75	15138	4.33	ug/L		98
36) 1,2-dichloroethane	6.254	62	14899	3.88	ug/L		97
37) trichloroethene	6.972	95	12226	4.91	ug/L		86
38) ethyl acrylate	7.173	55	21579	8.15	ug/L		98
39) 1,2-dichloropropane	7.349	63	13531	4.94	ug/L		98
40) methyl methacrylate	7.489	69	10061	7.53	ug/L		95
41) dibromomethane	7.519	93	7319	4.59	ug/L		87
42) bromodichloromethane	7.726	83	15673	4.51	ug/L		97

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112503.D Vial: 3
Acq On : 25 Nov 2014 12:02 pm Operator: jln
Sample : SEQ-CAL2 Inst : VOA2
Misc : 8260 meoh 5ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:58:09 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

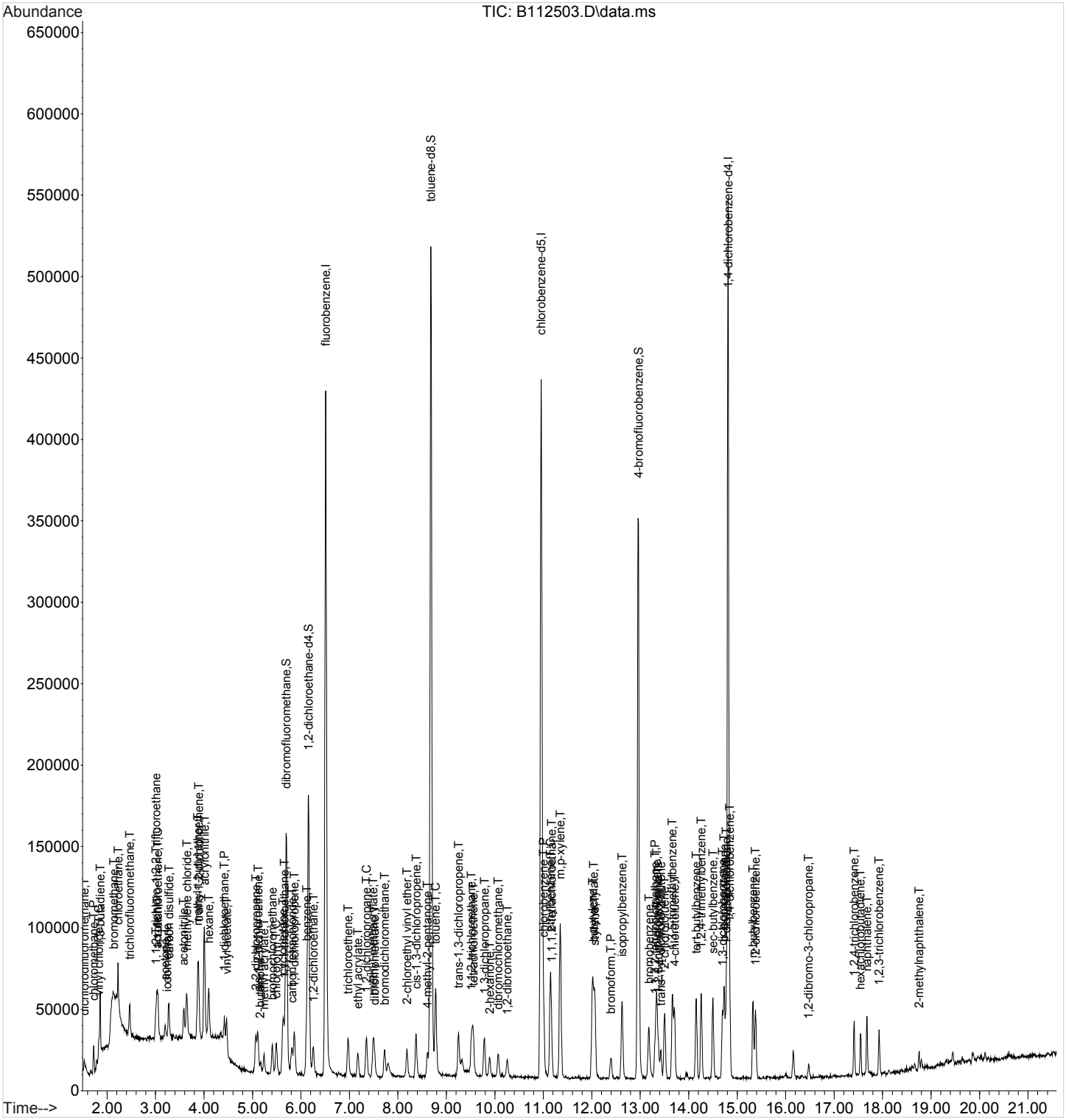
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.188	63	10106	8.13 ug/L	96
45) cis-1,3-dichloropropene	8.377	75	20566	4.78 ug/L	98
46) 4-methyl-2-pentanone	8.608	43	15422	5.01 ug/L	97
48) toluene	8.778	92	30555	4.74 ug/L	91
49) 1,1,2-trichloroethane	9.514	83	10062	5.20 ug/L	96
50) 1,3-dichloropropane	9.787	76	20007	4.69 ug/L	99
51) tetrachloroethene	9.556	164	9229	4.12 ug/L	94
52) trans-1,3-dichloropropene	9.252	75	20201	5.07 ug/L #	90
53) 2-hexanone	9.897	43	11824	6.67 ug/L	94
54) dibromochloromethane	10.067	129	11837	4.59 ug/L	97
55) 1,2-dibromoethane	10.256	107	11426	4.70 ug/L #	98
56) chlorobenzene	11.004	112	31341	4.48 ug/L	98
57) 1,1,1,2-tetrachloroethane	11.168	131	11247	4.44 ug/L	93
58) ethylbenzene	11.144	91	56372	4.91 ug/L	98
59) m,p-xylene	11.350	106	42307	9.55 ug/L	100
60) butyl acrylate	12.038	55	28018	8.54 ug/L	96
61) o-xylene	12.013	106	20819	4.95 ug/L	98
62) styrene	12.062	104	36586	4.97 ug/L	99
63) isopropylbenzene	12.621	105	50395	4.85 ug/L	98
64) bromobenzene	13.181	156	13174	4.16 ug/L	92
65) bromoform	12.390	173	8504	5.60 ug/L	99
67) 1,2,3-trichloropropane	13.369	75	12072m3	4.35 ug/L	
68) trans-1,4-dichloro-2-b...	13.424	53	5394	8.35 ug/L	93
69) n-propylbenzene	13.339	91	59135	4.84 ug/L	96
70) 2-chlorotoluene	13.503	91	35386	4.79 ug/L	96
71) 4-chlorotoluene	13.710	91	42943	4.90 ug/L	92
72) 1,3,5-trimethylbenzene	13.661	105	41073	4.85 ug/L	100
74) 1,1,2,2-tetrachloroethane	13.302	83	15102	5.20 ug/L	95
75) tert-butylbenzene	14.154	119	34119	5.11 ug/L	92
76) sec-butylbenzene	14.501	105	48480	5.19 ug/L	98
77) 1,2,4-trimethylbenzene	14.257	105	41386	5.12 ug/L	98
78) 1,3-dichlorobenzene	14.695	146	22598	4.44 ug/L	96
79) p-isopropyltoluene	14.732	119	41853	5.13 ug/L	99
80) dicyclopentadiene	14.774	66	57149	5.92 ug/L	98
81) 1,4-dichlorobenzene	14.847	146	23331	4.37 ug/L	98
82) 1,2-dichlorobenzene	15.376	146	22128	4.48 ug/L	94
83) n-butylbenzene	15.321	91	35712	5.36 ug/L	97
84) 1,2-dibromo-3-chloropr...	16.471	75	2412	5.09 ug/L #	80
85) 1,2,4-trichlorobenzene	17.413	180	11971	4.44 ug/L	98
86) hexachlorobutadiene	17.541	225	5894	4.44 ug/L	95
87) naphthalene	17.675	128	28700	4.77 ug/L	100
88) 1,2,3-trichlorobenzene	17.924	180	9209	4.11 ug/L	94
89) 2-methylnaphthalene	18.751	142	5746	7.21 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112503.D Vial: 3
Acq On : 25 Nov 2014 12:02 pm Operator: jln
Sample : SEQ-CAL2 Inst : VOA2
Misc : 8260 meoh 5ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:58:09 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112504.D Vial: 4
Acq On : 25 Nov 2014 12:31 pm Operator: jln
Sample : SEQ-CAL3 Inst : VOA2
Misc : 8260 meoh 10ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:59:01 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.511	96	536387	50.00	ug/L		0.00
44) chlorobenzene-d5	10.956	117	379957	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.806	152	195233	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.696	113	117845	46.53	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.06%				
33) 1,2-dichloroethane-d4	6.158	65	155414	46.81	ug/L		0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 93.62%				
47) toluene-d8	8.682	98	516813	51.38	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.76%				
66) 4-bromofluorobenzene	12.957	95	187917	53.92	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.84%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.530	85	23251	7.11	ug/L		95
3) chloromethane	1.725	50	31636	8.28	ug/L		96
4) vinyl chloride	1.828	62	30820	8.92	ug/L		96
5) 1,3-butadiene	1.859	39	27573m3	14.24	ug/L		
6) bromomethane	2.132	94	1129m3	7.30	ug/L		
7) chloroethane	2.230	64	19756	8.28	ug/L		97
8) trichlorofluoromethane	2.473	101	35520	8.03	ug/L		100
9) acrolein	3.026	56	31010	69.01	ug/L		99
10) 1,1,2-Trichloro-1,2,2-...	3.008	101	15769	7.25	ug/L		93
11) 1,1-dichloroethene	3.051	96	20492	8.94	ug/L		98
12) iodomethane	3.239	142	3278	7.57	ug/L		92
13) acetone	3.191	58	5894	19.38	ug/L	#	47
14) carbon disulfide	3.276	76	67102	9.34	ug/L		99
15) methylene chloride	3.641	84	26880	9.34	ug/L		93
16) acrylonitrile	4.005	53	132323	112.68	ug/L		98
17) trans-1,2-dichloroethene	3.890	96	22634	9.11	ug/L		97
18) methyl-t-butyl ether	3.872	73	81029	9.75	ug/L		92
19) acetonitrile	3.580	41	52723	125.40	ug/L		94
20) hexane	4.097	57	36935	10.43	ug/L	#	95
21) 1,1-dichloroethane	4.419	63	48851	9.93	ug/L		96
22) vinyl acetate	4.468	43	85281	12.56	ug/L		98
23) cis-1,2-dichloroethene	5.112	96	26235	9.10	ug/L		98
24) 2,2-dichloropropane	5.076	77	38756	8.96	ug/L		96
25) 2-butanone	5.167	72	3434	9.69	ug/L	#	90
26) methyl acrylate	5.240	55	29962	10.04	ug/L		96
27) bromochloromethane	5.416	128	12527	8.85	ug/L		93
28) chloroform	5.489	83	40973	8.69	ug/L		95
30) 1,1,1-trichloroethane	5.660	97	34926	8.46	ug/L		97
31) cyclohexane	5.629	56	43424	10.30	ug/L		95
32) carbon tetrachloride	5.812	117	28290	7.94	ug/L		97
34) benzene	6.122	78	103603	9.29	ug/L		99
35) 1,1-dichloropropene	5.866	75	32636	8.95	ug/L		96
36) 1,2-dichloroethane	6.256	62	32652	8.16	ug/L		98
37) trichloroethene	6.973	95	24213	9.32	ug/L		99
38) ethyl acrylate	7.174	55	42700	12.58	ug/L		96
39) 1,2-dichloropropane	7.350	63	27914	9.76	ug/L		99
40) methyl methacrylate	7.484	69	20675	11.82	ug/L		93
41) dibromomethane	7.514	93	15502	9.33	ug/L	#	83
42) bromodichloromethane	7.721	83	35200	9.71	ug/L		99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112504.D Vial: 4
Acq On : 25 Nov 2014 12:31 pm Operator: jln
Sample : SEQ-CAL3 Inst : VOA2
Misc : 8260 meoh 10ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:59:01 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

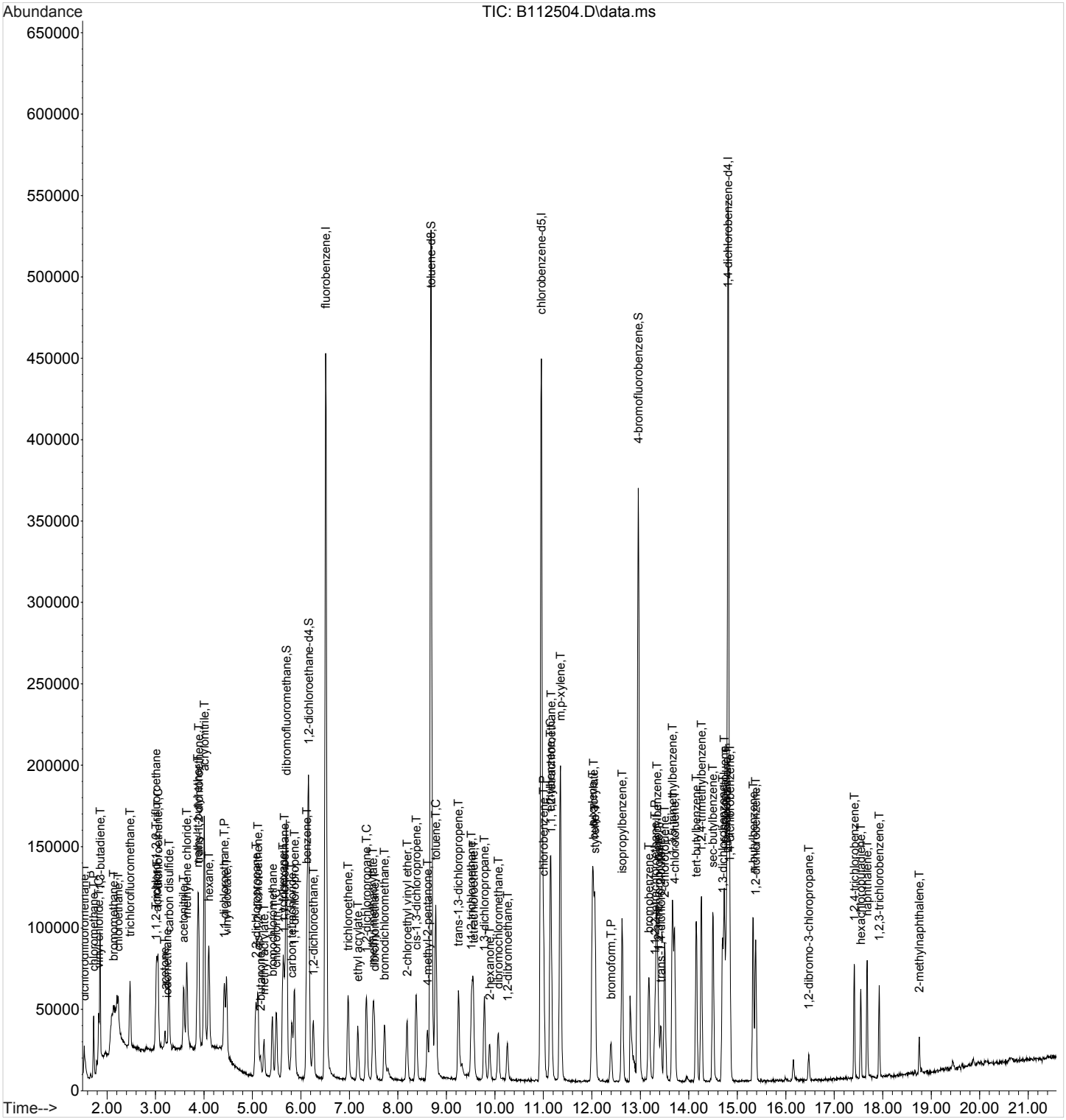
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) 2-chloroethyl vinyl ether	8.189	63	21245	13.28	ug/L		97
45) cis-1,3-dichloropropene	8.378	75	43796	9.93	ug/L		98
46) 4-methyl-2-pentanone	8.609	43	34854	11.03	ug/L		96
48) toluene	8.779	92	63328	9.57	ug/L		99
49) 1,1,2-trichloroethane	9.515	83	20700	10.42	ug/L		98
50) 1,3-dichloropropane	9.783	76	42129	9.61	ug/L		96
51) tetrachloroethene	9.558	164	19681	8.55	ug/L		95
52) trans-1,3-dichloropropene	9.248	75	40638	9.93	ug/L		96
53) 2-hexanone	9.892	43	21805	10.95	ug/L		98
54) dibromochloromethane	10.069	129	24582	9.30	ug/L		96
55) 1,2-dibromoethane	10.263	107	23472	9.40	ug/L	#	98
56) chlorobenzene	11.005	112	65540	9.12	ug/L		99
57) 1,1,1,2-tetrachloroethane	11.157	131	23097	8.89	ug/L		95
58) ethylbenzene	11.145	91	116709	9.90	ug/L		99
59) m,p-xylene	11.352	106	86554	19.04	ug/L		95
60) butyl acrylate	12.033	55	60063	13.56	ug/L		97
61) o-xylene	12.015	106	43169	9.99	ug/L		98
62) styrene	12.063	104	76431	10.12	ug/L		98
63) isopropylbenzene	12.623	105	106690	10.01	ug/L		97
64) bromobenzene	13.176	156	28353	8.72	ug/L		90
65) bromoform	12.392	173	17708	9.50	ug/L		94
67) 1,2,3-trichloropropane	13.371	75	27252	9.57	ug/L		93
68) trans-1,4-dichloro-2-b...	13.425	53	11051	12.80	ug/L		91
69) n-propylbenzene	13.340	91	127337	10.16	ug/L		95
70) 2-chlorotoluene	13.505	91	74896	9.89	ug/L		92
71) 4-chlorotoluene	13.705	91	86462	9.62	ug/L		92
72) 1,3,5-trimethylbenzene	13.663	105	87318	10.05	ug/L		96
74) 1,1,2,2-tetrachloroethane	13.304	83	32815	11.11	ug/L		95
75) tert-butylbenzene	14.155	119	71366	10.50	ug/L		98
76) sec-butylbenzene	14.496	105	102649	10.79	ug/L		100
77) 1,2,4-trimethylbenzene	14.259	105	86927	10.57	ug/L		99
78) 1,3-dichlorobenzene	14.696	146	48173	9.30	ug/L		94
79) p-isopropyltoluene	14.733	119	86989	10.47	ug/L		100
80) dicyclopentadiene	14.776	66	117626	11.98	ug/L		97
81) 1,4-dichlorobenzene	14.848	146	49922	9.19	ug/L		99
82) 1,2-dichlorobenzene	15.378	146	46700	9.29	ug/L		97
83) n-butylbenzene	15.329	91	72802	10.74	ug/L		97
84) 1,2-dibromo-3-chloropr...	16.472	75	4821	10.00	ug/L		94
85) 1,2,4-trichlorobenzene	17.415	180	24733	9.01	ug/L		95
86) hexachlorobutadiene	17.549	225	12272	9.09	ug/L		98
87) naphthalene	17.676	128	60500	9.87	ug/L		100
88) 1,2,3-trichlorobenzene	17.926	180	18827	8.25	ug/L		98
89) 2-methylnaphthalene	18.753	142	12818	10.55	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112504.D Vial: 4
Acq On : 25 Nov 2014 12:31 pm Operator: jln
Sample : SEQ-CAL3 Inst : VOA2
Misc : 8260 meoh 10ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:59:01 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112505.D Vial: 5
Acq On : 25 Nov 2014 1:01 pm Operator: jln
Sample : SEQ-CAL4 Inst : VOA2
Misc : 8260 meoh 20ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 13:47:02 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.510	96	535038	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	379567	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.811	152	196909	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.695	113	117637	46.56	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.12%			
33) 1,2-dichloroethane-d4	6.151	65	148393	44.81	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 89.62%			
47) toluene-d8	8.681	98	518411	51.59	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.18%			
66) 4-bromofluorobenzene	12.956	95	186850	53.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.34%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.529	85	47961	14.71	ug/L	99
3) chloromethane	1.724	50	66392	17.42	ug/L	95
4) vinyl chloride	1.827	62	65552	19.01	ug/L	98
5) 1,3-butadiene	1.858	39	61731	31.97	ug/L	97
6) bromomethane	2.138	94	3611	9.55	ug/L	84
7) chloroethane	2.235	64	40184	16.88	ug/L	98
8) trichlorofluoromethane	2.478	101	75752	17.17	ug/L	100
9) acrolein	3.025	56	66146	147.58	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	3.013	101	33135	15.27	ug/L	98
11) 1,1-dichloroethene	3.056	96	39971	17.48	ug/L	97
12) iodomethane	3.238	142	9019	10.67	ug/L	93
13) acetone	3.196	58	9331	32.94	ug/L #	66
14) carbon disulfide	3.275	76	141381	19.73	ug/L	100
15) methylene chloride	3.646	84	54647	19.04	ug/L	92
16) acrylonitrile	4.005	53	276792	236.30	ug/L	98
17) trans-1,2-dichloroethene	3.889	96	47339	19.11	ug/L	92
18) methyl-t-butyl ether	3.871	73	168324	20.30	ug/L	98
19) acetonitrile	3.579	41	105878	252.46	ug/L	97
20) hexane	4.102	57	75937	22.74	ug/L #	97
21) 1,1-dichloroethane	4.418	63	101937	20.77	ug/L	95
22) vinyl acetate	4.467	43	182856	27.00	ug/L	99
23) cis-1,2-dichloroethene	5.111	96	57632	20.05	ug/L	96
24) 2,2-dichloropropane	5.069	77	82722	19.18	ug/L	98
25) 2-butanone	5.166	72	8120	22.97	ug/L	95
26) methyl acrylate	5.239	55	65284	21.92	ug/L	100
27) bromochloromethane	5.409	128	25426	18.00	ug/L	91
28) chloroform	5.488	83	86642	18.42	ug/L	96
30) 1,1,1-trichloroethane	5.659	97	74693	18.13	ug/L	98
31) cyclohexane	5.628	56	93093	22.13	ug/L	95
32) carbon tetrachloride	5.811	117	60319	16.97	ug/L	97
34) benzene	6.121	78	214973	19.33	ug/L	98
35) 1,1-dichloropropene	5.865	75	70134	19.28	ug/L	97
36) 1,2-dichloroethane	6.255	62	70828	17.74	ug/L	99
37) trichloroethene	6.966	95	50379	19.45	ug/L	98
38) ethyl acrylate	7.173	55	91756	23.37	ug/L	99
39) 1,2-dichloropropane	7.349	63	59060	20.70	ug/L	99
40) methyl methacrylate	7.489	69	43413	21.45	ug/L	99
41) dibromomethane	7.513	93	31837	19.21	ug/L	92
42) bromodichloromethane	7.720	83	71489	19.76	ug/L	98

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112505.D Vial: 5
Acq On : 25 Nov 2014 1:01 pm Operator: jln
Sample : SEQ-CAL4 Inst : VOA2
Misc : 8260 meoh 20ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 13:47:02 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

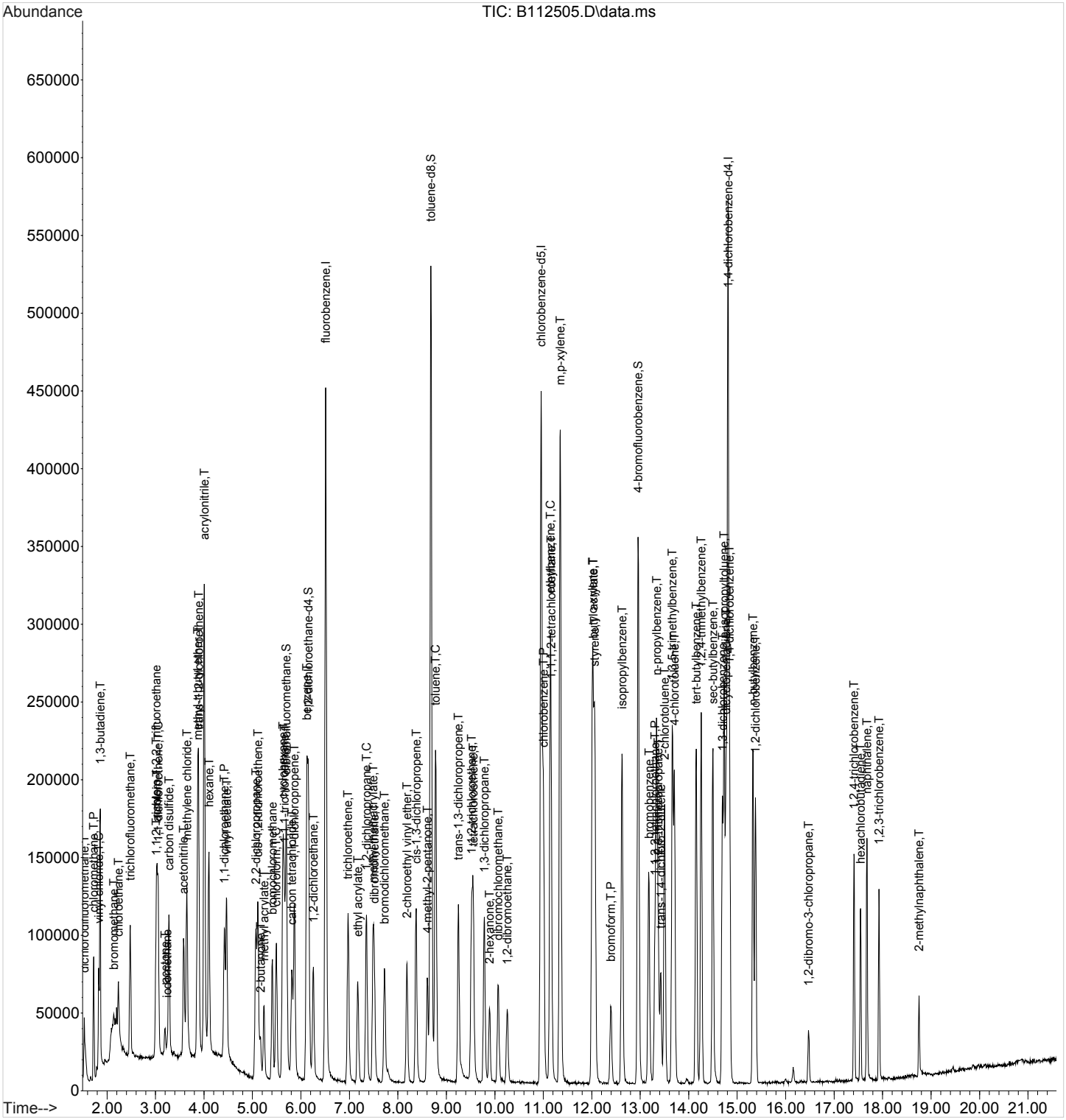
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.188	63	46023	25.27 ug/L	98
45) cis-1,3-dichloropropene	8.377	75	93428	21.20 ug/L	97
46) 4-methyl-2-pentanone	8.608	43	70873	22.45 ug/L #	94
48) toluene	8.778	92	133140	20.14 ug/L	97
49) 1,1,2-trichloroethane	9.520	83	44806	22.58 ug/L	97
50) 1,3-dichloropropane	9.782	76	88985	20.33 ug/L	99
51) tetrachloroethene	9.557	164	42023	18.28 ug/L	95
52) trans-1,3-dichloropropene	9.247	75	86014	21.05 ug/L	95
53) 2-hexanone	9.891	43	48020	22.57 ug/L	98
54) dibromochloromethane	10.068	129	51878	19.64 ug/L	99
55) 1,2-dibromoethane	10.256	107	49137	19.70 ug/L	97
56) chlorobenzene	11.004	112	139092	19.38 ug/L	97
57) 1,1,1,2-tetrachloroethane	11.162	131	50165	19.33 ug/L	98
58) ethylbenzene	11.144	91	249087	21.16 ug/L	100
59) m,p-xylene	11.351	106	188304	41.46 ug/L	97
60) butyl acrylate	12.032	55	125773	24.13 ug/L	97
61) o-xylene	12.014	106	93019	21.56 ug/L	98
62) styrene	12.062	104	161888	21.47 ug/L	99
63) isopropylbenzene	12.622	105	226744	21.29 ug/L	98
64) bromobenzene	13.181	156	59687	18.37 ug/L	93
65) bromoform	12.391	173	37200	17.99 ug/L	99
67) 1,2,3-trichloropropane	13.370	75	57697	20.28 ug/L	93
68) trans-1,4-dichloro-2-b...	13.425	53	22781	22.28 ug/L #	80
69) n-propylbenzene	13.339	91	267371	21.36 ug/L	98
70) 2-chlorotoluene	13.504	91	158257	20.91 ug/L	94
71) 4-chlorotoluene	13.704	91	181438	20.21 ug/L	96
72) 1,3,5-trimethylbenzene	13.662	105	183331	21.12 ug/L	100
74) 1,1,2,2-tetrachloroethane	13.303	83	67672	22.72 ug/L	96
75) tert-butylbenzene	14.154	119	152498	22.24 ug/L	95
76) sec-butylbenzene	14.501	105	214536	22.36 ug/L	99
77) 1,2,4-trimethylbenzene	14.258	105	185031	22.30 ug/L	100
78) 1,3-dichlorobenzene	14.696	146	104278	19.95 ug/L	98
79) p-isopropyltoluene	14.732	119	183950	21.96 ug/L	100
80) dicyclopentadiene	14.769	66	243991	24.63 ug/L	97
81) 1,4-dichlorobenzene	14.841	146	106223	19.39 ug/L	99
82) 1,2-dichlorobenzene	15.377	146	99951	19.71 ug/L	98
83) n-butylbenzene	15.322	91	156577	22.90 ug/L	98
84) 1,2-dibromo-3-chloropr...	16.471	75	10943	22.50 ug/L	88
85) 1,2,4-trichlorobenzene	17.408	180	52689	19.03 ug/L	99
86) hexachlorobutadiene	17.548	225	25473	18.70 ug/L	97
87) naphthalene	17.675	128	131227	21.23 ug/L	100
88) 1,2,3-trichlorobenzene	17.925	180	39989	17.38 ug/L	99
89) 2-methylnaphthalene	18.752	142	27614	17.52 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112505.D Vial: 5
Acq On : 25 Nov 2014 1:01 pm Operator: jln
Sample : SEQ-CAL4 Inst : VOA2
Misc : 8260 meoh 20ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 13:47:02 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112506.D Vial: 6
Acq On : 25 Nov 2014 1:31 pm Operator: jln
Sample : SEQ-CAL5 Inst : VOA2
Misc : 8260 meoh 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:00 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.513	96	562068	50.00	ug/L		0.00
44) chlorobenzene-d5	10.958	117	397618	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.808	152	203730	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.698	113	124217	46.80	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.60%				
33) 1,2-dichloroethane-d4	6.154	65	157271	45.20	ug/L		0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 90.40%				
47) toluene-d8	8.678	98	540274	51.33	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.66%				
66) 4-bromofluorobenzene	12.953	95	195275	53.54	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.08%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.532	85	118082	34.47	ug/L		100
3) chloromethane	1.721	50	167497	41.83	ug/L		98
4) vinyl chloride	1.824	62	168162	46.43	ug/L		99
5) 1,3-butadiene	1.854	39	138842	68.45	ug/L		98
6) bromomethane	2.140	94	11595	16.30	ug/L		95
7) chloroethane	2.237	64	101144	40.45	ug/L		97
8) trichlorofluoromethane	2.481	101	193317	41.70	ug/L		100
9) acrolein	3.028	56	173061	367.54	ug/L		99
10) 1,1,2-Trichloro-1,2,2-...	3.016	101	84976	37.28	ug/L		96
11) 1,1-dichloroethene	3.052	96	102746	42.78	ug/L		100
12) iodomethane	3.247	142	45261	28.42	ug/L		98
13) acetone	3.192	58	17358	61.18	ug/L	#	87
14) carbon disulfide	3.277	76	354387	47.08	ug/L		99
15) methylene chloride	3.648	84	135908	45.09	ug/L		95
16) acrylonitrile	4.007	53	709740	576.77	ug/L		98
17) trans-1,2-dichloroethene	3.892	96	120277	46.21	ug/L		92
18) methyl-t-butyl ether	3.867	73	432590	49.66	ug/L		96
19) acetonitrile	3.581	41	260114	590.41	ug/L		96
20) hexane	4.098	57	189927	55.75	ug/L	#	99
21) 1,1-dichloroethane	4.421	63	259859	50.41	ug/L		97
22) vinyl acetate	4.463	43	448887	63.09	ug/L		99
23) cis-1,2-dichloroethene	5.114	96	143866	47.64	ug/L		98
24) 2,2-dichloropropane	5.071	77	201866	44.56	ug/L		99
25) 2-butanone	5.163	72	18310	49.30	ug/L		82
26) methyl acrylate	5.236	55	165870	53.02	ug/L		98
27) bromochloromethane	5.412	128	66008	44.48	ug/L	#	89
28) chloroform	5.491	83	219454	44.41	ug/L		99
30) 1,1,1-trichloroethane	5.661	97	191959	44.35	ug/L		98
31) cyclohexane	5.631	56	236042	53.41	ug/L		96
32) carbon tetrachloride	5.813	117	156523	41.91	ug/L		96
34) benzene	6.123	78	559755	47.90	ug/L		99
35) 1,1-dichloropropene	5.862	75	178274	46.66	ug/L		100
36) 1,2-dichloroethane	6.257	62	181909	43.37	ug/L		97
37) trichloroethene	6.975	95	128225	47.12	ug/L		98
38) ethyl acrylate	7.176	55	234841	52.31	ug/L		98
39) 1,2-dichloropropane	7.352	63	151227	50.47	ug/L		99
40) methyl methacrylate	7.492	69	115901	49.71	ug/L		93
41) dibromomethane	7.516	93	81969	47.07	ug/L		93
42) bromodichloromethane	7.723	83	182491	48.03	ug/L		99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112506.D Vial: 6
Acq On : 25 Nov 2014 1:31 pm Operator: jln
Sample : SEQ-CAL5 Inst : VOA2
Misc : 8260 meoh 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:00 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

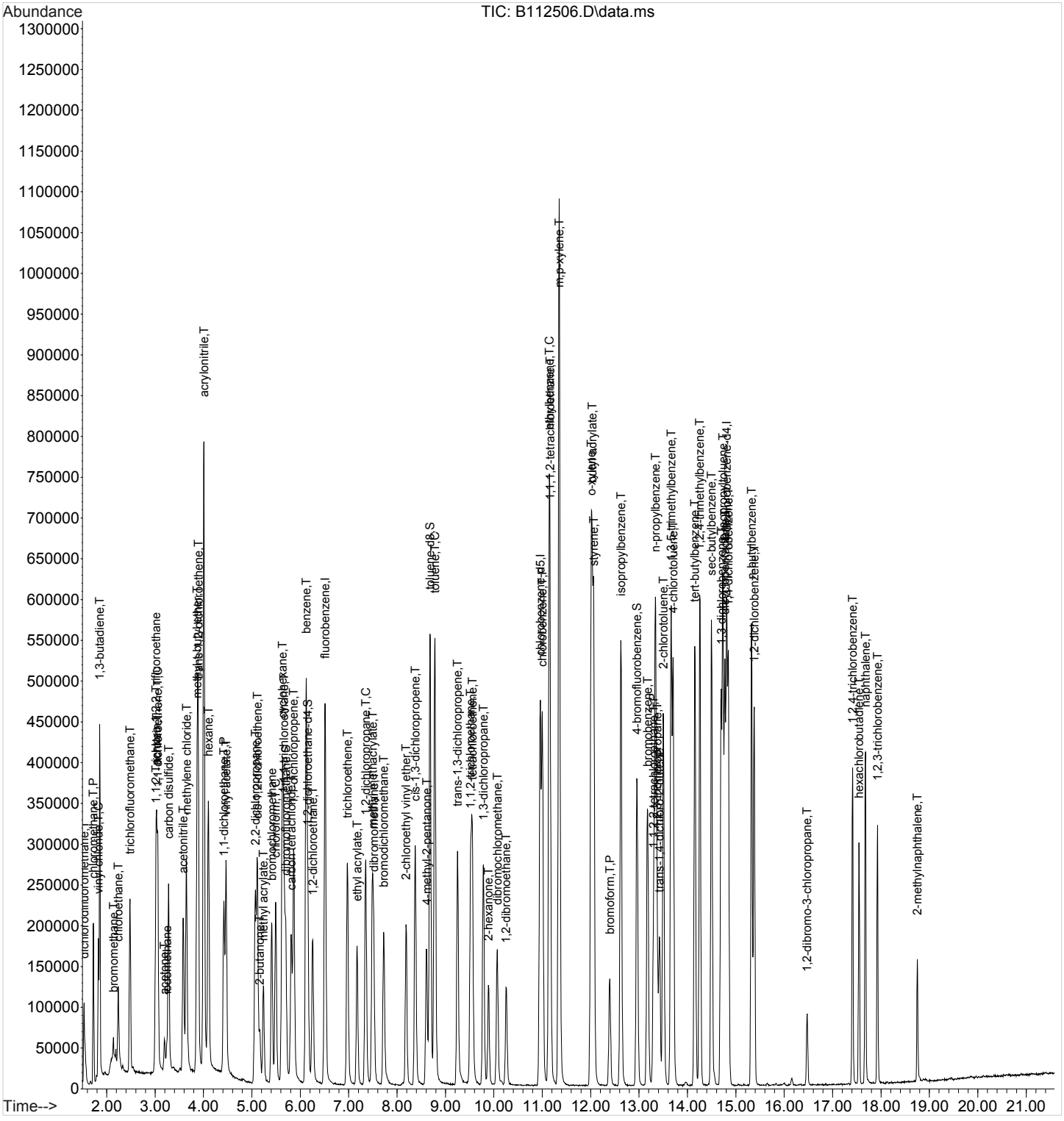
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) 2-chloroethyl vinyl ether	8.185	63	115713	56.24	ug/L		97
45) cis-1,3-dichloropropene	8.374	75	241191	52.24	ug/L		99
46) 4-methyl-2-pentanone	8.611	43	174445	52.76	ug/L		97
48) toluene	8.781	92	344605	49.76	ug/L		100
49) 1,1,2-trichloroethane	9.517	83	109285	52.57	ug/L		98
50) 1,3-dichloropropane	9.784	76	228976	49.93	ug/L		99
51) tetrachloroethene	9.553	164	107457	44.63	ug/L		99
52) trans-1,3-dichloropropene	9.249	75	222549	51.98	ug/L		99
53) 2-hexanone	9.888	43	117583	51.02	ug/L		99
54) dibromochloromethane	10.070	129	133388	48.20	ug/L		98
55) 1,2-dibromoethane	10.253	107	126528	48.42	ug/L		100
56) chlorobenzene	11.001	112	359825	47.86	ug/L		96
57) 1,1,1,2-tetrachloroethane	11.159	131	128676	47.32	ug/L		98
58) ethylbenzene	11.147	91	629614	51.05	ug/L		98
59) m,p-xylene	11.347	106	481568	101.22	ug/L		97
60) butyl acrylate	12.028	55	325103	53.78	ug/L		98
61) o-xylene	12.010	106	237321	52.50	ug/L		99
62) styrene	12.065	104	414201	52.43	ug/L		98
63) isopropylbenzene	12.624	105	578665	51.86	ug/L		98
64) bromobenzene	13.178	156	152931	44.93	ug/L		93
65) bromoform	12.393	173	96626	41.92	ug/L		97
67) 1,2,3-trichloropropane	13.372	75	150117	50.38	ug/L		98
68) trans-1,4-dichloro-2-b...	13.421	53	57220	47.98	ug/L	#	83
69) n-propylbenzene	13.336	91	684086	52.16	ug/L		97
70) 2-chlorotoluene	13.500	91	402808	50.81	ug/L		95
71) 4-chlorotoluene	13.701	91	467667	49.74	ug/L		92
72) 1,3,5-trimethylbenzene	13.664	105	469351	51.63	ug/L		100
74) 1,1,2,2-tetrachloroethane	13.299	83	168218	54.58	ug/L		96
75) tert-butylbenzene	14.151	119	385891	54.39	ug/L		97
76) sec-butylbenzene	14.497	105	556471	56.06	ug/L		97
77) 1,2,4-trimethylbenzene	14.254	105	472956	55.10	ug/L		100
78) 1,3-dichlorobenzene	14.698	146	265526	49.11	ug/L		98
79) p-isopropyltoluene	14.735	119	475432	54.85	ug/L		100
80) dicyclopentadiene	14.771	66	613941	59.90	ug/L		97
81) 1,4-dichlorobenzene	14.844	146	272617	48.11	ug/L		99
82) 1,2-dichlorobenzene	15.379	146	254737	48.54	ug/L		99
83) n-butylbenzene	15.325	91	399775	56.50	ug/L		98
84) 1,2-dibromo-3-chloropr...	16.468	75	27171	54.01	ug/L		87
85) 1,2,4-trichlorobenzene	17.410	180	136717	47.72	ug/L		99
86) hexachlorobutadiene	17.544	225	65129	46.22	ug/L		98
87) naphthalene	17.678	128	339992	53.16	ug/L		100
88) 1,2,3-trichlorobenzene	17.927	180	107267	45.05	ug/L		98
89) 2-methylnaphthalene	18.748	142	76933	39.72	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112506.D Vial: 6
Acq On : 25 Nov 2014 1:31 pm Operator: jln
Sample : SEQ-CAL5 Inst : VOA2
Misc : 8260 meoh 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:00 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112507.D Vial: 7
Acq On : 25 Nov 2014 2:29 pm Operator: jln
Sample : SEQ-CAL6 Inst : VOA2
Misc : 8260 meoh 70ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:07 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	557045	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	408928	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	218985	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.702	113	121830	46.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.62%			
33) 1,2-dichloroethane-d4	6.158	65	153646	44.56	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 89.12%			
47) toluene-d8	8.682	98	540329	49.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.82%			
66) 4-bromofluorobenzene	12.957	95	205207	54.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.42%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.530	85	188076	55.39	ug/L	99
3) chloromethane	1.725	50	247279	62.31	ug/L	97
4) vinyl chloride	1.828	62	262230	73.06	ug/L	99
5) 1,3-butadiene	1.852	39	213337	106.12	ug/L	99
6) bromomethane	2.138	94	28238	30.92	ug/L	97
7) chloroethane	2.248	64	164499	66.38	ug/L	98
8) trichlorofluoromethane	2.485	101	295135	64.24	ug/L	100
9) acrolein	3.026	56	348837	747.53	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	3.020	101	129905	57.51	ug/L	98
11) 1,1-dichloroethene	3.057	96	155294	65.24	ug/L	96
12) iodomethane	3.245	142	118571	62.57	ug/L	96
13) acetone	3.196	58	20818	74.81	ug/L #	85
14) carbon disulfide	3.282	76	560669	75.16	ug/L	99
15) methylene chloride	3.646	84	201845	67.56	ug/L	87
16) acrylonitrile	4.005	53	1359032	1114.37	ug/L	98
17) trans-1,2-dichloroethene	3.890	96	182828	70.87	ug/L	93
18) methyl-t-butyl ether	3.871	73	612933	70.99	ug/L	96
19) acetonitrile	3.580	41	467500	1070.70	ug/L	99
20) hexane	4.103	57	359271	107.48	ug/L	99
21) 1,1-dichloroethane	4.425	63	383363	75.04	ug/L	97
22) vinyl acetate	4.467	43	635130	90.07	ug/L	98
23) cis-1,2-dichloroethene	5.112	96	211889	70.79	ug/L	98
24) 2,2-dichloropropane	5.069	77	320096	71.30	ug/L	98
25) 2-butanone	5.161	72	26907	73.10	ug/L	92
26) methyl acrylate	5.234	55	226858	73.16	ug/L	99
27) bromochloromethane	5.410	128	97388	66.22	ug/L #	90
28) chloroform	5.495	83	324850	66.33	ug/L	98
30) 1,1,1-trichloroethane	5.665	97	279806	65.22	ug/L	97
31) cyclohexane	5.635	56	370173	84.51	ug/L	94
32) carbon tetrachloride	5.817	117	235617	63.65	ug/L	98
34) benzene	6.122	78	821683	70.95	ug/L	99
35) 1,1-dichloropropene	5.866	75	268336	70.87	ug/L	99
36) 1,2-dichloroethane	6.255	62	263616	63.42	ug/L	99
37) trichloroethene	6.973	95	192328	71.32	ug/L	100
38) ethyl acrylate	7.174	55	320137	70.74	ug/L	99
39) 1,2-dichloropropane	7.350	63	224969	75.75	ug/L	99
40) methyl methacrylate	7.490	69	156576	66.63	ug/L	97
41) dibromomethane	7.514	93	117022	67.81	ug/L	91
42) bromodichloromethane	7.727	83	268486	71.30	ug/L	98

