TETRA TECH

May 22, 2014

Ms. Cathy Amoroso
Remedial Project Manager
U.S. Environmental Protection Agency Region 4
61 Forsyth Street, SW
Atlanta, Georgia 30303

Subject: **Final Remedial Investigation Report**
Fairfax Street Wood Treaters
EPA Identification No. FLD000623041
EPA Contract No. EP-W-05-054 (START III Region 4)
Technical Direction Document (TDD) No. TTEMI-05-003-0134

Dear Ms. Amoroso:

The Tetra Tech Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) submits this final remedial investigation (RI) report for the Fairfax Street Wood Treaters site located in Jacksonville, Duval County, Florida. This submittal incorporates comments from the U.S. Environmental Protection Agency and Florida Department of Environmental Protection on the draft RI report dated August 31, 2012 and on the revised draft RI report dated June 20, 2013.

Please call me at (678) 775-3101 if you have any questions regarding this final RI report.

Sincerely,

Quinn Kelley
START III Project Manager

Andrew F. Johnson
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Enclosure

cc: Katrina Jones, EPA Project Officer
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FINAL
REMEDIAL INVESTIGATION REPORT

FAIRFAX STREET WOOD TREATERS
JACKSONVILLE, DUVAL COUNTY, FLORIDA
EPA IDENTIFICATION No.: FLD000623041

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
Atlanta, Georgia 30303

Contract No.	:	EP-W-05-054
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Date Prepared	:	May 22, 2014
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APPENDICES

ACRONYMS AND ABBREVIATIONS

ARAR	Applicable or relevant and appropriate requirement
ASB	Analytical Support Branch
AST	Aboveground storage tank
ATSDR	Agency for Toxic Substances and Disease Registry
BERA	Baseline ecological risk assessment
bls	Below land surface
CCA	Chromated copper arsenate
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLP	Contract Laboratory Program
COC	Contaminants of concern
COPC	Chemicals of potential concern
COPEC	Chemicals of potential ecological concern
CSM	Conceptual site model
CTE	Central tendency exposure
DPT	Direct-push technology
DQO	Data quality objective
EM	Electromagnetic
EPA	U.S. Environmental Protection Agency
EPC	Exposure point concentration
ER	Emergency response
ERAGS	Ecological Risk Assessment Guidance for Superfund
ESV	Ecological screening value
FDEP	Florida Department of Environmental Protection
FS	Feasibility Study
FSWT	Fairfax Street Wood Treaters
GEL	GEL Geophysics LLC
GPR	Ground penetrating radar
GRA	General response actions
HEAST`	Health Effects Assessment Summary Tables
HHRA	Baseline human health risk assessment
HHRAP	Human Health Risk Assessment Protocol
HQ	Hazard quotient
IC	Institutional controls
ID	Identification

ACRONYMS AND ABBREVIATIONS (Continued)

IRIS	Integrated Risk Information System
JEA	Jacksonville Electric Authority
LOQAM	Laboratory Operations and Quality Assurance Manual
MCL	Maximum Contaminant Level
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
MRL	Minimum reporting limit
msl	Mean sea level
NA	Not applicable
NFG	National Functional Guidelines
No.	Number
NPL	National Priorities List
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PMW	Permanent monitoring well
PPRTV	Provisional Peer Reviewed Toxicity Value
PRG	Preliminary remediation goal
QA	Quality assurance
QC	Quality control
RAGS	Risk Assessment Guidance for Superfund
RAL	Removal Action Level
RAO	Remedial action objectives
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RME	Reasonable maximum exposure
ROW	Right-of-way
RSL	Regional Screening Level
RVDES	R.V. Daniels Elementary School
SCTL	Soil Cleanup Target Levels
SESD	Science and Ecosystem Support Division
SLERA	Screening Level Ecological Risk Assessment
SOW	Statement of Work

START	Superfund Technical Assessment and Response Team
STES	Susie Tolbert Elementary School
SVOC	Semivolatile organic compound
SW-846	EPA Test Methods for Evaluating Solid Waste
SWCTL	Surface water cleanup target level
TAL	Total Analyte List
TCLP	Toxicity characteristic leaching procedure
TDD	Technical direction document
Tetra Tech	Tetra Tech Inc.
UCL	Upper confidence limit
UST	Underground storage tank
UTL	Upper tolerance limit
VOC	Volatile organic compound

EXECUTIVE SUMMARY

This remedial investigation (RI) report was prepared for the Fairfax Street Wood Treaters (FSWT) site located in Jacksonville, Duval County, Florida. The goals of the RI are to define the nature and extent of contamination in media at the site; obtain adequate data for a baseline human health risk assessment (HHRA) and screening level ecological risk assessment (SLERA); and obtain adequate data that can be used to develop a feasibility study (FS) and ultimately select a remedy.

SITE DESCRIPTION

FSWT encompasses 12.5 acres at 2610 Fairfax Street in a predominantly residential area of Jacksonville, Duval County, Florida. The Site is owned by Fairfax Land Management, Inc., and was formerly used as a wood treating facility operated by Wood Treaters, LLC. Features of the FSWT facility include a building, parking lot, drip pad, former tank farm, and retention pond. FSWT is bordered to the north by St. Johns/CSX railroad tracks, to the east by Fairfax Street and residential properties beyond, to the south by West 14th Street and residential properties beyond, and to the west by Susie E. Tolbert and R.V. Daniels Elementary Schools (STES and RVDES) and by Pullman Court. Moncrief Creek is located about 1,000 feet west of the FSWT property. Overflow from the FSWT retention pond flows into Moncrief Creek via a drainage pipe.

From 1980 to 2010, Wood Treaters, LLC operated a wood treating facility that pressure treated utility poles, pilings, heavy timber items, and plywood lumber products using the wood treating preservative chromated copper arsenate (CCA). Wood Treaters, LLC, did not treat wood products with creosote or pentachlorophenol. CCA is characterized by a bright green color and is composed of waterborne oxides, or salts, of chromium, copper, and arsenic. The copper serves as a fungicide, the arsenic serves as an insecticide, and the chromium binds the copper and arsenic to the wood. After treatment, the wood was stored on the gravel areas along the northern, southern, and western portions of the property.

In 1990, the facility operator installed a stormwater collection and retention system, including site grading and paving for drainage, stormwater collection swales, diversion berms, and a polyethylene-lined retention pond. CCA deposited onto the drip pad during the drip-dry process mixed with stormwater, resulting in a CCA solution. CCA-contaminated stormwater from the drip pad was diverted to an underground sump located adjacent to the storage tanks. Once the stormwater inside the sump reached a specified volume, a pump transported the stormwater to one of two effluent tanks, where it was recycled into the high-concentrate CCA treatment solution.

Stormwater that collected in the treated wood storage yard and areas other than the drip pad was diverted to ditches located along the northern, southern, and western property boundaries. These ditches drain into the retention pond at the northwestern corner of the property. The topography of the FSWT site and the surrounding area is generally flat and, prior to 1990 when the stormwater collection and retention system was constructed, stormwater was either directed to the STES retention pond or flowed overland across the facility property. Uncontrolled stormwater, contaminated with CCA from the wood treating process, is believed to have overflowed onto neighboring properties, resulting in CCA-contaminated soil.

SUMMARY OF SITE CONTAMINATION

The primary contaminants of concern for the FSWT site are arsenic, chromium, and copper (CCA). Based on analytical results for soil samples, the extent of on-site arsenic, chromium, and copper contamination at the former wood treating facility appears to be primarily within the top 4 feet of soil. Arsenic contamination in residential and school areas north, east, south, and west of the FSWT property appears to be primarily within the top 1 foot of soil. Furthermore, the concentrations of arsenic detected in soil at FSWT and the surrounding properties show a gradient that decreases with distance from FSWT. Chromium and copper contamination does not extend beyond the former facility.

Sediment in Moncrief Creek downstream of the FSWT retention pond outfall has been impacted by arsenic. Arsenic was detected above its screening value of 9.8 milligrams per kilogram (mg/kg) in six of the 13 sediment samples collected during the 2012 RI.

Eight permanent monitoring wells were installed on the FSWT property during the 2012 RI. Depth to groundwater at the FSWT property averages about 5 feet below land surface (bls). The groundwater samples collected during the 2012 RI did not contain arsenic, chromium, or copper at concentrations exceeding their U.S. Environmental Protection Agency (EPA) drinking water maximum contaminant levels (MCL). A second groundwater sampling event was conducted the week of August 13, 2012. Samples from monitoring well PMW-07 contained arsenic at 10 micrograms per liter (µg/L), which is equal to the EPA MCL. A third groundwater sampling event was conducted the week of February 25, 2013. Groundwater samples collected during this event did not contain arsenic, chromium, or copper at concentrations exceeding their EPA MCLs.

RELEASE MECHANISMS

CCA contamination found on residential and school properties surrounding the FSWT facility most likely resulted from migration of hazardous substances via uncontrolled overland runoff from FSWT before 1990, periodic flooding and runoff from the storage yards along the northern, western, and southern portions of the FSWT property, and wheel spray from trucks or other vehicles exiting the FSWT facility. A breach in the containment wall of the drip pad was observed during the EPA August 2010 emergency response (ER). The topography of the FSWT property and the surrounding area is generally flat, and nearby residents have reported that stormwater runoff currently flows from the FSWT property onto their properties during heavy rain events.

Stormwater continues to be directed to the on-site retention pond via drains and ditches. Samples collected from the material inside drains located on the FSWT property contained arsenic at concentrations ranging from 150 mg/kg to 11,000 mg/kg. It is most likely that the drains located on the northern portion of the FSWT property surrounding the office, drip pad, and former tank farm lead to the on-site retention pond; however, the precise outfall locations of the on-site drains are unknown. Soil samples collected from the on-site drainage ditches also contained elevated concentrations of arsenic. When the retention pond reaches its capacity, an overflow pipe directs the water to a City of Jacksonville stormwater drainage pipe, which leads to Moncrief Creek. A sample collected from the city's drainage pipe downstream from the on-site retention pond contained arsenic at a concentration of 47 mg/kg. Based on analytical results, contaminated media (drainage ditch soil, material contained in on-site drainage pipes, and water in the on-site retention pond) on the FSWT property continue to be a source of contamination in Moncrief Creek.

BASELINE HUMAN HEALTH RISK ASSESSMENT

The FSWT site was subdivided into seven exposure areas for the risk assessment: On-Site, Residential Area North of the FSWT (Residential – N), Residential Area East of the FSWT (Residential – E), Residential Area South of the FSWT (Residential –S), Residential Area West of the FSWT (Residential – W), School Yard (STES and RVDES), and Moncrief Creek, based primarily on the extent of historical soil contamination, likely exposures, and exposed populations.

Total and contaminants of potential concern (COPC)-specific risks and hazards under reasonable maximum exposure (RME) conditions were evaluated for each of the FSWT exposure areas. On-Site, eight different receptors were evaluated: future industrial/commercial workers; future construction

workers; future utility workers; current and future adolescent and adult trespassers; future child recreationalists; future adolescent recreationalists, future adult recreationalist; and future residents. Only the current and future utility worker and current residents were evaluated for the residential areas. For Moncrief Creek, only adolescent and adult recreationalists were evaluated. Current and future student and staff receptors were evaluated for the school property.

Based on the information presented in the HHRA, the following conclusions were drawn:

- Total risks exceed 1E-04, the upper end of EPA's acceptable risk range, for future residents, future utility workers, future child recreationalist, and future commercial/industrial workers at the on-site area of the former FSWT Site. Of the individual lots in the off-site residential areas that were evaluated, two lots in the Residential – N area had total risks that exceeded 1E-04 and one lot had a hazard greater than one.
- The following receptors face risks within EPA's risk range (1E-06 to 1E-04) for exposures to soils or sediments:
    - On Site: future construction worker, current and future adolescent and adult trespassers, and future adolescent and adult recreationalists
    - Off-site residential areas Residential – N, E, S, and W: current and future residents and all individual lots in the off-site residential area except as noted in the above bullet.
    - Off-site Moncrief Creek: current and future adolescent and adult recreationalist
- Soil risks and hazards are driven by potential exposure to arsenic.

SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT

The ecological habitats identified for the FSWT site include (1) a terrestrial habitat that would encompass the current site, (2) the aquatic habitat of the on-site retention pond, and (3) Moncrief Creek, which receives surface water runoff and stormwater from the site. Because the terrestrial habitat is located in an urban setting, a viable terrestrial habitat is not considered present at the site, and any exposure will be considered *de minimis* and was not evaluated as part of the SLERA. Therefore, the only ecological receptors evaluated as part of the SLERA are receptors present in the on-site retention pond and Moncrief Creek.

The SLERA results for aquatic life in the on-site retention pond identified that sediments from the pond had a hazard quotient (HQ) greater than 1 based on maximum concentrations. The contaminants identified in the sediments were the three metals associated with the site: arsenic (HQ = 13), chromium (HQ = 7.8), and copper (HQ = 6.4). These three metals were also detected in the dissolved form in the

surface water. Two were found above the aquatic life chronic screening values: arsenic (HQ = 5.1) and copper (HQ = 6.4), while chromium was below (HQ = 0.08).

The SLERA results for aquatic life in Moncrief Creek identified that sediments from the creek had an HQ greater than 1 based on maximum concentrations. The contaminants identified in the sediments were the three metals associated with the site: arsenic (HQ = 27.6), chromium (HQ = 6.3), and copper (HQ = 7.4). Arsenic was the only contaminant of potential ecological concern (COPEC) detected in surface water, and its maximum concentration was below the chronic water quality standard for arsenic in Florida.

The SLERA results for avian receptors that may use the on-site retention pond as a source for food and water yielded HQs greater than 1, indicating a potential significant risk; the HQs based on the lowest observed adverse effect level (LOAEL) were : arsenic (22), chromium (14) and copper (8.6). The SLERA also evaluated the potential risks to the avian receptors in Moncrief Creek, focusing on the stormwater collection basin within the creek's watershed, downstream from FSWT stormwater discharge to the creek. The results for avian receptors that may use the stormwater collection basin as a source for food and water yielded HQs less than 1, indicating no significant risk.

Based on the information presented in the SLERA, the following conclusions were drawn:

- Concentrations of several constituents, primarily metals in sediments in the on-site retention pond and Moncrief Creek, exceed SLERA ecological screening values (ESV) for benthic aquatic wildlife receptors. Within the creek, the major area of contamination is located about 1,800 feet downstream of the discharge point of FSWT stormwater to the creek.
- The further evaluation of the sediment and surface water contamination and its potential movement up the food chain did not identify a risk for Moncrief Creek, but did identify a risk for an avian receptor that may use the on-site retention pond as a primary food source.
- Surface water concentrations of the constituents associated with the site in Moncrief Creek are all below chronic water quality standards for protection of aquatic life. Therefore, further evaluation in a BERA is not warranted. However, the contaminant levels in the surface water in the on-site retention pond are above the chronic water quality standards for protection of aquatic life. Still, in light of the small size of this pond, a BERA is not warranted.
- Concentrations of several constituents, primarily metals in sediments in Moncrief Creek, exceed SLERA ESVs for benthic aquatic wildlife receptors. The major area of contamination is located about 1,800 feet downstream of the discharge point of the stormwater to the creek. Further evaluation of the sediment data may be needed to determine if the metals are bioavailable.
- Surface water concentrations of the constituents associated with the site are all below chronic water quality standards for protection of aquatic life. Therefore, further evaluation in a BERA is not warranted.

PRELIMINARY REMEDIAL ACTION OBJECTIVES

Remedial action objectives (RAO) consist of medium-specific or area-specific goals for protecting human health and the environment. RAOs typically specify the contaminants of concern (COC), exposure routes and receptors, and acceptable contaminant levels or a range of levels for each exposure route. Preliminary RAOs for the FSWT site were established for on-site soil, on-site retention pond water and sediments, residual waste material in on-site drains located beneath the process area, and off-site residential soil. For on-site soil, the preliminary RAOs are to prevent direct contact of future residents, child recreationalists, commercial/industrial workers, and utility workers with soil contaminated above level protective of human health, and to prevent migration of contaminated soil via stormwater runoff onto adjacent properties. For the on-site retention pond, the preliminary RAOs are to prevent contaminants from entering Moncrief Creek via the overflow drainage pipe, to reduce contaminants of concern in surface water and sediment to levels that are protective of ecological receptors (avian), and to protect future on-site workers from exposure to contaminated water. Preliminary RAOs for residual waste material contained in on-site drains are to prevent direct exposure to the material, prevent migration of the material from on-site drains to Moncrief Creek via the on-site retention pond overflow drainage pipe, and to limit migration of the material to other media by removal. For off-site residential soil, the preliminary RAO is to prevent contact by residents (given current land use) with soil contaminated with arsenic. Preliminary RAOs were not established for groundwater because groundwater does not exceed the MCLs.

CONCLUSIONS

Arsenic is the risk driver for the FSWT site. Arsenic contamination in the surface soil extends laterally from the FSWT property in all directions. Furthermore, the concentrations of arsenic detected in soil at FSWT and the surrounding properties show a gradient that decreases with distance from the former wood treating area.

Based on analytical results for soil samples, the vertical extent of on-site arsenic, chromium, and copper contamination appears to be primarily within the top 4 feet of soil. On-site, total risks exceed 1E-04, the upper end of EPA's acceptable risk range, for future residents, future industrial/commercial workers, future child recreationalists, and future utility workers.

Arsenic contamination in residential and school areas north, east, south, and west of the FSWT property appears to be primarily within the top 1 foot of soil. Chromium and copper contamination does not

appear to extend off site, with the exception of one sample collected north of the FSWT property that contained copper above its screening value of 150 mg/kg. The risk to current and future residents in the off-site residential areas (N, E, S, and W) are within EPA's risk range (1E-06 to 1E-04), with the exception of four yards which pose an unacceptable hazard (hazard index greater than 1). For the school property, the risks to current and future students and school workers is less than EPA's point of departure of 1E-06 and are considered insignificant. For Moncrief Creek, the risk to current and future adolescent and adult recreationalists is within the acceptable risk range and does not pose an unacceptable risk.

Sediment in Moncrief Creek downstream of the FSWT retention pond outfall is also contaminated with arsenic. Arsenic was detected above its screening value of 9.8 mg/kg in 8 of the 16 sediment samples collected during all EPA investigations. The SLERA results for the on-site retention pond and Moncrief Creek identified an HQ greater than 1 for sediments from the creek based on maximum concentrations. Concentrations of several constituents, primarily metals in sediments in Moncrief Creek, exceed SLERA ESVs for benthic aquatic wildlife receptors. The major area of contamination is located at WTMC08, about 1,800 feet downstream of the discharge point of FSWT stormwater to the creek. There are several additional stormwater discharge points along Moncrief Creek between the FSWT stormwater discharge point and WTMC08. Further evaluation of the sediment and surface water contamination and its potential movement up the food chain did not identify a risk for Moncrief Creek, but did identify a risk for an avian receptor that may use the on-site retention pond as a primary food source.

Surface water concentrations of the COCs associated with the site in Moncrief Creek are all below chronic water quality standards for protection of aquatic life. Therefore, further evaluation in a BERA is not warranted. However, the contaminant levels in the surface water in the on-site retention pond are above the chronic water quality standards for protection of aquatic life. Still, in light of the small size of this pond, a BERA is not warranted.

Groundwater samples were collected from permanent monitoring wells in three separate events. Groundwater samples collected from permanent monitoring wells during two events (March 2012 and February 2013) did not contain arsenic, chromium, or copper at concentrations exceeding their EPA MCLs. During the second event, one of the monitoring wells, monitoring well PMW-07, contained arsenic at 10 µg/L, which is equal to the EPA MCL. No other groundwater samples collected during the second round of groundwater monitoring equaled or exceeded the MCL. Groundwater receptors do not exceed 1E-06, the lower end of EPA's acceptable risk range.

1.0 INTRODUCTION

Under Superfund Technical Assessment and Response Team (START) Contract Number (No.) EP-W-05-054, Technical Direction Document (TDD) No. TTEMI-05-003-0134, the U.S. Environmental Protection Agency (EPA) tasked Tetra Tech Inc. (Tetra Tech) to conduct a remedial investigation (RI) at the Fairfax Street Wood Treaters (FSWT) site located in Jacksonville, Duval County, Florida. The RI was conducted in accordance with the EPA Guidance for Conducting Remedial Investigations and Feasibility Studies (FS) under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act), and the Tetra Tech approved final RI work plan and addendum (References [Refs.] 1; 2; 63).

1.1 PURPOSE AND OBJECTIVE

The overall objective of the RI activities is to characterize the FWST study area to a degree sufficient to develop and select a remedy to reduce risks to human health and the environment from exposure to contaminants in the soil, material contained in on-site drains, sediment, surface water, and groundwater. Accordingly, the field sampling and data collection activities described here were designed specifically to accomplish the following:

- Characterize the nature and extent of contamination on the FSWT study area to the degree necessary to evaluate the human health and ecological risks and develop a remedy to reduce these risks.
- Assess the human health and ecological risks from exposure to contamination in the FSWT study area.
- Identify the physical and chemical characteristics of the FSWT study area that will influence development, evaluation, and selection of remedial alternatives.

1.2 ORGANIZATION OF THE REPORT

This RI report is organized into the following 11 sections:

- Section 1.0 provides an introduction to and purpose for the RI and briefly discusses the site location, operational history, and past uses of the FSWT property and other sites nearby.
- Section 2.0 provides a summary of previous environmental investigations and response actions conducted at the FSWT study area.
- Section 3.0 summarizes the RI field activities, deviations from the work plan and work plan addendum, data quality objectives, selection of analytical parameters, and laboratory analysis, data quality assessment, and data qualifiers.

- Section 4.0 describes the physical characteristics of the FSWT study area, including topography and soil type, surface water hydrology, regional geology and hydrogeology, study area geology and hydrogeology, meteorology, demography, and land and water use.

- Section 5.0 presents a discussion of background soil; the analytical results for samples collected during the RI from soil, surface water, drain material, sediment, and groundwater; and the risk areas, the extent of contamination, release mechanisms, and the updated conceptual site model.

- Section 6.0 presents a summary of contaminant fate and transport mechanisms.

- Section 7.0 summarizes the baseline human health risk assessment (HHRA), including descriptions of the exposure pathways and human health receptors evaluated.

- Section 8.0 summarizes the screening level ecological risk assessment (SLERA), including a description of the exposure pathways and the ecological receptors evaluated.

- Section 9.0 identifies the preliminary response actions.

- Section 10.0 presents the summary and conclusions.

- Section 11.0 provides the references cited in the RI report.

- The report appendices provide supporting information for the RI, including figures (Appendix A), RI analytical results tables (Appendix B), previous EPA investigations analytical results tables (Appendix C), logbook notes and field sample collection sheets (Appendix D), permanent monitoring well soil boring logs (Appendix E), the field quality control review (Appendix F), analytical data packages (Appendix G), the geophysical investigation report (Appendix H), the well survey map (Appendix I), and the complete HHRA and SLERA reports (Appendix J).