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112507.D Vial: 7
Acq On : 25 Nov 2014 2:29 pm Operator: jln
Sample : SEQ-CAL6 Inst : VOA2
Misc : 8260 meoh 70ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:07 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

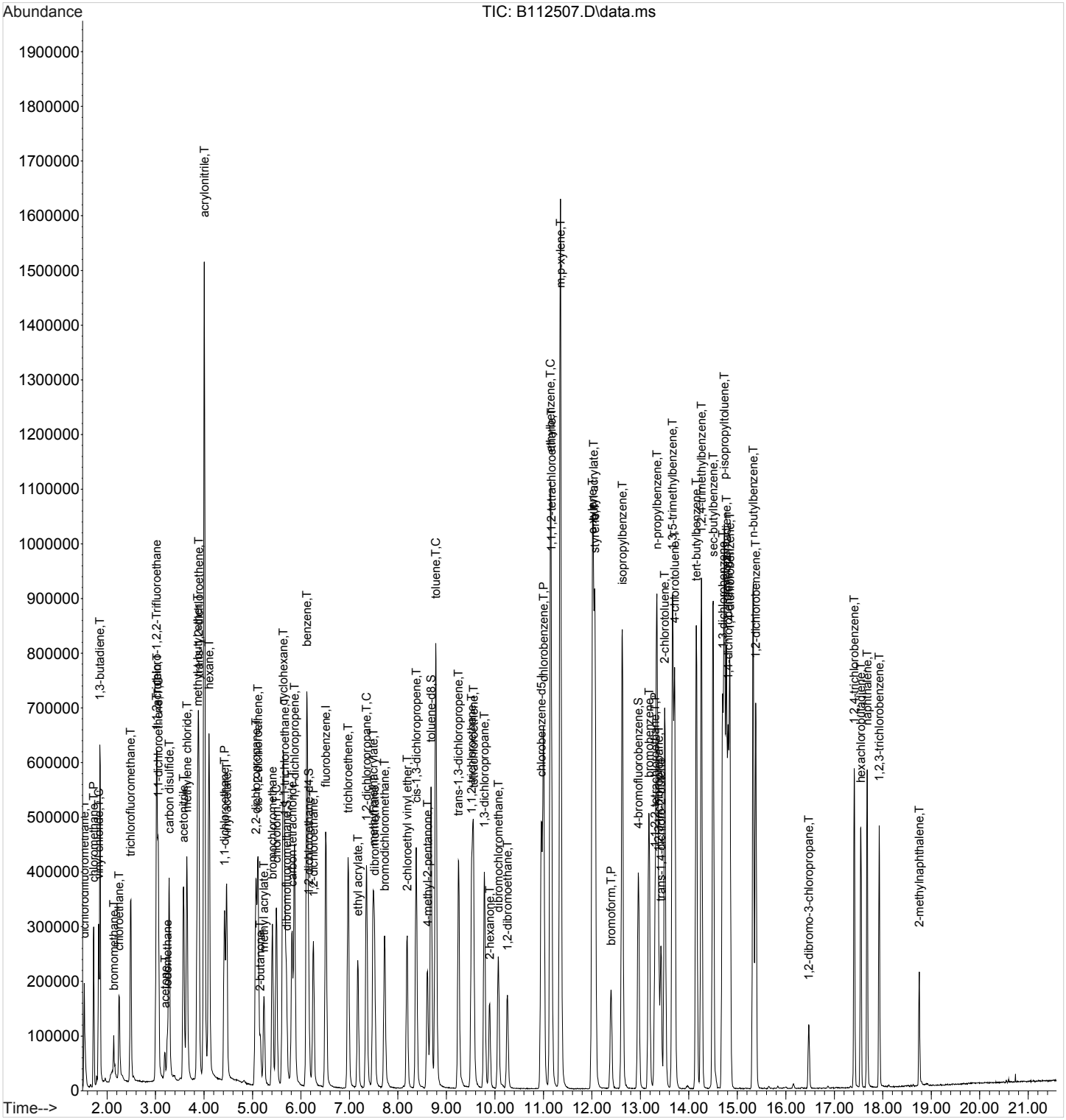
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) 2-chloroethyl vinyl ether	8.189	63	162638	78.48	ug/L		98
45) cis-1,3-dichloropropene	8.378	75	354334	74.62	ug/L		98
46) 4-methyl-2-pentanone	8.609	43	225198	66.22	ug/L		96
48) toluene	8.779	92	510128	71.62	ug/L		99
49) 1,1,2-trichloroethane	9.521	83	156870	73.38	ug/L		99
50) 1,3-dichloropropane	9.783	76	329443	69.85	ug/L		98
51) tetrachloroethene	9.558	164	164666	66.50	ug/L		99
52) trans-1,3-dichloropropene	9.247	75	329679	74.87	ug/L		99
53) 2-hexanone	9.892	43	152189	63.87	ug/L		99
54) dibromochloromethane	10.068	129	194687	68.40	ug/L		99
55) 1,2-dibromoethane	10.257	107	181451	67.52	ug/L		97
56) chlorobenzene	11.005	112	531674	68.77	ug/L		96
57) 1,1,1,2-tetrachloroethane	11.163	131	189083	67.61	ug/L		98
58) ethylbenzene	11.145	91	945151	74.51	ug/L		98
59) m,p-xylene	11.352	106	725561	148.28	ug/L		96
60) butyl acrylate	12.033	55	452189	71.35	ug/L		98
61) o-xylene	12.008	106	354454	76.24	ug/L		97
62) styrene	12.063	104	616604	75.89	ug/L		99
63) isopropylbenzene	12.629	105	888005	77.37	ug/L		99
64) bromobenzene	13.182	156	228953	65.40	ug/L		95
65) bromoform	12.391	173	138028	57.53	ug/L		96
67) 1,2,3-trichloropropane	13.377	75	198967	64.92	ug/L		96
68) trans-1,4-dichloro-2-b...	13.425	53	79060	63.13	ug/L	#	78
69) n-propylbenzene	13.340	91	1045293	77.50	ug/L		98
70) 2-chlorotoluene	13.504	91	614651	75.39	ug/L		96
71) 4-chlorotoluene	13.705	91	711651	73.59	ug/L		94
72) 1,3,5-trimethylbenzene	13.662	105	726168	77.66	ug/L		98
74) 1,1,2,2-tetrachloroethane	13.304	83	228022	68.83	ug/L		96
75) tert-butylbenzene	14.155	119	613796	80.48	ug/L		98
76) sec-butylbenzene	14.502	105	897339	84.11	ug/L		99
77) 1,2,4-trimethylbenzene	14.258	105	733772	79.53	ug/L		98
78) 1,3-dichlorobenzene	14.696	146	405330	69.74	ug/L		99
79) p-isopropyltoluene	14.733	119	767728	82.40	ug/L		99
80) dicyclopentadiene	14.775	66	971247	88.15	ug/L		97
81) 1,4-dichlorobenzene	14.848	146	412863	67.78	ug/L		98
82) 1,2-dichlorobenzene	15.377	146	384685	68.20	ug/L		98
83) n-butylbenzene	15.329	91	655873	86.24	ug/L		99
84) 1,2-dibromo-3-chloropr...	16.472	75	35229	65.15	ug/L		96
85) 1,2,4-trichlorobenzene	17.409	180	209195	67.93	ug/L		98
86) hexachlorobutadiene	17.548	225	108937	71.92	ug/L		99
87) naphthalene	17.676	128	471634	68.61	ug/L		100
88) 1,2,3-trichlorobenzene	17.925	180	156878	61.29	ug/L		97
89) 2-methylnaphthalene	18.753	142	103963	48.81	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112507.D Vial: 7
Acq On : 25 Nov 2014 2:29 pm Operator: jln
Sample : SEQ-CAL6 Inst : VOA2
Misc : 8260 meoh 70ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:07 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112508.D Vial: 8
Acq On : 25 Nov 2014 2:58 pm Operator: jln
Sample : SEQ-CAL7 Inst : VOA2
Misc : 8260 meoh 100ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:14 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.512	96	586066	50.00	ug/L		0.00
44) chlorobenzene-d5	10.958	117	412873	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.813	152	211779	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.697	113	129468	46.78	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.56%				
33) 1,2-dichloroethane-d4	6.153	65	162981	44.93	ug/L		0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 89.86%				
47) toluene-d8	8.683	98	561018	51.33	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.66%				
66) 4-bromofluorobenzene	12.958	95	200584	52.97	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.94%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.531	85	251902	70.52	ug/L		99
3) chloromethane	1.720	50	343696	82.31	ug/L		99
4) vinyl chloride	1.823	62	362577	96.01	ug/L		99
5) 1,3-butadiene	1.854	39	289418	136.84	ug/L		99
6) bromomethane	2.140	94	45781	44.25	ug/L		96
7) chloroethane	2.243	64	231879	88.94	ug/L		98
8) trichlorofluoromethane	2.486	101	415586	85.97	ug/L		100
9) acrolein	3.027	56	372526	758.77	ug/L		95
10) 1,1,2-Trichloro-1,2,2-...	3.015	101	180475	75.94	ug/L		98
11) 1,1-dichloroethene	3.058	96	219322	87.58	ug/L		99
12) iodomethane	3.246	142	193774	90.49	ug/L		98
13) acetone	3.192	58	31051	107.61	ug/L	#	81
14) carbon disulfide	3.277	76	756632	96.40	ug/L		98
15) methylene chloride	3.648	84	289038	91.96	ug/L		91
16) acrylonitrile	4.007	53	1441924	1123.79	ug/L		99
17) trans-1,2-dichloroethene	3.891	96	263739	97.17	ug/L		95
18) methyl-t-butyl ether	3.867	73	904234	99.55	ug/L		96
19) acetonitrile	3.581	41	498090	1084.27	ug/L		98
20) hexane	4.104	57	446066	127.05	ug/L	#	99
21) 1,1-dichloroethane	4.420	63	552165	102.73	ug/L		96
22) vinyl acetate	4.469	43	932191	125.66	ug/L		100
23) cis-1,2-dichloroethene	5.113	96	308303	97.90	ug/L		99
24) 2,2-dichloropropane	5.071	77	456852	96.72	ug/L		98
25) 2-butanone	5.162	72	40418	104.38	ug/L		90
26) methyl acrylate	5.235	55	340932	104.51	ug/L		100
27) bromochloromethane	5.411	128	142647	92.19	ug/L	#	91
28) chloroform	5.490	83	469799	91.17	ug/L		98
30) 1,1,1-trichloroethane	5.661	97	406264	90.01	ug/L		99
31) cyclohexane	5.630	56	492888	106.95	ug/L		97
32) carbon tetrachloride	5.813	117	341306	87.64	ug/L		99
34) benzene	6.123	78	1186892	97.42	ug/L		99
35) 1,1-dichloropropene	5.867	75	381639	95.80	ug/L		99
36) 1,2-dichloroethane	6.257	62	385793	88.22	ug/L		98
37) trichloroethene	6.974	95	276206	97.35	ug/L		99
38) ethyl acrylate	7.175	55	480495	99.55	ug/L		99
39) 1,2-dichloropropane	7.351	63	325699	104.24	ug/L		98
40) methyl methacrylate	7.485	69	233523	93.15	ug/L		98
41) dibromomethane	7.516	93	170763	94.05	ug/L		93
42) bromodichloromethane	7.722	83	386020	97.43	ug/L		99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112508.D Vial: 8
Acq On : 25 Nov 2014 2:58 pm Operator: jln
Sample : SEQ-CAL7 Inst : VOA2
Misc : 8260 meoh 100ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:14 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

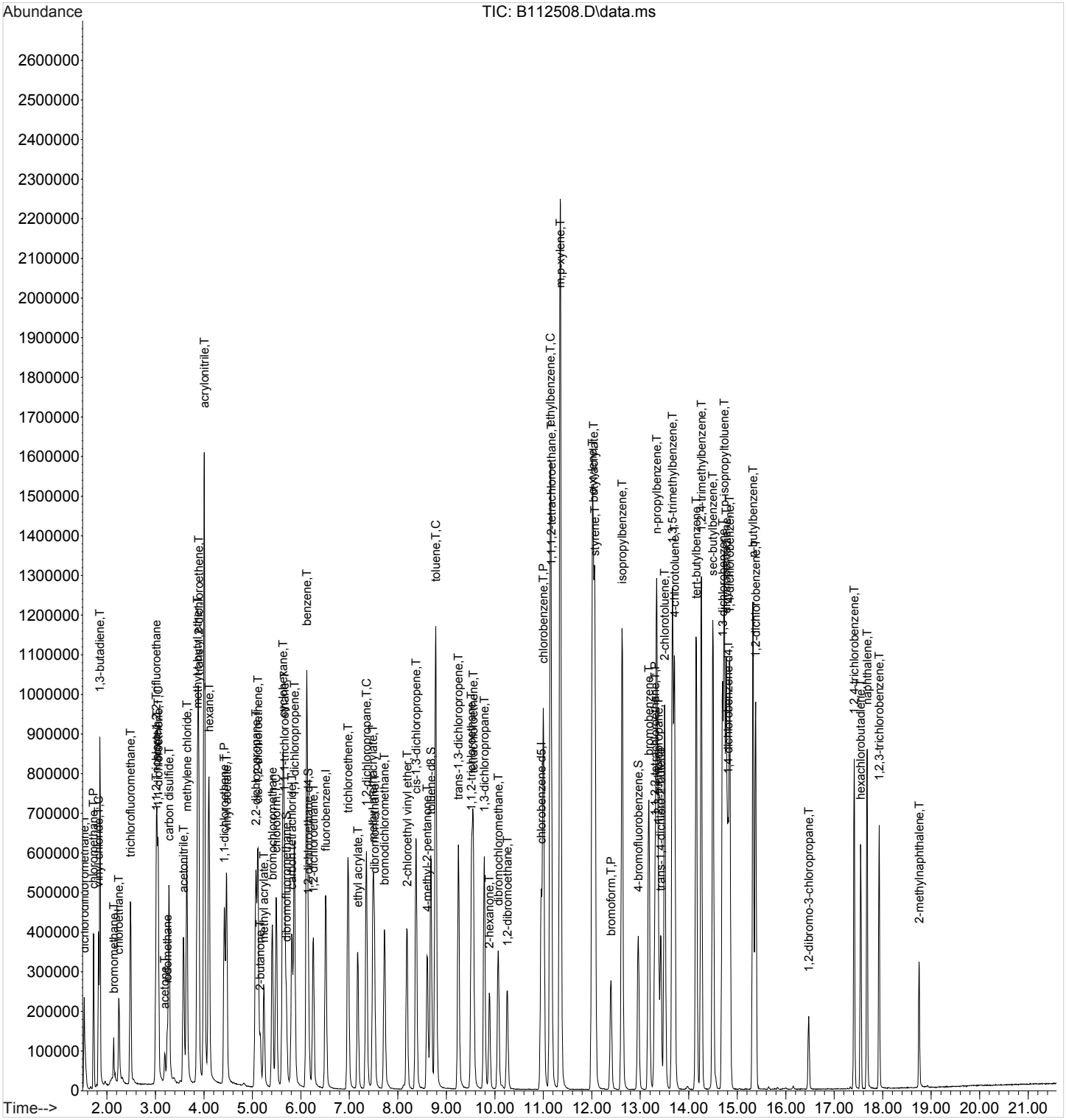
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.191	63	241769	109.62 ug/L	97
45) cis-1,3-dichloropropene	8.373	75	515178	107.46 ug/L	99
46) 4-methyl-2-pentanone	8.604	43	345245	100.56 ug/L	96
48) toluene	8.780	92	733987	102.06 ug/L	99
49) 1,1,2-trichloroethane	9.516	83	229273	106.22 ug/L	94
50) 1,3-dichloropropane	9.784	76	482322	101.29 ug/L	99
51) tetrachloroethene	9.553	164	229951	91.98 ug/L	99
52) trans-1,3-dichloropropene	9.249	75	475706	107.00 ug/L	99
53) 2-hexanone	9.887	43	232703	96.06 ug/L	98
54) dibromochloromethane	10.070	129	285722	99.43 ug/L	99
55) 1,2-dibromoethane	10.258	107	265047	97.68 ug/L	99
56) chlorobenzene	11.000	112	764678	97.96 ug/L	95
57) 1,1,1,2-tetrachloroethane	11.164	131	273374	96.82 ug/L	98
58) ethylbenzene	11.146	91	1340293	104.65 ug/L	99
59) m,p-xylene	11.347	106	1027327	207.95 ug/L	97
60) butyl acrylate	12.034	55	670166	102.90 ug/L	98
61) o-xylene	12.010	106	502214	106.99 ug/L	99
62) styrene	12.064	104	881509	107.45 ug/L	97
63) isopropylbenzene	12.624	105	1232787	106.39 ug/L	99
64) bromobenzene	13.177	156	326014	92.24 ug/L	93
65) bromoform	12.393	173	205337	83.90 ug/L	98
67) 1,2,3-trichloropropane	13.372	75	288032	93.09 ug/L	97
68) trans-1,4-dichloro-2-b...	13.420	53	117444	91.05 ug/L #	81
69) n-propylbenzene	13.335	91	1430635	105.06 ug/L	97
70) 2-chlorotoluene	13.500	91	851670	103.47 ug/L	96
71) 4-chlorotoluene	13.706	91	991970	101.60 ug/L	95
72) 1,3,5-trimethylbenzene	13.664	105	994349	105.33 ug/L	99
74) 1,1,2,2-tetrachloroethane	13.305	83	344262	107.46 ug/L	96
75) tert-butylbenzene	14.156	119	819983	111.18 ug/L	97
76) sec-butylbenzene	14.497	105	1181525	114.51 ug/L	99
77) 1,2,4-trimethylbenzene	14.260	105	1005438	112.69 ug/L	99
78) 1,3-dichlorobenzene	14.698	146	571360	101.66 ug/L	97
79) p-isopropyltoluene	14.734	119	1016738	112.84 ug/L	100
80) dicyclopentadiene	14.771	66	1285760	120.67 ug/L	97
81) 1,4-dichlorobenzene	14.844	146	582837	98.94 ug/L	99
82) 1,2-dichlorobenzene	15.379	146	540183	99.03 ug/L	98
83) n-butylbenzene	15.324	91	856267	116.42 ug/L	98
84) 1,2-dibromo-3-chloropr...	16.473	75	53863	102.99 ug/L	98
85) 1,2,4-trichlorobenzene	17.410	180	287559	96.55 ug/L	98
86) hexachlorobutadiene	17.544	225	138591	94.62 ug/L	99
87) naphthalene	17.677	128	701638	105.54 ug/L	100
88) 1,2,3-trichlorobenzene	17.927	180	221336	89.42 ug/L	98
89) 2-methylnaphthalene	18.754	142	156833	73.67 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112508.D Vial: 8
Acq On : 25 Nov 2014 2:58 pm Operator: jln
Sample : SEQ-CAL7 Inst : VOA2
Misc : 8260 meoh 100ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:48:14 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112509.D Vial: 9
Acq On : 25 Nov 2014 3:28 pm Operator: jln
Sample : SEQ-CAL8 Inst : VOA2
Misc : 8260 meoh 200ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:56:05 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.513	96	584786	50.00	ug/L	0.00
44) chlorobenzene-d5	10.959	117	423288	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.808	152	220294	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.698	113	131673	47.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.36%			
33) 1,2-dichloroethane-d4	6.155	65	164362	45.41	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 90.82%			
47) toluene-d8	8.684	98	569857	50.86	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.72%			
66) 4-bromofluorobenzene	12.960	95	205758	53.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.00%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.533	85	487682	136.82	ug/L	100
3) chloromethane	1.721	50	659356	158.26	ug/L	98
4) vinyl chloride	1.825	62	706072	187.38	ug/L	100
5) 1,3-butadiene	1.855	39	554396	262.69	ug/L	98
6) bromomethane	2.141	94	114550	101.51	ug/L	98
7) chloroethane	2.244	64	447477	172.01	ug/L	98
8) trichlorofluoromethane	2.481	101	803838	166.65	ug/L	100
9) acrolein	3.029	56	744994	1520.73	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	3.017	101	354679	149.56	ug/L	98
11) 1,1-dichloroethene	3.053	96	424276	169.79	ug/L	99
12) iodomethane	3.242	142	432438	174.95	ug/L	97
13) acetone	3.193	58	56585	199.59	ug/L #	82
14) carbon disulfide	3.278	76	1480723	189.07	ug/L	99
15) methylene chloride	3.649	84	557853	177.87	ug/L	91
16) acrylonitrile	4.008	53	2797149	2184.79	ug/L	99
17) trans-1,2-dichloroethene	3.892	96	504774	186.39	ug/L	94
18) methyl-t-butyl ether	3.868	73	1770588	195.35	ug/L	96
19) acetonitrile	3.582	41	930546	2030.10	ug/L	98
20) hexane	4.099	57	827258	237.13	ug/L	99
21) 1,1-dichloroethane	4.421	63	1076936	200.81	ug/L	97
22) vinyl acetate	4.464	43	1803827	243.68	ug/L	99
23) cis-1,2-dichloroethene	5.115	96	592952	188.71	ug/L	99
24) 2,2-dichloropropane	5.072	77	864816	183.49	ug/L	98
25) 2-butanone	5.163	72	74628	193.14	ug/L	93
26) methyl acrylate	5.236	55	647585	198.94	ug/L	100
27) bromochloromethane	5.413	128	268065	173.62	ug/L	92
28) chloroform	5.492	83	919845	178.90	ug/L	100
30) 1,1,1-trichloroethane	5.662	97	781122	173.45	ug/L	99
31) cyclohexane	5.632	56	968352	210.58	ug/L	97
32) carbon tetrachloride	5.814	117	663420	170.72	ug/L	99
34) benzene	6.124	78	2314465	190.38	ug/L	99
35) 1,1-dichloropropene	5.863	75	740859	186.38	ug/L	100
36) 1,2-dichloroethane	6.252	62	748366	171.50	ug/L	97
37) trichloroethene	6.969	95	542222	191.52	ug/L	99
38) ethyl acrylate	7.176	55	928285	189.72	ug/L	99
39) 1,2-dichloropropane	7.353	63	638018	204.64	ug/L	99
40) methyl methacrylate	7.486	69	445512	175.26	ug/L	98
41) dibromomethane	7.517	93	335949	185.43	ug/L	93
42) bromodichloromethane	7.724	83	758816	191.95	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112509.D Vial: 9
Acq On : 25 Nov 2014 3:28 pm Operator: jln
Sample : SEQ-CAL8 Inst : VOA2
Misc : 8260 meoh 200ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:56:05 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

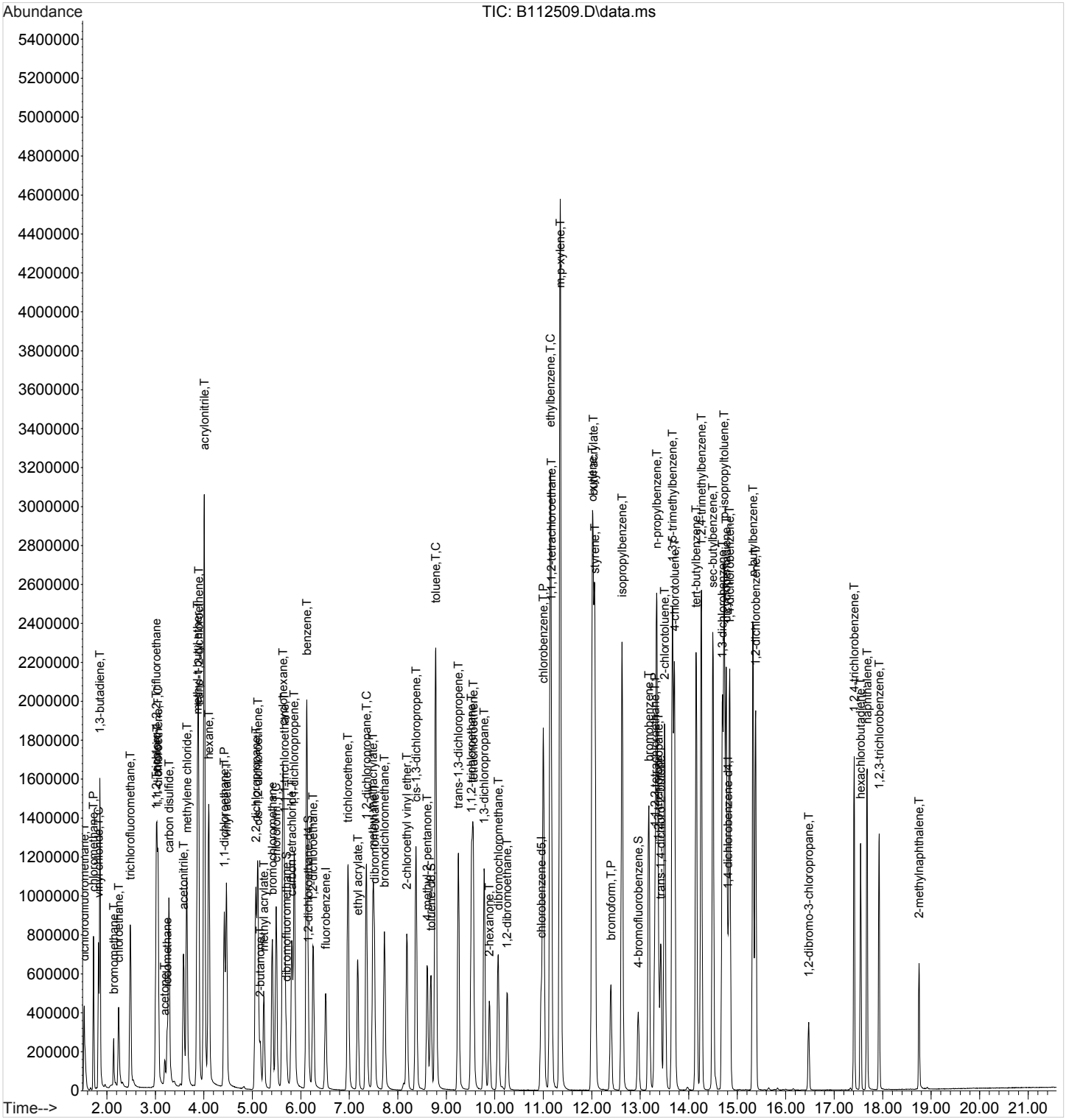
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) 2-chloroethyl vinyl ether	8.186	63	470464	210.89	ug/L		97
45) cis-1,3-dichloropropene	8.374	75	1013917	206.28	ug/L		99
46) 4-methyl-2-pentanone	8.605	43	650580	184.83	ug/L		97
48) toluene	8.782	92	1445555	196.06	ug/L		99
49) 1,1,2-trichloroethane	9.518	83	446614	201.82	ug/L		99
50) 1,3-dichloropropane	9.779	76	944334	193.44	ug/L		99
51) tetrachloroethene	9.554	164	457221	178.38	ug/L		99
52) trans-1,3-dichloropropene	9.250	75	934604	205.05	ug/L		100
53) 2-hexanone	9.889	43	436750	174.77	ug/L		98
54) dibromochloromethane	10.071	129	568526	192.98	ug/L		98
55) 1,2-dibromoethane	10.253	107	521424	187.45	ug/L		99
56) chlorobenzene	11.001	112	1506565	188.25	ug/L		95
57) 1,1,1,2-tetrachloroethane	11.166	131	542080	187.27	ug/L		98
58) ethylbenzene	11.147	91	2667034	203.12	ug/L		99
59) m,p-xylene	11.348	106	2032403	401.27	ug/L		97
60) butyl acrylate	12.029	55	1291166	189.92	ug/L		98
61) o-xylene	12.011	106	995851	206.94	ug/L		97
62) styrene	12.066	104	1745405	207.53	ug/L		99
63) isopropylbenzene	12.625	105	2428867	204.45	ug/L		99
64) bromobenzene	13.179	156	651631	179.82	ug/L		93
65) bromoform	12.394	173	405852	160.08	ug/L		99
67) 1,2,3-trichloropropane	13.373	75	560534	176.70	ug/L		97
68) trans-1,4-dichloro-2-b...	13.422	53	228791	169.51	ug/L	#	80
69) n-propylbenzene	13.337	91	2839826	203.41	ug/L		97
70) 2-chlorotoluene	13.501	91	1688726	200.12	ug/L		95
71) 4-chlorotoluene	13.708	91	1978718	197.67	ug/L		94
72) 1,3,5-trimethylbenzene	13.665	105	1981503	204.73	ug/L		98
74) 1,1,2,2-tetrachloroethane	13.306	83	667975	200.45	ug/L		97
75) tert-butylbenzene	14.152	119	1618505	210.96	ug/L		96
76) sec-butylbenzene	14.498	105	2326891	216.80	ug/L		98
77) 1,2,4-trimethylbenzene	14.261	105	1988838	214.29	ug/L		99
78) 1,3-dichlorobenzene	14.693	146	1141877	195.31	ug/L		97
79) p-isopropyltoluene	14.729	119	2020819	215.60	ug/L		99
80) dicyclopentadiene	14.772	66	2541267	229.29	ug/L		97
81) 1,4-dichlorobenzene	14.845	146	1161981	189.64	ug/L		99
82) 1,2-dichlorobenzene	15.380	146	1078994	190.16	ug/L		99
83) n-butylbenzene	15.325	91	1698809	222.04	ug/L		97
84) 1,2-dibromo-3-chloropr...	16.475	75	104370	191.86	ug/L		97
85) 1,2,4-trichlorobenzene	17.411	180	577939	186.55	ug/L		99
86) hexachlorobutadiene	17.545	225	271634	178.28	ug/L		99
87) naphthalene	17.679	128	1378777	199.38	ug/L		100
88) 1,2,3-trichlorobenzene	17.928	180	439483	170.69	ug/L		97
89) 2-methylnaphthalene	18.749	142	315880	138.51	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112509.D Vial: 9
Acq On : 25 Nov 2014 3:28 pm Operator: jln
Sample : SEQ-CAL8 Inst : VOA2
Misc : 8260 meoh 200ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 15:56:05 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Wed Sep 17 13:40:42 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112510.D Vial: 10
Acq On : 25 Nov 2014 4:38 pm Operator: jln
Sample : SEQ-ICV1 Inst : VOA2
Misc : 8260 meoh 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 17:05:19 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Tue Nov 25 16:05:51 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.513	96	563451	50.00	ug/L	0.00
44) chlorobenzene-d5	10.959	117	414447	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.814	152	212645	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.698	113	126747	50.80	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.60%			
33) 1,2-dichloroethane-d4	6.154	65	159814	50.23	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 100.46%			
47) toluene-d8	8.684	98	549986	49.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.70%			
66) 4-bromofluorobenzene	12.959	95	204994	49.93	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.533	85	134574	55.17	ug/L	100
3) chloromethane	1.727	50	156262	47.05	ug/L	99
4) vinyl chloride	1.825	62	191585	57.85	ug/L	100
6) bromomethane	2.147	94	30584	78.12	ug/L	98
7) chloroethane	2.256	64	124256	59.60	ug/L	98
8) trichlorofluoromethane	2.493	101	204962	53.59	ug/L	100
9) acrolein	3.029	56	28534	83.94	ug/L	91
11) 1,1-dichloroethene	3.059	96	110311	53.11	ug/L	98
12) iodomethane	3.254	142	17447	18.66	ug/L	96
13) acetone	3.193	58	14586	43.13	ug/L	95
14) carbon disulfide	3.284	76	420921	56.85	ug/L	100
15) methylene chloride	3.649	84	161108	58.19	ug/L	97
16) acrylonitrile	4.008	53	72983	50.03	ug/L	98
17) trans-1,2-dichloroethene	3.898	96	133198	54.03	ug/L	95
18) methyl-t-butyl ether	3.868	73	460563	54.03	ug/L	100
19) acetonitrile	3.576	41	20277	34.36	ug/L	96
20) hexane	4.111	57	14703	3.40	ug/L #	90
21) 1,1-dichloroethane	4.427	63	278263	53.73	ug/L	99
22) vinyl acetate	4.470	43	358108	38.35	ug/L	99
23) cis-1,2-dichloroethene	5.115	96	160755	54.82	ug/L	98
24) 2,2-dichloropropane	5.072	77	232797	54.75	ug/L	99
25) 2-butanone	5.163	72	19614	48.45	ug/L	89
27) bromochloromethane	5.412	128	73412	55.91	ug/L	96
28) chloroform	5.498	83	248988	55.91	ug/L	99
30) 1,1,1-trichloroethane	5.662	97	208636	55.84	ug/L	96
32) carbon tetrachloride	5.814	117	175242	55.88	ug/L	96
34) benzene	6.124	78	617816	55.69	ug/L	100
35) 1,1-dichloropropene	5.869	75	194137	54.97	ug/L	99
36) 1,2-dichloroethane	6.258	62	197596	56.10	ug/L	97
37) trichloroethene	6.975	95	141498	54.23	ug/L	99
39) 1,2-dichloropropane	7.352	63	165716	54.87	ug/L	100
41) dibromomethane	7.517	93	86959	51.81	ug/L	96
42) bromodichloromethane	7.723	83	195242	53.68	ug/L	98
43) 2-chloroethyl vinyl ether	8.192	63	115046	50.82	ug/L	100
45) cis-1,3-dichloropropene	8.374	75	262191	53.95	ug/L	99
46) 4-methyl-2-pentanone	8.611	43	171326	48.43	ug/L	98
48) toluene	8.782	92	377881	53.95	ug/L	99
49) 1,1,2-trichloroethane	9.523	83	117011	50.93	ug/L	97
50) 1,3-dichloropropane	9.785	76	247118	53.72	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112510.D Vial: 10
Acq On : 25 Nov 2014 4:38 pm Operator: jln
Sample : SEQ-ICV1 Inst : VOA2
Misc : 8260 meoh 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 17:05:19 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Tue Nov 25 16:05:51 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

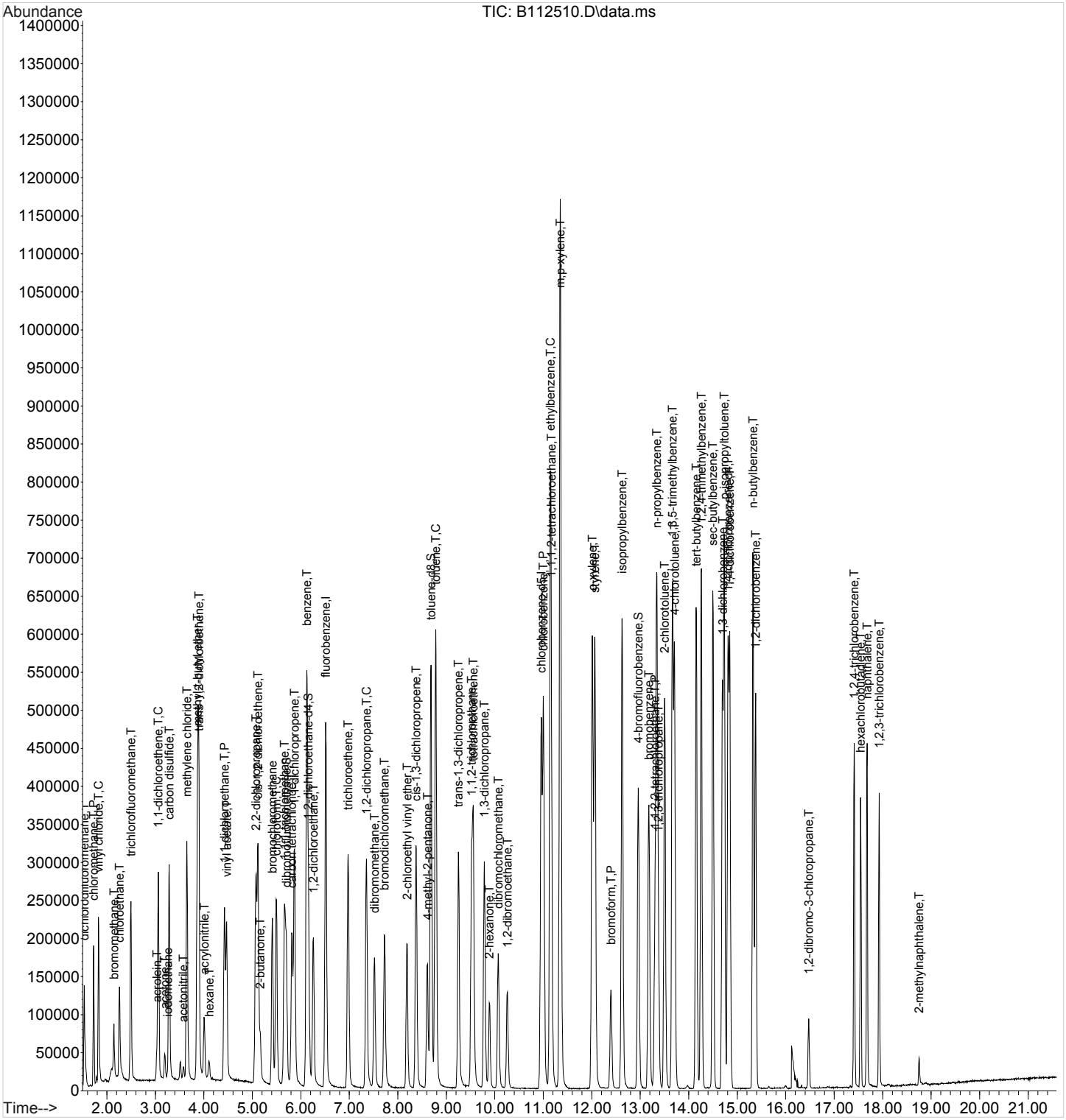
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) tetrachloroethene	9.554	164	122436	55.99	ug/L	97
52) trans-1,3-dichloropropene	9.250	75	239293	52.72	ug/L	99
53) 2-hexanone	9.888	43	110518	45.95	ug/L	99
54) dibromochloromethane	10.071	129	144033	53.04	ug/L	98
55) 1,2-dibromoethane	10.259	107	135964	52.91	ug/L	96
56) chlorobenzene	11.001	112	398198	54.64	ug/L	99
57) 1,1,1,2-tetrachloroethane	11.165	131	139267	53.17	ug/L	97
58) ethylbenzene	11.147	91	698641	53.32	ug/L	100
59) m,p-xylene	11.348	106	537113	109.67	ug/L	98
61) o-xylene	12.011	106	257879	53.32	ug/L	99
62) styrene	12.065	104	457807	54.31	ug/L	99
63) isopropylbenzene	12.625	105	663683	55.98	ug/L	99
64) bromobenzene	13.178	156	168439	54.61	ug/L	99
65) bromoform	12.394	173	100068	51.39	ug/L	97
67) 1,2,3-trichloropropane	13.373	75	140910	48.76	ug/L	99
69) n-propylbenzene	13.336	91	776922	55.44	ug/L	100
70) 2-chlorotoluene	13.507	91	455797	54.87	ug/L	99
71) 4-chlorotoluene	13.707	91	529068	54.40	ug/L	97
72) 1,3,5-trimethylbenzene	13.665	105	536903	55.38	ug/L	100
74) 1,1,2,2-tetrachloroethane	13.306	83	168230	50.85	ug/L	99
75) tert-butylbenzene	14.157	119	455850	58.38	ug/L	99
76) sec-butylbenzene	14.498	105	659406	58.77	ug/L	99
77) 1,2,4-trimethylbenzene	14.261	105	539221	56.80	ug/L	100
78) 1,3-dichlorobenzene	14.699	146	301571	57.11	ug/L	98
79) p-isopropyltoluene	14.735	119	558632	58.12	ug/L	99
81) 1,4-dichlorobenzene	14.845	146	307193	56.90	ug/L	99
82) 1,2-dichlorobenzene	15.380	146	282929	56.16	ug/L	97
83) n-butylbenzene	15.325	91	493077	59.97	ug/L	99
84) 1,2-dibromo-3-chloropr...	16.474	75	27632	53.25	ug/L	90
85) 1,2,4-trichlorobenzene	17.411	180	159984	58.01	ug/L	97
86) hexachlorobutadiene	17.545	225	82598	59.60	ug/L	96
87) naphthalene	17.679	128	364892	55.43	ug/L	100
88) 1,2,3-trichlorobenzene	17.928	180	125912	59.81	ug/L	97
89) 2-methylnaphthalene	18.749	142	19601	13.49	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B112514\B112510.D Vial: 10
Acq On : 25 Nov 2014 4:38 pm Operator: jln
Sample : SEQ-ICV1 Inst : VOA2
Misc : 8260 meoh 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 17:05:19 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Tue Nov 25 16:05:51 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120302.D Vial: 1
Acq On : 3 Dec 2014 10:05 am Operator: jln
Sample : SEQ-CAL1 Inst : VOA2
Misc : 8260 soil 2ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:20 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	614154	50.00	ug/L	0.00
44) chlorobenzene-d5	10.957	117	439907	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	237935	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.702	113	135132	54.75	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 109.50%			
33) 1,2-dichloroethane-d4	6.158	65	167274	81.73	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 163.46%#			
47) toluene-d8	8.682	98	589870	48.03	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 96.06%			
66) 4-bromofluorobenzene	12.957	95	220627	60.22	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 120.44%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.531	85	5068	1.82	ug/L	90
3) chloromethane	1.731	50	8354	2.60	ug/L	91
4) 1,3-butadiene	1.859	39	7045	3.60	ug/L #	79
5) vinyl chloride	1.829	62	7347	2.10	ug/L	93
6) bromomethane	2.163	94	3025	1.31	ug/L	89
7) chloroethane	2.272	64	4771	2.20	ug/L	98
8) trichlorofluoromethane	2.504	101	7643	1.81	ug/L	92
9) acrolein	3.033	56	4631	80.30	ug/L	100
10) 1,1,2-trichloro-1,2,2-...	3.027	101	3150	1.66	ug/L	91
11) 1,1-dichloroethene	3.063	96	4146	1.88	ug/L #	80
12) acetone	3.191	43	6215	20.93	ug/L	94
13) iodomethane	3.252	142	2033	0.77	ug/L	82
14) carbon disulfide	3.288	76	19078	2.72	ug/L	99
15) methylene chloride	3.653	84	17849	3.36	ug/L #	80
16) acrylonitrile	4.006	53	16075	42.65	ug/L	94
17) trans-1,2-dichloroethene	3.896	96	5121	1.88	ug/L	97
18) methyl-t-butyl ether	3.872	73	14587	3.14	ug/L	88
19) acetonitrile	3.574	41	8159	62.34	ug/L #	91
20) hexane	4.109	57	45773	Below Cal		96
21) 1,1-dichloroethane	4.425	63	10394	2.37	ug/L	99
22) vinyl acetate	4.468	43	12736	4.73	ug/L	93
23) cis-1,2-dichloroethene	5.112	96	5451	1.86	ug/L #	80
24) 2,2-dichloropropane	5.082	77	7973	2.09	ug/L	99
25) 2-butanone	5.167	43	4017	8.91	ug/L #	89
26) methyl acrylate	5.234	55	4367	4.31	ug/L	96
27) bromochloromethane	5.410	128	2351	2.00	ug/L #	61
28) chloroform	5.489	83	8618	2.08	ug/L	99
30) 1,1,1-trichloroethane	5.666	97	7373	1.84	ug/L	93
31) cyclohexane	5.635	56	9716	2.20	ug/L #	81
32) carbon tetrachloride	5.818	117	5872	1.72	ug/L	93
34) benzene	6.122	78	22989	2.05	ug/L	96
35) 1,1-dichloropropene	5.873	75	7207	1.90	ug/L	93
36) 1,2-dichloroethane	6.256	62	6238	2.74	ug/L	97
37) trichloroethene	6.973	95	5209	1.77	ug/L #	79
38) ethyl acrylate	7.168	55	6851	4.39	ug/L	97
39) 1,2-dichloropropane	7.350	63	5763	2.40	ug/L	97
40) methyl methacrylate	7.484	41	5277	5.41	ug/L	86
41) dibromomethane	7.515	93	2443	2.30	ug/L	90
42) bromodichloromethane	7.721	83	6223	2.19	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120302.D Vial: 1
Acq On : 3 Dec 2014 10:05 am Operator: jln
Sample : SEQ-CAL1 Inst : VOA2
Misc : 8260 soil 2ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:20 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

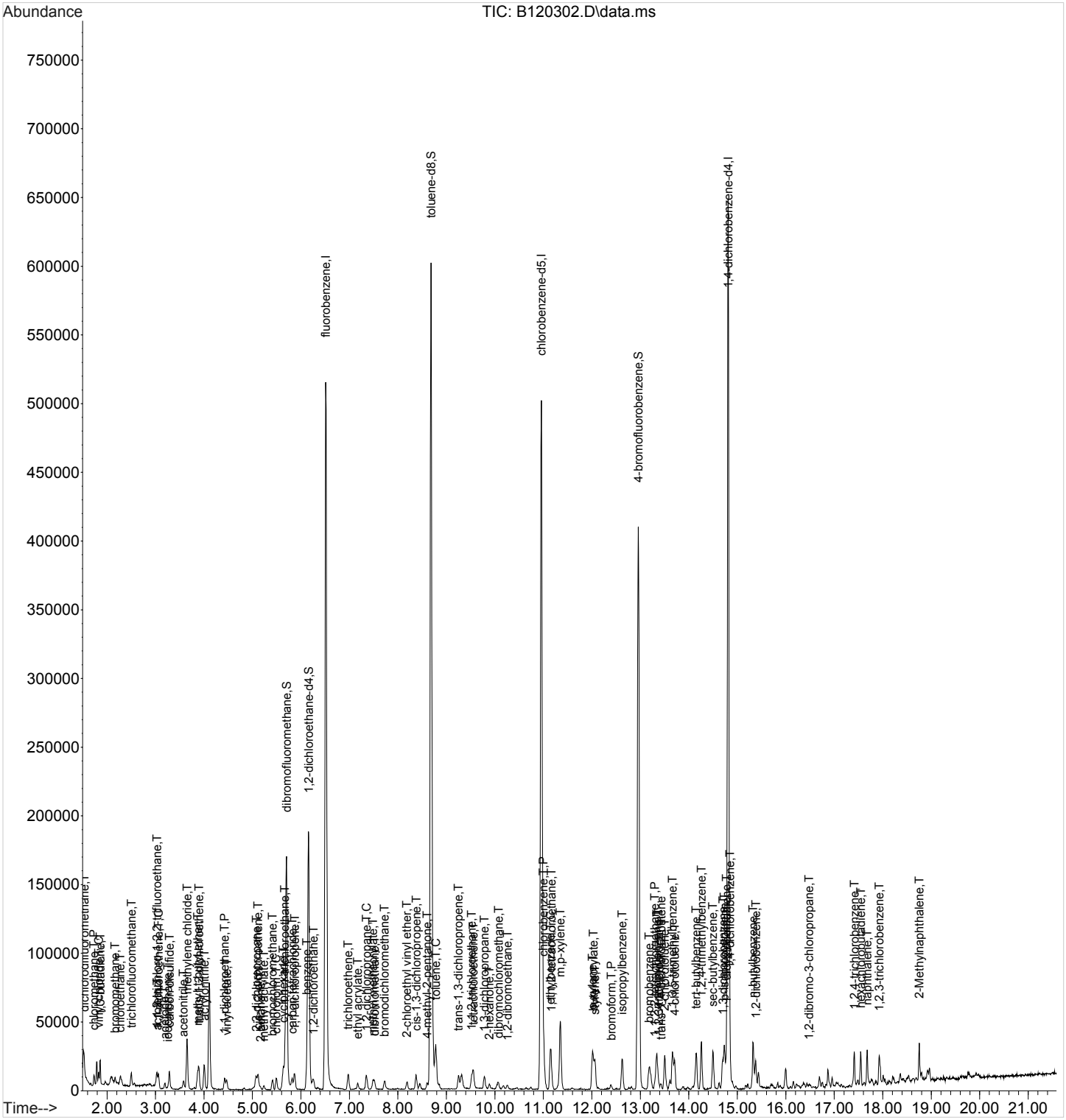
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.184	63	3116	3.33 ug/L	96
45) cis-1,3-dichloropropene	8.378	75	8588	2.29 ug/L	92
46) 4-methyl-2-pentanone	8.603	43	5147	4.67 ug/L #	78
48) toluene	8.779	92	16664	2.10 ug/L	95
49) 1,1,2-trichloroethane	9.521	83	3746	2.62 ug/L #	83
50) 1,3-dichloropropane	9.783	76	7742	2.59 ug/L	97
51) tetrachloroethene	9.552	164	4510	1.49 ug/L	90
52) trans-1,3-dichloropropene	9.248	75	7551	2.54 ug/L #	66
53) 2-hexanone	9.886	43	3774	5.21 ug/L	81
54) dibromochloromethane	10.075	129	4350	2.24 ug/L	100
55) 1,2-dibromoethane	10.257	107	3900	2.44 ug/L #	92
56) chlorobenzene	10.999	112	14728	1.77 ug/L	86
57) 1,1,1,2-tetrachloroethane	11.163	131	4607	1.73 ug/L	94
58) ethylbenzene	11.145	91	27714	1.91 ug/L	92
59) m,p-xylene	11.346	106	22437	3.92 ug/L	99
60) butyl acrylate	12.027	55	9210	3.60 ug/L	88
61) o-xylene	12.009	106	10080	1.86 ug/L	90
62) styrene	12.063	104	15326	1.86 ug/L	93
63) isopropylbenzene	12.623	105	25349	1.77 ug/L	95
64) bromobenzene	13.182	156	5843	1.75 ug/L	96
65) bromoform	12.398	173	2760	2.46 ug/L	92
67) 1,2,3-trichloropropane	13.377	110	1359	2.71 ug/L #	59
68) trans-1,4-dichloro-2-b...	13.432	89	782	6.14 ug/L #	62
69) n-propylbenzene	13.340	91	32140	1.99 ug/L	93
70) 2-chlorotoluene	13.505	91	18300	2.03 ug/L	96
71) 4-chlorotoluene	13.705	91	20175	1.98 ug/L	91
72) 1,3,5-trimethylbenzene	13.663	105	22115	2.02 ug/L	99
74) 1,1,2,2-tetrachloroethane	13.298	83	4920	2.42 ug/L	95
75) tert-butylbenzene	14.149	119	17682	1.51 ug/L	98
76) sec-butylbenzene	14.496	105	27291	1.61 ug/L	96
77) 1,2,4-trimethylbenzene	14.259	105	27307	2.25 ug/L	98
78) 1,3-dichlorobenzene	14.703	146	12015	1.68 ug/L	93
79) p-isopropyltoluene	14.733	119	24021	1.70 ug/L	99
80) dicyclopentadiene	14.776	66	30779	2.07 ug/L	94
81) 1,4-dichlorobenzene	14.849	146	12388	1.74 ug/L	92
82) 1,2-dichlorobenzene	15.384	146	10235	1.67 ug/L	95
83) n-butylbenzene	15.323	91	22614	1.94 ug/L	96
84) 1,2-dibromo-3-chloropr...	16.478	75	719	3.12 ug/L #	84
85) 1,2,4-trichlorobenzene	17.415	180	8819	2.18 ug/L	93
86) hexachlorobutadiene	17.549	225	5124	1.70 ug/L	98
87) naphthalene	17.676	128	19254	3.26 ug/L	100
88) 1,2,3-trichlorobenzene	17.926	180	7664	2.30 ug/L	93
89) 2-Methylnaphthalene	18.753	142	13815	5.77 ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120302.D Vial: 1
Acq On : 3 Dec 2014 10:05 am Operator: jln
Sample : SEQ-CAL1 Inst : VOA2
Misc : 8260 soil 2ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:20 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120303.D Vial: 2
Acq On : 3 Dec 2014 10:41 am Operator: jln
Sample : SEQ-CAL2 Inst : VOA2
Misc : 8260 soil 5ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:28 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	579938	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	402436	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	196194	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.702	113	126774	54.39	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 108.78%			
33) 1,2-dichloroethane-d4	6.158	65	156194	80.82	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 161.64%			
47) toluene-d8	8.682	98	557028	49.58	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 99.16%			
66) 4-bromofluorobenzene	12.957	95	194228	57.95	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 115.90%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.536	85	12423	4.73	ug/L	91
3) chloromethane	1.731	50	19502	6.43	ug/L	97
4) 1,3-butadiene	1.859	39	16334	8.83	ug/L	87
5) vinyl chloride	1.828	62	19841	6.01	ug/L	94
6) bromomethane	2.169	94	6633	3.05	ug/L	90
7) chloroethane	2.272	64	12367	6.05	ug/L	98
8) trichlorofluoromethane	2.503	101	20985	5.26	ug/L	99
9) acrolein	3.032	56	11993	158.98	ug/L	96
10) 1,1,2-trichloro-1,2,2-...	3.020	101	8486	4.75	ug/L	88
11) 1,1-dichloroethene	3.063	96	11128	5.34	ug/L #	79
12) acetone	3.190	43	10164	38.02	ug/L	94
13) iodomethane	3.245	142	7262	2.91	ug/L	97
14) carbon disulfide	3.288	76	45443	6.86	ug/L	99
15) methylene chloride	3.652	84	34829	11.49	ug/L #	79
16) acrylonitrile	4.005	53	46990	132.03	ug/L	96
17) trans-1,2-dichloroethene	3.896	96	13568	5.27	ug/L #	85
18) methyl-t-butyl ether	3.871	73	38912	8.87	ug/L	93
19) acetonitrile	3.580	41	23303	188.54	ug/L	95
20) hexane	4.109	57	77486	Below Cal		96
21) 1,1-dichloroethane	4.425	63	27087	6.54	ug/L	95
22) vinyl acetate	4.467	43	34461	13.55	ug/L	89
23) cis-1,2-dichloroethene	5.112	96	15130	5.47	ug/L #	81
24) 2,2-dichloropropane	5.076	77	21890	6.08	ug/L	93
25) 2-butanone	5.161	43	10907	25.76	ug/L	93
26) methyl acrylate	5.240	55	12988	13.57	ug/L	92
27) bromochloromethane	5.410	128	6370	5.74	ug/L #	55
28) chloroform	5.495	83	23602	6.03	ug/L	97
30) 1,1,1-trichloroethane	5.665	97	20286	5.36	ug/L	96
31) cyclohexane	5.635	56	28773	6.91	ug/L #	82
32) carbon tetrachloride	5.817	117	16706	5.19	ug/L	93
34) benzene	6.122	78	60808	5.76	ug/L	96
35) 1,1-dichloropropene	5.872	75	20580	5.74	ug/L	93
36) 1,2-dichloroethane	6.255	62	17096	7.94	ug/L	94
37) trichloroethene	6.973	95	14108	5.07	ug/L	89
38) ethyl acrylate	7.174	55	19569	13.29	ug/L	95
39) 1,2-dichloropropane	7.350	63	15804	6.98	ug/L	97
40) methyl methacrylate	7.490	41	13630	14.79	ug/L #	81
41) dibromomethane	7.520	93	6975	6.94	ug/L	83
42) bromodichloromethane	7.721	83	17262	6.44	ug/L	94

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120303.D Vial: 2
Acq On : 3 Dec 2014 10:41 am Operator: jln
Sample : SEQ-CAL2 Inst : VOA2
Misc : 8260 soil 5ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:28 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

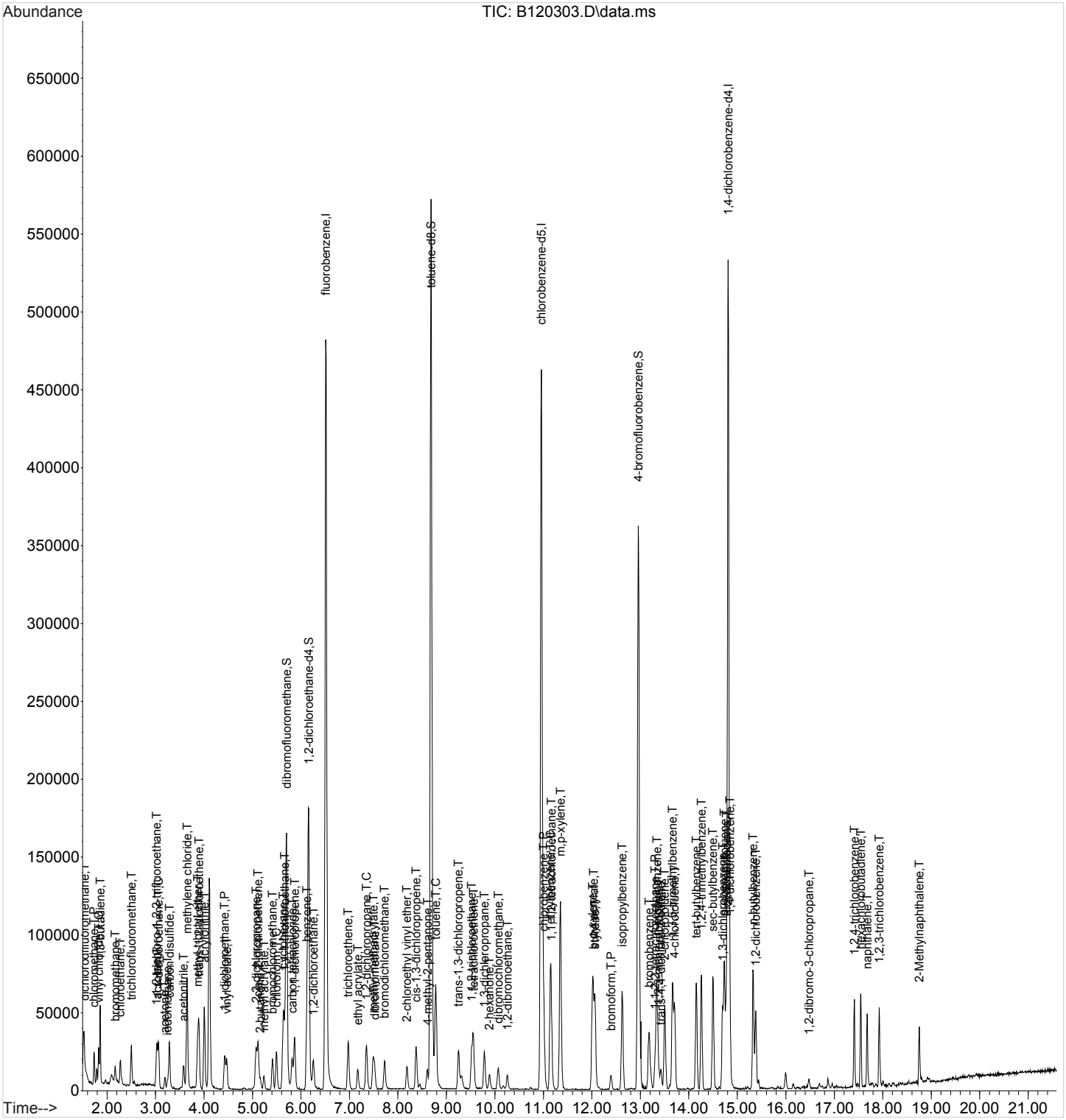
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.183	63	8956	10.13 ug/L #	89
45) cis-1,3-dichloropropene	8.372	75	22781	6.63 ug/L	87
46) 4-methyl-2-pentanone	8.609	43	14213	14.10 ug/L	88
48) toluene	8.779	92	39279	5.41 ug/L	95
49) 1,1,2-trichloroethane	9.521	83	9625	7.35 ug/L	97
50) 1,3-dichloropropane	9.782	76	20131	7.36 ug/L	95
51) tetrachloroethene	9.557	164	12698	4.58 ug/L	97
52) trans-1,3-dichloropropene	9.247	75	20098	7.38 ug/L #	82
53) 2-hexanone	9.886	43	10545	15.91 ug/L	84
54) dibromochloromethane	10.068	129	11067	6.22 ug/L	90
55) 1,2-dibromoethane	10.257	107	10427	7.12 ug/L	93
56) chlorobenzene	11.005	112	38924	5.12 ug/L	92
57) 1,1,1,2-tetrachloroethane	11.163	131	12514	5.13 ug/L	97
58) ethylbenzene	11.145	91	71188	5.37 ug/L	93
59) m,p-xylene	11.351	106	55224	10.56 ug/L	95
60) butyl acrylate	12.033	55	27302	11.66 ug/L	95
61) o-xylene	12.014	106	26025	5.26 ug/L	93
62) styrene	12.063	104	42160	5.60 ug/L	92
63) isopropylbenzene	12.622	105	67048	5.12 ug/L	95
64) bromobenzene	13.182	156	15627	5.12 ug/L #	84
65) bromoform	12.391	173	7451	7.27 ug/L	93
67) 1,2,3-trichloropropane	13.370	110	3717	8.11 ug/L	92
68) trans-1,4-dichloro-2-b...	13.425	89	2362	11.72 ug/L #	71
69) n-propylbenzene	13.340	91	82296	5.58 ug/L	93
70) 2-chlorotoluene	13.504	91	46754	5.67 ug/L	93
71) 4-chlorotoluene	13.699	91	53617	5.75 ug/L	93
72) 1,3,5-trimethylbenzene	13.662	105	55106	5.51 ug/L	92
74) 1,1,2,2-tetrachloroethane	13.304	83	14095	8.42 ug/L	90
75) tert-butylbenzene	14.155	119	47779	4.95 ug/L	92
76) sec-butylbenzene	14.496	105	71738	5.14 ug/L	97
77) 1,2,4-trimethylbenzene	14.258	105	57977	5.80 ug/L	97
78) 1,3-dichlorobenzene	14.696	146	30312	5.14 ug/L	99
79) p-isopropyltoluene	14.733	119	60152	5.17 ug/L	97
80) dicyclopentadiene	14.775	66	77772	6.36 ug/L	93
81) 1,4-dichlorobenzene	14.848	146	30357	5.17 ug/L	97
82) 1,2-dichlorobenzene	15.377	146	26958	5.34 ug/L	95
83) n-butylbenzene	15.323	91	55934	5.83 ug/L	97
84) 1,2-dibromo-3-chloropr...	16.478	75	2055	10.80 ug/L #	52
85) 1,2,4-trichlorobenzene	17.415	180	20445	6.14 ug/L	93
86) hexachlorobutadiene	17.548	225	13265	5.35 ug/L	97
87) naphthalene	17.676	128	39853	8.18 ug/L	100
88) 1,2,3-trichlorobenzene	17.925	180	17771	6.47 ug/L	94
89) 2-Methylnaphthalene	18.752	142	21121	10.71 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120303.D Vial: 2
Acq On : 3 Dec 2014 10:41 am Operator: jln
Sample : SEQ-CAL2 Inst : VOA2
Misc : 8260 soil 5ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:28 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120304.D Vial: 3
Acq On : 3 Dec 2014 11:10 am Operator: jln
Sample : SEQ-CAL3 Inst : VOA2
Misc : 8260 soil 10ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:16:42 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.510	96	638021	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	444595	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.811	152	213312	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.695	113	140161	54.66	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 109.32%			
33) 1,2-dichloroethane-d4	6.158	65	173107	81.42	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 162.84%#			
47) toluene-d8	8.681	98	620731	50.01	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 100.02%			
66) 4-bromofluorobenzene	12.957	95	209485	56.57	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 113.14%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.530	85	24360	8.44	ug/L	90
3) chloromethane	1.730	50	37338	11.18	ug/L	97
4) 1,3-butadiene	1.858	39	29875	14.68	ug/L #	83
5) vinyl chloride	1.828	62	36906	10.16	ug/L	98
6) bromomethane	2.168	94	12347	5.17	ug/L	99
7) chloroethane	2.272	64	23669	10.52	ug/L	94
8) trichlorofluoromethane	2.503	101	40923	9.32	ug/L	97
9) acrolein	3.032	56	22161	243.14	ug/L	99
10) 1,1,2-trichloro-1,2,2-...	3.020	101	15390	7.83	ug/L	94
11) 1,1-dichloroethene	3.062	96	20500	8.95	ug/L #	82
12) acetone	3.196	43	11026	37.45	ug/L	94
13) iodomethane	3.251	142	14143	5.16	ug/L	96
14) carbon disulfide	3.287	76	80075	10.98	ug/L	98
15) methylene chloride	3.652	84	47038	15.07	ug/L #	75
16) acrylonitrile	4.005	53	80756	206.24	ug/L	95
17) trans-1,2-dichloroethene	3.895	96	24980	8.81	ug/L #	80
18) methyl-t-butyl ether	3.871	73	74939	15.52	ug/L	92
19) acetonitrile	3.579	41	33771	248.36	ug/L	93
20) hexane	4.108	57	97188	1.90	ug/L	94
21) 1,1-dichloroethane	4.431	63	50413	11.07	ug/L	99
22) vinyl acetate	4.467	43	67924	24.27	ug/L	89
23) cis-1,2-dichloroethene	5.118	96	28713	9.44	ug/L #	78
24) 2,2-dichloropropane	5.075	77	39093	9.86	ug/L	97
25) 2-butanone	5.154	43	14344	30.81	ug/L #	82
26) methyl acrylate	5.233	55	24342	23.13	ug/L	89
27) bromochloromethane	5.410	128	12119	9.92	ug/L #	64
28) chloroform	5.495	83	44715	10.39	ug/L	99
30) 1,1,1-trichloroethane	5.659	97	37861	9.09	ug/L	92
31) cyclohexane	5.635	56	52436	11.45	ug/L #	83
32) carbon tetrachloride	5.817	117	30407	8.59	ug/L	97
34) benzene	6.127	78	114443	9.85	ug/L	96
35) 1,1-dichloropropene	5.866	75	36510	9.26	ug/L	92
36) 1,2-dichloroethane	6.255	62	33818	14.28	ug/L	98
37) trichloroethene	6.973	95	25613	8.37	ug/L	96
38) ethyl acrylate	7.167	55	37212	22.96	ug/L	96
39) 1,2-dichloropropane	7.350	63	30576	12.27	ug/L	99
40) methyl methacrylate	7.483	41	26763	26.40	ug/L #	83
41) dibromomethane	7.514	93	13584	12.29	ug/L #	82
42) bromodichloromethane	7.727	83	33323	11.30	ug/L	93

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120304.D Vial: 3
Acq On : 3 Dec 2014 11:10 am Operator: jln
Sample : SEQ-CAL3 Inst : VOA2
Misc : 8260 soil 10ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:16:42 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

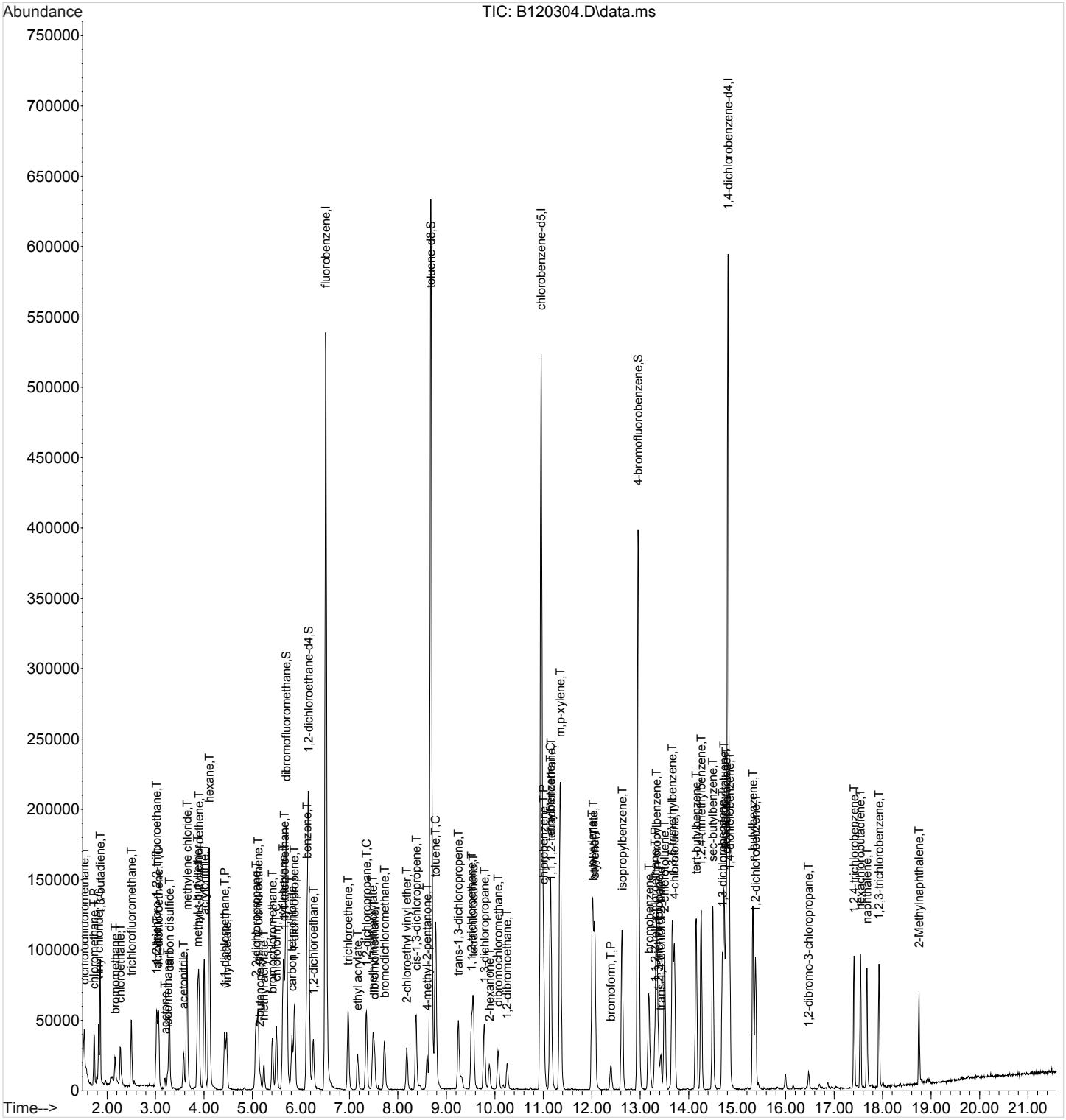
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.183	63	17823	18.32 ug/L #	91
45) cis-1,3-dichloropropene	8.377	75	44394	11.69 ug/L	85
46) 4-methyl-2-pentanone	8.602	43	26847	24.10 ug/L	95
48) toluene	8.779	92	71776	8.95 ug/L	96
49) 1,1,2-trichloroethane	9.521	83	18756	12.97 ug/L	93
50) 1,3-dichloropropane	9.788	76	40184	13.30 ug/L	97
51) tetrachloroethene	9.557	164	22065	7.21 ug/L	95
52) trans-1,3-dichloropropene	9.247	75	38451	12.78 ug/L #	88
53) 2-hexanone	9.892	43	19146	26.15 ug/L	85
54) dibromochloromethane	10.068	129	22487	11.43 ug/L	98
55) 1,2-dibromoethane	10.250	107	20212	12.49 ug/L #	93
56) chlorobenzene	11.004	112	72848	8.68 ug/L	94
57) 1,1,1,2-tetrachloroethane	11.163	131	24538	9.11 ug/L	98
58) ethylbenzene	11.144	91	130221	8.90 ug/L	93
59) m,p-xylene	11.351	106	98969	17.13 ug/L	97
60) butyl acrylate	12.032	55	52379	20.25 ug/L	96
61) o-xylene	12.008	106	48807	8.92 ug/L	92
62) styrene	12.063	104	79734	9.58 ug/L	96
63) isopropylbenzene	12.628	105	121452	8.40 ug/L	96
64) bromobenzene	13.182	156	29925	8.88 ug/L #	82
65) bromoform	12.391	173	14321	12.64 ug/L	100
67) 1,2,3-trichloropropane	13.376	110	7624	15.05 ug/L	89
68) trans-1,4-dichloro-2-b...	13.425	89	4764	18.33 ug/L	90
69) n-propylbenzene	13.334	91	146636	9.00 ug/L	98
70) 2-chlorotoluene	13.498	91	85789m2	9.41 ug/L	
71) 4-chlorotoluene	13.705	91	99392	9.64 ug/L	91
72) 1,3,5-trimethylbenzene	13.662	105	97890	8.86 ug/L	96
74) 1,1,2,2-tetrachloroethane	13.303	83	26907	14.78 ug/L	95
75) tert-butylbenzene	14.155	119	85539	8.15 ug/L	95
76) sec-butylbenzene	14.495	105	127413	8.40 ug/L	97
77) 1,2,4-trimethylbenzene	14.258	105	99988	9.21 ug/L	97
78) 1,3-dichlorobenzene	14.696	146	54697	8.53 ug/L	96
79) p-isopropyltoluene	14.732	119	106489	8.42 ug/L	98
80) dicyclopentadiene	14.775	66	138700	10.43 ug/L	93
81) 1,4-dichlorobenzene	14.848	146	56240	8.80 ug/L	97
82) 1,2-dichlorobenzene	15.377	146	50868	9.26 ug/L	97
83) n-butylbenzene	15.322	91	95551	9.16 ug/L	94
84) 1,2-dibromo-3-chloropr...	16.472	75	4081	19.73 ug/L #	64
85) 1,2,4-trichlorobenzene	17.414	180	34746	9.59 ug/L	99
86) hexachlorobutadiene	17.542	225	20848	7.73 ug/L	98
87) naphthalene	17.676	128	71791	13.56 ug/L	100
88) 1,2,3-trichlorobenzene	17.925	180	30653	10.26 ug/L	95
89) 2-Methylnaphthalene	18.752	142	33709	15.72 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120304.D Vial: 3
Acq On : 3 Dec 2014 11:10 am Operator: jln
Sample : SEQ-CAL3 Inst : VOA2
Misc : 8260 soil 10ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:16:42 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120305.D Vial: 4
Acq On : 3 Dec 2014 11:39 am Operator: jln
Sample : SEQ-CAL4 Inst : VOA2
Misc : 8260 soil 20ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:44 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.512	96	625193	50.00	ug/L		0.00
44) chlorobenzene-d5	10.957	117	432571	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.813	152	209648	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.697	113	137879	54.87	ug/L		0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 109.74%				
33) 1,2-dichloroethane-d4	6.153	65	167882	80.58	ug/L		0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 161.16%				
47) toluene-d8	8.683	98	605284	50.12	ug/L		0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 100.24%				
66) 4-bromofluorobenzene	12.958	95	207339	57.55	ug/L		0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 115.10%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.531	85	44306	15.66	ug/L		99
3) chloromethane	1.732	50	69088	21.12	ug/L		99
4) 1,3-butadiene	1.859	39	59560	29.87	ug/L	#	84
5) vinyl chloride	1.829	62	69934	19.65	ug/L		98
6) bromomethane	2.164	94	22856	9.76	ug/L		98
7) chloroethane	2.273	64	44707	20.28	ug/L		95
8) trichlorofluoromethane	2.498	101	76264	17.73	ug/L		100
9) acrolein	3.027	56	45309	469.13	ug/L		99
10) 1,1,2-trichloro-1,2,2-...	3.021	101	29772	15.45	ug/L		87
11) 1,1-dichloroethene	3.064	96	38474	17.14	ug/L	#	79
12) acetone	3.191	43	16822	59.66	ug/L		98
13) iodomethane	3.252	142	32534	12.11	ug/L		93
14) carbon disulfide	3.283	76	149805	20.97	ug/L		100
15) methylene chloride	3.647	84	72292	26.05	ug/L	#	75
16) acrylonitrile	4.006	53	172855	450.51	ug/L		99
17) trans-1,2-dichloroethene	3.897	96	47064	16.94	ug/L	#	84
18) methyl-t-butyl ether	3.872	73	147420	31.16	ug/L		93
19) acetonitrile	3.574	41	75830	569.12	ug/L		98
20) hexane	4.110	57	134013	10.58	ug/L		96
21) 1,1-dichloroethane	4.426	63	97480	21.84	ug/L		99
22) vinyl acetate	4.468	43	130659	47.65	ug/L		88
23) cis-1,2-dichloroethene	5.119	96	55189	18.52	ug/L	#	86
24) 2,2-dichloropropane	5.077	77	75674	19.49	ug/L		98
25) 2-butanone	5.156	43	26253	57.61	ug/L	#	84
26) methyl acrylate	5.235	55	48633	47.15	ug/L		91
27) bromochloromethane	5.411	128	24072	20.11	ug/L	#	64
28) chloroform	5.496	83	86056	20.41	ug/L		99
30) 1,1,1-trichloroethane	5.666	97	71729	17.58	ug/L		97
31) cyclohexane	5.636	56	102614	22.86	ug/L	#	83
32) carbon tetrachloride	5.818	117	58218	16.79	ug/L		97
34) benzene	6.122	78	216110	18.98	ug/L		96
35) 1,1-dichloropropene	5.867	75	70441	18.24	ug/L		94
36) 1,2-dichloroethane	6.256	62	65452	28.21	ug/L		97
37) trichloroethene	6.974	95	50593	16.87	ug/L		89
38) ethyl acrylate	7.168	55	71316	44.91	ug/L		96
39) 1,2-dichloropropane	7.351	63	59086	24.20	ug/L		95
40) methyl methacrylate	7.485	41	51317	51.66	ug/L	#	83
41) dibromomethane	7.515	93	27797	25.67	ug/L		87
42) bromodichloromethane	7.722	83	65576	22.69	ug/L		96

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120305.D Vial: 4
Acq On : 3 Dec 2014 11:39 am Operator: jln
Sample : SEQ-CAL4 Inst : VOA2
Misc : 8260 soil 20ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:44 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

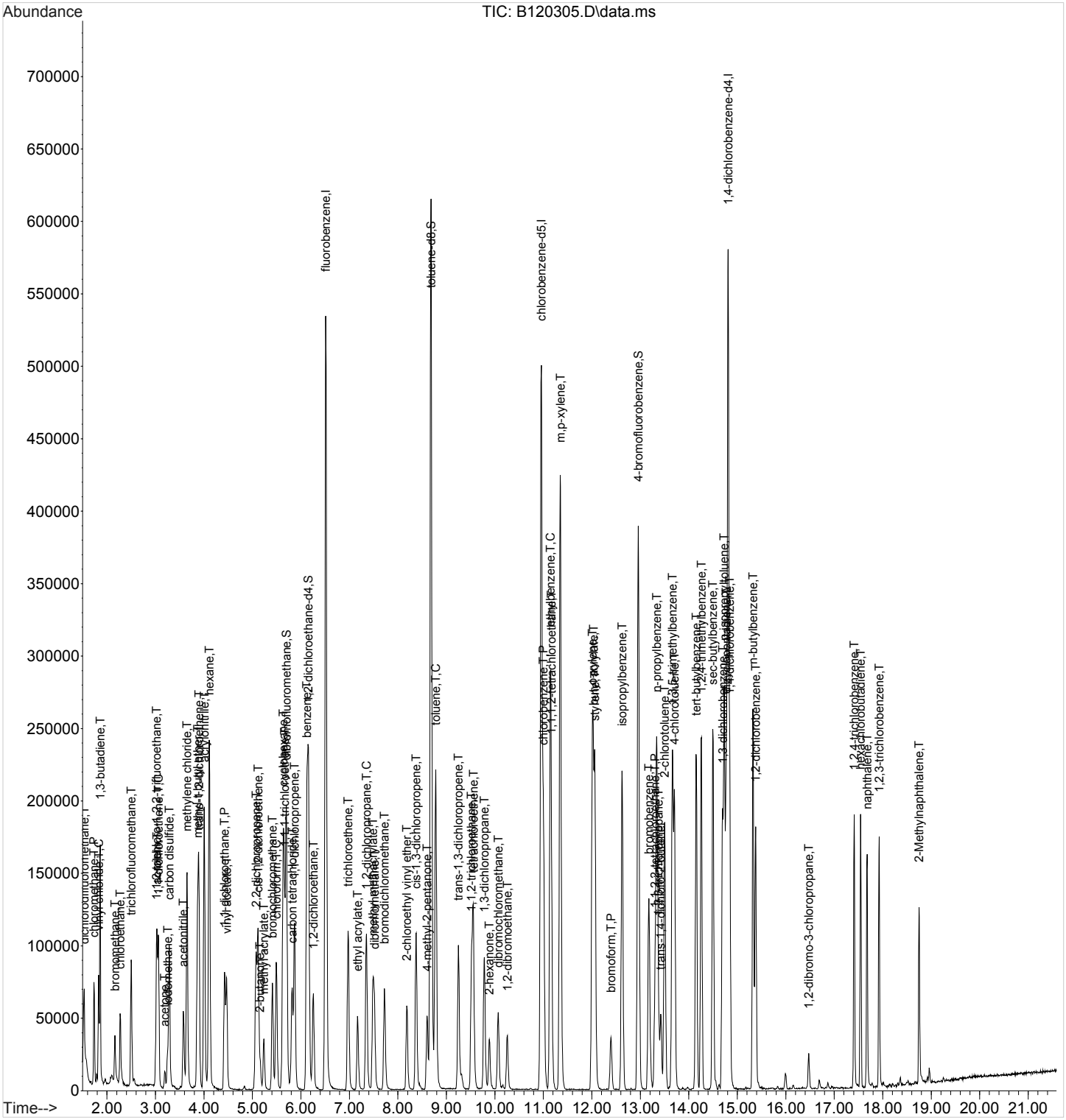
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) 2-chloroethyl vinyl ether	8.184	63	35546	37.28	ug/L		94
45) cis-1,3-dichloropropene	8.373	75	87134	23.58	ug/L		88
46) 4-methyl-2-pentanone	8.604	43	58372	53.87	ug/L		90
48) toluene	8.780	92	135486	17.37	ug/L		98
49) 1,1,2-trichloroethane	9.516	83	36878	26.21	ug/L		94
50) 1,3-dichloropropane	9.783	76	77880	26.49	ug/L		99
51) tetrachloroethene	9.558	164	42431	14.25	ug/L		96
52) trans-1,3-dichloropropene	9.248	75	76160	26.02	ug/L	#	89
53) 2-hexanone	9.887	43	37060	52.02	ug/L		93
54) dibromochloromethane	10.069	129	43992	22.99	ug/L		96
55) 1,2-dibromoethane	10.258	107	39218	24.91	ug/L		98
56) chlorobenzene	11.000	112	139384	17.07	ug/L		91
57) 1,1,1,2-tetrachloroethane	11.164	131	48167	18.39	ug/L		97
58) ethylbenzene	11.146	91	251350	17.65	ug/L		92
59) m,p-xylene	11.352	106	191929	34.14	ug/L		95
60) butyl acrylate	12.034	55	105316	41.84	ug/L		94
61) o-xylene	12.009	106	91843	17.26	ug/L		91
62) styrene	12.064	104	158450	19.57	ug/L		94
63) isopropylbenzene	12.623	105	233411	16.59	ug/L		94
64) bromobenzene	13.177	156	57742	17.61	ug/L	#	86
65) bromoform	12.392	173	28267	25.65	ug/L		99
67) 1,2,3-trichloropropane	13.371	110	14631	29.68	ug/L		94
68) trans-1,4-dichloro-2-b...	13.420	89	9751	34.46	ug/L	#	76
69) n-propylbenzene	13.335	91	282525	17.83	ug/L		96
70) 2-chlorotoluene	13.505	91	165153	18.62	ug/L		92
71) 4-chlorotoluene	13.700	91	191901	19.13	ug/L		89
72) 1,3,5-trimethylbenzene	13.663	105	190688	17.74	ug/L		96
74) 1,1,2,2-tetrachloroethane	13.305	83	52134	29.14	ug/L		96
75) tert-butylbenzene	14.156	119	163903	15.90	ug/L		93
76) sec-butylbenzene	14.496	105	247302	16.60	ug/L		98
77) 1,2,4-trimethylbenzene	14.259	105	189155	17.72	ug/L		98
78) 1,3-dichlorobenzene	14.697	146	105478	16.75	ug/L		96
79) p-isopropyltoluene	14.728	119	205961	16.57	ug/L		95
80) dicyclopentadiene	14.770	66	276304	21.14	ug/L		94
81) 1,4-dichlorobenzene	14.843	146	107496	17.12	ug/L		97
82) 1,2-dichlorobenzene	15.378	146	97367	18.03	ug/L		98
83) n-butylbenzene	15.324	91	184564	18.00	ug/L		96
84) 1,2-dibromo-3-chloropr...	16.473	75	8072	39.70	ug/L	#	56
85) 1,2,4-trichlorobenzene	17.409	180	65194	18.31	ug/L		98
86) hexachlorobutadiene	17.543	225	39631	14.96	ug/L		96
87) naphthalene	17.677	128	136955	26.32	ug/L		100
88) 1,2,3-trichlorobenzene	17.926	180	58064	19.77	ug/L		96
89) 2-Methylnaphthalene	18.747	142	64373	30.54	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120305.D Vial: 4
Acq On : 3 Dec 2014 11:39 am Operator: jln
Sample : SEQ-CAL4 Inst : VOA2
Misc : 8260 soil 20ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:44 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120306.D Vial: 5
Acq On : 3 Dec 2014 12:08 pm Operator: jln
Sample : SEQ-CAL5 Inst : VOA2
Misc : 8260 soil 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:51 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.510	96	614195	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	428569	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.811	152	210437	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.701	113	134761	54.59	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 109.18%			
33) 1,2-dichloroethane-d4	6.158	65	163333	79.80	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 159.60%			
47) toluene-d8	8.681	98	596178	49.83	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 99.66%			
66) 4-bromofluorobenzene	12.956	95	206644	57.89	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 115.78%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.530	85	109235	39.30	ug/L	99
3) chloromethane	1.730	50	171571	53.38	ug/L	98
4) 1,3-butadiene	1.858	39	145896	74.47	ug/L #	82
5) vinyl chloride	1.828	62	172304	49.27	ug/L	98
6) bromomethane	2.150	94	52499	22.82	ug/L	98
7) chloroethane	2.272	64	111402	51.44	ug/L	96
8) trichlorofluoromethane	2.497	101	184741	43.71	ug/L	97
9) acrolein	3.032	56	128213	1285.21	ug/L	98
10) 1,1,2-trichloro-1,2,2-...	3.020	101	72350	38.22	ug/L	91
11) 1,1-dichloroethene	3.062	96	101621	46.07	ug/L #	77
12) acetone	3.196	43	42745	158.15	ug/L	90
13) iodomethane	3.251	142	102479	38.84	ug/L	95
14) carbon disulfide	3.281	76	391552	55.79	ug/L	99
15) methylene chloride	3.652	84	155997	62.32	ug/L #	78
16) acrylonitrile	4.005	53	471991	1252.18	ug/L	99
17) trans-1,2-dichloroethene	3.895	96	124181	45.50	ug/L #	81
18) methyl-t-butyl ether	3.871	73	407258	87.62	ug/L	95
19) acetonitrile	3.579	41	205586	1570.61	ug/L	98
20) hexane	4.108	57	248806	37.27	ug/L	97
21) 1,1-dichloroethane	4.424	63	258206	58.88	ug/L	97
22) vinyl acetate	4.467	43	364525	135.33	ug/L	88
23) cis-1,2-dichloroethene	5.118	96	147818	50.50	ug/L #	86
24) 2,2-dichloropropane	5.075	77	196567	51.53	ug/L	99
25) 2-butanone	5.154	43	70397	157.38	ug/L #	89
26) methyl acrylate	5.233	55	135563	133.79	ug/L	90
27) bromochloromethane	5.410	128	64649	54.97	ug/L #	65
28) chloroform	5.495	83	228840	55.24	ug/L	98
30) 1,1,1-trichloroethane	5.665	97	187208	46.70	ug/L	97
31) cyclohexane	5.635	56	256436	58.15	ug/L #	83
32) carbon tetrachloride	5.817	117	155587	45.68	ug/L	99
34) benzene	6.127	78	577160	51.59	ug/L	97
35) 1,1-dichloropropene	5.866	75	182414	48.07	ug/L	93
36) 1,2-dichloroethane	6.255	62	175863	77.15	ug/L	98
37) trichloroethene	6.972	95	131471	44.63	ug/L	90
38) ethyl acrylate	7.167	55	205654	131.83	ug/L	97
39) 1,2-dichloropropane	7.349	63	157541	65.67	ug/L	98
40) methyl methacrylate	7.483	41	143877	147.44	ug/L	85
41) dibromomethane	7.514	93	75499	70.97	ug/L #	84
42) bromodichloromethane	7.726	83	180531	63.58	ug/L	97