1.3 SITE LOCATION AND DESCRIPTION

FSWT encompasses 12.5 acres at 2610 Fairfax Street in a predominantly residential area of Jacksonville, Duval County, Florida (see Figure 1 in Appendix A). The geographic coordinates for the FSWT property are latitude 30.353402 north and longitude 81.687128 west (as measured from the approximate center of the property) (Ref. 4). Features of the FSWT facility include a building, parking lot, drip pad, former tank farm, and retention pond (see Figure 2 in Appendix A). FSWT is bordered to the north by St. Johns/CSX railroad tracks, to the east by Fairfax Street and residential properties beyond, to the south by West 14th Street and residential properties beyond, and to the west by Susie E. Tolbert and R.V. Daniels Elementary Schools (STES and RVDES) and by residential properties on Pullman Court. Moncrief Creek is located about 1,000 feet west of the FSWT property. Overflow from the FSWT retention pond flows into Moncrief Creek via a city drainage pipe, which collects stormwater from the general area (see Figure 2 in Appendix A).

1.4 SITE OPERATIONAL HISTORY

From 1980 to 2010, Wood Treaters, LLC operated a wood treating facility that pressure treated utility poles, pilings, heavy timber items, and plywood lumber products using the wood treating preservative chromated copper arsenate (CCA). Wood Treaters, LLC did not treat wood products with creosote or pentachlorophenol (Ref. 5). CCA is characterized by a bright green color and is composed of waterborne oxides, or salts, of chromium, copper, and arsenic. The copper serves as a fungicide, the arsenic serves as an insecticide, and the chromium binds the copper and arsenic to the wood (Ref. 6). In a typical pressure treatment process, wood is placed into horizontal cylinders or tanks. The air is then evacuated from the tanks, creating a vacuum. Later, the tanks are filled with the preservative chemical and the pressure is increased to 140 to 150 pounds per square inch for several hours, forcing the wood-treating chemical into the wood. After that step is complete, the preservative is drained from the tanks, and a vacuum is once again applied to clear any excess preservative left on the surface of the wood. This process takes approximately 6 hours to complete (Ref. 7). After treatment, the wood is transferred to drying racks to drip dry, where the water evaporates, leaving only the salts. The salts react with the wood surface, rendering the wood insoluble (Refs. 8; 9). After drip-drying, the treated wood was stored on the gravel areas along the northern, southern, and western portions of the property (Ref. 10).

Between 1980 and 1990, there was no stormwater management system on the facility. The topography of the FSWT property and the surrounding area is generally flat; therefore, stormwater was either directed to the STES retention pond or flowed overland across the FSWT property. Uncontrolled stormwater contaminated with CCA from the wood treating process is believed to have overflowed onto neighboring properties during this time, resulting in CCA-contaminated soil. In 1990, FSWT installed a stormwater collection and retention system, including site grading and paving for drainage, stormwater collection swales, diversion berms, and a polyethylene-lined retention pond (Ref. 5). CCA deposited onto the drip pad during the drip-dry process mixed with stormwater, resulting in a CCA solution. CCA-contaminated stormwater from the drip pad was diverted to an underground sump located adjacent to the storage tanks. Once the stormwater inside the sump reached a specified volume, a pump transported the stormwater to one of two effluent tanks, where it was recycled into the high-concentrate CCA treatment solution (Refs. 9; 11).

Stormwater that collected in the treated wood storage yard and areas other than the drip pad was diverted to ditches located along the northern, southern, and western property boundaries. These ditches drain into the retention pond at the northwestern corner of the property. An overflow pipe is located in the retention pond so that water overflows into the pipe and discharges into nearby Moncrief Creek, a tributary of the

Trout River, when the pond reaches a certain volume (Refs. 9; 10). Even with the stormwater management system, heavy rain or storm events may have moved contaminants from the facility onto adjacent properties.

1.5 PAST USES OF THE FSWT PROPERTY AND OTHER SITES NEARBY

Prior to 1980, the FSWT property had a variety of uses. The Old Feed Building was built in the early 1920s by the American Motors Export Company to assemble the Innes automobile. The property was then purchased in 1930 by the Continental Can Company, which manufactured metal containers and packaging. Sometime before 1947, Howard Feed Mills, Inc., purchased the property and supplied area farmers with livestock feed. Howard Feed Mills also hosted livestock exhibitions. Specific contaminants related to past uses of the property are not known. Wood Treaters, LLC, purchased the property in 1980 and constructed the office building, drip pad, and tank farm. Wood Treaters, LLC, used the Old Feed Building as a storage area for untreated wood (Ref. 12).

Because FSWT is located in a metropolitan city, many state and federal regulated facilities are located within 1 mile of FSWT, including Resource Conservation and Recovery Act (RCRA) hazardous waste generators, state hazardous waste sites, facilities with underground and aboveground storage tanks (USTs and ASTs), Brownfields sites, and dry cleaners. None of these facilities are wood treating operations and, with the exception of the Jacksonville Ash Sites and Brown's Dump, none of these facilities has reported arsenic, chromium, or copper as a contaminant of concern (Ref. 13).

The Jacksonville Ash Sites are made up of three facilities: the Forest Street Incinerator (located about 2 miles south of FSWT), the 5th & Cleveland Incinerator (located about 1 mile southeast of FSWT), and the Lonnie C. Miller Sr. Park (located about 3.5 miles northwest of FSWT). The Forest Street and 5th & Cleveland Incinerators operated as the City of Jacksonville's municipal solid waste incinerators from the 1940s until the 1960s. Combustion ash, clinker, and ash residues were disposed of on each of the incinerator properties and also on the land that was later redeveloped into the Lonnie C. Miller Sr. Park. Contaminants associated with these sites include lead, arsenic, and dioxins (Ref. 14).

Brown's Dump is located about 0.7 mile north of FSWT and is approximately 80 acres. Brown's Dump was an operating landfill from the late 1940s until the mid-1950s and was used to deposit ash from the City of Jacksonville's municipal incinerators. This site now consists of the former Mary McLeod Bethune Elementary School, an electrical substation of the Jacksonville Electric Authority (JEA), surrounding single-family homes, and multiple family complexes. Contaminants associated with this site

include lead, arsenic, other inorganic substances, and dioxins/furans (Ref. 14). The FSWT retention pond discharges into Moncrief Creek, which flows north to the Trout River (Ref. 15). Brown's Dump is located along Moncrief Creek about 0.5 to 1 mile north (downstream) of FSWT (Ref. 14). Sometime between 1997 and 1998, the portion of Moncrief Creek that is adjacent to the Brown's Dump site was dredged by the City of Jacksonville for maintenance. As a result, concentrations of contaminants associated with the site decreased significantly between 1997 and 2000. Furthermore, the sediments in Moncrief Creek adjacent to Brown's Dump no longer contain contaminant concentrations that pose an ecological impact and, therefore, were not considered a medium of concern for the site. Ongoing cleanup at the Brown's Dump site includes stabilization of the banks of Moncrief Creek, but does not involve any additional removal of sediments (Refs. 14; 16).

2.0 PREVIOUS INVESTIGATIONS AND RESPONSE ACTIONS

These sections briefly describe previous EPA investigations and pre-remedial response actions conducted at the FSWT site and address only site-related hazardous substances — arsenic, chromium, and copper. See Figure 3 in Appendix A for the locations of samples collected during previous EPA investigations. EPA conducted multiple response actions simultaneously to mitigate the immediate threats to human health and the environment.

2.1 AUGUST 2010 EMERGENCY RESPONSE

Wood Treaters, LLC filed for bankruptcy in July 2010. In August 2010, after Wood Treaters, LLC, abandoned the facility, EPA, at the request of the Florida Department of Environmental Protection (FDEP), conducted emergency response (ER) activities at the facility that included pumping out the water contained in the secondary containment area and retention pond, removing product in tanks, and collecting soil, surface water, sediment, and waste samples. Upon arrival, EPA plugged the overflow pipe in the on-site retention pond to prevent contaminated water in the pond from flowing into Moncrief Creek. Once the on-site retention pond was stabilized, the plug was removed (Ref. 17). All samples collected were analyzed for Total Analyte List (TAL) metals. During the ER, grab waste samples were collected from six tanks that contained wood treating product and from the secondary containment area surrounding the tanks (Refs. 17; 18; 19). Waste sample WTI-T2 contained the highest concentrations of arsenic (17,900 milligrams per liter [mg/L]), trivalent chromium (3,700 mg/L), hexavalent chromium (17,000 mg/L), and copper (12,100 mg/L), among others. Five surface soil samples (including one background) were also collected from the FSWT property. Soil sample FRW-SS-02, collected from the western portion of the property, contained the highest concentrations of arsenic (4,300 milligrams per kilogram [mg/kg]), trivalent chromium (7,640 mg/kg), and copper (3,980 mg/kg) (Ref. 17).

A surface water sample (WTI-POND) collected from the FSWT retention pond contained arsenic (23,000 micrograms per liter [µg/L]), trivalent chromium (500 µg/L), hexavalent chromium (31,000 µg/L), and copper (16,900 µg/L), among others (Ref. 19). A sediment sample (FRW-SED-03) collected from the FSWT retention pond contained arsenic (2,840 mg/kg), trivalent chromium (5,389 mg/kg), and copper (3,380 mg/kg), among others (Ref. 20). Collocated surface water and sediment samples were collected from Moncrief Creek. One background sediment sample was collected upstream of the pipe outfall into Moncrief Creek, and three sediment samples (including one duplicate) were collected at the pipe outfall and downstream (Ref. 17). Sediment samples FRW-SED-01 and FRW-SED-01D, collected from the

pipe outfall, contained the highest concentrations of arsenic (up to 40.2 mg/kg), trivalent chromium (up to 102.5 mg/kg), and copper (up to 139 mg/kg) (Ref. 20).

2.2 JANUARY 2011 REMOVAL INVESTIGATION

In January 2011, EPA conducted a removal investigation at the FSWT property. During the removal investigation, soil samples were collected from residential properties, the STES and RVDES properties, and the FSWT property. Arsenic, chromium, and copper were detected in surface and subsurface soil samples collected from the FSWT property. The highest concentration of arsenic (377 mg/kg) was detected in surface soil sample FWT-02-SB-A2. The highest concentration of chromium (1,280 mg/kg) was detected in surface soil sample FWT-23-SB-A2. The highest concentration of copper (405 mg/kg) was detected in surface soil sample FWT-02-SB-A2 (Ref. 21).

Surface (0 to 6 inches below land surface [bls]) and subsurface (12 to 24 inches bls) soil samples were also collected from the STES and RVDES properties in locations where children were observed playing. The highest concentrations of arsenic (64 mg/kg), chromium (237 mg/kg), and copper (110 mg/kg) were detected in surface soil sample FWT-01-SF, located near the fenceline separating the STES and FSWT properties (Ref. 21).

In addition, composite surface soil samples were collected from 17 residential properties, including 13 along Pullman Court and four along West 14th Street. Four surface soil samples were also collected from an apartment complex property located on West 13th Street that contains 12 occupied units. The highest concentration of arsenic (36.3 mg/kg) was detected in soil sample FWT-42-SF-CG, collected from a community garden along Pullman Court. The highest concentrations of chromium (127 mg/kg) and copper (70.6 mg/kg) were detected in soil sample FWT-39-SF-BY, collected from a residential property along Pullman Court (Ref. 21).

2.3 MAY 2011 PRE-REMEDIAL INVESTIGATION

In May 2011, EPA conducted a pre-remedial investigation (pre-RI) at the FSWT property (Ref. 15). During the pre-RI, soil samples were collected along the northern and western portions of the FSWT property (0 to 6 inches below the surface of the removal excavation [see Section 2.5]), along the southern FSWT property boundary (0 to 6 inches bls), beneath the concrete that covers the majority of the FSWT property (0 to 6 inches below the concrete), and from nearby residential properties (0 to 6 inches bls) (Refs. 15; 22). The northern, western, and southern portions of the FSWT property were used as storage

areas for the treated wood during operations (Ref. 10). Groundwater samples were also collected from monitoring wells installed by Wood Treaters, LLC throughout the property and around the STES retention pond (Ref. 15).