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120306.D Vial: 5
Acq On : 3 Dec 2014 12:08 pm Operator: jln
Sample : SEQ-CAL5 Inst : VOA2
Misc : 8260 soil 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:51 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

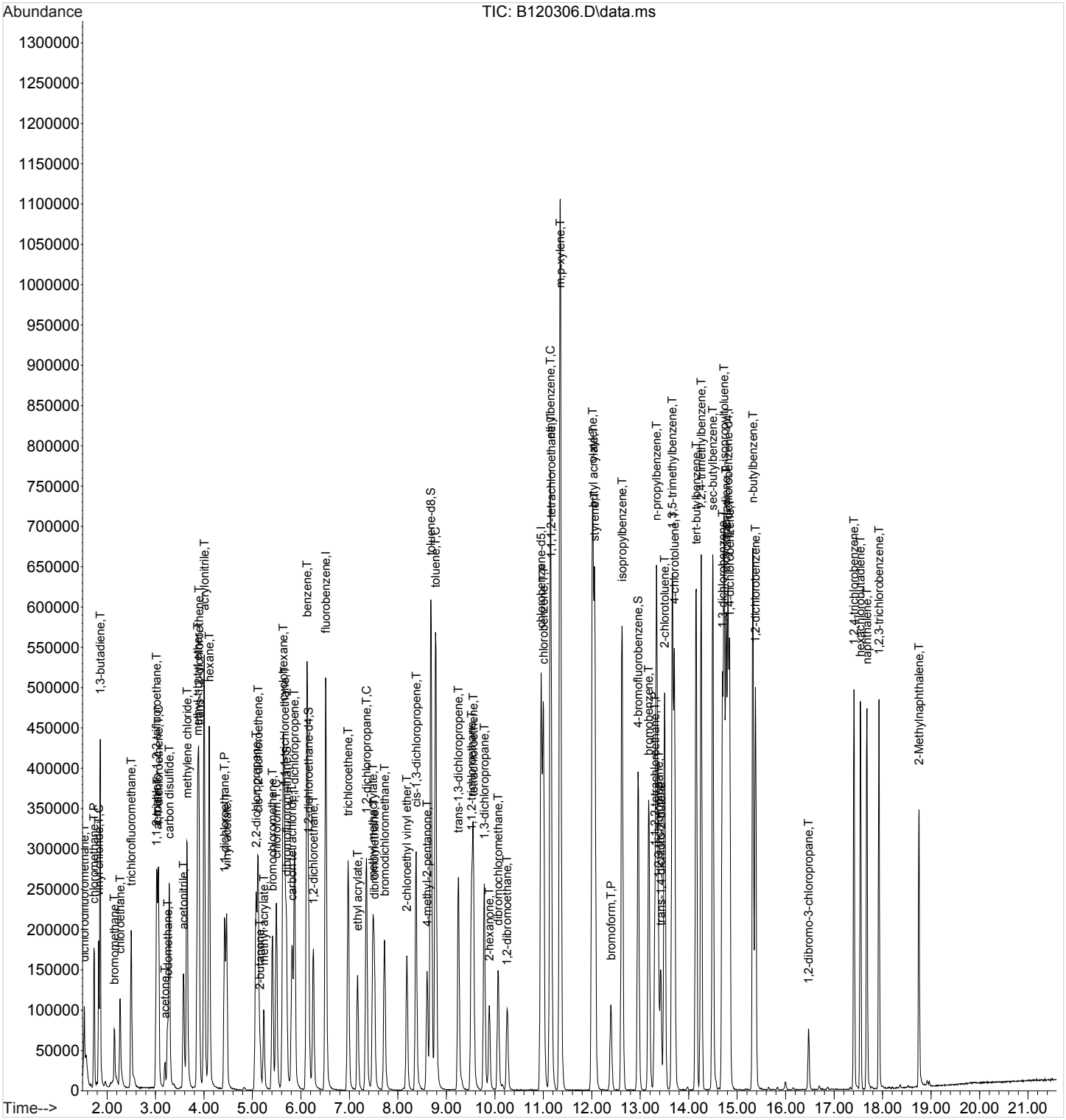
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.183	63	99893	106.65 ug/L #	92
45) cis-1,3-dichloropropene	8.377	75	241380	65.94 ug/L	87
46) 4-methyl-2-pentanone	8.602	43	158760	147.87 ug/L	89
48) toluene	8.779	92	355266	45.96 ug/L	97
49) 1,1,2-trichloroethane	9.520	83	101176	72.59 ug/L	95
50) 1,3-dichloropropane	9.782	76	215168	73.86 ug/L	100
51) tetrachloroethene	9.557	164	108954	36.93 ug/L	97
52) trans-1,3-dichloropropene	9.247	75	212686	73.34 ug/L #	87
53) 2-hexanone	9.885	43	109041	154.50 ug/L	89
54) dibromochloromethane	10.068	129	125733	66.32 ug/L	97
55) 1,2-dibromoethane	10.250	107	110110	70.59 ug/L	97
56) chlorobenzene	11.004	112	371452	45.91 ug/L	91
57) 1,1,1,2-tetrachloroethane	11.162	131	131150	50.53 ug/L	96
58) ethylbenzene	11.144	91	662122	46.92 ug/L	96
59) m,p-xylene	11.351	106	501920	90.12 ug/L	94
60) butyl acrylate	12.032	55	304953	122.30 ug/L	95
61) o-xylene	12.014	106	246098	46.67 ug/L	93
62) styrene	12.062	104	426822	53.20 ug/L	94
63) isopropylbenzene	12.622	105	622443	44.66 ug/L	96
64) bromobenzene	13.175	156	156788	48.27 ug/L #	82
65) bromoform	12.397	173	82317	75.39 ug/L	99
67) 1,2,3-trichloropropane	13.376	110	41171	84.30 ug/L	95
68) trans-1,4-dichloro-2-b...	13.425	89	29826	98.65 ug/L #	79
69) n-propylbenzene	13.333	91	737103	46.94 ug/L	96
70) 2-chlorotoluene	13.504	91	431941	49.15 ug/L	92
71) 4-chlorotoluene	13.704	91	508890	51.20 ug/L	93
72) 1,3,5-trimethylbenzene	13.662	105	508171	47.70 ug/L	97
74) 1,1,2,2-tetrachloroethane	13.303	83	149627	83.32 ug/L	98
75) tert-butylbenzene	14.154	119	438085	42.33 ug/L	95
76) sec-butylbenzene	14.495	105	651059	43.53 ug/L	96
77) 1,2,4-trimethylbenzene	14.258	105	509472	47.56 ug/L	98
78) 1,3-dichlorobenzene	14.696	146	284080	44.93 ug/L	97
79) p-isopropyltoluene	14.732	119	544225	43.63 ug/L	96
80) dicyclopentadiene	14.769	66	689740	52.57 ug/L	94
81) 1,4-dichlorobenzene	14.848	146	288076	45.71 ug/L	98
82) 1,2-dichlorobenzene	15.377	146	267451	49.35 ug/L	96
83) n-butylbenzene	15.322	91	481506	46.79 ug/L	96
84) 1,2-dibromo-3-chloropr...	16.471	75	23555	115.41 ug/L #	67
85) 1,2,4-trichlorobenzene	17.408	180	178240	49.88 ug/L	98
86) hexachlorobutadiene	17.542	225	105483	39.66 ug/L	99
87) naphthalene	17.676	128	390137	74.70 ug/L	100
88) 1,2,3-trichlorobenzene	17.925	180	158176	53.65 ug/L	99
89) 2-Methylnaphthalene	18.752	142	173860	82.17 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120306.D Vial: 5
Acq On : 3 Dec 2014 12:08 pm Operator: jln
Sample : SEQ-CAL5 Inst : VOA2
Misc : 8260 soil 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:51 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120307.D Vial: 6
Acq On : 3 Dec 2014 12:37 pm Operator: jln
Sample : SEQ-CAL6 Inst : VOA2
Misc : 8260 soil 70ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:58 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	633079	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	446078	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	220846	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.702	113	137767	54.15	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 108.30%			
33) 1,2-dichloroethane-d4	6.158	65	167273	79.29	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 158.58%			
47) toluene-d8	8.682	98	614394	49.33	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 98.66%			
66) 4-bromofluorobenzene	12.957	95	214503	57.74	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 115.48%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.530	85	151198	52.78	ug/L	99
3) chloromethane	1.731	50	244871	73.91	ug/L	99
4) 1,3-butadiene	1.858	39	197394	97.75	ug/L #	83
5) vinyl chloride	1.828	62	242524	67.29	ug/L	98
6) bromomethane	2.144	94	70540	29.74	ug/L	99
7) chloroethane	2.260	64	156643	70.17	ug/L	97
8) trichlorofluoromethane	2.497	101	259590	59.59	ug/L	99
9) acrolein	3.026	56	180392	1741.49	ug/L	97
10) 1,1,2-trichloro-1,2,2-...	3.014	101	99644	51.07	ug/L	89
11) 1,1-dichloroethene	3.056	96	139388	61.31	ug/L #	78
12) acetone	3.190	43	56414	203.17	ug/L	97
13) iodomethane	3.245	142	154209	56.70	ug/L	95
14) carbon disulfide	3.281	76	536928	74.23	ug/L	100
15) methylene chloride	3.646	84	204060	80.24	ug/L #	75
16) acrylonitrile	4.005	53	657372	1691.97	ug/L	99
17) trans-1,2-dichloroethene	3.896	96	170930	60.76	ug/L #	82
18) methyl-t-butyl ether	3.865	73	563399	117.60	ug/L	94
19) acetonitrile	3.579	41	290328	2151.85	ug/L	97
20) hexane	4.108	57	342094	56.20	ug/L	97
21) 1,1-dichloroethane	4.425	63	360494	79.75	ug/L	97
22) vinyl acetate	4.467	43	498354	179.49	ug/L	88
23) cis-1,2-dichloroethene	5.118	96	204698	67.84	ug/L #	85
24) 2,2-dichloropropane	5.075	77	277629	70.60	ug/L	97
25) 2-butanone	5.154	43	93458	202.72	ug/L #	87
26) methyl acrylate	5.233	55	179802	172.15	ug/L	92
27) bromochloromethane	5.410	128	89969	74.21	ug/L #	66
28) chloroform	5.495	83	315430	73.87	ug/L	98
30) 1,1,1-trichloroethane	5.665	97	260729	63.09	ug/L	96
31) cyclohexane	5.635	56	348688	76.71	ug/L #	83
32) carbon tetrachloride	5.817	117	211177	60.15	ug/L	99
34) benzene	6.121	78	799301	69.31	ug/L	96
35) 1,1-dichloropropene	5.866	75	249789	63.86	ug/L	93
36) 1,2-dichloroethane	6.255	62	243927	103.82	ug/L	96
37) trichloroethene	6.973	95	180747	59.53	ug/L	90
38) ethyl acrylate	7.167	55	275351	171.25	ug/L	97
39) 1,2-dichloropropane	7.350	63	219690	88.85	ug/L	100
40) methyl methacrylate	7.484	41	190945	189.84	ug/L	87
41) dibromomethane	7.514	93	103343	94.24	ug/L	85
42) bromodichloromethane	7.721	83	253597	86.65	ug/L	97

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120307.D Vial: 6
Acq On : 3 Dec 2014 12:37 pm Operator: jln
Sample : SEQ-CAL6 Inst : VOA2
Misc : 8260 soil 70ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:58 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

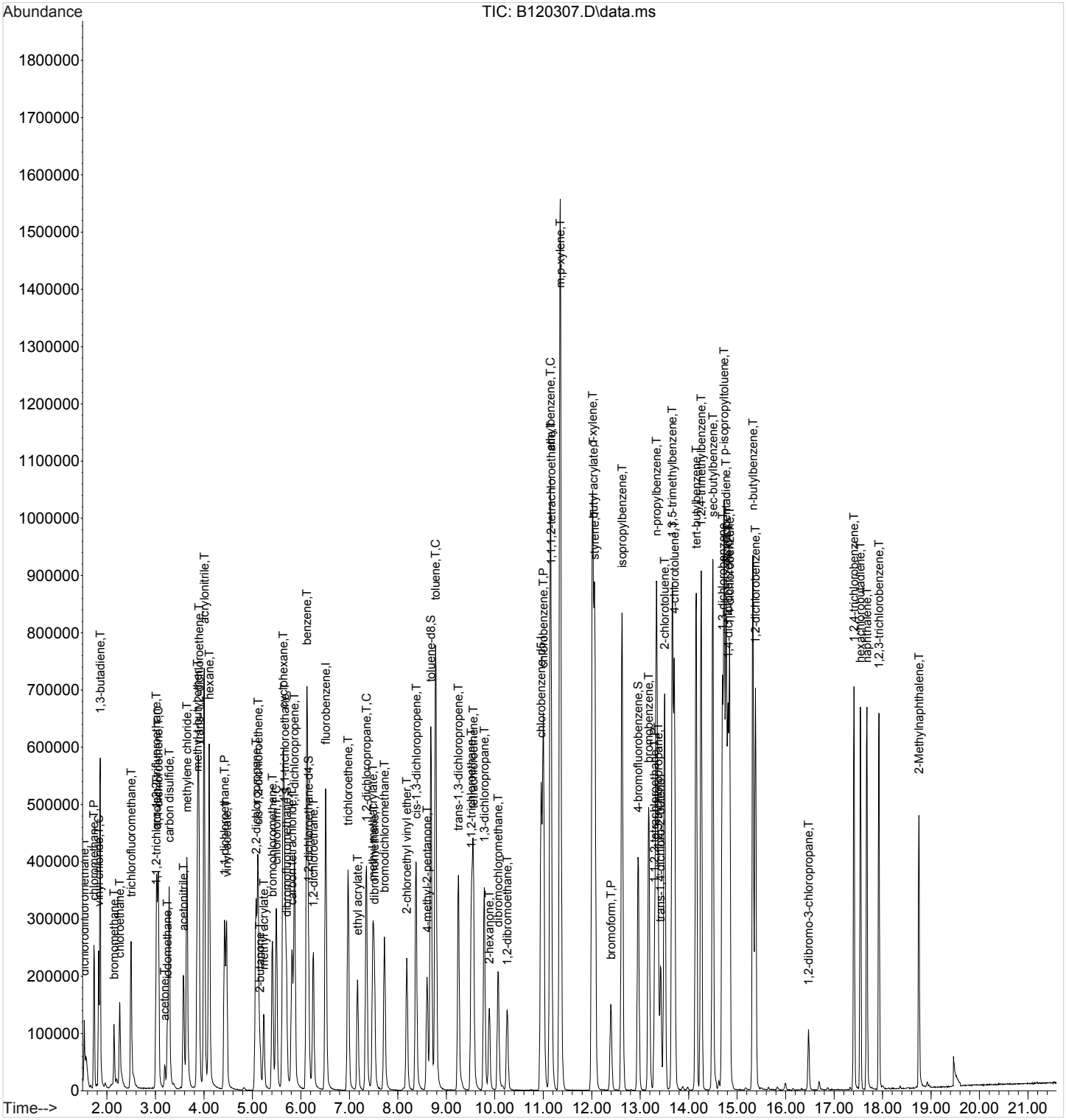
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.183	63	137935	142.87 ug/L #	93
45) cis-1,3-dichloropropene	8.378	75	336029	88.19 ug/L	86
46) 4-methyl-2-pentanone	8.603	43	212644	190.29 ug/L	88
48) toluene	8.779	92	492371	61.20 ug/L	99
49) 1,1,2-trichloroethane	9.515	83	138336	95.35 ug/L	95
50) 1,3-dichloropropane	9.782	76	296708	97.86 ug/L	99
51) tetrachloroethene	9.557	164	150071	48.87 ug/L	98
52) trans-1,3-dichloropropene	9.247	75	296551	98.25 ug/L #	89
53) 2-hexanone	9.886	43	148576	202.25 ug/L	91
54) dibromochloromethane	10.068	129	174112	88.24 ug/L	97
55) 1,2-dibromoethane	10.257	107	154486	95.15 ug/L	98
56) chlorobenzene	10.999	112	518390	61.56 ug/L	90
57) 1,1,1,2-tetrachloroethane	11.163	131	182297	67.48 ug/L	98
58) ethylbenzene	11.145	91	919788	62.63 ug/L	96
59) m,p-xylene	11.351	106	694701	119.83 ug/L	94
60) butyl acrylate	12.032	55	424141	163.42 ug/L	95
61) o-xylene	12.014	106	342372	62.38 ug/L	92
62) styrene	12.063	104	604988	72.45 ug/L	96
63) isopropylbenzene	12.622	105	869235	59.91 ug/L	96
64) bromobenzene	13.176	156	217954	64.47 ug/L #	80
65) bromoform	12.397	173	114581	100.81 ug/L	98
67) 1,2,3-trichloropropane	13.370	110	56744	111.63 ug/L	87
68) trans-1,4-dichloro-2-b...	13.419	89	41392	130.30 ug/L #	81
69) n-propylbenzene	13.334	91	1021631	62.51 ug/L	96
70) 2-chlorotoluene	13.504	91	605438	66.19 ug/L	93
71) 4-chlorotoluene	13.705	91	700710	67.74 ug/L	92
72) 1,3,5-trimethylbenzene	13.662	105	709305	63.97 ug/L	97
74) 1,1,2,2-tetrachloroethane	13.297	83	205696	109.14 ug/L	94
75) tert-butylbenzene	14.155	119	608739	56.04 ug/L	94
76) sec-butylbenzene	14.501	105	890136	56.71 ug/L	97
77) 1,2,4-trimethylbenzene	14.258	105	712085	63.34 ug/L	97
78) 1,3-dichlorobenzene	14.696	146	395196	59.56 ug/L	98
79) p-isopropyltoluene	14.733	119	752734	57.50 ug/L	96
80) dicyclopentadiene	14.769	66	987888	71.74 ug/L	94
81) 1,4-dichlorobenzene	14.848	146	402078	60.79 ug/L	98
82) 1,2-dichlorobenzene	15.377	146	374926	65.92 ug/L	96
83) n-butylbenzene	15.322	91	667825	61.84 ug/L	96
84) 1,2-dibromo-3-chloropr...	16.472	75	32265	150.64 ug/L #	67
85) 1,2,4-trichlorobenzene	17.408	180	247274	65.93 ug/L	98
86) hexachlorobutadiene	17.542	225	143412	51.37 ug/L	99
87) naphthalene	17.676	128	543051	99.08 ug/L	100
88) 1,2,3-trichlorobenzene	17.925	180	220498	71.27 ug/L	99
89) 2-Methylnaphthalene	18.752	142	246796	111.14 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120307.D Vial: 6
Acq On : 3 Dec 2014 12:37 pm Operator: jln
Sample : SEQ-CAL6 Inst : VOA2
Misc : 8260 soil 70ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:11:58 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120308.D Vial: 7
Acq On : 3 Dec 2014 1:06 pm Operator: jln
Sample : SEQ-CAL7 Inst : VOA2
Misc : 8260 soil 100ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:59:36 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.514	96	610569	50.00	ug/L	0.00
44) chlorobenzene-d5	10.953	117	435704	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.809	152	211277	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.699	113	135795	55.34	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 110.68%			
33) 1,2-dichloroethane-d4	6.155	65	161449	79.35	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 158.70%			
47) toluene-d8	8.679	98	596420	49.03	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 98.06%			
66) 4-bromofluorobenzene	12.954	95	207640	57.22	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 114.44%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.533	85	220354m3	79.75	ug/L	
3) chloromethane	1.734	50	352154	110.22	ug/L	97
4) 1,3-butadiene	1.856	39	284683	146.18	ug/L #	82
5) vinyl chloride	1.825	62	346561	99.70	ug/L	97
6) bromomethane	2.147	94	68762	30.06	ug/L	99
7) chloroethane	2.257	64	224459	104.26	ug/L	95
8) trichlorofluoromethane	2.494	101	370353	88.15	ug/L	99
9) acrolein	3.029	56	257316	2558.85	ug/L	97
10) 1,1,2-trichloro-1,2,2-...	3.017	101	144800	76.95	ug/L	92
11) 1,1-dichloroethene	3.060	96	200931	91.64	ug/L #	82
12) acetone	3.193	43	78615	294.64	ug/L	93
13) iodomethane	3.248	142	233653	89.08	ug/L	95
14) carbon disulfide	3.279	76	766101	109.81	ug/L	99
15) methylene chloride	3.650	84	283642	117.52	ug/L #	77
16) acrylonitrile	4.002	53	979401	2613.75	ug/L	99
17) trans-1,2-dichloroethene	3.893	96	246336	90.80	ug/L #	79
18) methyl-t-butyl ether	3.868	73	807738	174.82	ug/L	94
19) acetonitrile	3.577	41	403386	3100.04	ug/L	97
20) hexane	4.106	57	449241	83.55	ug/L	97
21) 1,1-dichloroethane	4.422	63	513359	117.76	ug/L	98
22) vinyl acetate	4.464	43	722289	269.74	ug/L	88
23) cis-1,2-dichloroethene	5.115	96	296056	101.73	ug/L #	85
24) 2,2-dichloropropane	5.073	77	394602	104.05	ug/L	96
25) 2-butanone	5.158	43	138664	311.91	ug/L #	88
26) methyl acrylate	5.237	55	262883	260.98	ug/L	92
27) bromochloromethane	5.413	128	131412	112.39	ug/L #	67
28) chloroform	5.492	83	461591	112.08	ug/L	99
30) 1,1,1-trichloroethane	5.662	97	373451	93.70	ug/L	97
31) cyclohexane	5.632	56	502389	114.59	ug/L #	83
32) carbon tetrachloride	5.814	117	308966	91.24	ug/L	99
34) benzene	6.125	78	1145026	102.95	ug/L	97
35) 1,1-dichloropropene	5.869	75	359360	95.26	ug/L	94
36) 1,2-dichloroethane	6.252	62	354840	156.59	ug/L	97
37) trichloroethene	6.976	95	262961	89.80	ug/L	90
38) ethyl acrylate	7.171	55	404509	260.85	ug/L	97
39) 1,2-dichloropropane	7.347	63	317708	133.22	ug/L	99
40) methyl methacrylate	7.481	41	281022	289.70	ug/L	85
41) dibromomethane	7.517	93	152193	143.90	ug/L	84
42) bromodichloromethane	7.724	83	369121	130.78	ug/L	98

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120308.D Vial: 7
Acq On : 3 Dec 2014 1:06 pm Operator: jln
Sample : SEQ-CAL7 Inst : VOA2
Misc : 8260 soil 100ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:59:36 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

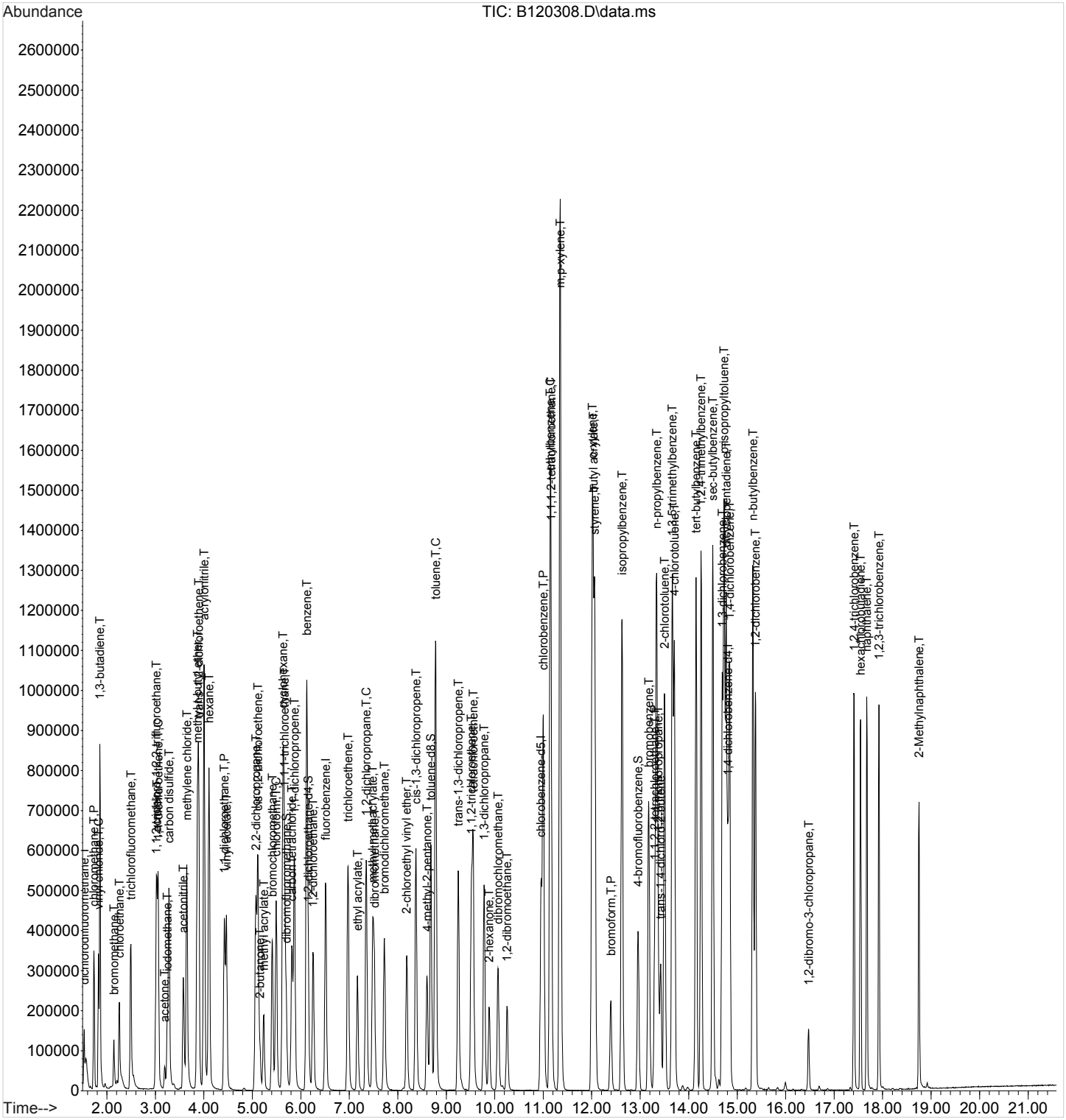
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.180	63	200686	215.53 ug/L #	93
45) cis-1,3-dichloropropene	8.375	75	488572	131.28 ug/L	88
46) 4-methyl-2-pentanone	8.606	43	308694	282.81 ug/L	89
48) toluene	8.782	92	705706	89.81 ug/L	99
49) 1,1,2-trichloroethane	9.518	83	202031	142.57 ug/L	95
50) 1,3-dichloropropane	9.780	76	430565	145.38 ug/L	99
51) tetrachloroethene	9.555	164	214783	71.60 ug/L	97
52) trans-1,3-dichloropropene	9.244	75	433643	147.09 ug/L #	88
53) 2-hexanone	9.883	43	214035	298.30 ug/L	91
54) dibromochloromethane	10.065	129	253991	131.78 ug/L	98
55) 1,2-dibromoethane	10.254	107	223591	140.99 ug/L	97
56) chlorobenzene	11.002	112	745353	90.62 ug/L	91
57) 1,1,1,2-tetrachloroethane	11.160	131	265381	100.57 ug/L	98
58) ethylbenzene	11.142	91	1319399	91.97 ug/L	96
59) m,p-xylene	11.349	106	999140	176.45 ug/L	92
60) butyl acrylate	12.030	55	620040	244.58 ug/L	96
61) o-xylene	12.011	106	497985	92.89 ug/L	93
62) styrene	12.060	104	869366	106.58 ug/L	96
63) isopropylbenzene	12.626	105	1246540	87.97 ug/L	96
64) bromobenzene	13.179	156	316615	95.88 ug/L #	85
65) bromoform	12.394	173	169564	152.74 ug/L	99
67) 1,2,3-trichloropropane	13.368	110	83056	167.28 ug/L	86
68) trans-1,4-dichloro-2-b...	13.422	89	60228	192.29 ug/L #	80
69) n-propylbenzene	13.337	91	1470116	92.09 ug/L	96
70) 2-chlorotoluene	13.501	91	871408	97.53 ug/L	92
71) 4-chlorotoluene	13.702	91	1009651	99.93 ug/L	91
72) 1,3,5-trimethylbenzene	13.659	105	1023347	94.49 ug/L	97
74) 1,1,2,2-tetrachloroethane	13.301	83	299447	166.08 ug/L	97
75) tert-butylbenzene	14.152	119	877751	84.47 ug/L	93
76) sec-butylbenzene	14.499	105	1293755	86.16 ug/L	96
77) 1,2,4-trimethylbenzene	14.255	105	1021124	94.94 ug/L	97
78) 1,3-dichlorobenzene	14.693	146	566843	89.30 ug/L	97
79) p-isopropyltoluene	14.730	119	1081140	86.32 ug/L	96
80) dicyclopentadiene	14.772	66	1446415	109.79 ug/L	94
81) 1,4-dichlorobenzene	14.845	146	574227	90.75 ug/L	98
82) 1,2-dichlorobenzene	15.374	146	536888	98.67 ug/L	98
83) n-butylbenzene	15.326	91	948149	91.77 ug/L	98
84) 1,2-dibromo-3-chloropr...	16.475	75	46136	225.16 ug/L #	70
85) 1,2,4-trichlorobenzene	17.412	180	349367	97.38 ug/L	99
86) hexachlorobutadiene	17.545	225	205250	76.86 ug/L	98
87) naphthalene	17.673	128	780286	148.80 ug/L	100
88) 1,2,3-trichlorobenzene	17.922	180	317496	107.27 ug/L	98
89) 2-Methylnaphthalene	18.749	142	353060	166.20 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120308.D Vial: 7
Acq On : 3 Dec 2014 1:06 pm Operator: jln
Sample : SEQ-CAL7 Inst : VOA2
Misc : 8260 soil 100ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 13:59:36 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120309.D Vial: 8
Acq On : 3 Dec 2014 1:35 pm Operator: jln
Sample : SEQ-CAL8 Inst : VOA2
Misc : 8260 soil 200ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 14:04:53 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.512	96	607228	50.00	ug/L	0.00
44) chlorobenzene-d5	10.958	117	431812	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.813	152	215610	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.698	113	134559	55.14	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 110.28%			
33) 1,2-dichloroethane-d4	6.154	65	162250	80.18	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 160.36%			
47) toluene-d8	8.677	98	591663	49.08	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 98.16%			
66) 4-bromofluorobenzene	12.959	95	207173	57.61	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 115.22%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.532	85	428272m3	155.85	ug/L	
3) chloromethane	1.732	50	693293	218.18	ug/L	99
4) 1,3-butadiene	1.854	39	561099	289.70	ug/L #	82
5) vinyl chloride	1.830	62	678268	196.19	ug/L	100
6) bromomethane	2.140	94	95948	42.18	ug/L	97
7) chloroethane	2.237	64	378250	176.66	ug/L	97
8) trichlorofluoromethane	2.481	101	726025	173.75	ug/L	99
9) acrolein	3.028	56	551073	5469.70	ug/L	96
10) 1,1,2-trichloro-1,2,2-...	3.010	101	282485	150.94	ug/L	91
11) 1,1-dichloroethene	3.052	96	390934	179.27	ug/L #	79
12) acetone	3.192	43	162615	615.43	ug/L	96
13) iodomethane	3.241	142	480884	184.34	ug/L	95
14) carbon disulfide	3.277	76	1543743	222.49	ug/L	100
15) methylene chloride	3.642	84	561854	238.29	ug/L #	76
16) acrylonitrile	4.007	53	2050868	5503.31	ug/L	99
17) trans-1,2-dichloroethene	3.891	96	497993	184.57	ug/L #	82
18) methyl-t-butyl ether	3.867	73	1681567	365.95	ug/L	93
19) acetonitrile	3.581	41	848678	6558.01	ug/L	97
20) hexane	4.104	57	812108	167.74	ug/L	97
21) 1,1-dichloroethane	4.420	63	1045184	241.08	ug/L	98
22) vinyl acetate	4.463	43	1508667	566.50	ug/L	88
23) cis-1,2-dichloroethene	5.114	96	600958	207.64	ug/L #	84
24) 2,2-dichloropropane	5.071	77	802190	212.69	ug/L	97
25) 2-butanone	5.156	43	293351	663.57	ug/L #	88
26) methyl acrylate	5.235	55	556654	555.66	ug/L	91
27) bromochloromethane	5.412	128	263656	226.74	ug/L #	64
28) chloroform	5.491	83	946564	231.10	ug/L	99
30) 1,1,1-trichloroethane	5.661	97	760274	191.81	ug/L	97
31) cyclohexane	5.631	56	1000976	229.57	ug/L #	83
32) carbon tetrachloride	5.813	117	620087	184.13	ug/L	99
34) benzene	6.123	78	2337443	211.32	ug/L	97
35) 1,1-dichloropropene	5.868	75	719764	191.84	ug/L	94
36) 1,2-dichloroethane	6.251	62	731117	324.42	ug/L	97
37) trichloroethene	6.969	95	527186	181.03	ug/L	89
38) ethyl acrylate	7.169	55	859380	557.22	ug/L	97
39) 1,2-dichloropropane	7.346	63	654046	275.76	ug/L	98
40) methyl methacrylate	7.479	41	597518	619.36	ug/L #	83
41) dibromomethane	7.510	93	312727	297.32	ug/L	85
42) bromodichloromethane	7.723	83	764144	272.22	ug/L	98

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120309.D Vial: 8
Acq On : 3 Dec 2014 1:35 pm Operator: jln
Sample : SEQ-CAL8 Inst : VOA2
Misc : 8260 soil 200ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 14:04:53 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

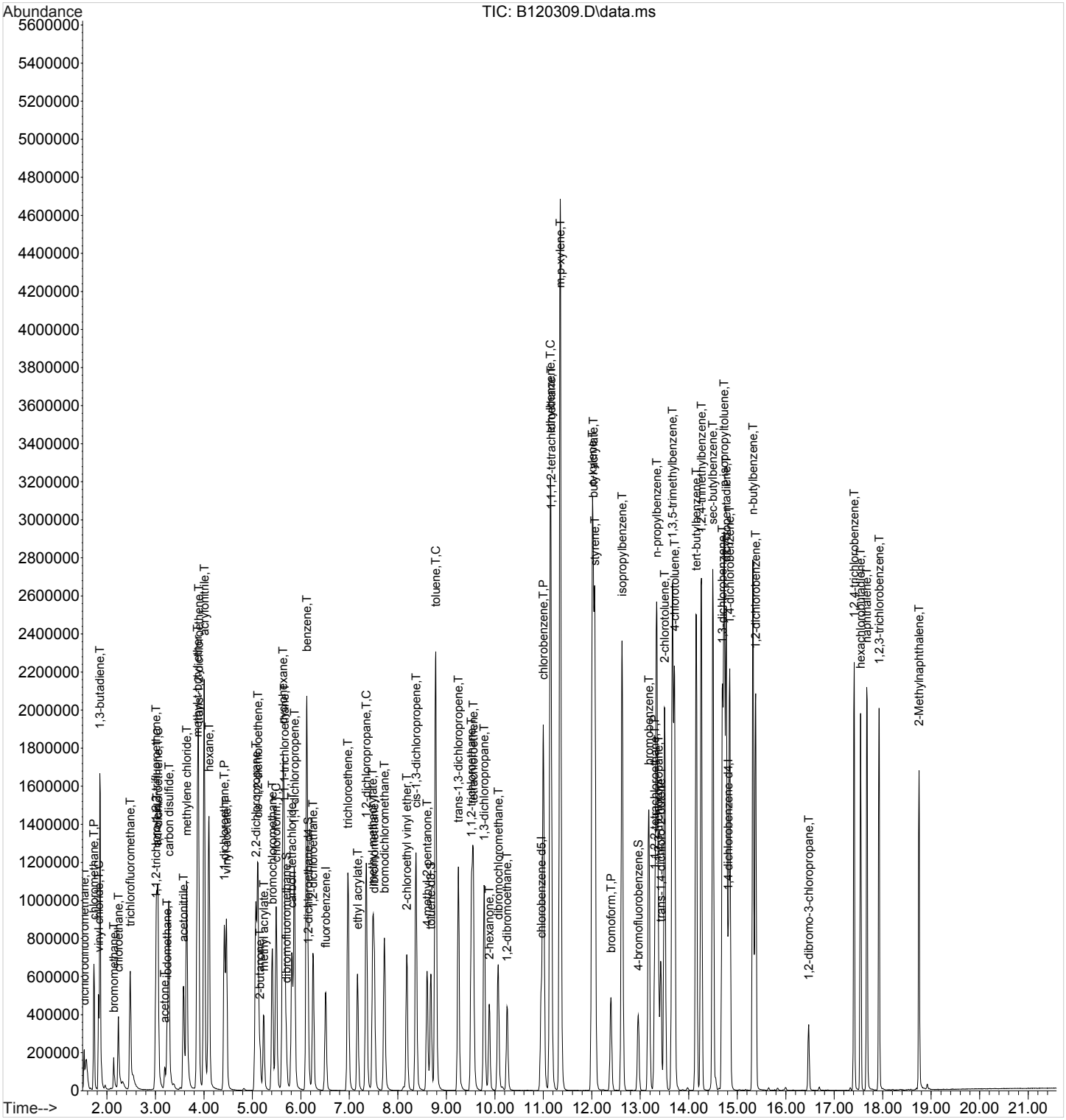
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.185	63	422883	456.67 ug/L #	94
45) cis-1,3-dichloropropene	8.373	75	1018629	276.16 ug/L	87
46) 4-methyl-2-pentanone	8.604	43	648353	599.35 ug/L	90
48) toluene	8.781	92	1434109	184.15 ug/L	99
49) 1,1,2-trichloroethane	9.517	83	418887	298.28 ug/L	96
50) 1,3-dichloropropane	9.778	76	890250	303.31 ug/L	100
51) tetrachloroethene	9.553	164	426824	143.57 ug/L	97
52) trans-1,3-dichloropropene	9.249	75	904036	309.41 ug/L #	88
53) 2-hexanone	9.888	43	452731	636.65 ug/L	90
54) dibromochloromethane	10.070	129	537354	281.32 ug/L	97
55) 1,2-dibromoethane	10.252	107	464814	295.73 ug/L #	97
56) chlorobenzene	11.000	112	1525494	187.13 ug/L	90
57) 1,1,1,2-tetrachloroethane	11.159	131	549331	210.06 ug/L	99
58) ethylbenzene	11.146	91	2692148	189.36 ug/L	95
59) m,p-xylene	11.347	106	2029765	361.70 ug/L	92
60) butyl acrylate	12.028	55	1298466	516.82 ug/L	95
61) o-xylene	12.010	106	1015983	191.23 ug/L	94
62) styrene	12.065	104	1779596	220.14 ug/L	96
63) isopropylbenzene	12.624	105	2503426	178.25 ug/L	97
64) bromobenzene	13.178	156	644286	196.86 ug/L #	82
65) bromoform	12.393	173	360565	327.72 ug/L	98
67) 1,2,3-trichloropropane	13.372	110	171939	349.42 ug/L #	83
68) trans-1,4-dichloro-2-b...	13.427	89	133740	426.24 ug/L #	85
69) n-propylbenzene	13.336	91	2938847	185.76 ug/L	96
70) 2-chlorotoluene	13.500	91	1756222	198.34 ug/L	92
71) 4-chlorotoluene	13.707	91	2065161	206.23 ug/L	93
72) 1,3,5-trimethylbenzene	13.664	105	2063405	192.25 ug/L	97
74) 1,1,2,2-tetrachloroethane	13.299	83	628185	341.40 ug/L	97
75) tert-butylbenzene	14.157	119	1779502	167.81 ug/L	95
76) sec-butylbenzene	14.497	105	2594707	169.32 ug/L	95
77) 1,2,4-trimethylbenzene	14.260	105	2079230	189.44 ug/L	99
78) 1,3-dichlorobenzene	14.692	146	1168875	180.44 ug/L	97
79) p-isopropyltoluene	14.728	119	2180951	170.63 ug/L	96
80) dicyclopentadiene	14.771	66	2965959	220.62 ug/L	93
81) 1,4-dichlorobenzene	14.844	146	1187840	183.95 ug/L	97
82) 1,2-dichlorobenzene	15.379	146	1133684	204.17 ug/L	97
83) n-butylbenzene	15.324	91	1923557	182.44 ug/L	96
84) 1,2-dibromo-3-chloropr...	16.474	75	103633	495.59 ug/L #	72
85) 1,2,4-trichlorobenzene	17.410	180	751216	205.17 ug/L	99
86) hexachlorobutadiene	17.544	225	424212	155.66 ug/L	99
87) naphthalene	17.672	128	1717353	320.93 ug/L	100
88) 1,2,3-trichlorobenzene	17.927	180	679295	224.89 ug/L	98
89) 2-Methylnaphthalene	18.748	142	790969	364.86 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120309.D Vial: 8
Acq On : 3 Dec 2014 1:35 pm Operator: jln
Sample : SEQ-CAL8 Inst : VOA2
Misc : 8260 soil 200ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 14:04:53 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Nov 21 09:34:12 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120311.D Vial: 10
Acq On : 3 Dec 2014 3:15 pm Operator: jln
Sample : SEQ-icv1 Inst : VOA2
Misc : 8260 soil 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 15:41:47 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Wed Dec 03 14:10:34 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.513	96	570361	50.00	ug/L	0.00
44) chlorobenzene-d5	10.953	117	397805	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.808	152	194872	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.698	113	124418	49.58	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery =	99.16%		
33) 1,2-dichloroethane-d4	6.155	65	147737	48.34	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery =	96.68%		
47) toluene-d8	8.684	98	553936	50.51	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery =	101.02%		
66) 4-bromofluorobenzene	12.960	95	191381	49.93	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery =	99.86%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.533	85	116212	54.56	ug/L	97
3) chloromethane	1.733	50	166757	49.25	ug/L	99
5) vinyl chloride	1.825	62	188560	56.82	ug/L	100
6) bromomethane	2.153	94	48740	51.92	ug/L	97
7) chloroethane	2.269	64	120481	57.50	ug/L	99
8) trichlorofluoromethane	2.500	101	190444	53.54	ug/L	96
9) acrolein	3.029	56	21460	94.06	ug/L	99
11) 1,1-dichloroethene	3.059	96	103034	54.60	ug/L	97
12) acetone	3.193	43	38896	48.91	ug/L	91
13) iodomethane	3.254	142	6134	7.62	ug/L	98
14) carbon disulfide	3.284	76	427130	56.59	ug/L	100
15) methylene chloride	3.649	84	154451	54.93	ug/L	96
16) acrylonitrile	4.002	53	47730	56.30	ug/L	98
17) trans-1,2-dichloroethene	3.898	96	127296	54.83	ug/L	99
18) methyl-t-butyl ether	3.868	73	410994	56.58	ug/L	99
19) acetonitrile	3.576	41	17677	46.89	ug/L	96
20) hexane	4.105	57	24352	Below Cal		96
21) 1,1-dichloroethane	4.427	63	262936	55.00	ug/L	99
22) vinyl acetate	4.464	43	269693	41.70	ug/L	100
23) cis-1,2-dichloroethene	5.115	96	149558	55.50	ug/L	97
24) 2,2-dichloropropane	5.072	77	204788	55.29	ug/L	97
25) 2-butanone	5.157	43	64390	48.78	ug/L	97
27) bromochloromethane	5.413	128	65074	55.68	ug/L	96
28) chloroform	5.492	83	240980	57.32	ug/L	100
30) 1,1,1-trichloroethane	5.662	97	195159	55.84	ug/L	97
32) carbon tetrachloride	5.820	117	159595	56.02	ug/L	99
34) benzene	6.124	78	601523	56.35	ug/L	99
35) 1,1-dichloropropene	5.869	75	187101	55.01	ug/L	98
36) 1,2-dichloroethane	6.258	62	176759	55.62	ug/L	99
37) trichloroethene	6.976	95	137174	56.30	ug/L	98
39) 1,2-dichloropropane	7.346	63	160517	55.82	ug/L	100
41) dibromomethane	7.511	93	74568	56.22	ug/L	97
42) bromodichloromethane	7.724	83	177645	54.85	ug/L	98
43) 2-chloroethyl vinyl ether	8.186	63	91814	52.79	ug/L	97
45) cis-1,3-dichloropropene	8.374	75	243955	56.93	ug/L	99
46) 4-methyl-2-pentanone	8.605	43	143997	53.12	ug/L	99
48) toluene	8.782	92	366990	54.50	ug/L	99
49) 1,1,2-trichloroethane	9.518	83	99745	55.47	ug/L	99
50) 1,3-dichloropropane	9.785	76	211572	55.56	ug/L	100

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120311.D Vial: 10
Acq On : 3 Dec 2014 3:15 pm Operator: jln
Sample : SEQ-icv1 Inst : VOA2
Misc : 8260 soil 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 15:41:47 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Wed Dec 03 14:10:34 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

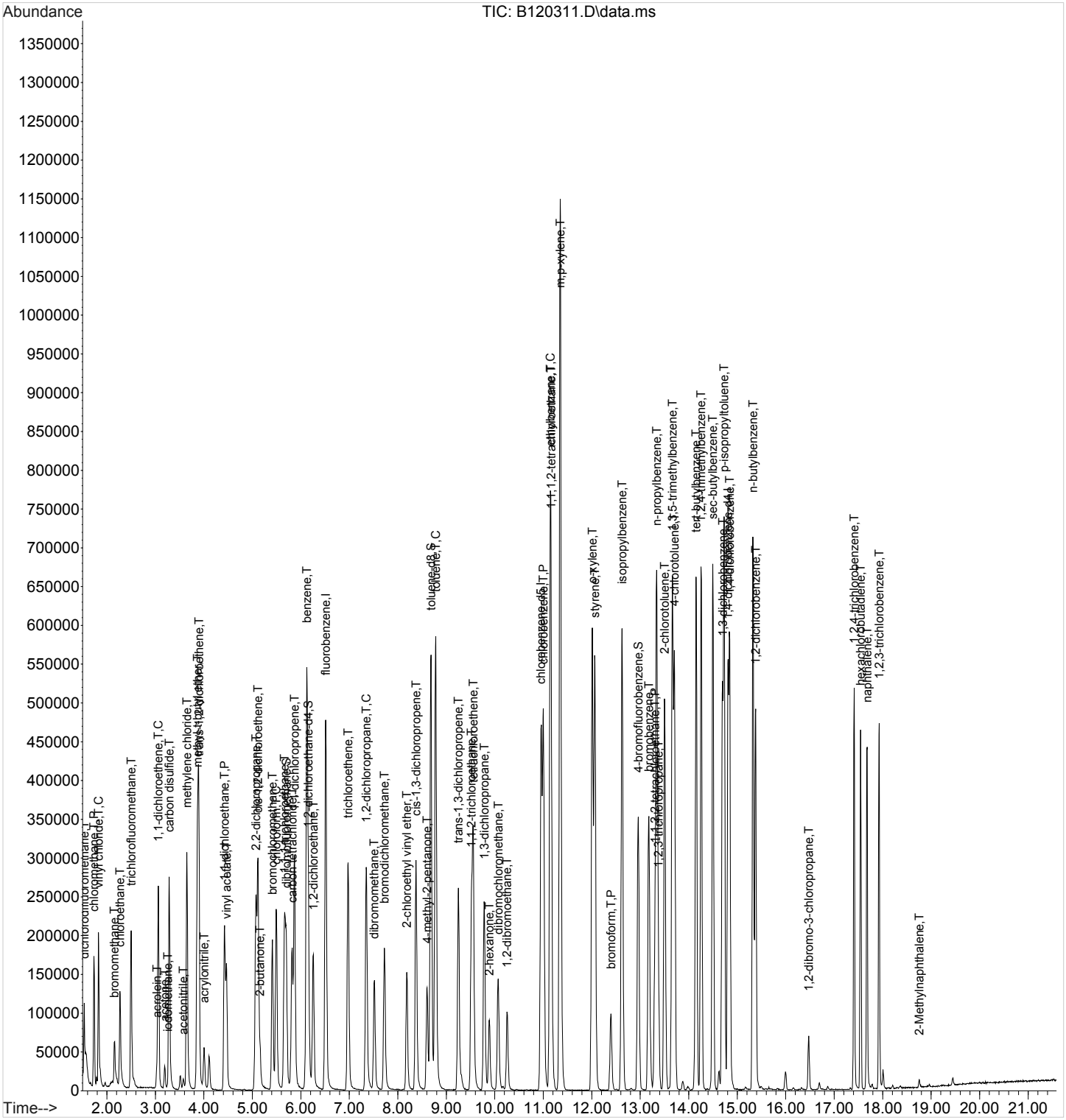
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) tetrachloroethene	9.554	164	115064	56.35	ug/L	96
52) trans-1,3-dichloropropene	9.250	75	209429	55.52	ug/L	98
53) 2-hexanone	9.888	43	97637	51.51	ug/L	99
54) dibromochloromethane	10.071	129	122885	56.06	ug/L	97
55) 1,2-dibromoethane	10.253	107	108495	55.53	ug/L	99
56) chlorobenzene	11.001	112	386402	56.60	ug/L	99
57) 1,1,1,2-tetrachloroethane	11.159	131	129999	55.68	ug/L	99
58) ethylbenzene	11.147	91	687333	55.95	ug/L	100
59) m,p-xylene	11.348	106	523895	111.20	ug/L	99
61) o-xylene	12.011	106	251689	55.24	ug/L	98
62) styrene	12.066	104	437460	56.95	ug/L	97
63) isopropylbenzene	12.625	105	642898	55.99	ug/L	99
64) bromobenzene	13.178	156	157239	55.64	ug/L	96
65) bromoform	12.394	173	77312	53.79	ug/L	98
67) 1,2,3-trichloropropane	13.373	110	39226	54.65	ug/L	87
69) n-propylbenzene	13.337	91	766373	55.45	ug/L	99
70) 2-chlorotoluene	13.501	91	450391	55.81	ug/L	99
71) 4-chlorotoluene	13.701	91	524646	56.30	ug/L	100
72) 1,3,5-trimethylbenzene	13.665	105	522532	55.19	ug/L	99
74) 1,1,2,2-tetrachloroethane	13.306	83	137644	53.30	ug/L	98
75) tert-butylbenzene	14.151	119	448213	55.95	ug/L	97
76) sec-butylbenzene	14.498	105	653390	54.74	ug/L	100
77) 1,2,4-trimethylbenzene	14.255	105	526314	54.08	ug/L	100
78) 1,3-dichlorobenzene	14.699	146	290334	55.84	ug/L	100
79) p-isopropyltoluene	14.729	119	551423	54.81	ug/L	100
81) 1,4-dichlorobenzene	14.845	146	298647	56.47	ug/L	99
82) 1,2-dichlorobenzene	15.380	146	268661	55.86	ug/L	99
83) n-butylbenzene	15.325	91	513913	56.74	ug/L	97
84) 1,2-dibromo-3-chloropr...	16.475	75	21328	53.53	ug/L	96
85) 1,2,4-trichlorobenzene	17.411	180	184519	54.85	ug/L	99
86) hexachlorobutadiene	17.545	225	99507	49.59	ug/L	98
87) naphthalene	17.679	128	373898	51.79	ug/L	100
88) 1,2,3-trichlorobenzene	17.928	180	159531	53.46	ug/L	99
89) 2-Methylnaphthalene	18.755	142	7098	4.54	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B120314\B120311.D Vial: 10
Acq On : 3 Dec 2014 3:15 pm Operator: jln
Sample : SEQ-icv1 Inst : VOA2
Misc : 8260 soil 50ppb Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 03 15:41:47 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Wed Dec 03 14:10:34 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122303.D Vial: 1
Acq On : 23 Dec 2014 10:22 am Operator: jln
Sample : S021758-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 26 07:51:12 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	582266	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	407683	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	199739	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.702	113	133288	52.03	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 104.06%			
33) 1,2-dichloroethane-d4	6.158	65	161787	51.86	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 103.72%			
47) toluene-d8	8.682	98	590153	52.51	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 105.02%			
66) 4-bromofluorobenzene	12.957	95	201385	51.27	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 102.54%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.530	85	100111	46.04	ug/L	98
3) chloromethane	1.731	50	182687	52.85	ug/L	98
4) 1,3-butadiene	1.859	39	155876	54.49	ug/L	98
5) vinyl chloride	1.828	62	187262	55.28	ug/L	99
6) bromomethane	2.157	94	78535	83.28	ug/L	99
7) chloroethane	2.272	64	121303	56.71	ug/L	98
8) trichlorofluoromethane	2.497	101	210380	57.94	ug/L	99
9) acrolein	3.032	56	236440	1015.15	ug/L	98
10) 1,1,2-trichloro-1,2,2-...	3.020	101	137429	96.40	ug/L	99
11) 1,1-dichloroethene	3.063	96	105858	54.95	ug/L	97
12) acetone	3.191	43	43302	53.34	ug/L	96
13) iodomethane	3.251	142	132079	61.47	ug/L	100
14) carbon disulfide	3.288	76	403356	52.35	ug/L	99
15) methylene chloride	3.653	84	169622	59.53	ug/L	99
16) acrylonitrile	4.005	53	546824	631.85	ug/L	98
17) trans-1,2-dichloroethene	3.896	96	130686	55.14	ug/L	99
18) methyl-t-butyl ether	3.872	73	414733	55.93	ug/L	98
19) acetonitrile	3.580	41	208059	540.61	ug/L	100
20) hexane	4.109	57	286680	63.51	ug/L	99
21) 1,1-dichloroethane	4.425	63	269146	55.15	ug/L	100
22) vinyl acetate	4.468	43	365016	55.28	ug/L	100
23) cis-1,2-dichloroethene	5.118	96	155035	56.35	ug/L	99
24) 2,2-dichloropropane	5.076	77	213994	56.59	ug/L	100
25) 2-butanone	5.155	43	72496	53.65	ug/L	97
26) methyl acrylate	5.234	55	137175	56.94	ug/L	99
27) bromochloromethane	5.410	128	67748	56.78	ug/L	99
28) chloroform	5.495	83	237462	55.33	ug/L	99
30) 1,1,1-trichloroethane	5.666	97	199291	55.85	ug/L	99
31) cyclohexane	5.635	56	282083	57.89	ug/L	99
32) carbon tetrachloride	5.818	117	161809	55.63	ug/L	97
34) benzene	6.122	78	604355	55.45	ug/L	99
35) 1,1-dichloropropene	5.872	75	197166	56.78	ug/L	99
36) 1,2-dichloroethane	6.256	62	180419	55.61	ug/L	98
37) trichloroethene	6.973	95	141144	56.75	ug/L	100
38) ethyl acrylate	7.168	55	203947	55.52	ug/L	99
39) 1,2-dichloropropane	7.350	63	166084	56.57	ug/L	98
40) methyl methacrylate	7.484	41	141554	54.31	ug/L	96
41) dibromomethane	7.514	93	76555	56.54	ug/L	95
42) bromodichloromethane	7.727	83	185490	56.10	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122303.D Vial: 1
Acq On : 23 Dec 2014 10:22 am Operator: jln
Sample : S021758-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 26 07:51:12 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

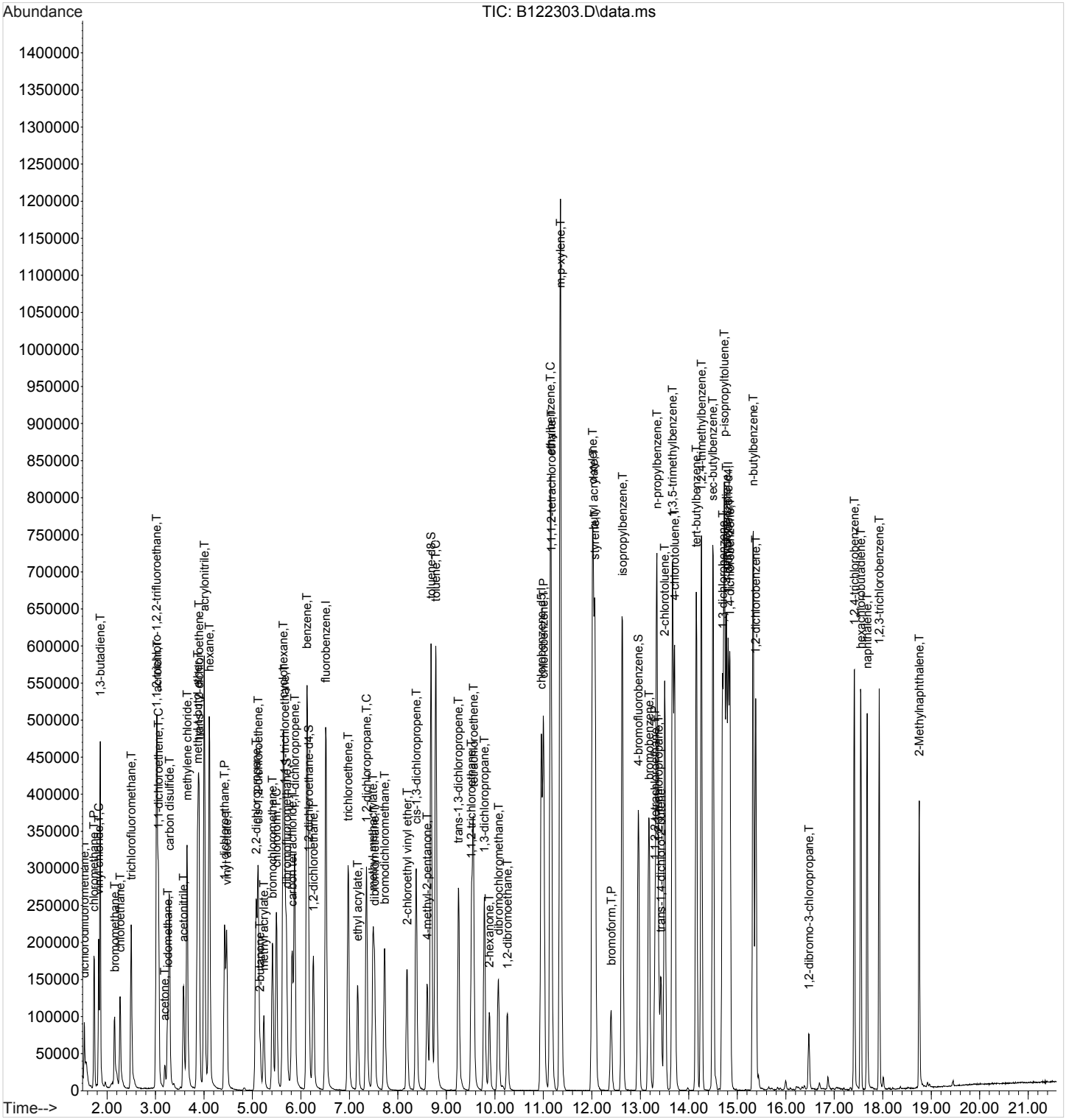
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.189	63	100973	56.87 ug/L	99
45) cis-1,3-dichloropropene	8.378	75	251526	57.28 ug/L	98
46) 4-methyl-2-pentanone	8.603	43	156342	56.28 ug/L	100
48) toluene	8.779	92	379146	54.94 ug/L	97
49) 1,1,2-trichloroethane	9.515	83	103835	56.35 ug/L	98
50) 1,3-dichloropropane	9.783	76	222752	57.08 ug/L	99
51) tetrachloroethene	9.558	164	123912	59.21 ug/L	99
52) trans-1,3-dichloropropene	9.248	75	217239	56.19 ug/L	98
53) 2-hexanone	9.886	43	107321	55.24 ug/L	99
54) dibromochloromethane	10.075	129	127303	56.67 ug/L	97
55) 1,2-dibromoethane	10.257	107	114520	57.19 ug/L	99
56) chlorobenzene	11.005	112	397221	56.78 ug/L	100
57) 1,1,1,2-tetrachloroethane	11.163	131	135734	56.73 ug/L	94
58) ethylbenzene	11.145	91	712631	56.61 ug/L	100
59) m,p-xylene	11.352	106	550043	113.92 ug/L	98
60) butyl acrylate	12.033	55	308232	57.57 ug/L	99
61) o-xylene	12.015	106	263986	56.54 ug/L	99
62) styrene	12.063	104	457349	58.10 ug/L	98
63) isopropylbenzene	12.629	105	683491	58.08 ug/L	99
64) bromobenzene	13.182	156	166695	57.55 ug/L	96
65) bromoform	12.398	173	84312	57.24 ug/L	99
67) 1,2,3-trichloropropane	13.371	110	42858	58.27 ug/L	89
68) trans-1,4-dichloro-2-b...	13.425	89	29940	56.99 ug/L	94
69) n-propylbenzene	13.340	91	820669	57.94 ug/L	99
70) 2-chlorotoluene	13.505	91	468441	56.64 ug/L	98
71) 4-chlorotoluene	13.705	91	552852	57.89 ug/L	99
72) 1,3,5-trimethylbenzene	13.663	105	559985	57.72 ug/L	100
74) 1,1,2,2-tetrachloroethane	13.304	83	153373	57.94 ug/L	99
75) tert-butylbenzene	14.155	119	476828	58.07 ug/L	99
76) sec-butylbenzene	14.496	105	725737	59.31 ug/L	99
77) 1,2,4-trimethylbenzene	14.259	105	563368	56.48 ug/L	100
78) 1,3-dichlorobenzene	14.696	146	313645	58.85 ug/L	98
79) p-isopropyltoluene	14.733	119	612223	59.37 ug/L	99
80) dicyclopentadiene	14.776	66	752872	55.68 ug/L	99
81) 1,4-dichlorobenzene	14.849	146	320832	59.19 ug/L	98
82) 1,2-dichlorobenzene	15.378	146	291948	59.23 ug/L	97
83) n-butylbenzene	15.329	91	551182	59.38 ug/L	98
84) 1,2-dibromo-3-chloropr...	16.478	75	23010	56.34 ug/L	93
85) 1,2,4-trichlorobenzene	17.415	180	204351	59.27 ug/L	98
86) hexachlorobutadiene	17.549	225	121657	59.16 ug/L	97
87) naphthalene	17.676	128	417059	56.36 ug/L	100
88) 1,2,3-trichlorobenzene	17.926	180	177851	58.14 ug/L	98
89) 2-Methylnaphthalene	18.753	142	189430	54.87 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122303.D Vial: 1
Acq On : 23 Dec 2014 10:22 am Operator: jln
Sample : S021758-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 26 07:51:12 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122902.D Vial: 1
Acq On : 29 Dec 2014 9:25 am Operator: jln
Sample : S021800-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:46:41 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.508	96	578830	50.00	ug/L		0.00
44) chlorobenzene-d5	10.953	117	402698	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.809	152	218500	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.699	113	134860	52.61	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.22%				
33) 1,2-dichloroethane-d4	6.155	65	169172	51.76	ug/L		0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 103.52%				
47) toluene-d8	8.679	98	585078	54.03	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 108.06%				
66) 4-bromofluorobenzene	12.960	95	205034	51.40	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.80%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.557	85	91318	36.44	ug/L		96
3) chloromethane	1.721	50	151907	44.53	ug/L		99
4) vinyl chloride	1.831	62	151814	44.62	ug/L		99
5) 1,3-butadiene	1.855	39	129765	44.42	ug/L		99
6) bromomethane	2.135	94	12603	40.46	ug/L		94
7) chloroethane	2.220	64	28140m3	13.14	ug/L		
8) trichlorofluoromethane	2.445	101	168451	42.87	ug/L		100
9) acrolein	3.023	56	282726	809.63	ug/L		98
10) 1,1,2-Trichloro-1,2,2-...	2.999	101	111954	64.64	ug/L		96
11) 1,1-dichloroethene	3.041	96	91038	42.67	ug/L		95
12) iodomethane	3.230	142	51652	37.88	ug/L		98
13) acetone	3.199	58	15008	43.22	ug/L	#	84
14) carbon disulfide	3.266	76	317007	41.68	ug/L		99
15) methylene chloride	3.637	84	123258	42.91	ug/L		97
16) acrylonitrile	4.008	53	737032	491.81	ug/L		99
17) trans-1,2-dichloroethene	3.886	96	113772	44.92	ug/L		94
18) methyl-t-butyl ether	3.868	73	396937	45.33	ug/L		99
19) acetonitrile	3.582	41	277228	457.27	ug/L		96
20) hexane	4.093	57	200478	45.11	ug/L	#	98
21) 1,1-dichloroethane	4.416	63	242185	45.52	ug/L		99
22) vinyl acetate	4.464	43	399575	41.65	ug/L		100
23) cis-1,2-dichloroethene	5.109	96	137916	45.57	ug/L		98
24) 2,2-dichloropropane	5.066	77	195704	44.81	ug/L		98
25) 2-butanone	5.170	72	18552	44.60	ug/L		75
26) methyl acrylate	5.237	55	165294	47.65	ug/L		99
27) bromochloromethane	5.407	128	63759	47.27	ug/L		97
28) chloroform	5.492	83	212919	46.54	ug/L		100
30) 1,1,1-trichloroethane	5.656	97	179757	46.83	ug/L		96
31) cyclohexane	5.626	56	238855	49.41	ug/L		98
32) carbon tetrachloride	5.808	117	148051	45.95	ug/L		96
34) benzene	6.118	78	539585	47.35	ug/L		99
35) 1,1-dichloropropene	5.863	75	172975	47.68	ug/L		99
36) 1,2-dichloroethane	6.252	62	171026	47.27	ug/L		98
37) trichloroethene	6.970	95	125343	46.76	ug/L		97
38) ethyl acrylate	7.176	55	219086	45.47	ug/L		99
39) 1,2-dichloropropane	7.347	63	149032	48.03	ug/L		99
40) methyl methacrylate	7.487	69	105982	45.86	ug/L		93
41) dibromomethane	7.511	93	77607	45.01	ug/L		99
42) bromodichloromethane	7.724	83	168662	45.14	ug/L		99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122902.D Vial: 1
Acq On : 29 Dec 2014 9:25 am Operator: jln
Sample : S021800-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:46:41 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

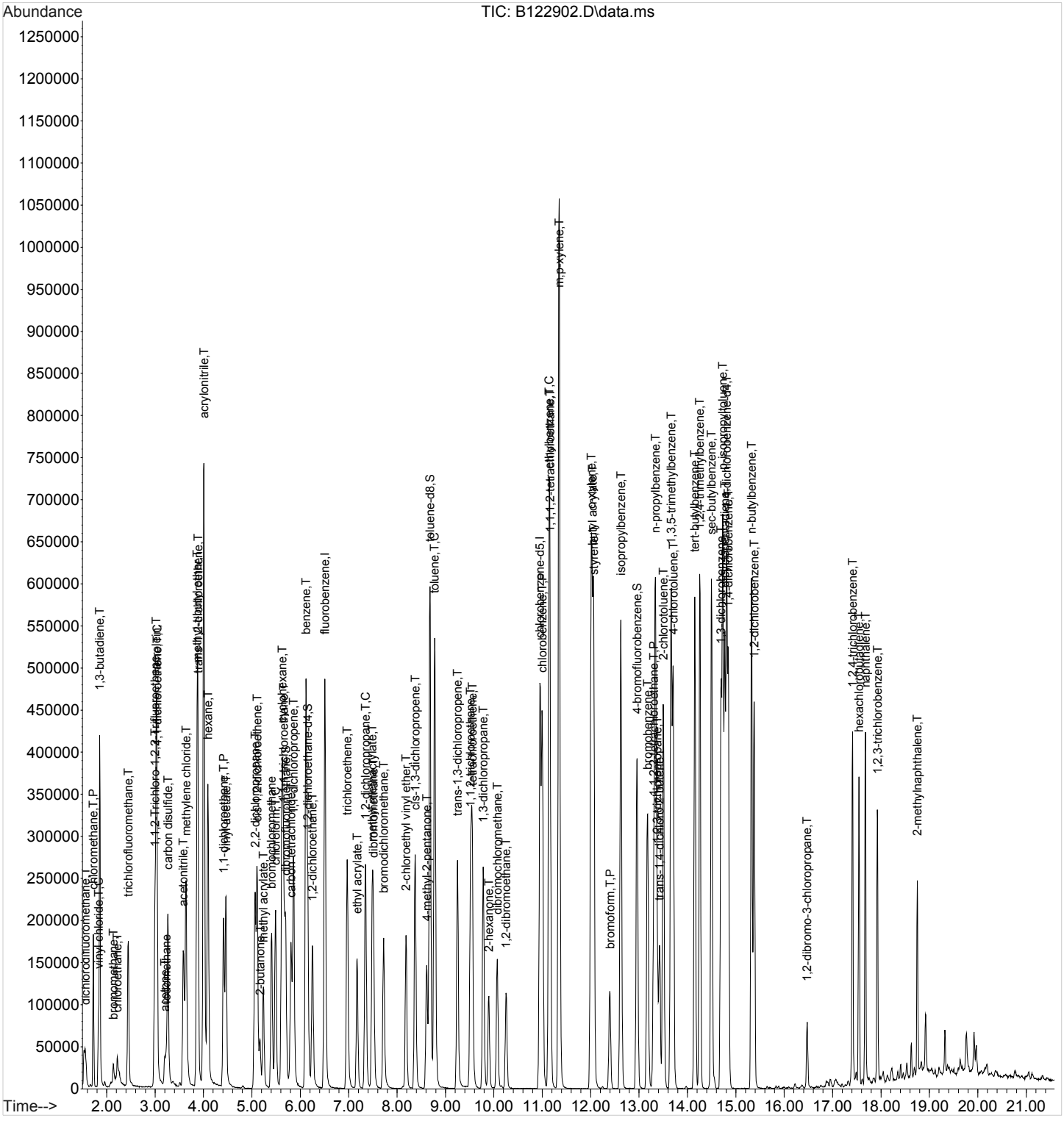
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-chloroethyl vinyl ether	8.186	63	107732	46.33	ug/L	99
45) cis-1,3-dichloropropene	8.374	75	231761	49.08	ug/L	98
46) 4-methyl-2-pentanone	8.612	43	157741	45.89	ug/L	100
48) toluene	8.776	92	339019	49.82	ug/L	98
49) 1,1,2-trichloroethane	9.518	83	104031	46.60	ug/L	95
50) 1,3-dichloropropane	9.779	76	221217	49.49	ug/L	100
51) tetrachloroethene	9.554	164	108385	51.01	ug/L	98
52) trans-1,3-dichloropropene	9.250	75	210051	47.62	ug/L	98
53) 2-hexanone	9.895	43	106543	45.59	ug/L	99
54) dibromochloromethane	10.071	129	123483	46.80	ug/L	99
55) 1,2-dibromoethane	10.254	107	119745	47.96	ug/L	98
56) chlorobenzene	11.002	112	353560	49.93	ug/L	98
57) 1,1,1,2-tetrachloroethane	11.160	131	122897	48.29	ug/L	99
58) ethylbenzene	11.141	91	624045	49.02	ug/L	100
59) m,p-xylene	11.348	106	476052	100.03	ug/L	99
60) butyl acrylate	12.035	55	295320	46.72	ug/L	98
61) o-xylene	12.011	106	232935	49.57	ug/L	98
62) styrene	12.066	104	399976	48.83	ug/L	99
63) isopropylbenzene	12.625	105	583264	50.63	ug/L	98
64) bromobenzene	13.179	156	149236	49.79	ug/L	98
65) bromoform	12.400	173	87669	46.34	ug/L	97
67) 1,2,3-trichloropropane	13.373	75	142999	50.93	ug/L	98
68) trans-1,4-dichloro-2-b...	13.422	53	53594	45.58	ug/L	96
69) n-propylbenzene	13.337	91	679152	49.88	ug/L	99
70) 2-chlorotoluene	13.501	91	403823	50.03	ug/L	100
71) 4-chlorotoluene	13.708	91	464970	49.20	ug/L	97
72) 1,3,5-trimethylbenzene	13.665	105	476311	50.57	ug/L	98
74) 1,1,2,2-tetrachloroethane	13.306	83	158536	46.63	ug/L	99
75) tert-butylbenzene	14.152	119	408994	50.98	ug/L	99
76) sec-butylbenzene	14.498	105	595577	51.66	ug/L	99
77) 1,2,4-trimethylbenzene	14.255	105	480065	49.21	ug/L	99
78) 1,3-dichlorobenzene	14.693	146	270728	49.89	ug/L	99
79) p-isopropyltoluene	14.729	119	507675	51.40	ug/L	99
80) dicyclopentadiene	14.772	66	640114	49.18	ug/L	100
81) 1,4-dichlorobenzene	14.845	146	274292	49.44	ug/L	99
82) 1,2-dichlorobenzene	15.380	146	258951	50.02	ug/L	99
83) n-butylbenzene	15.325	91	433176	51.28	ug/L	99
84) 1,2-dibromo-3-chloropr...	16.469	75	24028	45.07	ug/L	99
85) 1,2,4-trichlorobenzene	17.411	180	147862	52.17	ug/L	97
86) hexachlorobutadiene	17.545	225	78054	54.81	ug/L	98
87) naphthalene	17.679	128	330330	48.84	ug/L	100
88) 1,2,3-trichlorobenzene	17.928	180	113774	52.59	ug/L	99
89) 2-methylnaphthalene	18.749	142	111898	74.97	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122902.D Vial: 1
Acq On : 29 Dec 2014 9:25 am Operator: jln
Sample : S021800-CCV1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:46:41 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



VOA QC FORM I AND RAW DATA

METHOD BLANK DATA SHEET
SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	B064000-BLK1	File ID:	B122304.D
Prepared:	12/23/14 08:38	Preparation:	8260_5035_SB_PR	Initial/Final:	5 g / 5 ml
Analyzed:	12/23/14 11:00	Instrument:	VOA-2		
Batch:	B064000	Sequence:	S021758	Calibration:	0000296

CAS NO.	COMPOUND	CONC. (µg/Kg wet)	Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	50	J
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
75-09-2	Methylene chloride	20	U

METHOD BLANK DATA SHEET
SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	B064000-BLK1	File ID:	B122304.D
Prepared:	12/23/14 08:38	Preparation:	8260_5035_SB_PR	Initial/Final:	5 g / 5 ml
Analyzed:	12/23/14 11:00	Instrument:	VOA-2		
Batch:	B064000	Sequence:	S021758	Calibration:	0000296

CAS NO.	COMPOUND	CONC. (µg/Kg wet)	Q
1634-04-4	Methyl-t-Butyl Ether	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
25323-30-2	Total 1,2-Dichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7T	Total Xylenes	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (µg/L)	CONC (µg/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.00	56	113	51.7 - 162	
4-Bromofluorobenzene	50.00	52	103	57.4 - 135	
Dibromofluoromethane	50.00	53	107	63.5 - 139	
Toluene-d8	50.00	53	105	66.6 - 143	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	188710	14.812	199739	14.812	
Chlorobenzene-d5	388173	10.956	407683	10.956	
Fluorobenzene	558738	6.517	582266	6.511	

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122304.D Vial: 2
Acq On : 23 Dec 2014 11:00 am Operator: jln
Sample : B064000-BLK1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 09:39:41 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

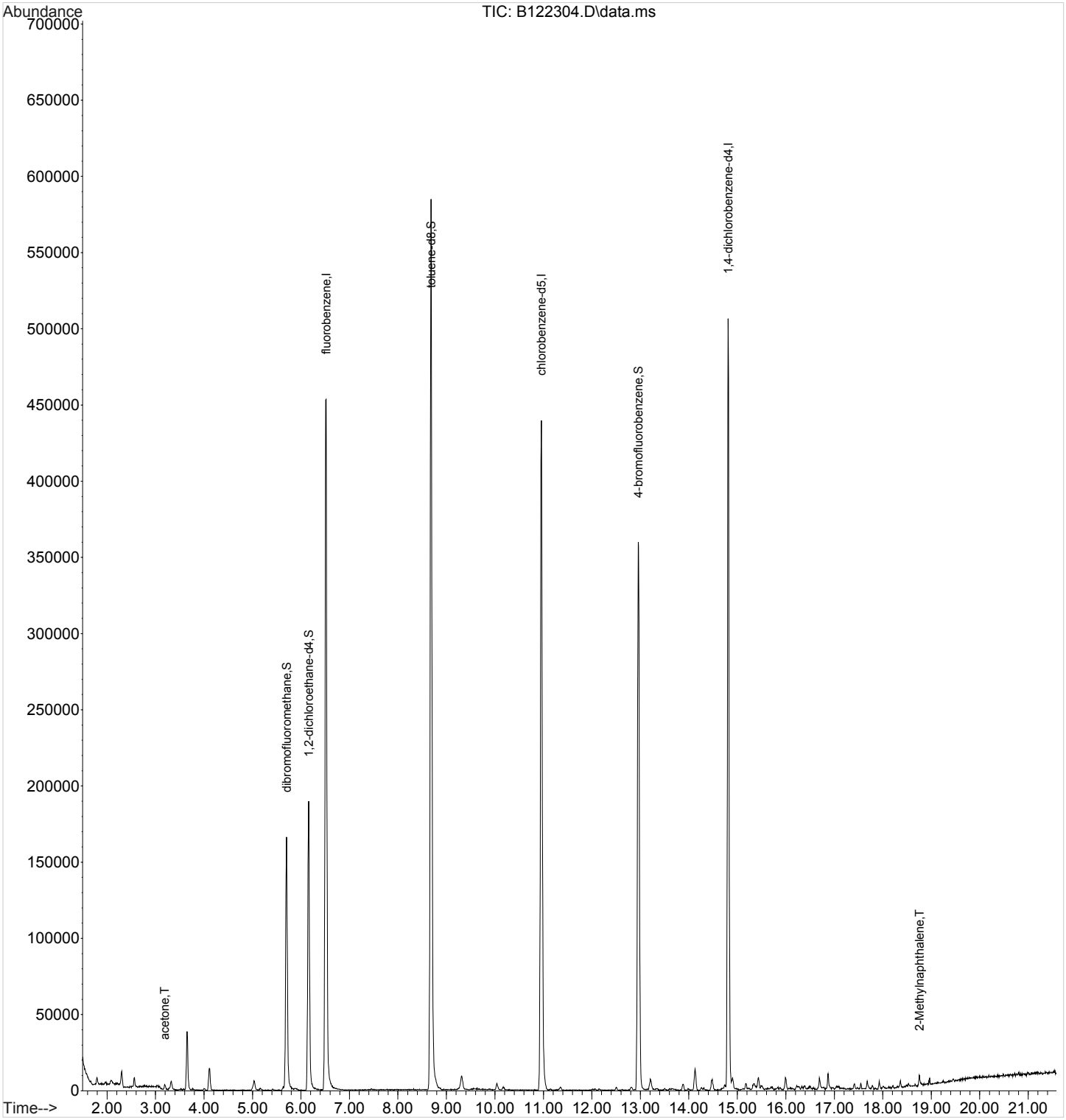
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.517	96	558738	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	388173	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	188710	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.702	113	131117	53.34	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 106.68%			
33) 1,2-dichloroethane-d4	6.158	65	168871	56.41	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 112.82%			
47) toluene-d8	8.682	98	563540	52.66	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 105.32%			
66) 4-bromofluorobenzene	12.957	95	192817	51.55	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 103.10%			
Target Compounds						Qvalue
12) acetone	3.190	43	4496	5.77	ug/L	98
20) hexane	4.109	57	8666	Below Cal		89
89) 2-Methylnaphthalene	18.759	142	4778	3.93	ug/L	98

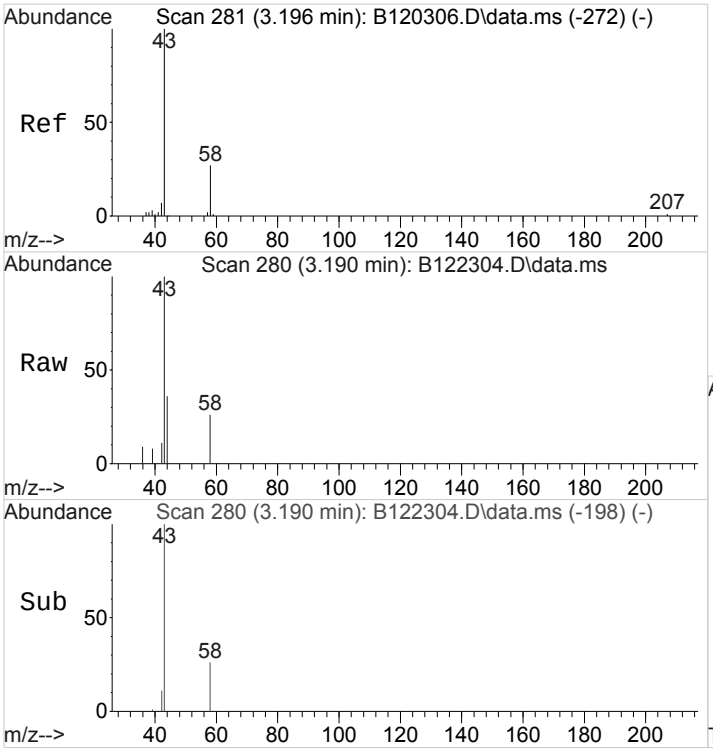
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122304.D Vial: 2
Acq On : 23 Dec 2014 11:00 am Operator: jln
Sample : B064000-BLK1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 09:39:41 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

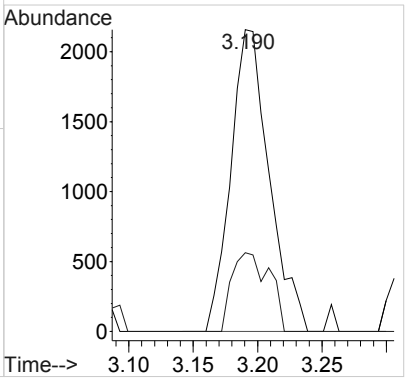


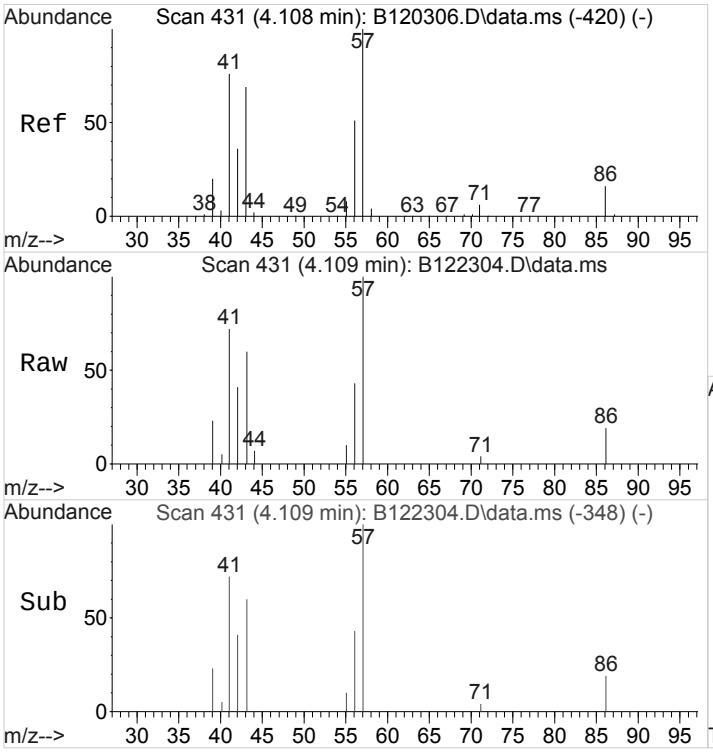


#12
acetone
Concen: 5.77 ug/L
RT: 3.190 min Scan# 280
Delta R.T. -0.002 min
Lab File: B122304.D
Acq: 23 Dec 2014 11:00 am