In total, 22 soil samples (including two duplicates) were collected from the FSWT property during the May 2011 pre-RI. All samples collected were analyzed for TAL metals. Arsenic and chromium were detected at concentrations above background in surface soil samples collected from the FSWT property (Ref. 15). The highest arsenic concentration (130 mg/kg) was detected in surface soil sample WT-SF-19, which was collected along the western FSWT property boundary in an area where yellow soil was observed, an indication of chromium contamination (Refs. 15; 22). The highest concentration of chromium (1,300 mg/kg) was detected in surface soil sample WT-SF-07, which was collected beneath the drip pad (Ref. 15).

Groundwater samples were collected from six existing on-site monitoring wells previously installed by Wood Treaters, LLC, as well as from three permanent monitoring wells installed on the STES property surrounding the STES retention pond. Arsenic exceeded its EPA drinking water maximum contaminant level (MCL) of 10 µg/L in on-site monitoring wells MW-8 (58 µg/L) and MW-12 (73 µg/L) (Ref. 23). Chromium was detected above its EPA MCL of 100 µg/L in STES permanent monitoring well MW-2 at a concentration of 170 µg/L (Refs. 15; 23). These wells are of suspect and unknown quality; therefore, EPA did not use these data other than for the purpose of informing the decision to install new permanent monitoring wells.

Nine surface soil samples (0 to 6 inches bls) were collected from residential properties located east and south of the FSWT property. Arsenic, chromium, and copper were detected at concentrations above background in residential surface soil samples. Arsenic concentrations ranged from 6.5 mg/kg (WT-RP-SF-05) to 64 mg/kg (WT-RP-SF-08), chromium concentrations ranged from 26 mg/kg (WT-RP-SF-02) to 130 mg/kg (WT-RP-SF-08), and copper ranged from 20 mg/kg (WT-RP-SF-06) to 71 mg/kg (WT-RP-SF-08) (Ref. 15).

2.4 JULY 2011 REMOVAL CONFIRMATION AND RESIDENTIAL SAMPLING

In July 2011, EPA conducted a removal confirmation and residential sampling event at the FSWT property. Removal activities included excavation of gravel and soil down to 1.5 feet bls along the northern, western, and southern portions of the property. Composite soil samples were collected from the northern, western, and southern portions of the property post-excavation to confirm contaminant levels

remaining after the removal (see Section 2.5). Confirmation samples were collected at three depth intervals: 0 to 6 inches below excavation surface, 18 to 24 inches below excavation surface, and 36 to 42 inches below excavation surface (Refs. 24; 25). Arsenic, chromium, and copper were detected above background in surface and subsurface soil samples collected from the excavated area. Arsenic concentrations in surface soil samples (0 to 6 inches bls) ranged from 5.5J (estimated) mg/kg (WT-G01-SS-A) to 44J mg/kg (WT-G03-SS-A), chromium concentrations ranged from 47 mg/kg (WT-G02-SS-A) to 280J mg/kg (WT-G04-SS-A-DUP), and copper was detected at 300 mg/kg. Arsenic concentrations in subsurface soil samples (18 to 24 inches bls) ranged from 1.4J mg/kg (WT-G15-SS-B) to 15J mg/kg (WT-G03-SS-B), chromium concentrations ranged from 8.9 mg/kg (WT-G08-SS-B) to 64 mg/kg (WT-G12-SS-B), and copper concentrations ranged from 11 mg/kg (WT-G11-SS-B) to 31 mg/kg (WT-G03-SS-B). Arsenic concentrations in subsurface soil samples (36 to 42 inches bls) ranged from 1.1J mg/kg (WT-G07-SS-C) to 7.0J mg/kg (WT-G12-SS-C), chromium concentrations ranged from 31 mg/kg (WT-G12-SS-C) to 51 mg/kg (WT-G07-SS-C), and copper concentrations ranged from 5.0 mg/kg (WT-G11-SS-C) to 10 mg/kg (WT-G12-SS-C) (Ref. 25).

Composite surface soil (0 to 6 inches bls) samples were also collected from the front and back yards of 10 residences south, west, and east of the FSWT property. Arsenic was detected above background in residential surface soil samples. The highest arsenic concentration (11J mg/kg) was detected in sample WT-RP-11-SF-BY, collected from 1766 West 16th Street (Ref. 25).

2.5 EPA REMOVAL ACTION

Between March and October 2011, EPA conducted removal activities at the FSWT property and the adjacent STES and RVDES shared playground (see Figure 4 in Appendix A). A pervious fabric liner was encountered on the FSWT property about 6 to 8 inches bls along the northern, western, and southern portions of the property that are not covered with concrete. EPA excavated these areas down to about 1.5 feet bls and separated the contaminated "fines" material from the gravel (Refs. 26; 27). The fines were sampled, and results did not exceed the toxicity characteristic leaching procedure (TCLP) regulatory limits; therefore, the fines were disposed of as nonhazardous waste. The excavated areas on the FSWT property were not backfilled, instead the gravel was power washed and spread back on top of the excavation surface to control dust and limit exposure to the soil. The FSWT retention pond water was drained, treated, and disposed, and the sediments were partially excavated and disposed. EPA cleaned and cut up the tanks (seven in all) in the tank farm; the metal was taken to a recycler. Once the tanks were removed, the secondary containment area was cleaned. About 150,000 gallons of CCA-contaminated water was transported for reuse to a wood treater in Savannah, Georgia. The remaining

contaminated water was treated on site with titanium dioxide, neutralized, and disposed of in the City of Jacksonville sewer system with concurrence from the JEA (Ref. 26).

On the STES property, water in the STES retention pond was pumped out and sediments in the STES retention pond were excavated. Three composite confirmation samples were collected from the bottom of the excavation. Arsenic was detected in the confirmation samples at concentrations of 2.42 mg/kg (FSWT-CSED-04), 1.61 mg/kg (FSWT-CSED-05), and 1.78 (FSWT-CSED-06) (Ref. 27). The excavated sediments were replaced with clean fill material and the area surrounding the pond was re-sodded (Ref. 26). In addition, a small area on the STES and RVDES shared playground — where arsenic had been detected at a concentration exceeding its EPA removal action level (RAL) of 39 mg/kg — was excavated down to a maximum of 24 inches bls (Refs. 15; 21; 27). Three composite confirmation soil samples were collected from the bottom of the excavation. Arsenic was detected in confirmation soil samples at concentrations of 4.09 mg/kg (FSWT-CS-01), 2.27U (non-detect) mg/kg (FSWT-CS-02), and 2.58 mg/kg (FSWT-CS-03) (Ref. 27). The excavated area was backfilled with clean fill material and re-sodded (Ref. 26).

In October 2011, EPA conducted removal activities at three nearby residential properties (1857 West 13th Street, 2705 Fairfax Street, and 2719 Fairfax Street) where arsenic concentrations were identified near or above the EPA RAL of 39 mg/kg and concerns were raised regarding the possibility that children could come into contact with contaminated soil (Refs. 26; 28) (see Figure 4 in Appendix A). At 2719 Fairfax Street, soil in the eastern, southern, and western portions of the property was excavated to a depth of 6 inches bls. Two composite confirmation soil samples were collected from the bottom of the excavation. Arsenic was detected in the confirmation soil samples at concentrations of 2.25 mg/kg (WT-CS-2719Fairfax) and 1.81 mg/kg (WT-CS-2719Fairfax-Dup). At 1857 West 13th Street, soil in the northern portion of the property was excavated to a minimum depth of 6 inches bls. Soil was excavated to a depth of 1 foot bls in some areas, particularly along the FSWT property line. One composite confirmation soil sample was collected from the bottom of the excavation. This sample (FWT-CS-1857West13) contained arsenic at a concentration of 4.81 mg/kg. Soil throughout the property at 2705 Fairfax Street was excavated to a minimum depth of 6 inches bls. Soil was excavated to a depth of 1.5 feet bls in two areas along the western exterior wall of the residence. Two composite confirmation soil samples were collected from the bottom of the excavation. Arsenic was detected at concentrations of 4.68 mg/kg (FWT-CS-2705WS) and 6.43 mg/kg (FWT-CS-2705NE). The excavated areas at 2719 Fairfax Street and 2705 Fairfax Street were backfilled with clean fill material and re-sodded. The excavated area at 1857 West 13th Street was backfilled with clean fill material and covered with mulch (Ref. 28).

2.6 NATIONAL PRIORITIES LIST LISTING

The National Priorities List (NPL) identifies sites where a release, or threatened release, of hazardous substances poses a risk to public health or the environment serious enough to warrant further investigation and possible remediation under the CERCLA and the Superfund Amendments and Reauthorization Act of 1986. The FSWT site was proposed to the NPL in March 2012 and was finalized in September 2012 (Ref. 29).

3.0 REMEDIAL INVESTIGATION

This section discusses RI activities conducted at the site and any deviations from the approved final work plan and work plan addendum, data quality objectives, and laboratory analysis and data quality assessment procedures established in the final RI work plan and addendum (Ref. 2).

3.1 GEOPHYSICAL SURVEYS

Tetra Tech initiated RI field activities in December 2011 by conducting a geophysical survey. Specifically, ground penetrating radar (GPR) and electromagnetic (EM) surveys of the FSWT property were conducted. Tetra Tech procured a subcontractor, GEL Geophysics LLC (GEL), to conduct a geophysical survey (including GPR and EM surveys) of the FSWT property with Tetra Tech oversight. The GPR and EM surveys evaluated areas within the current fenceline of the FSWT property, including the interior of the Old Feed Building, as well as surrounding paved and non-paved areas. GEL located underground utilities, drainage pipes, and buried objects, and assessed the thickness of concrete in paved areas throughout the site. Data collected from the GPR and EM surveys were used to determine the approximate areal and vertical extents of buried objects and helped identify sampling locations. The maximum signal penetration depth with GPR was approximately 6 feet at the FSWT property (see Appendix H).

GEL identified a number of unknown underground utilities; however, GEL could not determine whether these utilities were abandoned. Some of the concrete slabs at the FSWT property contained reinforcement bars or wire mesh, and some were not reinforced. The thickness of the concrete slabs varied from 4 inches to 8 inches. Two potential USTs were detected at the site. Additionally, 12 areas were detected that exhibit geophysical anomaly responses consistent with buried metallic objects of unknown origin (see Appendix H).

3.2 RI SAMPLING ACTIVITIES

RI sampling activities were conducted between January 2012 and February 2013. Asbestos sampling inside the Old Feed Building was conducted on January 3, 2012. Initial RI sampling activities were conducted from February 20, 2012, to March 2, 2012, and included installation and development of permanent groundwater monitoring wells and collection of soil, groundwater, surface water, drain material, and sediment samples from the FSWT property, as well as nearby residential and school properties and waterways. In August 2012, a second round of groundwater monitoring and sampling was

conducted. Additional RI sampling activities were conducted from February 25 to 28, 2013. During this event, soil samples were collected from additional residential properties located north and east of FSWT to better define the lateral extent of arsenic contamination. Soil samples were five-point composites, unless otherwise stated in the logbook. A third round of groundwater monitoring and sampling was also conducted. Sampling was conducted, and quality assurance/quality control (QA/QC) samples were collected, in accordance with procedures documented in the EPA Region 4, Science and Ecosystem Support Division (SESD), Field Branches Quality System and Technical Procedures, with the approved final work plan dated January 27, 2012, and with the approved final work plan addendum dated January 23, 2013 (Refs. 2; 3). See Figure 5 in Appendix A for all RI sampling locations.

The nomenclature used in the subsections below is as follows. When referring to physical locations, station identifications (IDs) are used (for example: WTBG01, WTRP01, WTROWG01). When referring to specific samples collected at those locations, the sample IDs are used (for example: WT-BG-01-SF, WT-RP-01-SF-BY, WT-ROW-G01-SF.). The sample IDs are the same as the station IDs except with hyphens and sample medium information (for example: SF = surface soil, SB = subsurface soil, GW = groundwater). For residential properties (RP), the station ID represents an address, and the sample ID refers to where on the residential property the sample was collected, either the front yard (FY) or the backyard (BY), and at what depth, surface (SF) or subsurface (SB). For permanent monitoring wells (PMW), the well IDs are PMW-01, PMW-02, PMW-03, etc.; the station IDs are WTPMW01, WTPMW02, WTPMW03, etc.; and the sample IDs are WT-PMW-01-GW, WT-PMW-02-GW, WT-PMW-03-GW, etc.

3.2.1 RI Asbestos Sampling

The footprint of the Old Feed Building was divided into five grids, each measuring about 70 feet by 70 feet. One composite bulk solids sample was collected from soil on the surface of the concrete floor in each grid to assess the presence or absence of asbestos. No asbestos was detected (see Appendix G).

3.2.2 RI Background Sampling

Background samples were collected from off-site locations for each type of medium sampled, except for groundwater (no groundwater samples were collected from off-site locations), during FSWT RI field activities to determine naturally occurring concentrations of analytes. A total of six composite surface (0 to 6 inches) and subsurface (18 to 24 inches) soil samples were collected from undisturbed locations surrounding the FSWT property, including one from Grunthal Park (WTBG03), two from the Johnson

Middle School property (WTBG04 and WTBG05), one from the western portion of the RVDES property (WTBG06), one along the southern side of West 11th Street where it crosses Moncrief Creek (WTBG07), and one from a residential property located at 1620 West 16th Street (WTBG08). One background right-of-way (ROW) composite soil sample (WTROWG01) was collected from the southern side of the city ROW in the vicinity of Pearce and Grunthal Streets, which is located east and upgradient of both the FSWT property and Moncrief Creek.

Two background surface water samples (WT-DP-01-SW and WT-DP-02-SW) were collected from the City stormwater drainage pipe upstream of its confluence with the FSWT retention pond outfall. Four collocated background surface water and sediment samples (WTMC01, WTMC02, WTMC03, and WTMC04) were collected from locations along Moncrief Creek upstream of the FSWT property and the discharge point of the drainage pipe that receives effluent from the FSWT retention pond. See Figure 6 in Appendix A for the locations of all background soil, sediment, and surface water samples.

3.2.3 RI On-Site Sampling

The northern, southern, and western portions of the FSWT property were divided into 15 grids following the pattern established during the July 2011 removal confirmation and residential sampling event. During the RI, two additional grids were established in the area adjacent to the drip pad. Composite surface (0 to 6 inches bls) and subsurface (18 to 24 inches bls) soil samples were collected from the perimeter drainage ditch, secondary ditches, and from the area between the perimeter drainage ditch and the property fenceline within each grid for on-site Grids 01 through 15. Composite surface and subsurface soil samples were collected from on-site Grid 16. Because of auger refusal, only a composite surface soil sample was collected from Grid 17. These areas were investigated during the RI because they were not included in the removal action, nor had they been sampled during previous EPA investigations.

Eight permanent monitoring wells were installed with 10-foot screens at the bottom of each well. Specifically, seven monitoring wells were installed to about 20 feet bls and one monitoring well was installed to about 40 feet bls. The average depth to water is about 5 feet bls (see Table 17 in Appendix B). During monitoring well installation, subsurface soil samples were collected at depths of 8 to 10 feet and 18 to 20 feet bls from each of the eight new permanent monitoring well locations. Additional subsurface soil samples at depths of 28 to 30 feet and 38 to 40 feet bls were collected from the deeper monitoring well location (WTPMW06D).

A slug test was performed using three of the newly installed monitoring wells (PMW-01, PMW-03, and PMW-05) with an In Situ LevelTROLL Datalogger to evaluate the hydraulic conductivity of the shallow aquifer beneath the FSWT site. Two tests, rising-head and falling-head, were conducted at each of the three wells. Results from each of these two tests were used to calculate the average hydraulic conductivity of the shallow aquifer.

Groundwater samples were collected from each of the newly installed permanent monitoring wells in February 2012. Two additional rounds of groundwater sampling were conducted in August 2012 and February 2013 (Refs. 3; 30). The groundwater monitoring data, combined with information provided by the well surveyor, were used to determine the potentiometric surface and flow direction for groundwater beneath the site. Potentiometric surface maps for each groundwater monitoring and sampling event were prepared based on groundwater elevations collected during each event. These maps indicate a westerly groundwater flow pattern originating from PMW-01; however, the dominant groundwater flow pattern appears to be to the north-northwest (see Figures 7A, 7B, and 7C in Appendix A and Appendix I).

The footprint of the Old Feed Building was divided into five grids, each measuring about 70 feet by 70 feet. Two composite subsurface soil samples (at 2 to 3 feet bls and 5 to 6 feet bls) were collected from each of the five grids below the building foundation using direct-push technology (DPT) drilling methods.

One grab soil sample was collected from 0 to 6 inches beneath the FSWT retention pond liner in the northwestern portion of the pond where the liner was already breached. One surface water sample was also collected from the FSWT retention pond.

Samples were collected from the material contained in 12 on-site drains. The grate for one of the drains (WTDN11) was missing. Four large blocks of wood were set around this drain during the EPA removal action to prevent anyone from accidently stepping into the open hole. A front-end loader was used to remove and replace each of the remaining drainage grates.

3.2.4 RI Off-Site Sampling

One surface (0 to 6 inches bls) and one subsurface (18 to 24 inches bls) composite soil sample were collected from the STES property in an area just north of the STES building that was not previously sampled by EPA. Two surface water and two sediment samples were also collected from the STES retention pond to verify post-removal conditions.

Composite surface (0 to 6 inches bls) and subsurface (18 to 24 inches bls) soil samples were collected from the front and back yards (where accessible) of 65 residential properties located north, east, south, and west of the FSWT property.

The city ROW between the northern FSWT property line and the railroad was divided into eight grids. A composite surface soil sample (0 to 6 inches bls) was collected from every other grid (ROW Grids 02, 04, 06, and 08).

One surface water and one sediment sample were collected from the city-owned stormwater drainage pipe that receives effluent from the FSWT retention pond at a location downgradient of the FSWT property, approximately 20 feet northwest of the retention pond.

Twenty-two collocated surface water and sediment grab samples were collected from 11 sampling locations within Moncrief Creek at and downstream of the outfall from the stormwater drainage pipe that receives effluent from the FSWT retention pond. About 2,225 feet downstream of the stormwater drainage pipe outfall, Moncrief Creek opens up into a stormwater retention basin. The retention basin provides area-wide stormwater retention. Six large stormwater pipes collect stormwater from several city blocks and drain into the basin. Collocated surface water and sediment samples (WTMC10 through WTMC14) were collected at each of these outfalls during the RI (see Figure 5 in Appendix A). Numerous smaller stormwater pipes also drain into Moncrief Creek (upstream and downstream of FSWT), located primarily at the ends of streets.

3.3 DEVIATIONS FROM THE WORK PLAN AND WORK PLAN ADDENDUM

During the February 2012 and February 2013 field sampling events, some sampling locations deviated from the locations proposed in the approved final work plan (dated January 27, 2012) and the approved final work plan addendum (dated January 23, 2013) in response to site conditions. Deviations in the field were documented in the logbook notes contained in Appendix D and are summarized below.

- In on-site Grid 09, the secondary drainage ditch that extended north of the concrete pad was filled in during removal activities; therefore, a secondary drainage ditch sample was not collected from Grid 09 (see page 35 of Logbook 01 in Appendix D).
- In on-site Grid 09, the small portion of the secondary drainage ditch that extends south of the concrete pad was included in the secondary drainage ditch sample for Grid 10 (see page 35 of Logbook 01 in Appendix D).

- The perimeter fenceline sample in Grid 12 was split into two samples, one for the perimeter fenceline that runs north-south and one for the perimeter fenceline that runs east-west (see page 37 of Logbook 01 in Appendix D).

- The subsurface soil sample (18 to 24 inches bls) in Grid 17 was not collected because of auger refusal.

- City ROW soil samples for Grids 03, 05, 07, 09, and 10 were eliminated at the direction of EPA.

- The following residences were not sampled in February 2012 because access agreements were not signed: 1764 West 19th Street (WTRP24), vacant lot between 1846 and 1858 West 19th Street (WTRP28), 1963 Pullman Avenue (WTRP46), 1757 West 16th Street (WTRP23), 2306 Fairfax Street (WTRP56), 1819 West 13th Street (WTRP58), 1845 West 13th Street (WTRP62), and 1816 West 14th Street (WTRP65).

- Signed access agreements for additional residences were obtained during the February 2012 field investigation. Those addresses and their assigned station IDs are as follows: 1745 West 17th Street (WTRP71), 1739 West 17th Street (WTRP72), 1736 West 17th Street (WTRP73), 1725 West 17th Street (WTRP74), and 1750 West 14th Street (WTRP75).

- An additional background sample from a residential property, 1620 West 16th Street (WTBG08), was added during the February 2012 field investigation.

- Station ID WTRP63 was moved from 1822 West 13th Street to 1828 West 13th Street because access was not granted to 1822 West 13th Street.

- The back yards of the following residences were not sampled in February 2012 because they were covered with hardscape: 1804 West 19th Street (WTRP26), 1751 West 17th Street (WTRP21), 1750 West 16th Street (WTRP49), and 1756 West 15th Street (WTRP51).

- The front yard at 1845 West 19th Street (WTRP36) was not sampled in February 2012 because it was covered with hardscape.

- Sediment was not present in the drainage pipe at locations WTDP01 and WTDP02 in February 2012; therefore, sediment samples were not collected at these locations.

- During the February 2012 field investigation, Tetra Tech's shipment carrier, FedEx, lost one of the coolers containing samples collected from on-site grids. As a result, those samples were re-collected and designated with an "R" at the end of the sample ID.

- Debris was present inside of the drainage pipe, preventing access for the video camera in February 2012; therefore, a video inspection of the drainage pipe was not conducted.

- During the February 2013 field event, the following residences were not sampled because access agreements were not signed: 1916 West 20th Street (WTRP78), vacant lot between 2925 Spires Avenue and 1844 West 20th Street (WTRP82), 1836 West 20th Street (WTRP84), 1830 West 20th Street (WTRP85), 1822 West 20th Street (WTRP86), 1816 West 20th Street (WTRP87), 1810 West 20th Street (WTRP88), 1763 West 19th Street (WTRP91), vacant lot between 1858 and 1846 West 19th Street (WTRP28), 2306 Fairfax Street (WTRP56), 1819 West 13th Street (WTRP58), and 1845 West 13th Street (WTRP62).

3.4 DATA QUALITY OBJECTIVES

Data quality objectives (DQO) were established to define the quantity and quality of the data to be collected to support the objectives of the RI, which are to define the nature and extent of contamination in media at the FSWT site; provide adequate data for a baseline risk assessment; and provide adequate data to be used to develop a FS and ultimately select a remedy.

Sampling and laboratory analysis were conducted to determine the presence or absence of site-related contaminants in media at the FSWT site, including soil, drain material, sediment, surface water, and groundwater. Analytical data for environmental samples were evaluated to assess whether contaminant concentrations are present above sample-specific and analyte-specific minimum reporting limits (MRL) and exceed screening levels and comparison criteria. The MRL is the analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL accounts for preparation weights and volumes, dilutions, and moisture content in soil and sediment samples.

Analytical results were compared with the screening levels and other comparison criteria that were in effect at the time of sampling. These criteria are listed below.