Tgt Ion: 43 Resp: 4496

Ion	Ratio	Lower	Upper
43	100		
58	26.1	7.2	47.2

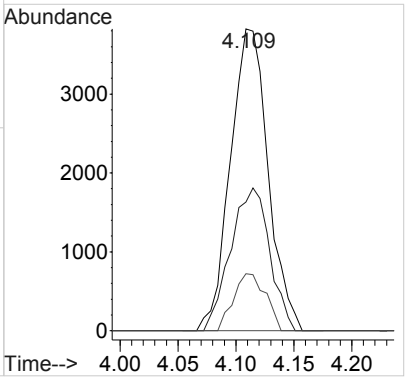


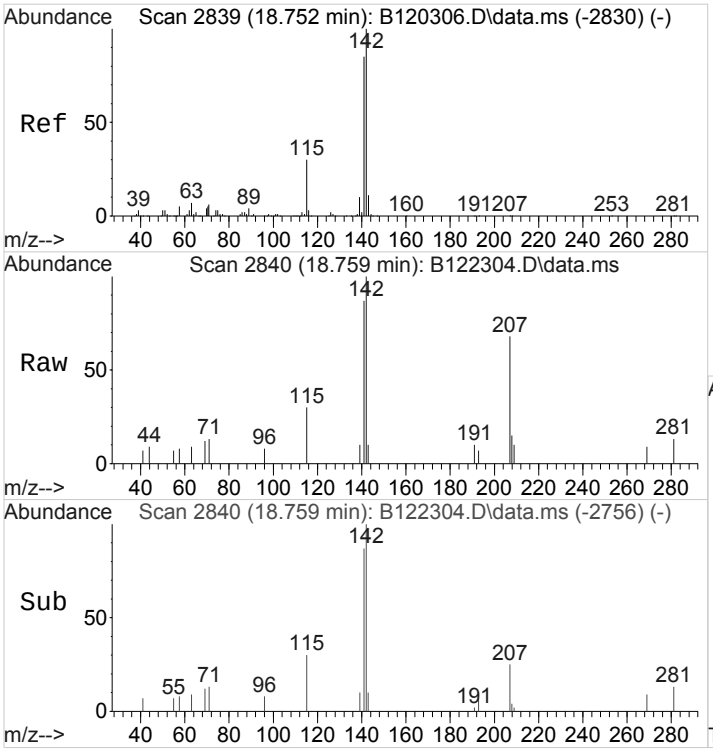


#20
hexane
Concen: Below Cal
RT: 4.109 min Scan# 431
Delta R.T. 0.005 min
Lab File: B122304.D
Acq: 23 Dec 2014 11:00 am

Tgt Ion: 57 Resp: 8666

Ion	Ratio	Lower	Upper
57	100		
56	42.6	31.3	71.3
86	18.9	0.0	36.1

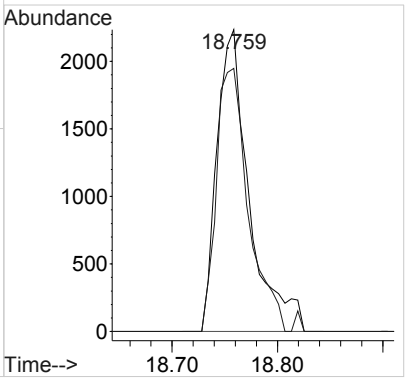




#89
2-Methylnaphthalene
Concen: 3.93 ug/L
RT: 18.759 min Scan# 2840
Delta R.T. 0.011 min
Lab File: B122304.D
Acq: 23 Dec 2014 11:00 am

Tgt Ion:142 Resp: 4778

Ion	Ratio	Lower	Upper
142	100		
141	87.2	65.1	105.1



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122305.D Vial: 3
Acq On : 23 Dec 2014 11:29 am Operator: jln
Sample : B064000-BS1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 09:40:56 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	608891	50.00	ug/L	0.00
44) chlorobenzene-d5	10.957	117	427496	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	206981	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.696	113	140822	52.57	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 105.14%			
33) 1,2-dichloroethane-d4	6.153	65	168278	51.58	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 103.16%			
47) toluene-d8	8.682	98	621518	52.73	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 105.46%			
66) 4-bromofluorobenzene	12.958	95	210749	51.17	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 102.34%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.531	85	102765	45.19	ug/L	98
3) chloromethane	1.731	50	174038	48.15	ug/L	100
5) vinyl chloride	1.829	62	190325	53.72	ug/L	99
6) bromomethane	2.157	94	68063	68.63	ug/L	99
7) chloroethane	2.273	64	125089	55.93	ug/L	98
8) trichlorofluoromethane	2.498	101	193397	50.93	ug/L	97
9) acrolein	3.033	56	20371	83.64	ug/L	99
11) 1,1-dichloroethene	3.057	96	99544	49.41	ug/L	96
12) acetone	3.191	43	40997	48.29	ug/L	99
13) iodomethane	3.258	142	5098	7.03	ug/L	95
14) carbon disulfide	3.282	76	352947	43.81	ug/L	99
15) methylene chloride	3.647	84	164232	54.69	ug/L	97
16) acrylonitrile	4.000	53	47691	52.70	ug/L	98
17) trans-1,2-dichloroethene	3.896	96	127705	51.53	ug/L	97
18) methyl-t-butyl ether	3.866	73	392428	50.61	ug/L	98
19) acetonitrile	3.580	41	17535	43.57	ug/L	98
20) hexane	4.109	57	37890	Below Cal		99
21) 1,1-dichloroethane	4.425	63	260686	51.08	ug/L	99
22) vinyl acetate	4.468	43	248791	36.03	ug/L	100
23) cis-1,2-dichloroethene	5.119	96	149970	52.13	ug/L	98
24) 2,2-dichloropropane	5.076	77	199212	50.38	ug/L	97
25) 2-butanone	5.155	43	65960	46.87	ug/L	99
27) bromochloromethane	5.417	128	66581	53.36	ug/L	96
28) chloroform	5.496	83	238202	53.07	ug/L	97
30) 1,1,1-trichloroethane	5.666	97	189810	50.87	ug/L	97
32) carbon tetrachloride	5.818	117	154326	50.74	ug/L	99
34) benzene	6.122	78	602419	52.86	ug/L	100
35) 1,1-dichloropropene	5.867	75	184316	50.76	ug/L	99
36) 1,2-dichloroethane	6.256	62	176224	51.95	ug/L	98
37) trichloroethene	6.974	95	135691	52.17	ug/L	98
39) 1,2-dichloropropane	7.351	63	161853	52.72	ug/L	99
41) dibromomethane	7.515	93	74559	52.65	ug/L	96
42) bromodichloromethane	7.728	83	176591	51.08	ug/L	97
43) 2-chloroethyl vinyl ether	8.184	63	86594	46.64	ug/L	99
45) cis-1,3-dichloropropene	8.372	75	242375	52.63	ug/L	99
46) 4-methyl-2-pentanone	8.603	43	144901	49.75	ug/L	99
48) toluene	8.780	92	369714	51.09	ug/L	98
49) 1,1,2-trichloroethane	9.516	83	101717	52.64	ug/L	99
50) 1,3-dichloropropane	9.783	76	213782	52.24	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122305.D Vial: 3
Acq On : 23 Dec 2014 11:29 am Operator: jln
Sample : B064000-BS1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 09:40:56 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

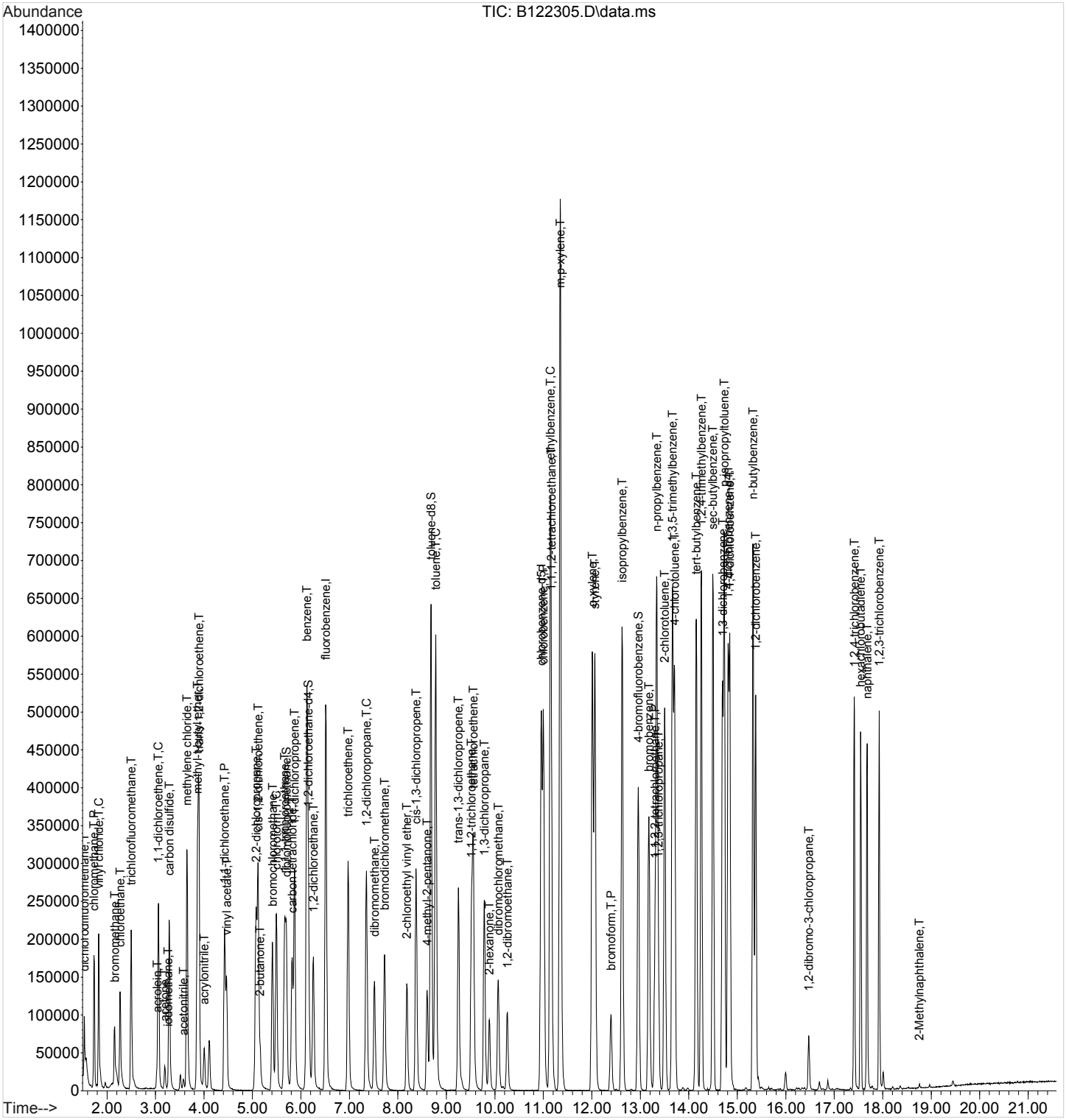
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) tetrachloroethene	9.552	164	116870	53.26	ug/L	98
52) trans-1,3-dichloropropene	9.248	75	210112	51.83	ug/L	97
53) 2-hexanone	9.887	43	97719	47.97	ug/L	100
54) dibromochloromethane	10.069	129	123269	52.33	ug/L	100
55) 1,2-dibromoethane	10.257	107	110600	52.67	ug/L	99
56) chlorobenzene	10.999	112	389452	53.09	ug/L	100
57) 1,1,1,2-tetrachloroethane	11.164	131	129620	51.66	ug/L	95
58) ethylbenzene	11.145	91	685240	51.91	ug/L	99
59) m,p-xylene	11.346	106	522155	103.13	ug/L	98
61) o-xylene	12.009	106	252699	51.61	ug/L	98
62) styrene	12.064	104	438079	53.07	ug/L	97
63) isopropylbenzene	12.623	105	645594	52.32	ug/L	99
64) bromobenzene	13.177	156	160327	52.79	ug/L	97
65) bromoform	12.392	173	78464	50.80	ug/L	98
67) 1,2,3-trichloropropane	13.371	110	40746	52.83	ug/L	85
69) n-propylbenzene	13.335	91	768414	51.73	ug/L	100
70) 2-chlorotoluene	13.505	91	454446	52.40	ug/L	100
71) 4-chlorotoluene	13.706	91	528501	52.78	ug/L	100
72) 1,3,5-trimethylbenzene	13.663	105	523698	51.47	ug/L	98
74) 1,1,2,2-tetrachloroethane	13.304	83	142680	52.01	ug/L	97
75) tert-butylbenzene	14.156	119	451881	53.11	ug/L	99
76) sec-butylbenzene	14.496	105	665103	52.46	ug/L	99
77) 1,2,4-trimethylbenzene	14.259	105	529072	51.19	ug/L	100
78) 1,3-dichlorobenzene	14.697	146	299049	54.15	ug/L	99
79) p-isopropyltoluene	14.733	119	557465	52.17	ug/L	99
81) 1,4-dichlorobenzene	14.843	146	301907	53.75	ug/L	100
82) 1,2-dichlorobenzene	15.378	146	277015	54.23	ug/L	99
83) n-butylbenzene	15.323	91	514387	53.47	ug/L	98
84) 1,2-dibromo-3-chloropr...	16.473	75	21575	50.98	ug/L	97
85) 1,2,4-trichlorobenzene	17.415	180	189382	53.00	ug/L	95
86) hexachlorobutadiene	17.543	225	104005	48.80	ug/L	99
87) naphthalene	17.677	128	386003	50.34	ug/L	100
88) 1,2,3-trichlorobenzene	17.926	180	167428	52.82	ug/L	100
89) 2-Methylnaphthalene	18.753	142	2576	3.22	ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122305.D Vial: 3
Acq On : 23 Dec 2014 11:29 am Operator: jln
Sample : B064000-BS1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 09:40:56 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122308.D Vial: 6
Acq On : 23 Dec 2014 1:10 pm Operator: jln
Sample : B064000-MS1 Inst : VOA2
Misc : L0854-02ms Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:13:52 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	600484	50.00	ug/L	0.00
44) chlorobenzene-d5	10.957	117	416070	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.813	152	198832	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.697	113	138130	52.28	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 104.56%			
33) 1,2-dichloroethane-d4	6.153	65	163194	50.72	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 101.44%			
47) toluene-d8	8.683	98	613455	53.48	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 106.96%			
66) 4-bromofluorobenzene	12.958	95	205903	51.36	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 102.72%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.531	85	91643	40.87	ug/L	96
3) chloromethane	1.732	50	155073	43.50	ug/L	98
5) vinyl chloride	1.829	62	166221	47.58	ug/L	100
6) bromomethane	2.163	94	64030	65.36	ug/L	99
7) chloroethane	2.273	64	110388	50.04	ug/L	98
8) trichlorofluoromethane	2.498	101	168480	44.99	ug/L	97
9) acrolein	3.027	56	15625	65.05	ug/L	94
11) 1,1-dichloroethene	3.063	96	92656	46.64	ug/L	94
12) acetone	3.191	43	148936	177.90	ug/L	92
13) iodomethane	3.252	142	7958	8.24	ug/L	96
14) carbon disulfide	3.282	76	334498	42.10	ug/L	99
15) methylene chloride	3.647	84	150852	50.54	ug/L	98
16) acrylonitrile	4.006	53	40340	45.20	ug/L	98
17) trans-1,2-dichloroethene	3.897	96	120873	49.45	ug/L	98
18) methyl-t-butyl ether	3.872	73	360396	47.13	ug/L	99
19) acetonitrile	3.580	41	18098	45.60	ug/L	97
20) hexane	4.109	57	23478	Below Cal		99
21) 1,1-dichloroethane	4.426	63	245555	48.79	ug/L	98
22) vinyl acetate	4.468	43	209549	30.77	ug/L	100
23) cis-1,2-dichloroethene	5.113	96	150576	53.07	ug/L	98
24) 2,2-dichloropropane	5.070	77	185563	47.58	ug/L	96
25) 2-butanone	5.155	43	83547	59.79	ug/L	99
27) bromochloromethane	5.411	128	61996	50.38	ug/L	96
28) chloroform	5.496	83	227601	51.42	ug/L	98
30) 1,1,1-trichloroethane	5.666	97	178427	48.49	ug/L	97
32) carbon tetrachloride	5.818	117	146654	48.89	ug/L	96
34) benzene	6.122	78	574795	51.14	ug/L	98
35) 1,1-dichloropropene	5.867	75	169873	47.44	ug/L	97
36) 1,2-dichloroethane	6.256	62	163155	48.77	ug/L	98
37) trichloroethene	6.974	95	161656	63.02	ug/L	99
39) 1,2-dichloropropane	7.351	63	152866	50.49	ug/L	98
41) dibromomethane	7.515	93	67443	48.30	ug/L	96
42) bromodichloromethane	7.722	83	166144	48.73	ug/L	99
45) cis-1,3-dichloropropene	8.372	75	224223	50.03	ug/L	99
46) 4-methyl-2-pentanone	8.603	43	127923	45.12	ug/L	97
48) toluene	8.780	92	347402	49.33	ug/L	96
49) 1,1,2-trichloroethane	9.522	83	159450	84.78	ug/L	95
50) 1,3-dichloropropane	9.783	76	197080	49.48	ug/L	98
51) tetrachloroethene	9.558	164	2993935	1401.77	ug/L	98

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122308.D Vial: 6
Acq On : 23 Dec 2014 1:10 pm Operator: jln
Sample : B064000-MS1 Inst : VOA2
Misc : L0854-02ms Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:13:52 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

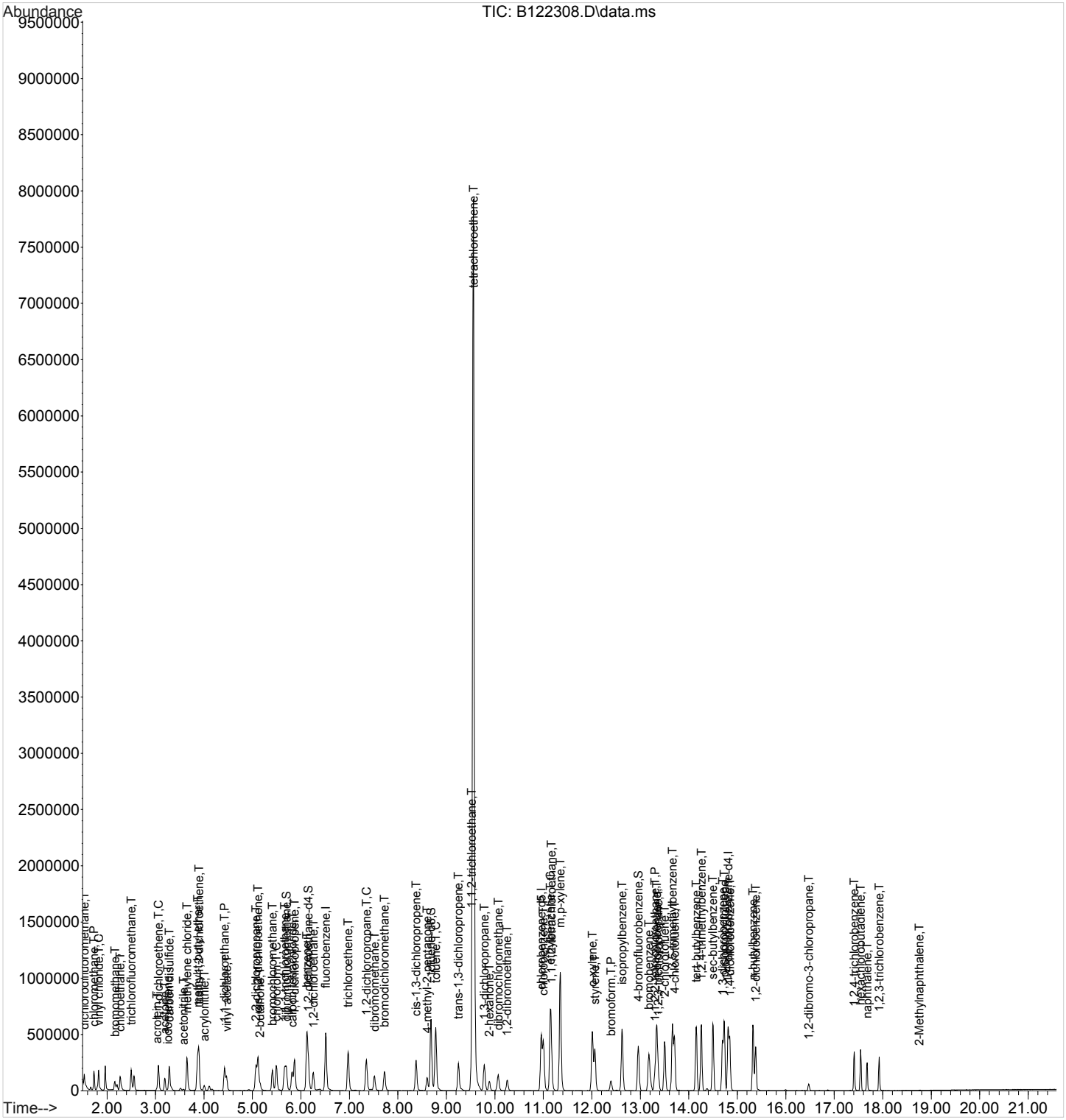
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52)	trans-1,3-dichloropropene	9.248	75	189856	48.12	ug/L		99
53)	2-hexanone	9.887	43	85403	43.08	ug/L		96
54)	dibromochloromethane	10.069	129	113131	49.34	ug/L		100
55)	1,2-dibromoethane	10.252	107	99629	48.75	ug/L		99
56)	chlorobenzene	10.999	112	351290	49.20	ug/L		99
57)	1,1,1,2-tetrachloroethane	11.164	131	122274	50.07	ug/L		97
58)	ethylbenzene	11.145	91	623545	48.53	ug/L		100
59)	m,p-xylene	11.346	106	474678	96.33	ug/L		100
61)	o-xylene	12.009	106	228908	48.04	ug/L		97
62)	styrene	12.064	104	285362	35.52	ug/L		97
63)	isopropylbenzene	12.623	105	578184	48.14	ug/L		100
64)	bromobenzene	13.177	156	138451	46.84	ug/L		98
65)	bromoform	12.392	173	68092	45.29	ug/L		99
67)	1,2,3-trichloropropane	13.365	110	35271	46.99	ug/L	#	82
69)	n-propylbenzene	13.335	91	676582	46.80	ug/L		100
70)	2-chlorotoluene	13.499	91	389417	46.13	ug/L		100
71)	4-chlorotoluene	13.706	91	446755	45.84	ug/L		99
72)	1,3,5-trimethylbenzene	13.663	105	458833	46.34	ug/L		100
74)	1,1,2,2-tetrachloroethane	13.304	83	124151	47.11	ug/L		100
75)	tert-butylbenzene	14.156	119	403749	49.39	ug/L		98
76)	sec-butylbenzene	14.496	105	571205	46.90	ug/L		99
77)	1,2,4-trimethylbenzene	14.259	105	455455	45.87	ug/L		100
78)	1,3-dichlorobenzene	14.697	146	241581	45.54	ug/L		99
79)	p-isopropyltoluene	14.733	119	479669	46.73	ug/L		100
81)	1,4-dichlorobenzene	14.849	146	243917	45.21	ug/L		99
82)	1,2-dichlorobenzene	15.378	146	217535	44.33	ug/L		98
83)	n-butylbenzene	15.323	91	423568	45.84	ug/L		98
84)	1,2-dibromo-3-chloropr...	16.473	75	17914	44.07	ug/L		90
85)	1,2,4-trichlorobenzene	17.409	180	121839	35.50	ug/L		97
86)	hexachlorobutadiene	17.543	225	79253	38.71	ug/L		97
87)	naphthalene	17.677	128	204805	27.80	ug/L		100
88)	1,2,3-trichlorobenzene	17.926	180	100059	32.86	ug/L		98
89)	2-Methylnaphthalene	18.753	142	592	2.69	ug/L	#	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122308.D Vial: 6
Acq On : 23 Dec 2014 1:10 pm Operator: jln
Sample : B064000-MS1 Inst : VOA2
Misc : L0854-02ms Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:13:52 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122309.D Vial: 7
Acq On : 23 Dec 2014 1:39 pm Operator: jln
Sample : B064000-MSD1 Inst : VOA2
Misc : L0854-02msd Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:15:30 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.513	96	590786	50.00	ug/L	0.00
44) chlorobenzene-d5	10.959	117	416542	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.808	152	192783	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.698	113	137241	52.80	ug/L	0.00
Spiked Amount 50.000	Range 64 - 139		Recovery = 105.60%			
33) 1,2-dichloroethane-d4	6.154	65	161682	51.07	ug/L	0.00
Spiked Amount 50.000	Range 52 - 162		Recovery = 102.14%			
47) toluene-d8	8.678	98	605135	52.69	ug/L	0.00
Spiked Amount 50.000	Range 67 - 143		Recovery = 105.38%			
66) 4-bromofluorobenzene	12.959	95	200337	49.92	ug/L	0.00
Spiked Amount 50.000	Range 57 - 135		Recovery = 99.84%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.532	85	98316	44.56	ug/L	100
3) chloromethane	1.733	50	165471	47.18	ug/L	98
5) vinyl chloride	1.824	62	182234	53.02	ug/L	100
6) bromomethane	2.165	94	70772	73.71	ug/L	97
7) chloroethane	2.274	64	119322	54.98	ug/L	99
8) trichlorofluoromethane	2.499	101	186826	50.71	ug/L	95
9) acrolein	3.035	56	15330	64.87	ug/L	95
11) 1,1-dichloroethene	3.059	96	94731	48.47	ug/L	97
12) acetone	3.193	43	171448	208.16	ug/L	95
13) iodomethane	3.247	142	9522	8.96	ug/L	95
14) carbon disulfide	3.284	76	336716	43.07	ug/L	99
15) methylene chloride	3.649	84	154783	52.96	ug/L	98
16) acrylonitrile	4.008	53	39989	45.54	ug/L	99
17) trans-1,2-dichloroethene	3.898	96	120588	50.15	ug/L	98
18) methyl-t-butyl ether	3.868	73	372280	49.48	ug/L	97
19) acetonitrile	3.576	41	16117	41.27	ug/L	100
20) hexane	4.111	57	21791	Below Cal		94
21) 1,1-dichloroethane	4.427	63	251995	50.89	ug/L	99
22) vinyl acetate	4.464	43	206891	30.88	ug/L	99
23) cis-1,2-dichloroethene	5.114	96	149650	53.61	ug/L	96
24) 2,2-dichloropropane	5.072	77	186682	48.66	ug/L	97
25) 2-butanone	5.157	43	93666	67.93	ug/L	99
27) bromochloromethane	5.412	128	64289	53.10	ug/L	97
28) chloroform	5.491	83	233137	53.54	ug/L	99
30) 1,1,1-trichloroethane	5.668	97	182146	50.31	ug/L	97
32) carbon tetrachloride	5.820	117	149209	50.56	ug/L	98
34) benzene	6.124	78	581824	52.62	ug/L	99
35) 1,1-dichloropropene	5.868	75	176155	50.00	ug/L	98
36) 1,2-dichloroethane	6.258	62	169065	51.36	ug/L	99
37) trichloroethene	6.975	95	143157	56.72	ug/L	100
39) 1,2-dichloropropane	7.352	63	156195	52.44	ug/L	98
41) dibromomethane	7.517	93	70028	50.97	ug/L	95
42) bromodichloromethane	7.723	83	170611	50.86	ug/L	98
45) cis-1,3-dichloropropene	8.374	75	230855	51.45	ug/L	100
46) 4-methyl-2-pentanone	8.605	43	134910	47.53	ug/L	100
48) toluene	8.781	92	357771	50.74	ug/L	97
49) 1,1,2-trichloroethane	9.523	83	129999	69.04	ug/L	95
50) 1,3-dichloropropane	9.779	76	204418	51.27	ug/L	100
51) tetrachloroethene	9.554	164	1548388	724.14	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122309.D Vial: 7
Acq On : 23 Dec 2014 1:39 pm Operator: jln
Sample : B064000-MSD1 Inst : VOA2
Misc : L0854-02msd Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:15:30 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

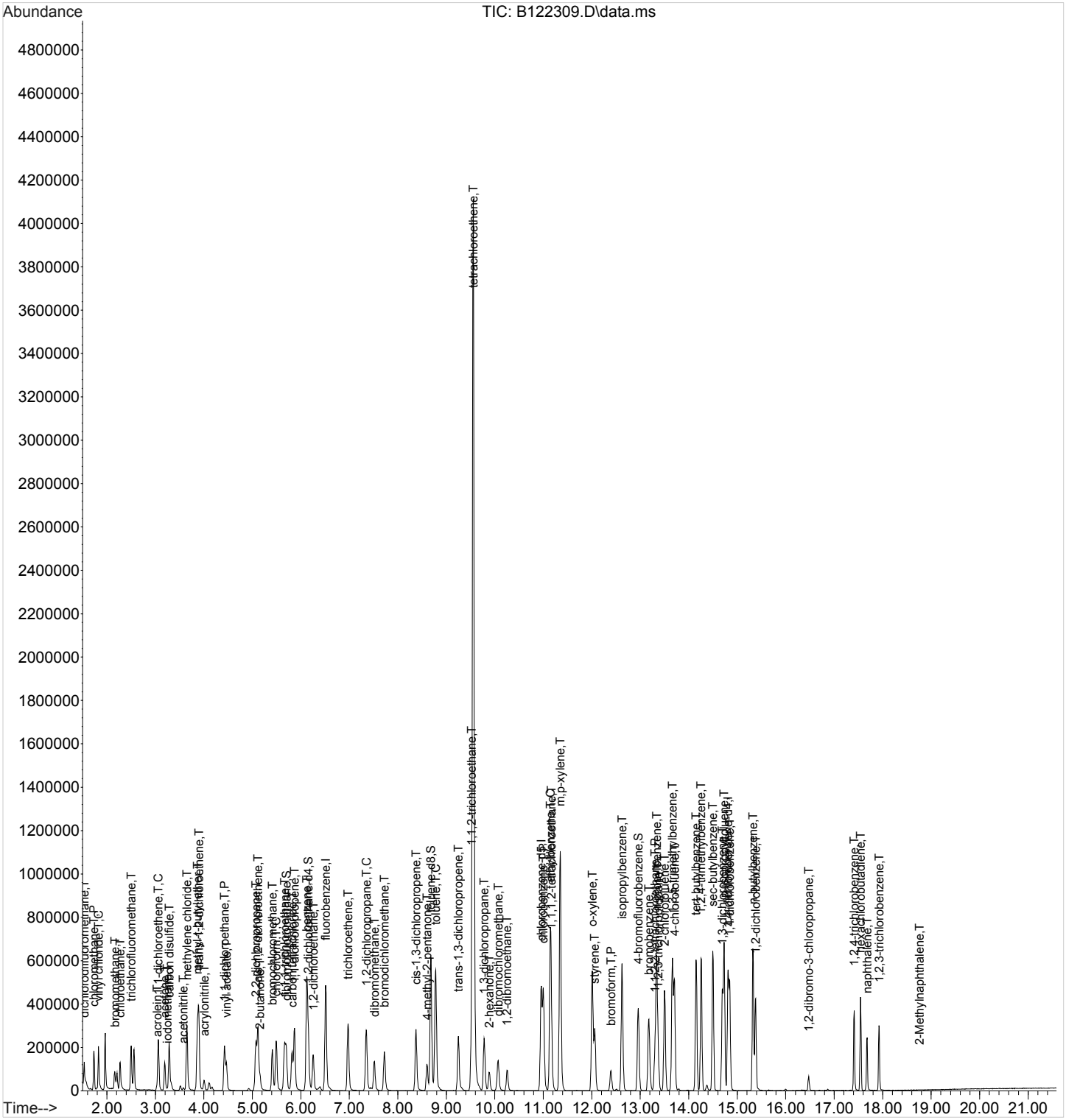
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) trans-1,3-dichloropropene	9.250	75	197682	50.04	ug/L		99
53) 2-hexanone	9.888	43	90454	45.57	ug/L		99
54) dibromochloromethane	10.071	129	116951	50.95	ug/L		98
55) 1,2-dibromoethane	10.253	107	103421	50.55	ug/L		100
56) chlorobenzene	11.001	112	368628	51.57	ug/L		99
57) 1,1,1,2-tetrachloroethane	11.165	131	129052	52.79	ug/L		98
58) ethylbenzene	11.147	91	647964	50.38	ug/L		99
59) m,p-xylene	11.348	106	497558	100.86	ug/L		100
61) o-xylene	12.011	106	236571	49.59	ug/L		99
62) styrene	12.059	104	215378	26.78	ug/L		98
63) isopropylbenzene	12.625	105	612939	50.98	ug/L		99
64) bromobenzene	13.178	156	146595	49.54	ug/L		97
65) bromoform	12.394	173	71512	47.51	ug/L		99
67) 1,2,3-trichloropropane	13.367	110	36518	48.59	ug/L	#	84
69) n-propylbenzene	13.336	91	719563	49.72	ug/L		99
70) 2-chlorotoluene	13.501	91	413713	48.96	ug/L		97
71) 4-chlorotoluene	13.707	91	482080	49.41	ug/L		99
72) 1,3,5-trimethylbenzene	13.665	105	484270	48.85	ug/L		99
74) 1,1,2,2-tetrachloroethane	13.306	83	130198	50.96	ug/L		97
75) tert-butylbenzene	14.151	119	430222	54.28	ug/L		99
76) sec-butylbenzene	14.498	105	624884	52.91	ug/L		100
77) 1,2,4-trimethylbenzene	14.255	105	478249	49.68	ug/L		99
78) 1,3-dichlorobenzene	14.692	146	260355	50.62	ug/L		98
79) p-isopropyltoluene	14.729	119	515066	51.75	ug/L		99
81) 1,4-dichlorobenzene	14.845	146	265883	50.82	ug/L		98
82) 1,2-dichlorobenzene	15.380	146	234266	49.24	ug/L		99
83) n-butylbenzene	15.325	91	468790	52.32	ug/L		98
84) 1,2-dibromo-3-chloropr...	16.474	75	18900	47.95	ug/L		98
85) 1,2,4-trichlorobenzene	17.411	180	131735	39.58	ug/L		100
86) hexachlorobutadiene	17.545	225	93796	47.25	ug/L		96
87) naphthalene	17.678	128	202319	28.33	ug/L		100
88) 1,2,3-trichlorobenzene	17.928	180	106474	36.06	ug/L		99
89) 2-Methylnaphthalene	18.761	142	385	2.64	ug/L	#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122314\B122309.D Vial: 7
Acq On : 23 Dec 2014 1:39 pm Operator: jln
Sample : B064000-MSD1 Inst : VOA2
Misc : L0854-02msd Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 10:15:30 2014
Quant Results File: SOIL120314.RES

Quant Method : C:\msdchem\1\METHODS\SOIL120314.M
Quant Title : VOA2 Soil ICAL 12/3/14
QLast Update : Fri Dec 05 09:22:22 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



METHOD BLANK DATA SHEET
SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	B064092-BLK1	File ID:	B122903.D
Prepared:	12/29/14 08:31	Preparation:	8260_5035_SB_PR	Initial/Final:	5 g / 5 ml
Analyzed:	12/29/14 10:09	Instrument:	VOA-2		
Batch:	B064092	Sequence:	S021800	Calibration:	0000296

CAS NO.	COMPOUND	CONC. (µg/Kg wet)	Q
630-20-6	1,1,1,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
78-93-3	2-Butanone	10	U
591-78-6	2-Hexanone	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
67-64-1	Acetone	50	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon Disulfide	10	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
75-09-2	Methylene chloride	20	U

METHOD BLANK DATA SHEET
SW-846 8260B

Laboratory:	Microbac Laboratories, Inc. - Chicagoland			SDG:	14L0854
Client:	IDEM - Indianapolis, IN			Project:	LQ - LQ
Matrix:	Solid	Laboratory ID:	B064092-BLK1	File ID:	B122903.D
Prepared:	12/29/14 08:31	Preparation:	8260_5035_SB_PR	Initial/Final:	5 g / 5 ml
Analyzed:	12/29/14 10:09	Instrument:	VOA-2		
Batch:	B064092	Sequence:	S021800	Calibration:	0000296

CAS NO.	COMPOUND	CONC. (µg/Kg wet)	Q
1634-04-4	Methyl-t-Butyl Ether	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
25323-30-2	Total 1,2-Dichloroethene	10	U
75-69-4	Trichlorofluoromethane	10	U
108-05-4	Vinyl Acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7T	Total Xylenes	5.0	U

SYSTEM MONITORING COMPOUND	ADDED (µg/L)	CONC (µg/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	50.00	53	106	51.7 - 162	
4-Bromofluorobenzene	50.00	50	100	57.4 - 135	
Dibromofluoromethane	50.00	52	103	63.5 - 139	
Toluene-d8	50.00	53	106	66.6 - 143	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	184614	14.808	218500	14.809	
Chlorobenzene-d5	369612	10.958	402698	10.953	
Fluorobenzene	513014	6.507	578830	6.508	

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122903.D Vial: 2
Acq On : 29 Dec 2014 10:09 am Operator: jln
Sample : B064092-BLK1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:49:28 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

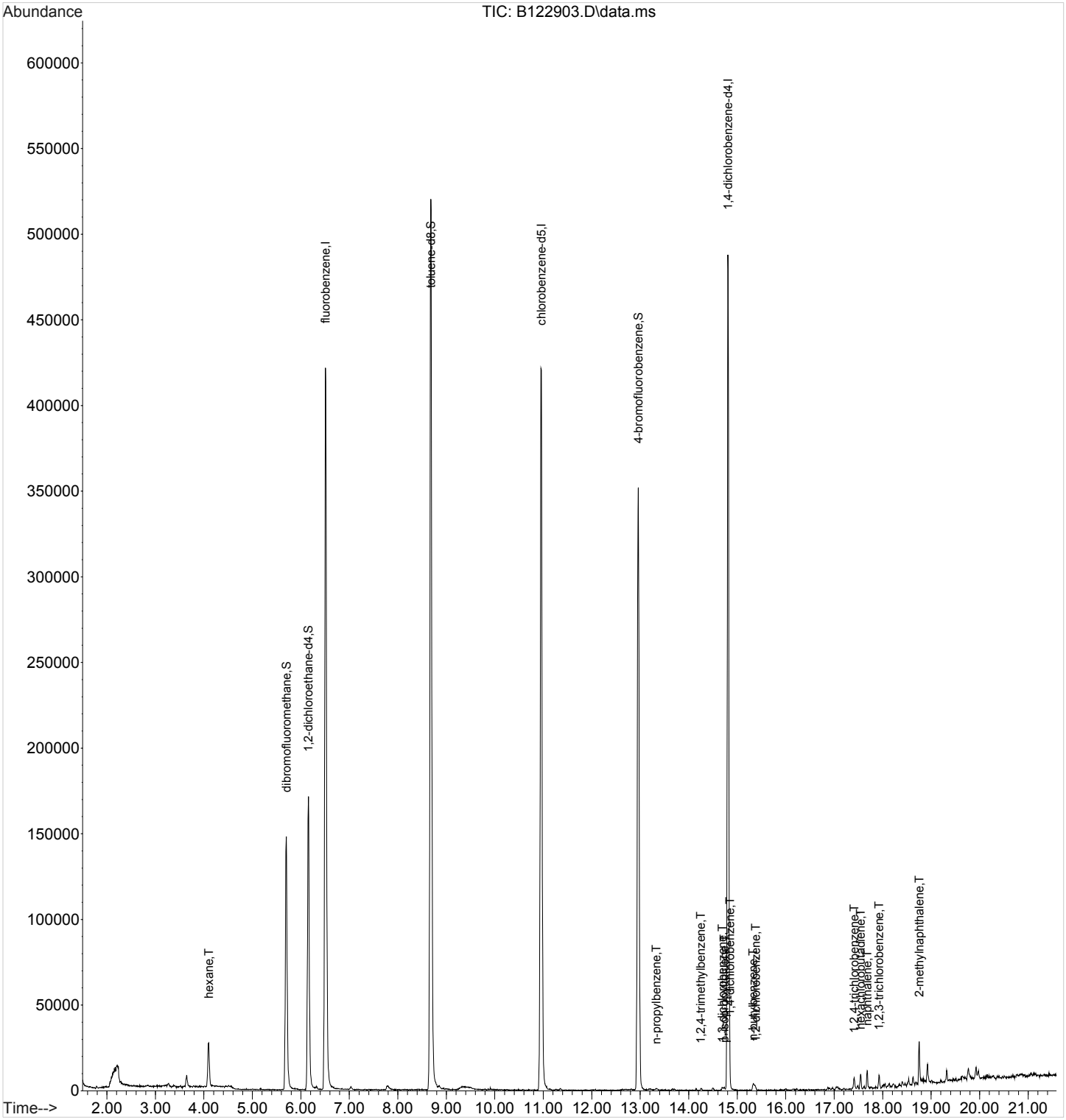
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.507	96	513014	50.00	ug/L	0.00
44) chlorobenzene-d5	10.958	117	369612	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.808	152	184614	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.698	113	117391	51.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.34%			
33) 1,2-dichloroethane-d4	6.154	65	153359	52.94	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 105.88%			
47) toluene-d8	8.678	98	524584	52.78	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.56%			
66) 4-bromofluorobenzene	12.959	95	183336	50.07	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.14%			
Target Compounds						Qvalue
13) acetone	3.204	58	55	Below Cal	#	1
15) methylene chloride	3.642	84	3052	Below Cal	#	87
20) hexane	4.098	57	14572	3.70	ug/L #	93
69) n-propylbenzene	13.330	91	1683	0.13	ug/L	91
77) 1,2,4-trimethylbenzene	14.248	105	1292	0.16	ug/L #	80
78) 1,3-dichlorobenzene	14.692	146	1257	0.27	ug/L	91
79) p-isopropyltoluene	14.735	119	1971	0.24	ug/L	85
81) 1,4-dichlorobenzene	14.850	146	1370	0.29	ug/L	82
82) 1,2-dichlorobenzene	15.379	146	1324	0.30	ug/L	96
83) n-butylbenzene	15.325	91	2897	0.41	ug/L	93
85) 1,2,4-trichlorobenzene	17.410	180	2769	1.16	ug/L	86
86) hexachlorobutadiene	17.544	225	1886	1.57	ug/L	90
87) naphthalene	17.678	128	7425	1.30	ug/L	100
88) 1,2,3-trichlorobenzene	17.921	180	3153	1.73	ug/L	91
89) 2-methylnaphthalene	18.754	142	13780	10.93	ug/L	92

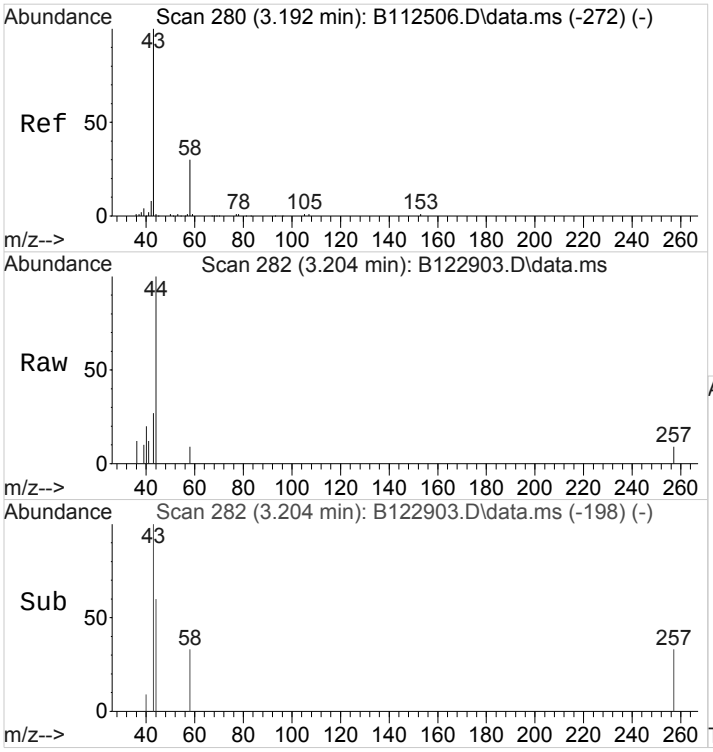
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122903.D Vial: 2
Acq On : 29 Dec 2014 10:09 am Operator: jln
Sample : B064092-BLK1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:49:28 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

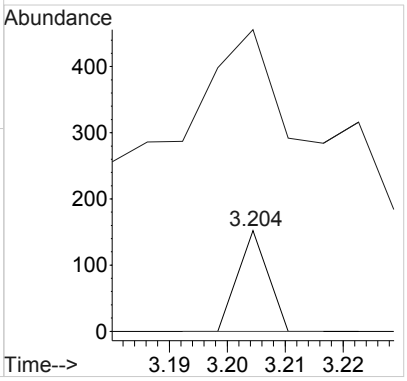


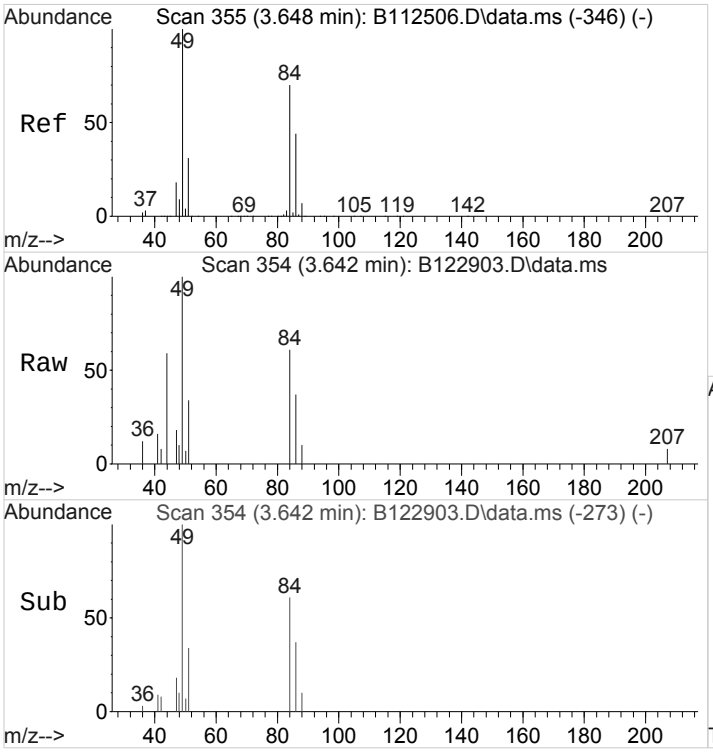


#13
acetone
Concen: Below Cal
RT: 3.204 min Scan# 282
Delta R.T. 0.012 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion: 58 Resp: 55

Ion	Ratio	Lower	Upper
58	100		
43	113.2	318.5	358.5#

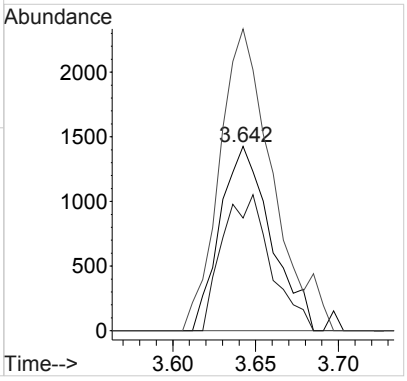


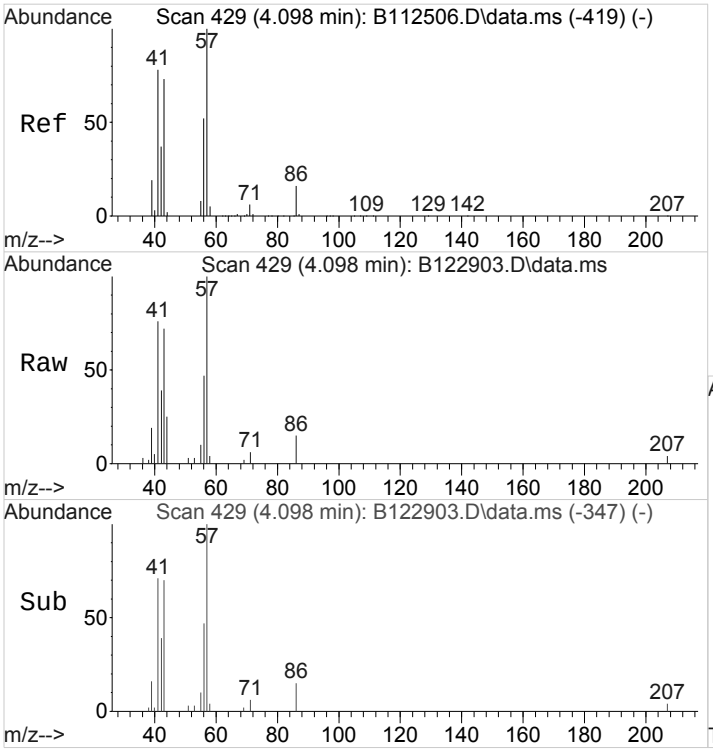


#15
methylene chloride
Concen: Below Cal
RT: 3.642 min Scan# 354
Delta R.T. -0.006 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion: 84 Resp: 3052

Ion	Ratio	Lower	Upper
84	100		
86	61.1	42.3	82.3
49	163.7	122.2	162.2#

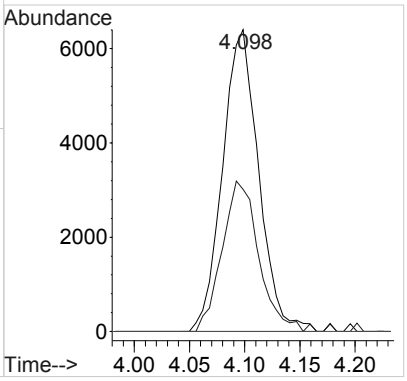


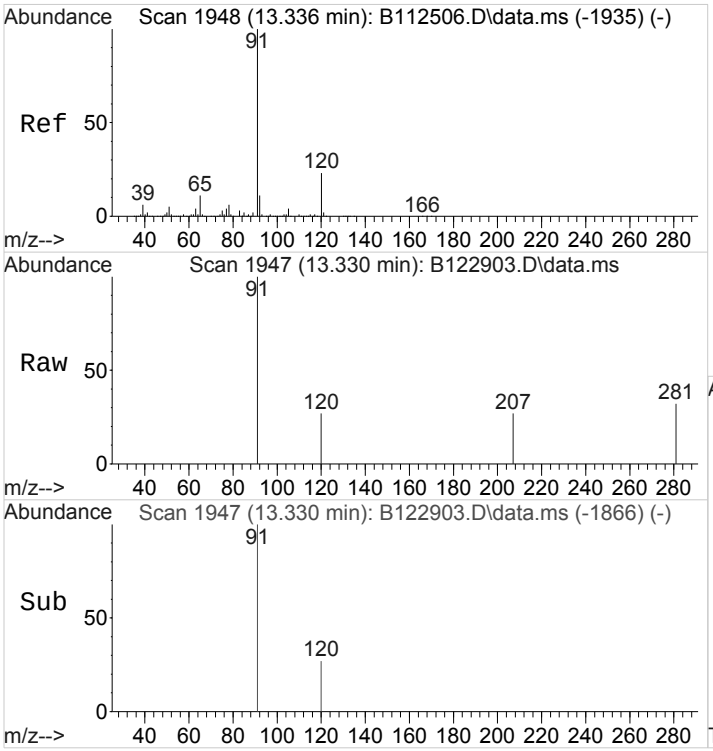


#20
hexane
Concen: 3.70 ug/L
RT: 4.098 min Scan# 429
Delta R.T. 0.000 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion: 57 Resp: 14572

Ion	Ratio	Lower	Upper
57	100		
56	47.1	41.4	62.2
80	0.0	0.1	0.1#

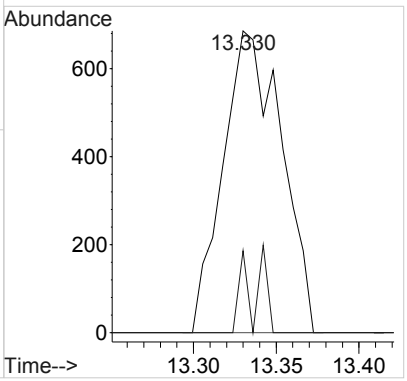


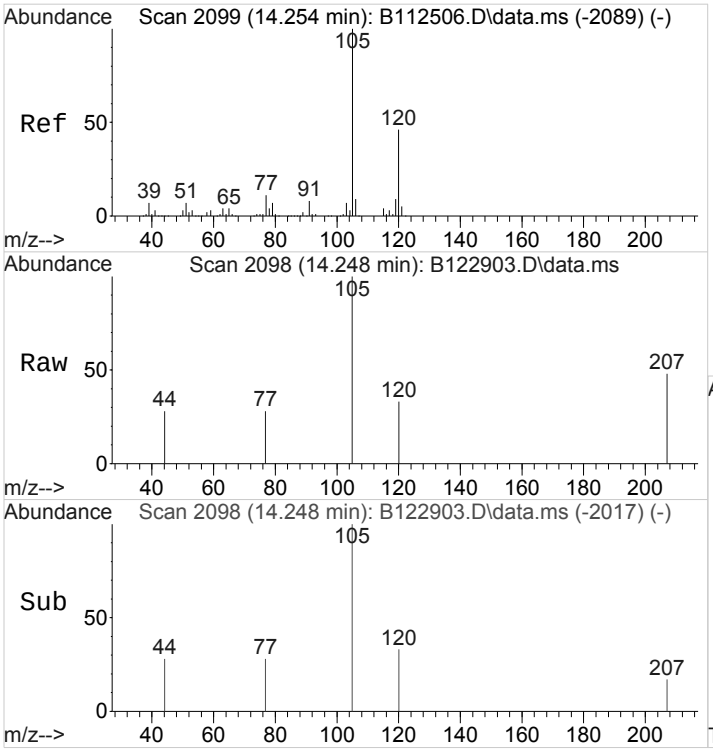


#69
n-propylbenzene
Concen: 0.13 ug/L
RT: 13.330 min Scan# 1947
Delta R.T. -0.006 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion: 91 Resp: 1683

Ion	Ratio	Lower	Upper
91	100		
120	27.1	18.3	27.5

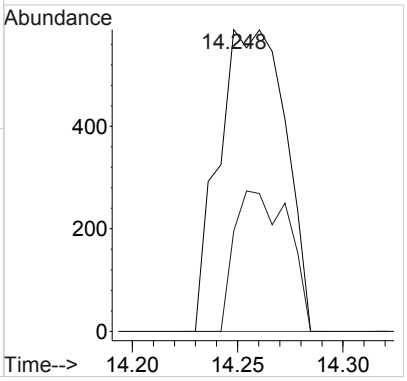


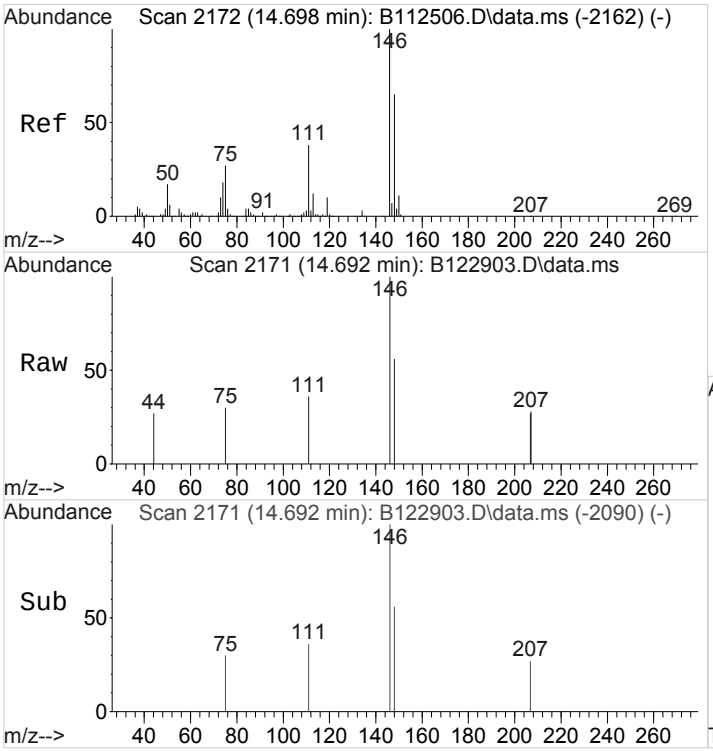


#77
1,2,4-trimethylbenzene
Concen: 0.16 ug/L
RT: 14.248 min Scan# 2098
Delta R.T. -0.006 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:105 Resp: 1292

Ion	Ratio	Lower	Upper
105	100		
120	33.3	37.3	55.9#

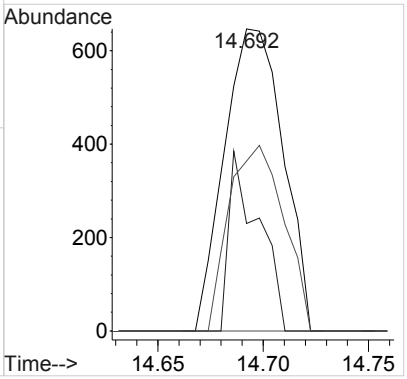


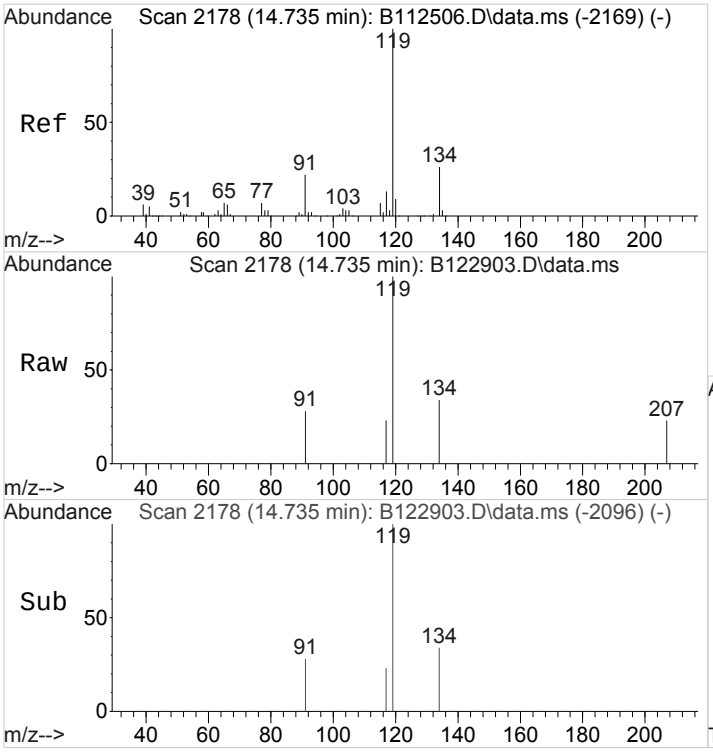


#78
1,3-dichlorobenzene
Concen: 0.27 ug/L
RT: 14.692 min Scan# 2171
Delta R.T. -0.006 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:146 Resp: 1257

Ion	Ratio	Lower	Upper
146	100		
111	35.5	18.4	58.4
148	56.3	45.4	85.4

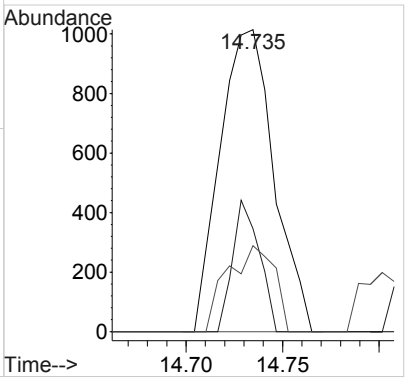


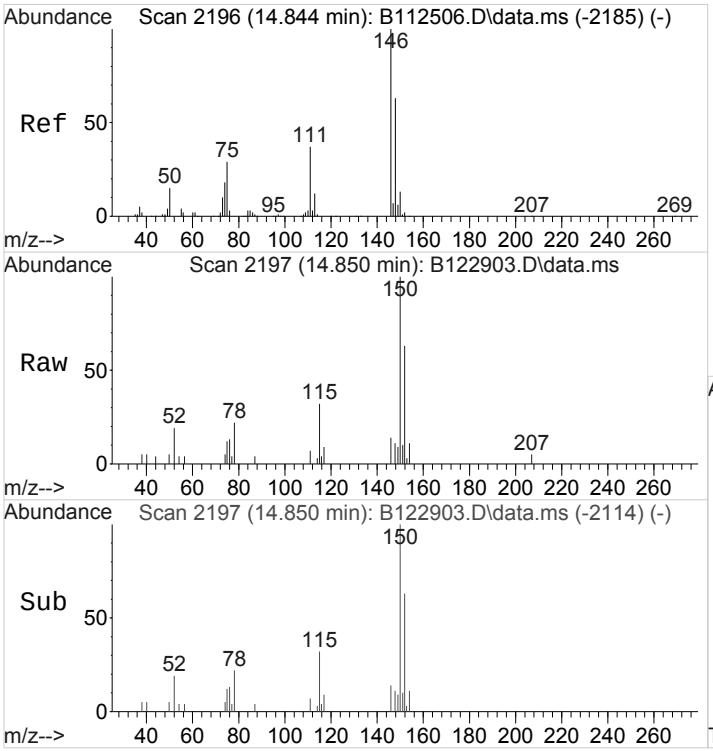


#79
p-isopropyltoluene
Concen: 0.24 ug/L
RT: 14.735 min Scan# 2178
Delta R.T. 0.000 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:119 Resp: 1971

Ion	Ratio	Lower	Upper
119	100		
134	34.1	6.4	46.4
91	28.5	1.6	41.6

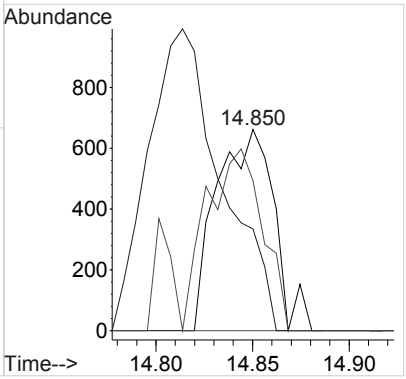


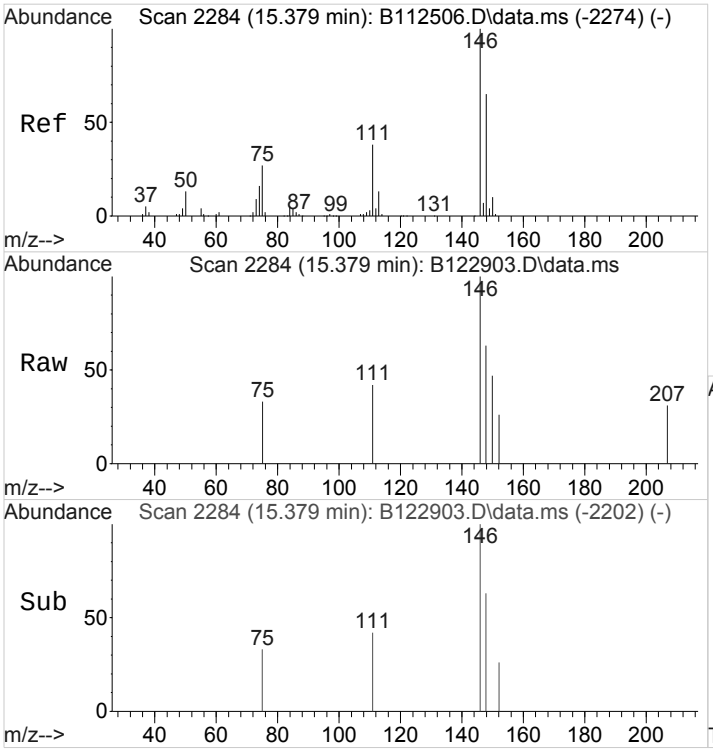


#81
1,4-dichlorobenzene
Concen: 0.29 ug/L
RT: 14.850 min Scan# 2197
Delta R.T. 0.006 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:146 Resp: 1370

Ion	Ratio	Lower	Upper
146	100		
111	50.6	17.2	57.2
148	74.6	43.1	83.1

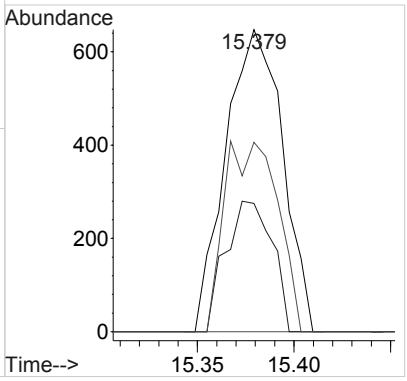


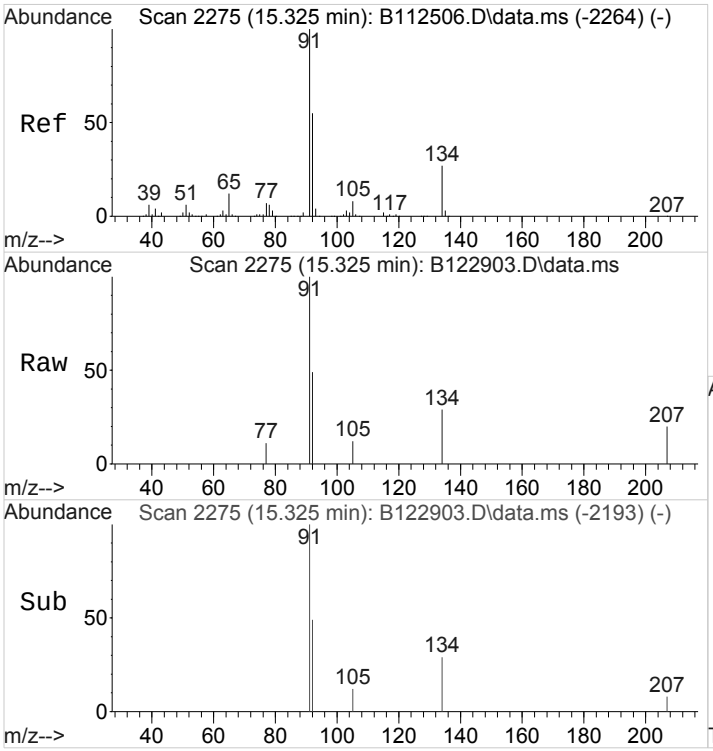


#82
1,2-dichlorobenzene
Concen: 0.30 ug/L
RT: 15.379 min Scan# 2284
Delta R.T. 0.000 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:146 Resp: 1324

Ion	Ratio	Lower	Upper
146	100		
111	42.4	18.3	58.3
148	62.7	44.7	84.7

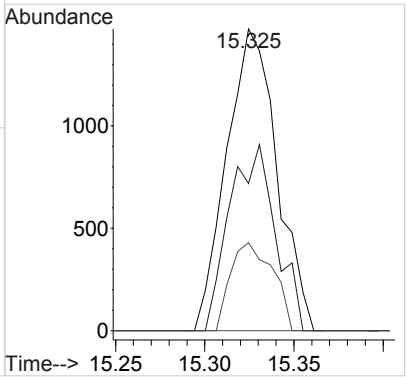


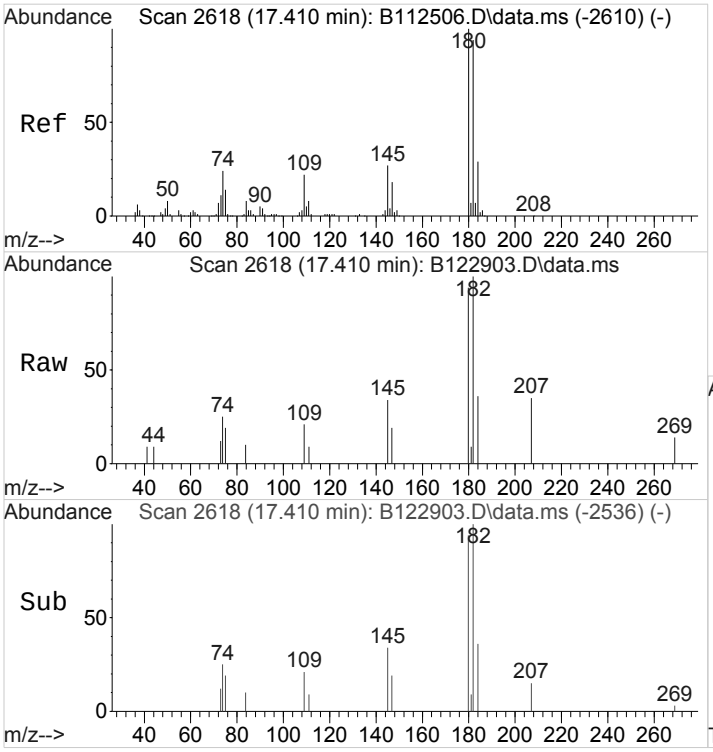


#83
n-butylbenzene
Concen: 0.41 ug/L
RT: 15.325 min Scan# 2275
Delta R.T. 0.000 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion: 91 Resp: 2897

Ion	Ratio	Lower	Upper
91	100		
92	48.7	35.4	75.4
134	29.2	7.4	47.4

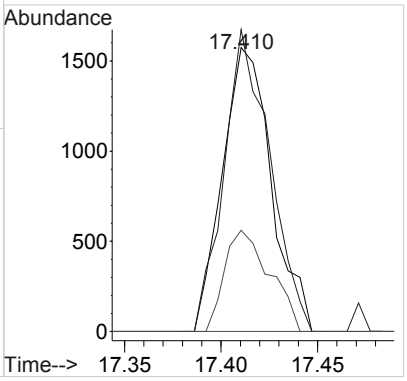


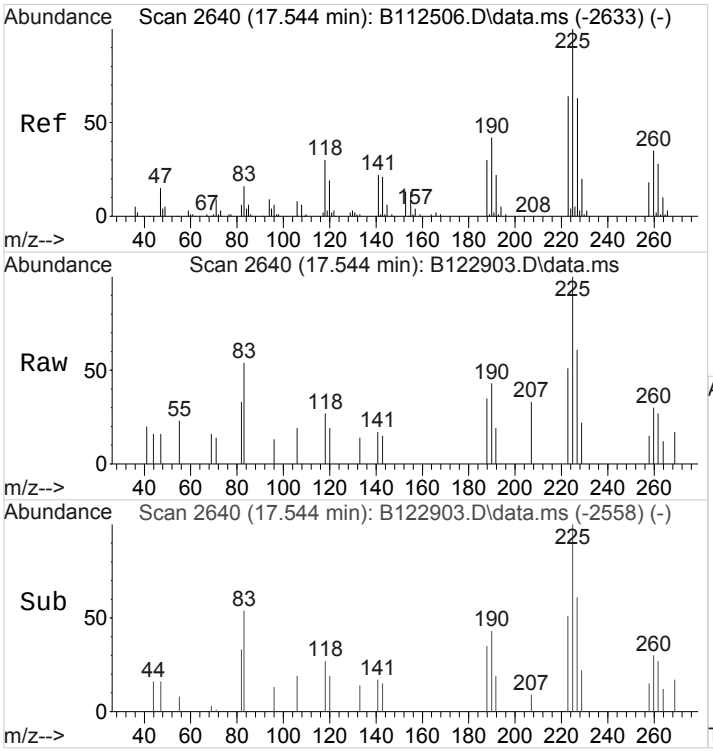


#85
1,2,4-trichlorobenzene
Concen: 1.16 ug/L
RT: 17.410 min Scan# 2618
Delta R.T. 0.000 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:180 Resp: 2769

Ion	Ratio	Lower	Upper
180	100		
182	106.4	74.1	114.1
145	35.7	6.8	46.8

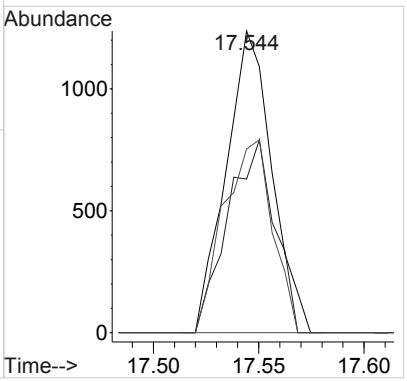


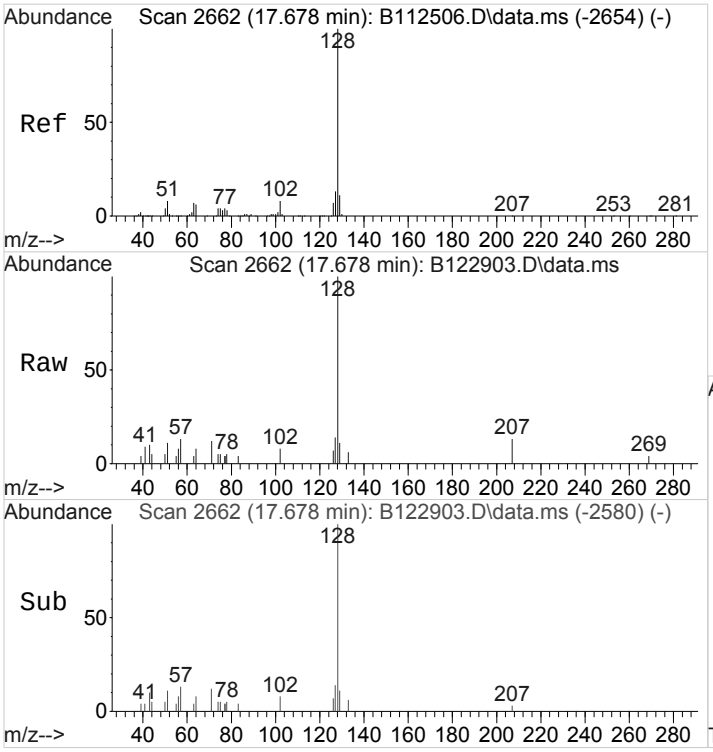


#86
hexachlorobutadiene
Concen: 1.57 ug/L
RT: 17.544 min Scan# 2640
Delta R.T. 0.000 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:225 Resp: 1886

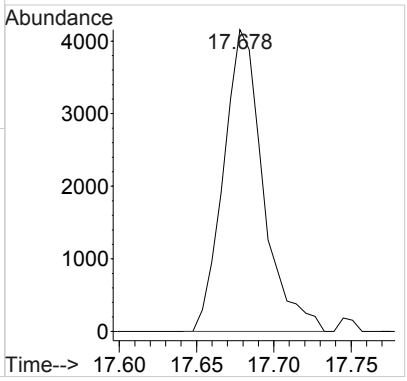
Ion	Ratio	Lower	Upper
225	100		
223	50.9	43.9	83.9
227	60.9	42.7	82.7

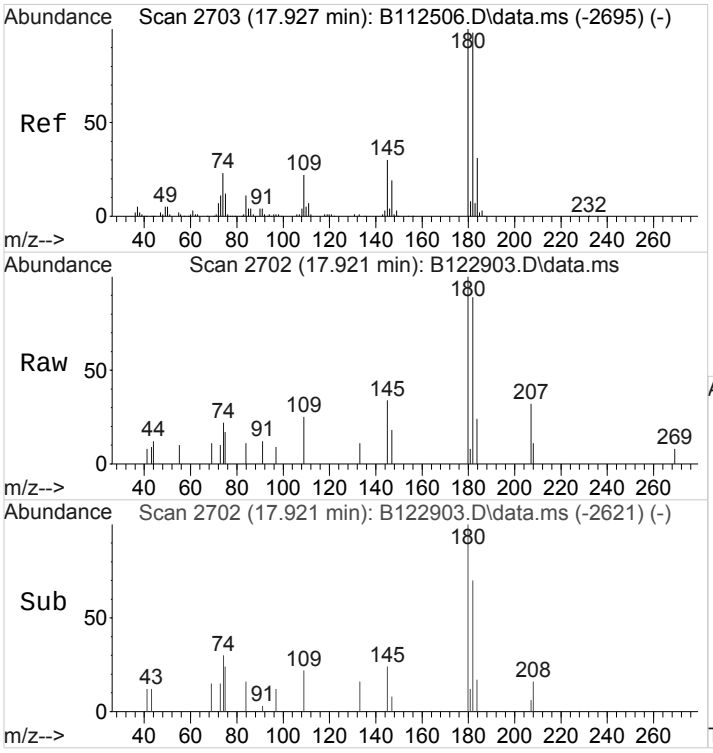




#87
naphthalene
Concen: 1.30 ug/L
RT: 17.678 min Scan# 2662
Delta R.T. 0.000 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:128 Resp: 7425

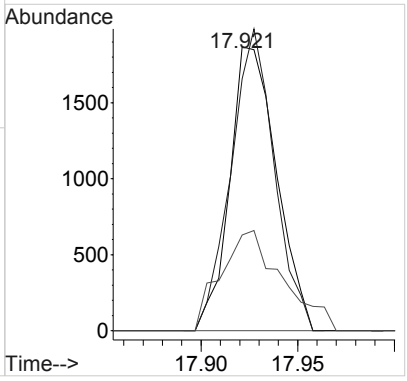


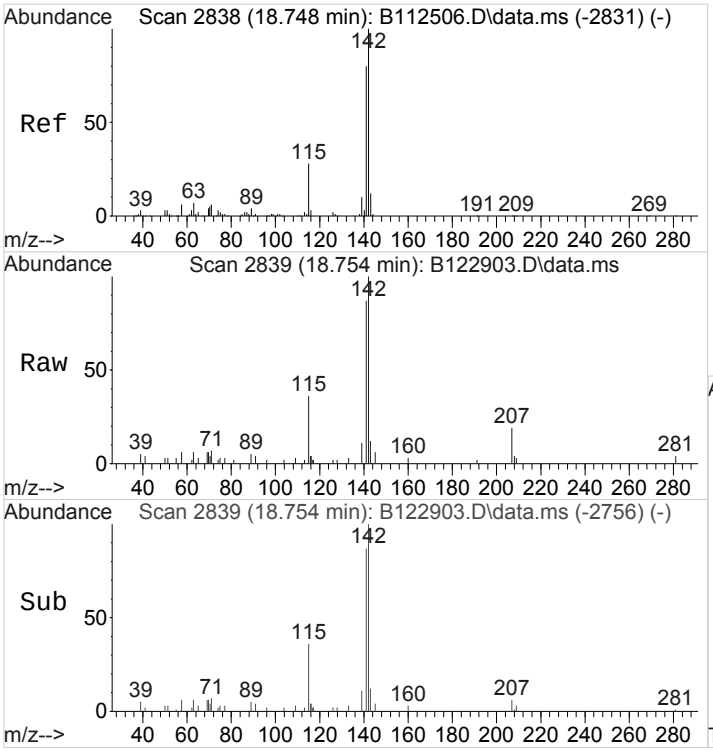


#88
1,2,3-trichlorobenzene
Concen: 1.73 ug/L
RT: 17.921 min Scan# 2702
Delta R.T. -0.006 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:180 Resp: 3153

Ion	Ratio	Lower	Upper
180	100		
182	88.7	78.3	118.3
145	33.7	9.5	49.5

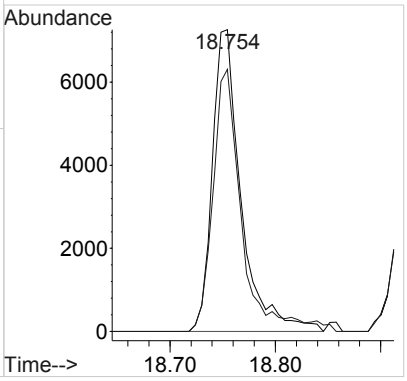




#89
2-methylnaphthalene
Concen: 10.93 ug/L
RT: 18.754 min Scan# 2839
Delta R.T. 0.006 min
Lab File: B122903.D
Acq: 29 Dec 2014 10:09 am

Tgt Ion:142 Resp: 13780

Ion	Ratio	Lower	Upper
142	100		
141	86.8	60.0	100.0



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122904.D Vial: 3
Acq On : 29 Dec 2014 10:39 am Operator: jln
Sample : B064092-BS1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:50:45 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	545513	50.00	ug/L	0.00
44) chlorobenzene-d5	10.957	117	381363	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	197771	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.696	113	125267	51.85	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.70%			
33) 1,2-dichloroethane-d4	6.152	65	156008	50.65	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 101.30%			
47) toluene-d8	8.682	98	554439	54.06	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 108.12%			
66) 4-bromofluorobenzene	12.957	95	193372	51.18	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.36%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.531	85	109841	46.51	ug/L	99
3) chloromethane	1.725	50	151768	47.20	ug/L	100
4) vinyl chloride	1.829	62	168383	52.52	ug/L	98
6) bromomethane	2.139	94	18890	56.11	ug/L	97
7) chloroethane	2.230	64	98333	48.72	ug/L	98
8) trichlorofluoromethane	2.467	101	176929	47.78	ug/L	100
9) acrolein	3.027	56	29548	89.78	ug/L	95
11) 1,1-dichloroethene	3.051	96	98715	49.09	ug/L	98
12) iodomethane	3.245	142	4417	10.73	ug/L	99
13) acetone	3.197	58	14991	46.61	ug/L	98
14) carbon disulfide	3.276	76	346060	48.27	ug/L	99
15) methylene chloride	3.647	84	128930	47.81	ug/L	97
16) acrylonitrile	4.006	53	72829	51.57	ug/L	99
17) trans-1,2-dichloroethene	3.890	96	116977	49.01	ug/L	100
18) methyl-t-butyl ether	3.872	73	424354	51.42	ug/L	100
19) acetonitrile	3.586	41	24086	42.15	ug/L	97
20) hexane	4.097	57	16918	4.04	ug/L #	100
21) 1,1-dichloroethane	4.419	63	250517	49.96	ug/L	100
22) vinyl acetate	4.462	43	306488	33.90	ug/L	99
23) cis-1,2-dichloroethene	5.112	96	139214	48.90	ug/L	98
24) 2,2-dichloropropane	5.070	77	190880	46.37	ug/L	99
25) 2-butanone	5.167	72	18939	48.32	ug/L	79
27) bromochloromethane	5.410	128	65324	51.39	ug/L	93
28) chloroform	5.489	83	220557	51.15	ug/L	99
30) 1,1,1-trichloroethane	5.660	97	180297	49.84	ug/L	97
32) carbon tetrachloride	5.812	117	151939	50.04	ug/L	97
34) benzene	6.122	78	554597	51.64	ug/L	99
35) 1,1-dichloropropene	5.860	75	172455	50.44	ug/L	99
36) 1,2-dichloroethane	6.256	62	174736	51.25	ug/L	96
37) trichloroethene	6.973	95	126458	50.06	ug/L	99
39) 1,2-dichloropropane	7.350	63	150539	51.48	ug/L	100
41) dibromomethane	7.515	93	77354	47.60	ug/L	99
42) bromodichloromethane	7.721	83	165571	47.02	ug/L	98
43) 2-chloroethyl vinyl ether	8.184	63	98246	44.83	ug/L	98
45) cis-1,3-dichloropropene	8.372	75	232156	51.92	ug/L	98
46) 4-methyl-2-pentanone	8.609	43	161194	49.52	ug/L	99
48) toluene	8.780	92	345909	53.67	ug/L	100
49) 1,1,2-trichloroethane	9.515	83	105205	49.77	ug/L	100
50) 1,3-dichloropropane	9.783	76	222538	52.57	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122904.D Vial: 3
Acq On : 29 Dec 2014 10:39 am Operator: jln
Sample : B064092-BS1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:50:45 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