- EPA November 2011 Regional Soil Screening Levels (RSL): http://www.epa.gov/region9/superfund/prg
- FDEP 2005 Soil Cleanup Target Levels (SCTL): http://www.dep.state.fl.us/waste/quick_topics/publications/wc/brownfields/CompTables/SoilCleanupTargetLevels.pdf
- EPA MCLs: http://water.epa.gov/drink/contaminants/upload/mcl-2.pdf
- FDEP 2005 Groundwater and Surface Water Cleanup Target Levels: http://www.dep.state.fl.us/waste/quick_topics/publications/wc/brownfields/CompTables/GroundwaterandSurfaceWaterCleanupTargetLevels.pdf
- EPA Region 4 Surface Water and Sediment Screening Values: http://www.epa.gov/region4/waste/sf/programs/riskassess/ecolbul.html
- 2003 FDEP Sediment Quality Assessment Guidelines for Florida Inland Waters: http://www.dep.state.fl.us/water/monitoring/docs/seds/SQAGs_for_Florida_Inland_Waters_01_03.PDF

3.5 SELECTION OF ANALYTICAL PARAMETERS

According to Wood Treaters, LLC, CCA was the only product used to treat wood; Wood Treaters, LLC, did not treat wood products with creosote or pentachlorophenol (Ref. 5). Therefore, during the August 2010 ER, Tetra Tech analyzed all samples for the complete TAL of metals, in addition to hexavalent chromium. Arsenic, chromium, hexavalent chromium, and copper were the only metals detected at significant quantities.

During the May 2011 pre-RI, all samples were analyzed for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), pesticides, polychlorinated biphenyls (PCB), and TAL metals to ensure that all possible contaminants of concern were identified. Again, only arsenic, chromium, and copper were detected at significant quantities. As a result, arsenic, chromium, hexavalent chromium, and copper were identified as the contaminants of concern for the site and were the only contaminants analyzed for in subsequent investigations, unless an area was sampled during the RI that was not previously characterized, such as the Old Feed Building.

Regarding hexavalent chromium, all samples collected during the August 2010 ER were analyzed for hexavalent chromium. Hexavalent chromium was detected in the product tanks and the process area samples, but was not detected in on-site soil or off-site surface water and sediment samples. Therefore, future investigations at the site included the analysis of hexavalent chromium only in aqueous and solid media in the most contaminated portion of the property: the process area. In addition, hexavalent chromium was also analyzed for in a percentage of samples collected from other areas on site and off site in an effort to be conservative. None of these samples contained hexavalent chromium. Between August 2010 and February 2013, a total of 122 environmental samples were analyzed for hexavalent chromium: 64 soil, 12 drain material, 8 sediment, 9 surface water, 22 groundwater, and 7 aqueous/product samples.

3.6 LABORATORY ANALYSIS, DATA QUALITY ASSESSMENT, AND DATA QUALIFIERS

All soil, drain material, and sediment samples collected during the RI were analyzed by EPA Region 4 SESD. The laboratory analyzed all samples for arsenic, copper, and chromium using EPA Test Methods for Evaluating Solid Waste, Fourth Edition, Including Updates I through IVB, February 2007 (SW-846) Method 6010C in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (LOQAM). In addition, selected samples were analyzed for hexavalent chromium in accordance with EPA SW-846 Method SM 3500 Cr. All surface water and groundwater samples were analyzed by EPA Region 4 SESD for total and dissolved arsenic, chromium, and copper in

accordance with EPA Methods 200.8 and 218.6. EPA Region 4 SESD analyzed soil samples collected from beneath the Old Feed Building for TAL metals in accordance with SW-846 Method 6010C, as well as for VOCs in accordance with SW-846 Method 8260C. An EPA Contract Laboratory Program (CLP) laboratory, ALS Laboratory Group, analyzed soil samples collected from beneath the Old Feed Building for SVOCs, pesticides, and PCBs in accordance with CLP Statement of Work (SOW) SOM01.2. EPA Region 4 SESD reviewed all CLP data for compliance with the CLP terms. The bulk solids soil samples collected during asbestos sampling in the Old Feed Building were submitted to a subcontract laboratory, Analytical Environmental Services, Inc., procured by Tetra Tech for asbestos analysis.

Initial acceptance of the CLP and SESD data was assessed by the EPA Region 4 SESD Office of Quality Assurance through the data validation process. Any rejected data and the reasons for rejection are summarized in the data validation report (see Appendix G). Additionally, Tetra Tech conducted a cursory review of the CLP data packages against the chain-of-custody records to ensure that results for all samples were received. The analytical data package for the bulk solids soil samples received from the laboratory procured by Tetra Tech was reviewed for completeness, but was not validated.

QA/QC samples were collected during the sampling event to check for variations with sample collection, sample handling, equipment decontamination, and laboratory analysis. To determine whether additional qualifications were warranted, Tetra Tech reviewed all field duplicate and QC blank samples (equipment, field, preservative, filter, and trip) in accordance with the EPA CLP National Functional Guidelines (NFG) for Superfund Organic Methods Data Review, USEPA-540-R-08-01, June 2008; and the EPA CLP NFG for Inorganic Superfund Data Review, USEPA-540-R-10-11, January 2010. Based on the results of Tetra Tech's review, additional qualifiers were added to the analytical data where appropriate (see Appendix F).

The text and analytical data tables presented in this report list some concentrations of the parameters as qualified with a "J," indicating that the identification of the analyte is acceptable; however, the reported value is an estimate. "J" qualified parameters may also include a "+" or "-," indicating either a high or a low bias. Some parameters in the data tables may be qualified with a "J′," indicating that the concentration reported is acceptable; however, the reported value is estimated because it is less than the lowest standard on the calibration curve and is, therefore, less than the sample-specific and analyte-specific MRL. Some sample results are reported with a "U" qualifier, meaning that the analyte was not detected at or above the MRL. The reported value is the sample-specific, laboratory-derived MRL for the constituent. The analytical data sheets are presented in Appendix G.

4.0 PHYSICAL CHARACTERISTICS

This section describes the physical characteristics, including the topography, climate, surface water hydrology, geology, and hydrogeology of the FSWT property and surrounding area. This information is important in interpreting the potential impacts of wood treating constituents in environmental media, because the physical characteristics influence the movement of constituents and how they might affect possible receptors.

4.1 TOPOGRAPHY AND SOIL TYPE

The topography of the FSWT property and the surrounding area is generally flat and, prior to 1990, overland flow of stormwater across the FSWT property was uncontrolled (Refs. 13; 14). The elevation at the FSWT property is about 25 feet above mean sea level (msl) (see Figure 1 in Appendix A). The type of soil present at the FSWT property is classified as Pelham-Urban land complex (Ref. 31). According to the U.S. Department of Agriculture's soil survey of Duval County, this complex is about 40 to 70 percent Pelham fine sand, of which about 20 percent has been modified by cutting, grading, and shaping. About 25 to 45 percent is urban land, or areas covered by houses, streets, driveways, buildings, parking lots, and urban construction. The open areas of Pelham fine sand are mostly lawns, vacant lots, or playgrounds, and generally they are so small and intermixed with urban land that it is impractical to map them separately. Slopes range from 0 to 2 percent. These soils have been reworked less in the older communities than in the newer, more densely populated ones. Excavating for streets to a depth below the original surface and spreading the soil on adjacent areas is a common practice in the newer developments. The excavated material is also used to fill in low areas (Ref. 32).

4.2 SURFACE WATER HYDROLOGY

Until 1990, stormwater flow from the FSWT property was routed to the STES retention pond area via an underground conduit. In addition, stormwater also flowed, uncontrolled, onto surrounding properties. In 1990, this conduit was closed off when FSWT installed the stormwater collection and management system. Surface water runoff from the FSWT property is currently directed to the stormwater collection and retention system, including site grading and paving for drainage, stormwater collection swales, diversion berms, and a lined retention pond (Ref. 5). Overflow from the FSWT retention pond flows west through an underground, City-owned stormwater drainage pipe for about 1,000 feet before it enters Moncrief Creek. Moncrief Creek flows north about 3.5 miles, receiving runoff from several drainage pipes, before it converges with the Trout River. Along Moncrief Creek, about 0.5 mile downstream of the

FSWT City-owned stormwater drainage pipe outfall, a retention basin receives stormwater from the general area; six stormwater culverts empty into the basin. The Trout River flows east about 2 miles before it converges with the St. Johns River (Ref. 15). The FSWT property is located outside of the 500-year flood plain of Moncrief Creek (Ref. 33).

4.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

Duval County lies within five physiographic subdivisions of the Coastal Plain Province: Atlantic Coastal Ridge, Center Park Ridge, Trail Ridge, Eastern Valley, and Duval Uplands. The majority of Duval County is in the Eastern Valley, while the southwestern portion of the county lies in the Trail Ridge and Duval Uplands physiographic features; the Atlantic beaches lie in the Atlantic Coastal Ridge. The FSWT property lies within the Eastern Valley. These features are the result of primary deposition and subsequent erosion. Ridges are composed of sand that accumulated as beaches and offshore bars on the terraces of the Eastern Valley and are characterized by thick sand sections at comparatively high land surface elevations (Ref. 34). The elevation at the FSWT property is about 25 feet above msl (see Figure 1 in Appendix A).

The geology in the vicinity of the FSWT property may include, in descending stratigraphic order, some or all of the following units: Holocene and Pleistocene alluvium and terrace deposits, Pliocene deposits (consisting of the Charlton Formation), the Hawthorn Group (consisting of the Coosawhatchee, Marks Head, and Penney Farms Formations); the Ocala Group (consisting of the Crystal River, Williston, and Inglis Formations); and the Avon Park, Oldsmar, and Cedar Keys Formations (Refs. 35; 36; 37; 38; 39).

The Holocene and Pleistocene deposits consist of sandy marine terrace deposits and are capped with a thin layer of fluvial sand or residuum (Refs. 35; 36). These deposits can range in thickness from 0 to 90 feet in Duval County (Ref. 40). Pliocene deposits consist of a basal sequence of marginal to shallow marine beds containing sand, sandy clay, shell, and limestone (Refs. 35; 36; 40). These deposits can range in thickness from 10 to 110 feet in Duval County (Ref. 40).

The Coosawhatchee Formation of the Hawthorn Group consists of Miocene quartz sands, dolostone, and clays. The Marks Head Formation of the Hawthorn Group consists of interbedded sands, clays, and dolostone. The Penny Farms Formation of the Hawthorn Group consists of two informal, unnamed members distinguished by the abundance of carbonate beds. Each member consists of varying carbonate and siliciclastic beds, with interbedded sand and clays (Ref. 29). The thickness of the Hawthorn Group in Duval County ranges from about 250 to 500 feet (Refs. 35; 39; 40; 41).

The Ocala Group, composed of upper Eocene deposits, unconformably underlies the Hawthorn Group and can be divided into two parts based on lithology since the three formations cannot be differentiated in the subsurface. The upper part consists of white, generally soft, somewhat friable porous coquina, and the lower part consists of cream to white, generally fine grained, soft to semi-indurated, micritic limestone (Refs. 25; 39). The thickness of the Ocala Group in the Duval County area ranges from 160 to 520 feet (Refs. 36; 39).

The Avon Park Formation consists of middle Eocene locally micritic, pelletal limestone and ranges in thickness from 150 to 700 feet in central and southern Florida. However, it has been considerably thinned by erosion in northeast Florida (Refs. 36; 39). The top of the formation is approximately 500 feet below msl in south-central Duval County (Ref. 39).

The Oldsmar Formation consists of lower Eocene micritic to finely pelletal limestone, interbedded with fine to medium crystalline, commonly vuggy dolomite, and averages approximately 400 feet thick in the Duval County area (Ref. 36).

The Cedar Keys Formation, composed of Paleocene deposits, is divided into two parts based on lithology. The upper one-third of the Cedar Keys Formation consists of coarsely crystalline dolomite that is moderately to highly porous. The lower two-thirds of the Cedar Keys Formation consists of finely crystalline to microcrystalline dolomite interbedded with anhydrite. The Cedar Keys Formation is about 500 feet thick in the Jacksonville area (Ref. 36).

Two major sources of groundwater exist in the region: a shallow-aquifer system (composed of the surficial aquifer and water-bearing zones of the Hawthorne) and the underlying Floridan aquifer system. The major water-yielding zone in the shallow-aquifer is typically found in the porous limestone section of the Hawthorn Formation and extends to an approximate depth of 100 feet bls (Refs. 40; 41). The surficial aquifer lies within the permeable units of the post-Miocene deposits and is generally under unconfined conditions (Ref. 35). However, some shallow wells located in low areas adjacent to the St. Johns River and its tributaries can yield water under artesian conditions, indicating the presence of confining units, likely in the shell and limestone beds near the base of the deposits (Ref. 39).

The water level in the surficial aquifer fluctuates seasonally, corresponding to variations in precipitation and evaporation (Ref. 35; 39). The surficial aquifer is recharged primarily by the infiltration of precipitation that falls in the area and is generally hydrologically interconnected with water from lakes, streams, and marshes (Refs. 35; 40).

Regional groundwater flow in the shallow-aquifer system in Duval County varies, but the overall trend is to the east-northeast (Refs. 40). The surficial aquifer is separated from the Floridan aquifer system by the confining beds of the Hawthorn Group. Throughout most of northeast Florida, the middle Miocene age clays and silty clays of low permeability of the Hawthorn provide an upper confining unit that retards the movement of water from the underlying Floridan aquifer system. It is generally encountered between depths of 100 and 525 feet bls (Refs. 35; 41).

The Floridan aquifer system generally consists of permeable units of the Eocene series, including the Ocala Group, the Avon Park, and Oldsmar Formations (Refs. 36; 41). The top of the Floridan aquifer system in northeast Florida is generally encountered between 100 and 500 feet below msl, and the system is divided into upper and lower major permeable zones called the Upper and Lower Floridan aquifers (Refs. 35; 36).

The Upper Floridan aquifer is mostly located within the Ocala Limestone of high-porosity late Eocene deposits and accounts for approximately half of the groundwater pumped from the Floridan aquifer system in northeast Florida (Ref. 35).

A semi-confining unit underlies the Upper Floridan aquifer and consists mostly of an upper bed within the Oldsmar Formation (Refs. 35; 41). This semi-confining unit is breached by fractures that allow groundwater to flow from the Lower to the Upper Floridan aquifer (Ref. 35).

The Lower Floridan aquifer consists of lower to middle Eocene deposits and is composed primarily of permeable beds within the Avon Park and Oldsmar Formations (Ref. 35). Portions of the Lower Floridan aquifer that overlie the Fernandina permeable zone consist of relatively discrete permeable intervals of hard, fractured, limestone or dolomite, separated by various thicknesses of relatively impermeable carbonate rocks (Ref. 41).

4.4 SITE GEOLOGY AND HYDROGEOLOGY

Well logs within 2 miles of the FSWT property indicate that the combined thickness of the post-Miocene deposits (Holocene, Pleistocene, and Pliocene) may range from 45 to 180 feet. These deposits are encountered at depths ranging from ground surface to approximately 165 feet below msl (Ref. 42). During RI activities, eight permanent monitoring wells were installed within the surficial aquifer of Holocene and Pleistocene deposits. Seven of the eight wells were installed to approximately 20 feet bls. One well (PMW-06D) was extended to 40 feet bls to assess whether contaminants have migrated into

Holocene and Pleistocene deposits. Lithologic logs of the permanent monitoring wells indicate the presence of sand, sandy clay, and clay in the subsurface throughout the site (see Figure 8 in Appendix A and Appendix E).

On average, the surficial aquifer was encountered between 3.6 feet and 7.3 feet bls. The potentiometric surface maps prepared based on groundwater elevations collected during the three groundwater monitoring and sampling events conducted at the time of this report indicates that there is a westerly groundwater flow pattern originating from PMW-01. However, the dominant groundwater flow pattern underlying the FSWT property appears to be to the north-northwest (see Figures 7A, 7B, and 7C in Appendix A, Table 17 in Appendix B, and Appendix I).

Although both the shallow wells and deep well (PMW-06D) were installed in the same water-bearing zone of Holocene and Pleistocene deposits, tight clays and silts were encountered at depths ranging from approximately 25 feet to 40 feet bls in the deep well. These tight silts and clays restrict the movement of water, which may, in part, account for the difference in headspace between the deep well and the shallow wells. Furthermore, the difference in water levels indicates that, to some degree, a downward hydraulic gradient may be present. Groundwater was allowed to equilibrate before the shallow wells were sampled in February 2012, and additional time was allotted for the deep well since it was screened in tight clays.

Throughout much of Duval County, the elevation of the potentiometric surface of either the Floridan aquifer system or the shallow aquifer system is above land surface, resulting in limited aquifer recharge. High sand ridges and possible upward leakage from the deeper Floridan aquifer, through lenses of permeable sand, may contribute to the shallow-aquifer system (Refs. 35; 40). Water from the shallow aquifer is primarily used for domestic purposes, particularly in rural areas not serviced by private or public utilities (Ref. 40).

In the Jacksonville area, the shallow aquifer system is underlain by approximately 400 feet of the Hawthorn Formation, composed of late to middle Miocene clays, silts, and shellbeds (Ref. 41). Although water can be extracted from the upper portion of the Hawthorn Formation, it primarily functions as a confining unit. The impermeable layer in Duval County is, at a minimum, greater than 100 feet thick and unbreached (Refs. 35; 36). Well logs within 2 miles of the FWST property indicate that the thickness of the Hawthorn Group ranges from 210 to 450 feet and that the group is first encountered at depths ranging from 45 to 180 feet bls (Refs. 35; 42).

The Floridan aquifer system is approximately 2,000 feet thick in the Jacksonville area (Ref. 36). The Upper Floridan aquifer was encountered at depths between 390 and 500 feet bls in wells located within a 2-mile radius of the FSWT property and ranges in thickness from approximately 400 to 500 feet (Refs. 36; 42).

The upper and lower portions of the Floridan aquifer system are separated by the Avon Park Formation, which forms the middle confining unit (Refs. 35; 36). The middle semi-confining unit in JEA Municipal Supply Well No. 5406, located about 6 miles east southeast of the FSWT property, extends between 680 feet and at least 963 feet with continuation to 1,100 feet likely in this area (Ref. 41). The middle semi-confining unit in the Jacksonville area is breached by faults or fractures that might facilitate leakage, generally from the Lower to the Upper Floridan aquifer (Refs. 35; 43).

The top of the lower Floridan aquifer was encountered at an approximate depth of 1,100 feet bls during installation of JEA Municipal Supply Well No. 5406 and reportedly extends to approximately 2,500 feet bls (Refs. 35; 36; 41). Although regionally only about 10 percent of the water extracted from the Floridan aquifer system originates from the Lower Floridan aquifer, this unit, including the Fernandina permeable zone, is a major source of water for the Jacksonville area and supplies about half of the water to municipal and industrial wells. The Fernandina permeable zone is in the lower part of the Lower Floridan aquifer (Ref. 35). According to logs for municipal wells located at the Arlington Water Treatment Plant, approximately 6 miles east-southeast of the FSWT property, the Fernandina permeable zone is encountered at approximately 1,800 to 2,400 feet bls (Ref. 41).

4.5 METEOROLOGY

The FSWT property is located in the southern temperate climate zone of the United States, which is characterized by warm, dry summers and cool, wet winters (Ref. 44). Specifically, typical weather patterns for Duval County include frontal activity during the winter that causes widespread rainfall and short periods of cooler temperatures, and scattered thunderstorm activity during the summer (Ref. 45). The average annual temperature for Jacksonville is between 68 and 69 degrees Fahrenheit. June, July, and August are the hottest months, with monthly average temperatures of about 80 degrees Fahrenheit. December, January, and February are the coolest months, with average temperatures in the middle 50s Fahrenheit. The average yearly rainfall is 52.39 inches, with the greatest amount of precipitation occurring during September and the least amount of precipitation occurring in November (Ref. 46).

4.6 DEMOGRAPHY, LAND USE, AND WATER USE

The FSWT property is located in northwest Jacksonville, Florida. FWST is bordered to the north by St. Johns/CSX railroad tracks, to the east by Fairfax Street and residential properties beyond, to the south by West 14th Street and residential properties beyond, and to the west by STES and RVDES, and by Pullman Court (see Figure 2 in Appendix A). Land use within the vicinity of the FSWT property consists primarily of residential, educational, and commercial activities. At the time of the 2010 census, Jacksonville had a population of 821,784 people, and the average household size was 2.55 persons (Ref. 47).

Residents in Duval County are provided drinking water by the JEA (Ref. 48). The source of water for JEA is groundwater, and all of the JEA wells are completed in the Floridan Aquifer system, which is composed of the Upper and Lower Floridan aquifers (Refs. 41; 48). The closest JEA well is located about 550 feet west of the FSWT property on the RVDES property and is approximately 1,300 feet deep (Ref. 49). In 2011, this well was sampled by JEA; no arsenic, chromium, or copper was detected (Ref. 50).

5.0 NATURE AND EXTENT OF CONTAMINATION

This section discusses background soil sampling, analytical results for samples collected during the RI, the risk areas and extent of contamination, and the release mechanisms that are representative of current site conditions. The RI was designed to utilize sample data collected during the ER, removal action, and pre-remedial investigations. The RI sampling focused on defining the extent of contamination and sampling areas that had not previously been sampled.

5.1 BACKGROUND SOIL DISCUSSION

Between 2009 and 2012, background soil samples were collected from 23 locations north, east, south, and west of the site (see Figure 6 in Appendix A). Background analytical results are available from four previous EPA investigations, the RI, and one investigation conducted by Wood Treaters, LLC. In November 2009, Access Environmental, Inc. (Access), on behalf of Wood Treaters, LLC, and under the oversight of FDEP, collected 10 surface soil (0 to 6 inches bls) samples from locations surrounding the Wood Treaters LLC property. Arsenic concentrations ranged from 0.895 mg/kg to 6.24 mg/kg; total chromium concentrations ranged from 3.1 mg/kg to 18.2 mg/kg; and copper concentrations ranged from 1.67 mg/kg to 140 mg/kg (Ref. 51).

During the August 2010 ER, Tetra Tech collected one surface soil (0 to 4 inches bls) sample (FRW-SS-BKG) from Raymond E. Davis Park on West 21st Street. Arsenic was detected at 1.26 mg/kg, total chromium was detected at 5.44 mg/kg, and copper was detected at 8.19 mg/kg. Hexavalent chromium was not detected (see Figure 6 in Appendix A and Table 1 in Appendix C) (Refs. 17; 20).

In January 2011, Tetra Tech collected four (including one duplicate) background surface soil (0 to 6 inches bls) samples from the western side of the RVDES property and one background surface soil (0 to 12 inches bls) and two background subsurface soil (12 to 24 inches bls and 24 to 36 inches bls) samples from the Raymond E. Davis Park. Arsenic concentrations in the background surface soil samples ranged from non-detect to 1.14J mg/kg, total chromium ranged from 3.12 mg/kg to 5.85 mg/kg, and copper ranged from 3.82 mg/kg to 10.1 mg/kg. Arsenic was detected at 1.63 mg/kg in the background subsurface soil sample collected from 12 to 24 inches bls, total chromium was detected at 3.94 mg/kg, and copper was detected at 15.6 mg/kg. The background subsurface soil sample collected from 24 to 36 inches bls contained total chromium at 1.32 mg/kg and copper at 1.33 mg/kg. Arsenic was not detected (see Figure 6 in Appendix A and Table 1 in Appendix C) (Ref. 21).