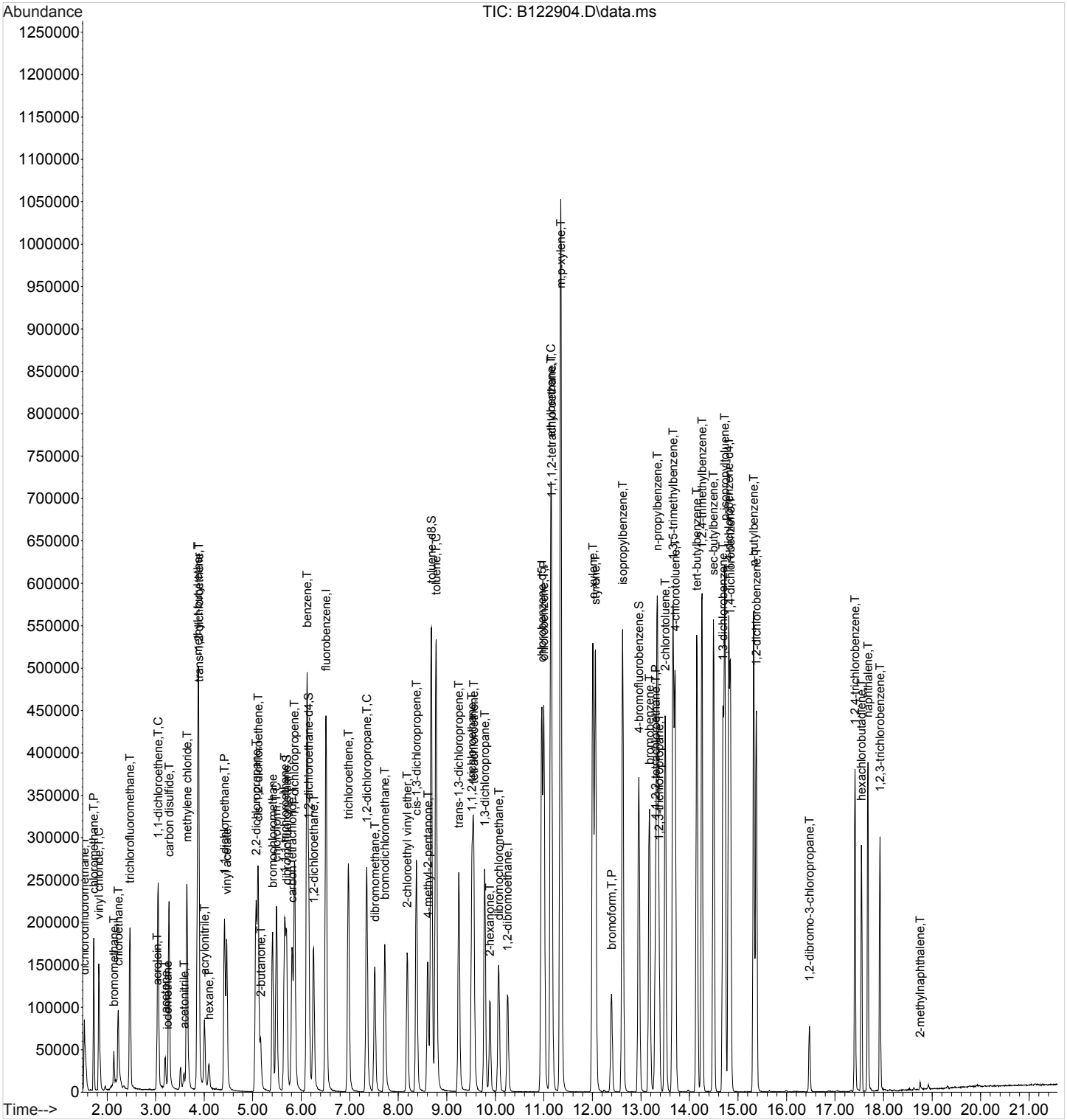
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) tetrachloroethene	9.552	164	108229	53.79	ug/L	97
52) trans-1,3-dichloropropene	9.248	75	206062	49.33	ug/L	97
53) 2-hexanone	9.886	43	105079	47.48	ug/L	99
54) dibromochloromethane	10.069	129	125111	50.07	ug/L	97
55) 1,2-dibromoethane	10.251	107	122220	51.69	ug/L	99
56) chlorobenzene	10.999	112	360714	53.79	ug/L	98
57) 1,1,1,2-tetrachloroethane	11.157	131	124873	51.81	ug/L	98
58) ethylbenzene	11.145	91	617622	51.23	ug/L	99
59) m,p-xylene	11.346	106	472716	104.89	ug/L	99
61) o-xylene	12.009	106	231384	51.99	ug/L	97
62) styrene	12.063	104	401572	51.77	ug/L	98
63) isopropylbenzene	12.623	105	573452	52.57	ug/L	100
64) bromobenzene	13.176	156	151951	53.54	ug/L	99
65) bromoform	12.392	173	85894	47.94	ug/L	97
67) 1,2,3-trichloropropane	13.371	75	130443	49.06	ug/L	98
69) n-propylbenzene	13.334	91	662501	51.38	ug/L	99
70) 2-chlorotoluene	13.499	91	398845	52.18	ug/L	100
71) 4-chlorotoluene	13.705	91	463660	51.81	ug/L	97
72) 1,3,5-trimethylbenzene	13.663	105	459951	51.56	ug/L	97
74) 1,1,2,2-tetrachloroethane	13.304	83	154664	50.26	ug/L	99
75) tert-butylbenzene	14.149	119	388961	53.56	ug/L	99
76) sec-butylbenzene	14.496	105	547767	52.49	ug/L	99
77) 1,2,4-trimethylbenzene	14.259	105	469728	53.20	ug/L	99
78) 1,3-dichlorobenzene	14.691	146	265040	53.96	ug/L	98
79) p-isopropyltoluene	14.727	119	467090	52.25	ug/L	100
81) 1,4-dichlorobenzene	14.843	146	274389	54.65	ug/L	99
82) 1,2-dichlorobenzene	15.378	146	253901	54.18	ug/L	99
83) n-butylbenzene	15.323	91	400461	52.37	ug/L	99
84) 1,2-dibromo-3-chloropr...	16.472	75	23104	47.88	ug/L	84
85) 1,2,4-trichlorobenzene	17.409	180	136761	53.31	ug/L	98
86) hexachlorobutadiene	17.543	225	63805	49.50	ug/L	97
87) naphthalene	17.676	128	323600	52.86	ug/L	100
88) 1,2,3-trichlorobenzene	17.926	180	107263	54.78	ug/L	98
89) 2-methylnaphthalene	18.753	142	4993	3.70	ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122904.D Vial: 3
Acq On : 29 Dec 2014 10:39 am Operator: jln
Sample : B064092-BS1 Inst : VOA2
Misc : 8260 Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 29 14:50:45 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122908.D Vial: 7
Acq On : 29 Dec 2014 1:57 pm Operator: jln
Sample : B064092-MS1 Inst : VOA2
Misc : L0854-02re1ms Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 14:56:49 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.511	96	524847	50.00	ug/L	0.00
44) chlorobenzene-d5	10.956	117	379969	50.00	ug/L	0.00
73) 1,4-dichlorobenzene-d4	14.812	152	199773	50.00	ug/L	0.00
System Monitoring Compounds						
29) dibromofluoromethane	5.696	113	120598	51.89	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.78%			
33) 1,2-dichloroethane-d4	6.158	65	152092	51.32	ug/L	0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 102.64%			
47) toluene-d8	8.682	98	538724	52.72	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.44%			
66) 4-bromofluorobenzene	12.957	95	194782	51.75	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.50%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.530	85	113714	50.05	ug/L	99
3) chloromethane	1.725	50	158461	51.23	ug/L	100
4) vinyl chloride	1.822	62	178985	58.02	ug/L	99
6) bromomethane	2.138	94	27762	76.64	ug/L	97
7) chloroethane	2.248	64	113688	58.54	ug/L	99
8) trichlorofluoromethane	2.485	101	182856	51.33	ug/L	100
9) acrolein	3.026	56	28456	89.87	ug/L	97
11) 1,1-dichloroethene	3.057	96	98481	50.90	ug/L	98
12) iodomethane	3.245	142	3609	10.30	ug/L	96
13) acetone	3.197	58	14423	46.61	ug/L	99
14) carbon disulfide	3.282	76	366399	53.12	ug/L	100
15) methylene chloride	3.647	84	131282	50.70	ug/L	96
16) acrylonitrile	4.005	53	71656	52.73	ug/L	95
17) trans-1,2-dichloroethene	3.890	96	116260	50.63	ug/L	99
18) methyl-t-butyl ether	3.872	73	427139	53.79	ug/L	99
19) acetonitrile	3.574	41	23242	42.28	ug/L	96
20) hexane	4.103	57	6410	1.59	ug/L #	100
21) 1,1-dichloroethane	4.419	63	248539	51.52	ug/L	99
22) vinyl acetate	4.468	43	307401	35.34	ug/L	99
23) cis-1,2-dichloroethene	5.112	96	139991	51.16	ug/L	99
24) 2,2-dichloropropane	5.070	77	191149	48.26	ug/L	100
25) 2-butanone	5.167	72	17944	47.58	ug/L	91
27) bromochloromethane	5.410	128	66153	54.09	ug/L	97
28) chloroform	5.489	83	218995	52.79	ug/L	98
30) 1,1,1-trichloroethane	5.659	97	183632	52.76	ug/L	97
32) carbon tetrachloride	5.811	117	152803	52.31	ug/L	95
34) benzene	6.122	78	555489	53.76	ug/L	100
35) 1,1-dichloropropene	5.866	75	172722	52.50	ug/L	99
36) 1,2-dichloroethane	6.255	62	174794	53.28	ug/L	98
37) trichloroethene	6.973	95	125759	51.75	ug/L	98
39) 1,2-dichloropropane	7.350	63	148813	52.90	ug/L	99
41) dibromomethane	7.514	93	78007	49.89	ug/L	98
42) bromodichloromethane	7.721	83	164705	48.61	ug/L	100
43) 2-chloroethyl vinyl ether	8.183	63	98167	46.56	ug/L	98
45) cis-1,3-dichloropropene	8.378	75	232724	52.23	ug/L	98
46) 4-methyl-2-pentanone	8.609	43	165638	51.07	ug/L	99
48) toluene	8.779	92	344445	53.64	ug/L	100
49) 1,1,2-trichloroethane	9.521	83	108749	51.63	ug/L	97
50) 1,3-dichloropropane	9.783	76	226234	53.64	ug/L	99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122908.D Vial: 7
Acq On : 29 Dec 2014 1:57 pm Operator: jln
Sample : B064092-MS1 Inst : VOA2
Misc : L0854-02re1ms Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 14:56:49 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

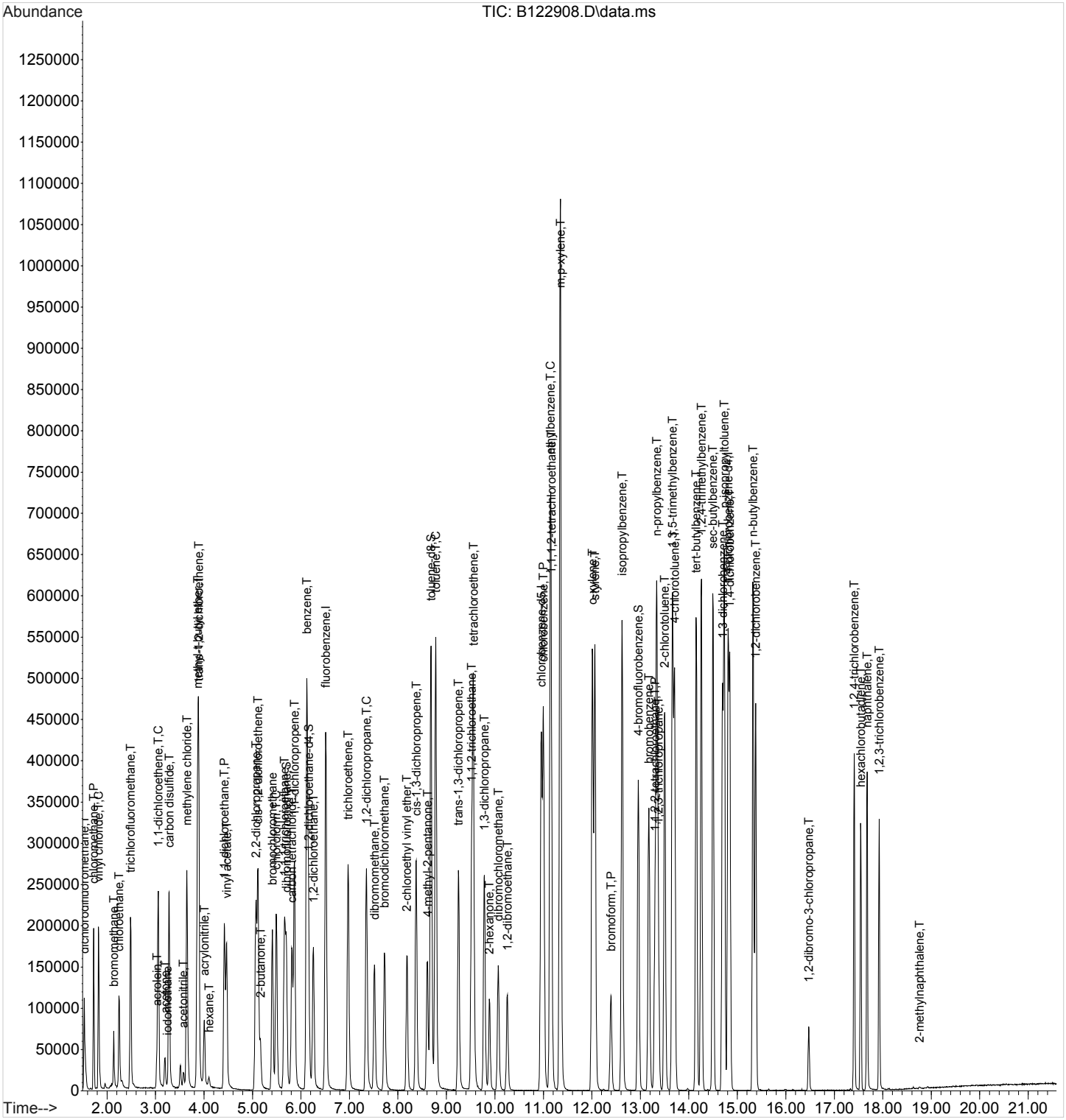
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) tetrachloroethene	9.558	164	180893	90.23	ug/L	99
52) trans-1,3-dichloropropene	9.247	75	207465	49.85	ug/L	98
53) 2-hexanone	9.886	43	106494	48.30	ug/L	99
54) dibromochloromethane	10.068	129	124761	50.11	ug/L	98
55) 1,2-dibromoethane	10.257	107	122067	51.81	ug/L	100
56) chlorobenzene	10.999	112	361156	54.06	ug/L	100
57) 1,1,1,2-tetrachloroethane	11.163	131	123661	51.49	ug/L	97
58) ethylbenzene	11.145	91	626250	52.13	ug/L	98
59) m,p-xylene	11.352	106	487419	108.55	ug/L	99
61) o-xylene	12.008	106	234626	52.92	ug/L	100
62) styrene	12.063	104	412592	53.39	ug/L	98
63) isopropylbenzene	12.623	105	600772	55.27	ug/L	99
64) bromobenzene	13.176	156	154451	54.62	ug/L	100
65) bromoform	12.392	173	87334	48.92	ug/L	97
67) 1,2,3-trichloropropane	13.371	75	132841	50.14	ug/L	97
69) n-propylbenzene	13.334	91	705119	54.88	ug/L	100
70) 2-chlorotoluene	13.504	91	411156	53.99	ug/L	99
71) 4-chlorotoluene	13.705	91	481472	53.99	ug/L	99
72) 1,3,5-trimethylbenzene	13.663	105	484730	54.54	ug/L	99
74) 1,1,2,2-tetrachloroethane	13.304	83	155493	50.03	ug/L	98
75) tert-butylbenzene	14.149	119	416367	56.76	ug/L	99
76) sec-butylbenzene	14.496	105	601856	57.10	ug/L	100
77) 1,2,4-trimethylbenzene	14.258	105	488566	54.78	ug/L	100
78) 1,3-dichlorobenzene	14.696	146	276302	55.69	ug/L	99
79) p-isopropyltoluene	14.733	119	513037	56.82	ug/L	99
81) 1,4-dichlorobenzene	14.842	146	282050	55.61	ug/L	98
82) 1,2-dichlorobenzene	15.377	146	261208	55.18	ug/L	97
83) n-butylbenzene	15.323	91	446488	57.81	ug/L	100
84) 1,2-dibromo-3-chloropr...	16.472	75	22784	46.74	ug/L	90
85) 1,2,4-trichlorobenzene	17.409	180	145654	56.21	ug/L	98
86) hexachlorobutadiene	17.548	225	73090	56.14	ug/L	99
87) naphthalene	17.676	128	325509	52.63	ug/L	100
88) 1,2,3-trichlorobenzene	17.926	180	113371	57.32	ug/L	99
89) 2-methylnaphthalene	18.759	142	1376	1.01	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122908.D Vial: 7
Acq On : 29 Dec 2014 1:57 pm Operator: jln
Sample : B064092-MS1 Inst : VOA2
Misc : L0854-02re1ms Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 14:56:49 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122909.D Vial: 8
Acq On : 29 Dec 2014 2:26 pm Operator: jln
Sample : B064092-MSD1 Inst : VOA2
Misc : L0854-02re1msd Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 15:00:10 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	6.513	96	546203	50.00	ug/L		0.00
44) chlorobenzene-d5	10.952	117	387063	50.00	ug/L		0.00
73) 1,4-dichlorobenzene-d4	14.808	152	197770	50.00	ug/L		0.00
System Monitoring Compounds							
29) dibromofluoromethane	5.698	113	125901	52.05	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.10%				
33) 1,2-dichloroethane-d4	6.154	65	157602	51.10	ug/L		0.00
Spiked Amount 50.000	Range 75 - 132		Recovery = 102.20%				
47) toluene-d8	8.678	98	554654	53.29	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.58%				
66) 4-bromofluorobenzene	12.959	95	195216	50.91	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.82%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.532	85	102439	43.32	ug/L		99
3) chloromethane	1.727	50	146118	45.39	ug/L		99
4) vinyl chloride	1.824	62	161130	50.19	ug/L		99
6) bromomethane	2.140	94	27962	74.80	ug/L		96
7) chloroethane	2.250	64	104689	51.80	ug/L		96
8) trichlorofluoromethane	2.487	101	166810	44.99	ug/L		100
9) acrolein	3.028	56	28280	85.82	ug/L		96
11) 1,1-dichloroethene	3.058	96	91712	45.55	ug/L		97
12) iodomethane	3.247	142	3315	10.01	ug/L		93
13) acetone	3.192	58	14769m1	45.65	ug/L		
14) carbon disulfide	3.277	76	321349	44.77	ug/L		99
15) methylene chloride	3.648	84	127587	47.23	ug/L		98
16) acrylonitrile	4.001	53	72316	51.14	ug/L		97
17) trans-1,2-dichloroethene	3.892	96	109551	45.84	ug/L		99
18) methyl-t-butyl ether	3.867	73	421656	51.03	ug/L		99
19) acetonitrile	3.575	41	22191	38.79	ug/L		98
20) hexane	4.104	57	5573	1.33	ug/L	#	91
21) 1,1-dichloroethane	4.421	63	234385	46.68	ug/L		100
22) vinyl acetate	4.463	43	302835	33.45	ug/L		99
23) cis-1,2-dichloroethene	5.114	96	131869	46.19	ug/L		98
24) 2,2-dichloropropane	5.071	77	178834	43.39	ug/L		99
25) 2-butanone	5.163	72	18564	47.30	ug/L	#	87
27) bromochloromethane	5.406	128	64423	50.62	ug/L		97
28) chloroform	5.491	83	211106	48.90	ug/L		100
30) 1,1,1-trichloroethane	5.661	97	171878	47.45	ug/L		96
32) carbon tetrachloride	5.813	117	139903	46.02	ug/L		99
34) benzene	6.117	78	525251	48.84	ug/L		99
35) 1,1-dichloropropene	5.862	75	160281	46.82	ug/L		97
36) 1,2-dichloroethane	6.251	62	172830	50.62	ug/L		97
37) trichloroethene	6.975	95	119133	47.10	ug/L		97
39) 1,2-dichloropropane	7.346	63	145402	49.66	ug/L		100
41) dibromomethane	7.516	93	76647	47.10	ug/L		99
42) bromodichloromethane	7.723	83	159939	45.36	ug/L		97
43) 2-chloroethyl vinyl ether	8.185	63	97838	44.59	ug/L		99
45) cis-1,3-dichloropropene	8.374	75	223994	49.35	ug/L		96
46) 4-methyl-2-pentanone	8.605	43	165923	50.22	ug/L		99
48) toluene	8.775	92	323162	49.40	ug/L		99
49) 1,1,2-trichloroethane	9.517	83	106421	49.60	ug/L		97
50) 1,3-dichloropropane	9.778	76	223795	52.09	ug/L		99

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122909.D Vial: 8
Acq On : 29 Dec 2014 2:26 pm Operator: jln
Sample : B064092-MSD1 Inst : VOA2
Misc : L0854-02re1msd Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 15:00:10 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

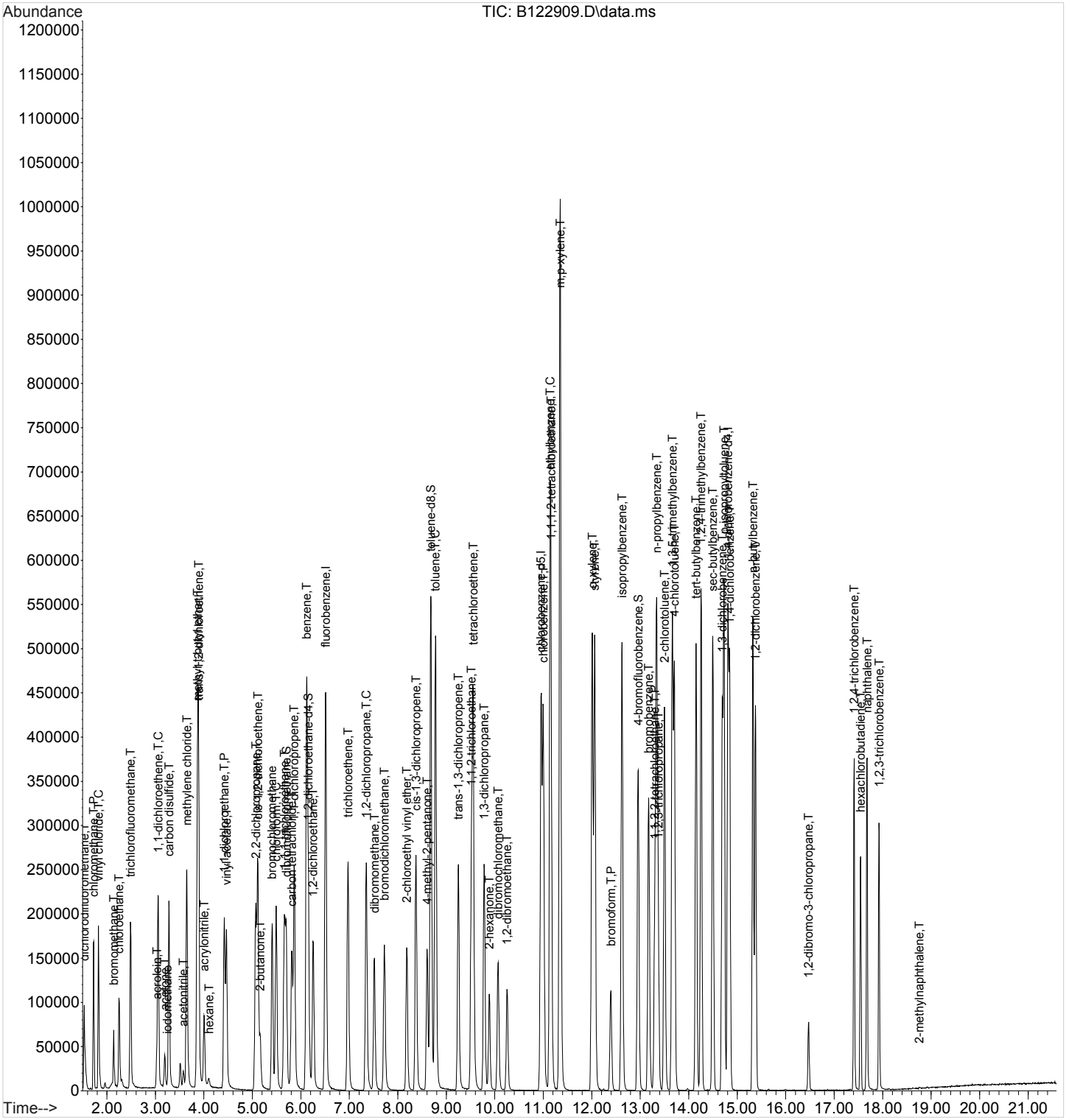
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) tetrachloroethene	9.553	164	164866	80.73	ug/L	99
52) trans-1,3-dichloropropene	9.249	75	203967	48.11	ug/L	96
53) 2-hexanone	9.888	43	108104	48.13	ug/L	99
54) dibromochloromethane	10.064	129	122349	48.24	ug/L	99
55) 1,2-dibromoethane	10.253	107	121339	50.56	ug/L	99
56) chlorobenzene	11.001	112	344906	50.68	ug/L	98
57) 1,1,1,2-tetrachloroethane	11.159	131	119583	48.88	ug/L	95
58) ethylbenzene	11.141	91	584078	47.73	ug/L	99
59) m,p-xylene	11.347	106	452527	98.93	ug/L	99
61) o-xylene	12.010	106	221562	49.05	ug/L	96
62) styrene	12.059	104	393448	49.98	ug/L	100
63) isopropylbenzene	12.624	105	541890	48.94	ug/L	99
64) bromobenzene	13.172	156	148035	51.39	ug/L	98
65) bromoform	12.393	173	87303	48.01	ug/L	95
67) 1,2,3-trichloropropane	13.372	75	133802	49.58	ug/L	97
69) n-propylbenzene	13.336	91	625829	47.82	ug/L	99
70) 2-chlorotoluene	13.500	91	381719	49.21	ug/L	99
71) 4-chlorotoluene	13.701	91	446338	49.14	ug/L	96
72) 1,3,5-trimethylbenzene	13.664	105	437173	48.29	ug/L	97
74) 1,1,2,2-tetrachloroethane	13.299	83	155578	50.56	ug/L	100
75) tert-butylbenzene	14.151	119	367143	50.56	ug/L	99
76) sec-butylbenzene	14.497	105	515218	49.37	ug/L	99
77) 1,2,4-trimethylbenzene	14.254	105	446736	50.59	ug/L	100
78) 1,3-dichlorobenzene	14.692	146	255700	52.06	ug/L	99
79) p-isopropyltoluene	14.729	119	443757	49.64	ug/L	99
81) 1,4-dichlorobenzene	14.844	146	263644	52.51	ug/L	99
82) 1,2-dichlorobenzene	15.373	146	246550	52.62	ug/L	98
83) n-butylbenzene	15.324	91	377844	49.41	ug/L	99
84) 1,2-dibromo-3-chloropr...	16.468	75	23186	48.05	ug/L	95
85) 1,2,4-trichlorobenzene	17.410	180	132437	51.63	ug/L	97
86) hexachlorobutadiene	17.544	225	60520	46.95	ug/L	97
87) naphthalene	17.678	128	323454	52.83	ug/L	100
88) 1,2,3-trichlorobenzene	17.927	180	105898	54.08	ug/L	99
89) 2-methylnaphthalene	18.754	142	900	0.67	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\msdchem\1\DATA\B122914\B122909.D Vial: 8
Acq On : 29 Dec 2014 2:26 pm Operator: jln
Sample : B064092-MSD1 Inst : VOA2
Misc : L0854-02re1msd Multiplr: 50.00
Integrator: RTE
Quant Time: Dec 29 15:00:10 2014
Quant Results File: MEOH112514.RES

Quant Method : C:\msdchem\1\METHODS\MEOH112514.m
Quant Title : Voa2 MEOH ICAL 11/25/14
QLast Update : Mon Dec 01 16:43:56 2014
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



VOA SOIL PREPARATION LOG(S) FOR METHOD 5035

Microbac Laboratories - Chicagoland Division

VOA Soil Preparation

Sample ID	Cont ID	Pres Type*	Initial Wt (g)	Final Wt (g)	Sample W (g)**	Ratio ***	Initials	Date & Time	Comments / Reagent ID
14L0593-01	A D	M	32.747	36.75			JN	12/17/14 1125	
02	B	SB	34.753	38.85	3.747				✓AS 12/19/14
	C	SB	34.699	40.81					
	D	M	32.488	36.79					
14L0834-01	A	U	—	—	5.75		JN	12/18/14 1125	✓AS 12/19/14
01	A		—	—					JN 12/18/14
14L0801-02	B	M	—	—	3.30		JN	12/22/14 1345	SMQ MeOH 143090 ✓AS 12/23
14L0876-01	B	M	—	—	5.08				✓AS 12/23/14
14L0854-01	A	SB	33.94	39.40	5.11		JN	12/23/14 1132	QR 12/29/14
	B	SB	34.45	40.42					
	C	M	32.563	37.66	4.747				
02	A	SB	35.053	40.94	5.537				QR 12/29/14
	B	SB	34.294	40.14	MS 5.496				
	C	M	32.528	37.39	4.512				
	E	SB	35.028	41.04	MSD 5.662				QR 12/29/14
	F	SB	34.648	39.99					
	G	M	32.493	37.70					
	I	SB	34.37	39.81					
	J	SB	34.38	39.74					
	K	M	32.799	37.43					
14L0930-01	A	SB	32.829	41.14			JN	12/23/14 1137	
	B	SB	32.779	39.82	6.691				QR 12/29/14 ✓
	C	M	32.687	37.64					
									JN 12/23/14

* U (unpreserved), SB (sodium bisulfate)
M (methanol), E (Encore or similar)

revision: _a_4-04

** SAMP WT of pretared vials is adjusted for average 0.35g label weight
*** PFac = 5/SAMP WT

VOA BENCH SHEET(S)/ INJECTION LOG(S)

PREPARATION BENCH SHEET

B064000

Microbac Laboratories, Inc. - Chicagoland

Matrix: Solid **Prepared using: GCMS Volatiles - 8260_5035_SB_PR** **Printed: 1/14/2015 9:20:16AM**

Lab Number	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	Comments	
14L0854-01 *8260_5035_SB*	12/23/2014 08:38	5.11	5				ICOC	ICOC
14L0854-02 *8260_5035_SB*	12/23/2014 08:38	5.537	5				ICOC	ICOC
14L0930-02 *8260_5035_SB*	12/23/2014 08:38	6.121	5					
14L0930-03 *8260_5035_SB*	12/23/2014 08:38	6.53	5					
14L0930-04 *8260_5035_SB*	12/23/2014 08:38	6.844	5					
14L0930-05 *8260_5035_SB*	12/23/2014 08:38	6.855	5					
14L0930-06 *8260_5035_SB*	12/23/2014 08:38	7.267	5					
14L0930-08 *8260_5035_SB*	12/23/2014 08:38	7.312	5					
14L0930-09 *8260_5035_SB*	12/23/2014 08:38	7.177	5					
14L0930-10 *8260_5035_SB*	12/23/2014 08:38	6.544	5					
14L0930-11 *8260_5035_SB*	12/23/2014 08:38	6.5	5					
14L0930-12 *8260_5035_SB*	12/23/2014 08:38	7.496	5					
14L0930-13 *8260_5035_SB*	12/23/2014 08:38	7.296	5					
B064000-BLK1	12/23/2014 08:38	5	5					

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

B064000

Microbac Laboratories, Inc. - Chicagoland

Matrix: Solid **Prepared using: GCMS Volatiles - 8260_5035_SB_PR** **Printed: 1/14/2015 9:20:16AM**

Lab Number	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	Comments
B064000-BS1	12/23/2014 08:38	5	5	0049643		5	
B064000-MS1	12/23/2014 08:38	5.496	5	0049643	14L0854-02	5	
B064000-MSD1	12/23/2014 08:38	5.662	5	0049643	14L0854-02	5	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

B064092

Microbac Laboratories, Inc. - Chicagoland

Matrix: Solid **Prepared using: GCMS Volatiles - 8260_5035_SB_PR** **Printed: 1/14/2015 9:21:18AM**

Lab Number	Prepared	Initial (g)	Final (ml)	Spike ID	Source ID	ul Spike	Comments
14L0854-01RE1 *8260_5035_SB*	12/29/2014 08:31	4.747	5				Re-extract added 12/29/2014 by JLN Re-extract added 12/29/2014 by JLN
14L0854-02RE1 *8260_5035_SB*	12/29/2014 08:31	4.512	5				Re-extract added 12/29/2014 by JLN Re-extract added 12/29/2014 by JLN
B064092-BLK1	12/29/2014 08:31	5	5				
B064092-BS1	12/29/2014 08:31	5	5	0049713		5	
B064092-MS1	12/29/2014 08:31	4.512	5	0049713	14L0854-02RE1	250	
B064092-MSD1	12/29/2014 08:31	4.512	5	0049713	14L0854-02RE1	250	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

Injection Log voa2

Data Directory: C:\msdchem\1\DATA\B122314\

Line	Vial	FileName	Mult	SampleName	MiscInfo	Injection Time
1)	1	B122301.D	1	S021758-TUN1	8260	23 Dec 2014 9:07 am
2)	1	B122302.D	1	S021758-CCV1	8260	23 Dec 2014 9:36 am
3)	1	B122303.D	1	S021758-CCV1	8260	23 Dec 2014 10:22 am
4)	2	B122304.D	1	B064000-BLK1	8260	23 Dec 2014 11:00 am
5)	3	B122305.D	1	B064000-BS1	8260	23 Dec 2014 11:29 am
6)	4	B122306.D	1	14L0854-01	8260_5035_SB	23 Dec 2014 12:12 pm
7)	5	B122307.D	1	14L0854-02	8260_5035_SB	23 Dec 2014 12:41 pm
8)	6	B122308.D	1	B064000-MS1	L0854-02ms	23 Dec 2014 1:10 pm
9)	7	B122309.D	1	B064000-MSD1	L0854-02msd	23 Dec 2014 1:39 pm
10)	8	B122310.D	1	rinse	8260	23 Dec 2014 2:09 pm
11)	9	B122311.D	1	14L0930-01	8260_5035_SB	23 Dec 2014 2:39 pm
12)	10	B122312.D	1	14L0930-02	8260_5035_SB	23 Dec 2014 3:08 pm
13)	11	B122313.D	1	14L0930-03	8260_5035_SB	23 Dec 2014 3:37 pm
14)	12	B122314.D	1	14L0930-12	8260_5035_SB	23 Dec 2014 4:05 pm
15)	13	B122315.D	1	14L0930-13	8260_5035_SB	23 Dec 2014 4:34 pm
16)	14	B122316.D	1	14L0930-14	8260_5035_SB	23 Dec 2014 5:03 pm
17)	15	B122317.D	1	14L0930-04	8260_5035_SB	23 Dec 2014 5:32 pm
18)	16	B122318.D	1	14L0930-05	8260_5035_SB	23 Dec 2014 6:01 pm
19)	17	B122319.D	1	14L0930-06	8260_5035_SB	23 Dec 2014 6:30 pm
20)	18	B122320.D	1	14L0930-07	8260_5035_SB	23 Dec 2014 6:58 pm
21)	19	B122321.D	1	14L0930-08	8260_5035_SB	23 Dec 2014 7:27 pm
22)	20	B122322.D	1	14L0930-09	8260_5035_SB	23 Dec 2014 7:56 pm
23)	21	B122323.D	1	14L0930-10	8260_5035_SB	23 Dec 2014 8:25 pm
24)	22	B122324.D	1	14L0930-11	8260_5035_SB	23 Dec 2014 8:54 pm
25)	23	B122325.D	1	rinse	8260_5035_SB	23 Dec 2014 9:23 pm
26)	24	B122326.D	1	rinse	8260_5035_SB	23 Dec 2014 9:51 pm
27)	25	B122327.D	1	rinse	8260_5035_SB	23 Dec 2014 10:20 pm
28)	26	B122328.D	1	rinse	8260_5035_SB	23 Dec 2014 10:49 pm

Mon Dec 29 09:37:56 2014

ANALYSIS SEQUENCE

S021758

Instrument: VOA-2 Calibration ID: 0000296 **Created: 12/23/2014 08:38**

Printed: 1/14/2015 9:24:36AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
S021758-TUN1	QC		1		0048856	0049523	
S021758-CCV1	QC		2		0049642	0049523	
B064000-BLK1	QC		3			0049523	
B064000-BS1	QC		4			0049523	
14L0854-01	8260_5035_SB	A	5			0049523	ICOC
14L0854-02	8260_5035_SB	A	6			0049523	ICOC
B064000-MS1	QC		7			0049523	
B064000-MSD1	QC		8			0049523	
14L0930-02	8260_5035_SB	A	9			0049523	
14L0930-03	8260_5035_SB	A	10			0049523	
14L0930-12	8260_5035_SB	A	11			0049523	
14L0930-13	8260_5035_SB	A	12			0049523	
14L0930-04	8260_5035_SB	A	13			0049523	
14L0930-05	8260_5035_SB	A	14			0049523	
14L0930-06	8260_5035_SB	A	15			0049523	
14L0930-08	8260_5035_SB	A	16			0049523	
14L0930-09	8260_5035_SB	A	17			0049523	
14L0930-10	8260_5035_SB	A	18			0049523	
14L0930-11	8260_5035_SB	A	19			0049523	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S021800

Instrument: VOA-2 Calibration ID: 0000296 **Created: 12/29/2014 08:31**

Printed: 1/14/2015 9:25:05AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
S021800-TUN1	QC		1		0048856	0049523	
S021800-CCV1	QC		2		0049712	0049523	
B064092-BLK1	QC		3			0049523	
B064092-BS1	QC		4			0049523	
14L0854-01RE1	8260_5035_SB	C	5			0049523	Re-extract added 12/29/2014 by JLN
14L0854-02RE1	8260_5035_SB	C	6			0049523	Re-extract added 12/29/2014 by JLN
B064092-MS1	QC		7			0049523	
B064092-MSD1	QC		8			0049523	

Samples Loaded By Date

Data Processed By Date

CHAIN OF CUSTODY

14L0854

SAMPLE CUSTODY CHAIN - IDEM OFFICE OF LAND QUALITY

State Form 42091 (R2 / 12-06)

Please Send Report to:

IDEM
OLQ Chemistry Section
Attn: QA Officer
MC 66-20 IGCN N1101
100 N Senate Avenue
Indianapolis, IN 46204-2251
www.idem.IN.gov

14L0854 IDEM - Indianapolis, IN Kristen Gehlbach LQ - LQ

12/18/2014

SAMPLE CERTIFICATION - I certify the following samples were collected by me or in my presence:	Print Name: KENNETH C. McDANIEL
Sample Date(s): 17 DECEMBER 2014	Signature: Kenneth C. McDaniel

(2A-2C) SAMPLE INFORMATION			(2D) COUNTS				(2E-2F) ANALYSES REQUESTED								(2G) COMMENTS	(2H-2J) DATE & TIME			
Laboratory Control Number (Lab Use)	IDEM Sample Number	Matrix or Sample Type	Glass Bottles	Plastic Bottles	40 ml Vials	Other	VOA	MS/MSD								Date	Time	AM	PM
	OL517	SOIL			3	1	X									17 DEC 2014	1:30		X
	OL518	↓			9	3	X	X								17 DEC 2014	1:30		X

01
02

(3) REQUIRED TURNAROUND TIME (with full documentation)			
30 days	14 days	7 days	2 days

(5) TRANSFER OF CUSTODY - I certify that I received the above samples		Date	Time
Relinquished by:	Sign Kenneth C. McDaniel	17 DEC 2014	3:53 EST AM / PM
Received by:	Sign William J. Griffiths		
Relinquished by:	Sign Walter J. Sobiesk	12-18-14	14:20 AM / PM
Received by:	Sign		

(4) COMMENTS

(6) LABORATORY RECEIPT OF SAMPLES			
I certify that I received the above samples. After recording these samples in the official logbook, they will remain in the custody of competent lab personnel or be secured in a locked area at all times.			
Received by:	Sign M. Denslow	Date	Time
Laboratory:		12-18-14	1320 AM / PM
Address:			

FOR LABORATORY USE ONLY:	
Cooler Temp: 2.0°C4	Sample Condition:

(7) DISTRIBUTION: PINK COPY - IDEM Sampler YELLOW COPY - Lab (Keep) WHITE COPY - Lab (To be Returned to IDEM with Data Package)

INTERNAL CHAIN OF CUSTODY

Microbac Laboratories, Inc. - Chicagoland Division

Internal COC Log

Workorder #: 14L0854 Storage Location: VOA

Removed					Returned			
Date	Time	Initials	Fraction ID	Cont. #	Date	Time	Initials	Comments
12/23/14	1132	JN	01	A	12/26/14	1230	JN	
↓	↓	↓	↓	B	12/23/14	1205	JN	
				C	↓	↓	↓	
			02	A	12/26/14	1230 JN	JN	
			↓	B	↓	↓	↓	
				C	12/23/14	1205	JN	
				E	12/26/14	1230	JN	
				F	12/23/14	1205	JN	
				G	↓	↓	↓	
				I				
				J				
↓	↓	↓	↓	K	↓	↓		
12/29/14	1110	JN	01	C	12/30/14	1025	JN	
↓	↓	↓	02	C	↓	↓	↓	

PERCENT SOLIDS
RAW DATA

Microbac Laboratories - Chicagoland Division

Percent Solids

Oven ID: 3

Oven Temp Verified: ☑ * (104 ±1 ºC)

Date/Time Oven

In	12/19/2014 13:42	12/22/2014 12:16	
Out	12/22/2014 9:24	12/22/2014 12:52	

Date/Time Desiccator

In	12/22/2014 9:24	12/22/2014 12:52	
Out	12/22/2014 12:13	12/22/2014 14:20	

Test Code: PSOLID_2540B

Balance ID: 10

Balance Calibration Verified: ☑

Date/Time: 12/19/2014 13:23

Analyst: agrieff

Units: WT%

Sample ID	Sample Type	Cont ID	Boat ID	Boat Weight	Boat + Sample Weight	Weight after 104	Weight after 104	Weight after 104	Weight after 104	Prior to Final Weight	True Final Weight	Final - Initial Weight of Beaker	Final Result (pct)
14L0930-01	SAMP	D	1	1.2888	11.5565	10.9480	10.9484			10.9480	10.9484	9.6596	94.0775
14L0930-02	SAMP	D	2	1.2906	11.5259	10.4048	10.4053			10.4048	10.4053	9.1147	89.0516
14L0930-07	SAMP	D	3	1.2876	11.5363	9.7565	9.7570			9.7565	9.7570	8.4694	82.6388
14L0930-08	SAMP	D	4	1.2963	11.7234	9.9910	9.9913			9.9910	9.9913	8.6950	83.3885
14L0930-09	SAMP	D	5	1.2980	11.4056	9.6138	9.6139			9.6138	9.6139	8.3159	82.2737
14L0930-10	SAMP	D	6	1.2947	11.7371	10.2287	10.2290			10.2287	10.2290	8.9343	85.5579
14L0930-11	SAMP	D	7	1.2873	11.4067	9.7083	9.7089			9.7083	9.7089	8.4216	83.2223
14L0930-12	SAMP	D	8	1.2870	11.7148	8.8097	8.8096			8.8097	8.8096	7.5226	72.1399
14L0930-13	SAMP	D	9	1.2892	11.5543	10.0978	10.0983			10.0978	10.0983	8.8091	85.8160
14L0930-14	SAMP	D	10	1.2883	11.6398	10.4268	10.4266			10.4268	10.4266	9.1383	88.2800
B063920-DUP1	SAMP	D	11	1.2908	11.6924	10.4621	10.4616			10.4621	10.4616	9.1708	88.1672
14L0930-03	SAMP	D	12	1.2868	11.6295	10.0220	10.0217			10.0220	10.0217	8.7349	84.4547
14L0930-04	SAMP	D	13	1.2881	11.3835	10.1283	10.1279			10.1283	10.1279	8.8398	87.5627
14L0930-05	SAMP	D	14	1.2853	11.6822	10.1351	10.1369			10.1351	10.1369	8.8516	85.1369
14L0930-06	SAMP	D	15	1.2872	11.4050	10.0414	10.0413			10.0414	10.0413	8.7541	86.5218
14L0854-01	SAMP	D	16	1.2809	11.5019	9.3561	9.3560			9.3561	9.3560	8.0751	79.0050
14L0854-02	SAMP	D	17	1.2952	11.3647	9.0239	9.0238			9.0239	9.0238	7.7286	76.7526
B063920-DUP2	SAMP	D	18	1.2972	11.8350	9.4261	9.4272			9.4261	9.4272	8.1300	77.1508
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												
	SAMP												