During the May 2011 pre-RI, Tetra Tech collected one background surface soil (0 to 6 inches bls) sample from the western portion of the RVDES property. Arsenic was not detected, total chromium was detected at 6.7 mg/kg, and copper was detected at 5.6J mg/kg (see Figure 6 in Appendix A and Table 1 in Appendix C) (Ref. 15).

In July 2011, Tetra Tech collected background soil samples from Raymond E. Davis Park at three depth intervals: 0 to 6 inches bls, 18 to 24 inches bls, and 36 to 42 inches bls. The background surface soil sample contained arsenic at 1.6J- mg/kg, total chromium at 14J- mg/kg, and copper at 37 mg/kg. Arsenic was not detected, total chromium was detected at 2.2 mg/kg, and copper was detected at 3.0 mg/kg in the background subsurface soil sample collected from 18 to 24 inches bls. Arsenic was not detected in the background subsurface soil sample collected from 36 to 42 inches bls, total chromium was detected at 5.6 mg/kg, and copper was not detected (see Figure 6 in Appendix A and Table 1 in Appendix C) (Ref. 25).

During the RI, background surface (0 to 6 inches bls) and subsurface (18 to 24 inches bls) soil samples were collected from six locations surrounding the FSWT property. Background arsenic concentrations in surface soil ranged from 0.29 mg/kg to 1.0J- mg/kg, total chromium concentrations ranged from 2.0 mg/kg to 5.6 mg/kg, and copper concentrations ranged from 2.6 mg/kg to 8.6 mg/kg. Background arsenic concentrations in subsurface soil ranged from non-detect to 1.2J- mg/kg, total chromium concentrations ranged from 0.66 mg/kg to 3.2 mg/kg, and copper concentrations ranged from non-detect to 11 mg/kg. Hexavalent chromium was not detected in any of the surface or subsurface background soil samples (see Figure 6 in Appendix A and Table 1 in Appendix B).

Using all of the background samples collected during the RI and previous investigations, 95 percent upper tolerance limits (UTL) were calculated for arsenic, total chromium, and copper using ProUCL, Version 4.1, software. (Reference 52 is the technical memorandum detailing the 95 percent UTL calculations.) Hexavalent chromium was not detected in any background samples; therefore, its background value is non-detect (ND). The data were grouped into two different categories – surface soils (0 to 12 inches bls) and subsurface soils (12 to 42 inches bls). The background UTL values calculated for surface soils are 2.36 mg/kg for arsenic, 7.03 mg/kg for total chromium, and 10.6 mg/kg for copper. The background UTL values calculated for subsurface soils are 1.61 mg/kg for arsenic, 6.06 mg/kg for total chromium, and 15.3 mg/kg for copper (Ref. 52).

5.2 RI ANALYTICAL RESULTS

RI sampling activities were conducted between January 2012 and February 2013 and included collection of asbestos, soil, groundwater, surface water, drain material, and sediment samples from the FSWT property, as well as nearby residential and school properties and waterways.

For residential and on-site soil samples, arsenic, chromium, and copper analytical results were compared with the calculated 95 percent UTL background values discussed in Section 5.1 or the FDEP SCTLs, whichever is greater (Refs. 52; 53). The table below presents the calculated background values and the FDEP SCTLs. The bolded values are the screening values used as comparison criteria for residential and on-site soil samples. The calculated background value for surface soil arsenic was the only background value used for comparison.

Residential and On-Site Soil Samples		
Analyte	**Calculated Background Value (mg/kg)**	**FDEP SCTL (mg/kg)**
Surface Soil (SF)		
Arsenic	**2.36**	2.1
Chromium	7.03	**210**
Chromium III	7.03	**110,000**
Chromium VI	ND	**210**
Copper	10.6	**150**
Subsurface Soil (SB)		
Arsenic	1.61	**2.1**
Chromium	6.06	**210**
Chromium III	6.06	**110,000**
Chromium VI	ND	**210**
Copper	15.3	**150**

For soil samples collected on the school properties, arsenic, chromium, and copper analytical results were not compared to screening values. EPA's RSLs are comparable to residential and industrial properties and FDEP's SCTLs are comparable to residential and commercial/industrial properties (Refs. 53; 66). There are no state or federal screening values for school properties.

Sediment samples collected from Moncrief Creek and the STES retention pond were compared to the 2003 FDEP Sediment Quality Assessment Guidelines for Florida Inland Waters, threshold effect concentrations (Ref. 54).

Moncrief Creek and STES Retention Pond Sediment Samples	
Analyte	**FDEP Sediment Quality Assessment Guideline (mg/kg)**
Arsenic	9.8
Chromium	43
Chromium III	Not Listed
Chromium VI	Not Listed
Copper	32

The lower applicable screening level (EPA or FDEP) was used for comparison for all other media. The subsections below summarize the analytical results of the RI only.

5.2.1 RI Analytical Results for Soil Samples

During the RI, soil samples were collected from the FSWT property, the STES property, residential properties surrounding the FSWT property, and from the city ROW. Residential and on-site soil samples were compared with screening values, either the calculated background values or FDEP SCTLs, whichever is greater. For soil samples collected on the school properties, arsenic, chromium, and copper analytical results were compared with the calculated 95 percent UTL background values discussed in Section 5.1 or the risk-based screening values for the school scenario discussed in the risk assessment (Appendix J), whichever is greater (Ref. 52). Analytical results for soil samples collected during the RI are summarized below. Only those analytes that were detected in soil samples are discussed. Figure 5 in Appendix A of this report depicts the RI sampling locations. Appendix B of this report contains tables presenting the analytical results for the RI conducted at the FSWT site.

5.2.1.1 RI On-Site Soil Samples

Using the 15 grids established during the July 2011 removal confirmation and residential sampling event, the drainage ditches and the area between the perimeter drainage ditch and the property fenceline were sampled during the RI. This area is of particular interest because it was not excavated during the 2011 removal action. Arsenic was detected above the 2.36 mg/kg screening value in all drainage ditch samples collected from 0 to 6 inches bls. Arsenic was detected above 2.1 mg/kg in drainage ditch samples collected from 10 grids for the 18- to 24-inch interval. Hexavalent chromium was detected in the perimeter drainage ditch surface soil samples collected from Grid 03 at 38J mg/kg (WT-G03-DD-SF-R) and 17J mg/kg (WT-G03-DD-SF-DUP-R). Arsenic was detected in samples from all grids at both depth intervals above screening values 2.36 mg/kg (surface) and 2.1 mg/kg (subsurface) for the area between

the perimeter drainage ditch and the property fenceline (see Figure 5 in Appendix A and Table 2 in Appendix B).

During the RI, two additional grids (Grids 16 and 17) were added for the area adjacent to the drip pad. Arsenic was detected in surface soil (0 to 6 inches bls) samples collected from both grids above 2.36 mg/kg. Arsenic was also detected above 2.1 mg/kg in the subsurface soil sample collected from Grid 16. Hexavalent chromium was detected at 7.9J mg/kg in surface soil sample WT-G16-SF-DUP-R, collected from Grid 16, and copper was detected at 330J mg/kg in surface soil sample WT-G17-SF-R, collected from Grid 17 (see Figure 5 in Appendix A and Table 2 in Appendix B).

The on-site retention pond is lined with high-density polyethylene; however, the liner is breached in many areas. A soil sample was collected from beneath the pond liner (WT-PL-01-SB). The sample contained arsenic (94 mg/kg) and chromium (410 mg/kg) at concentrations exceeding their screening values (see Figure 5 in Appendix A and Table 2 in Appendix B).

Eighteen subsurface soil samples were collected during installation of the eight on-site monitoring wells. The samples were collected at depths ranging from 8 to 40 feet bls. With the exception of one sample, the soil samples did not contain arsenic above 2.1 mg/kg. Sample WT-PMW-06D-SB-E, collected from the location of on-site monitoring well PMW-06D at a depth of 28 to 30 feet bls, contained arsenic at 2.4 mg/kg (see Table 3 in Appendix B).

The Old Feed Building was built several feet above ground surface on an earthen foundation. Ten subsurface soil (2 to 3 feet bls and 5 to 6 feet bls) samples were collected from five locations beneath the concrete floor of the Old Feed Building below the building foundation. Polycyclic aromatic hydrocarbons (PAH), such as benzo(a)pyrene (up to 25,000J′ micrograms per kilogram [µg/kg]) and dibenzo(a,h)anthracene (up to 4,400J′ µg/kg), were detected in each of the five soil samples collected from the 5- to 6-foot interval beneath the concrete floor of the Old Feed Building (see Figures 9A and 9B in Appendix A). PAHs were not detected above screening levels in the six subsurface soil samples (including one duplicate) collected from 2 to 3 feet bls. The source of the PAHs is not known; however, the source is likely a historical operation. Arsenic, chromium, and copper were not detected above screening values in subsurface soil samples collected from beneath the Old Feed Building (see Table 4 in Appendix B).

5.2.1.2 RI Elementary School Property Soil Samples

The STES and RVDES properties were sampled extensively during the January 2011 removal investigation; however, one area located just north of the STES building was not sampled (see Figures 3 and 5 in Appendix A). One surface (0 to 6 inches bls) and one subsurface (18 to 24 inches bls) soil sample were collected from this area during the RI (see Figure 5 in Appendix A and Table 5 in Appendix B).

5.2.1.3 RI Residential Property Soil Samples

A total of 65 residential properties surrounding the FSWT property were sampled during the 2012 and 2013 RI. The subsections below describe the RI sampling results for residential properties located north, east, south, and west of the FSWT property.

5.2.1.3.1 North of FSWT Property (North of Railroad Tracks)

Thirty residential properties located along West 19th Street and West 20th Street, north of the FSWT property, were sampled during the 2012 and 2013 RI. Surface soil samples collected from 24 of those properties contained arsenic above the 2.36 mg/kg screening value. Subsurface soil samples collected from three properties contained arsenic above the 2.1 mg/kg screening value. Copper was detected above its screening value of 150 mg/kg in one surface soil sample (see Figure 5 in Appendix A and Table 6 in Appendix B).

5.2.1.3.2 East of FSWT Property (East of Fairfax Street)

During the 2012 and 2013 RI, 25 residential properties located east of Fairfax Street and south of the St. Johns/CSX railroad tracks were sampled. Of those properties, 18 contained arsenic above the 2.36 mg/kg screening value in surface soil, and one contained arsenic above the 2.1 mg/kg screening value in subsurface soil (see Figure 5 in Appendix A and Table 7 in Appendix B).

5.2.1.3.3 South of FSWT Property (South of West 14th Street)

Eight residential properties located south of West 14th Street were sampled during the 2012 RI. Surface soil samples from three of those properties contained arsenic above 2.36 mg/kg. Arsenic was not detected

above 2.1 mg/kg in any subsurface soil samples collected from residential properties located south of the FSWT property (see Figure 5 in Appendix A and Table 8 in Appendix B).

5.2.1.3.4 West of FSWT Property (Pullman Court)

Most residences along Pullman Court were sampled during the January 2011 removal investigation and May 2011 pre-RI. Two properties located on Pullman Court, west of the FSWT property, were sampled during the 2012 RI. Arsenic was detected above the 2.36 mg/kg screening value in one surface soil sample (see Figure 5 in Appendix A and Table 9 in Appendix B).

5.2.1.4 RI City ROW Soil Samples

The city ROW along the railroad tracks north of the FSWT property was divided into seven grids. A composite surface soil (0 to 6 inches bls) sample was collected from every other grid during the 2012 RI. Arsenic was detected above the 2.36 mg/kg screening value in all four grids sampled. Arsenic concentrations ranged from 13 mg/kg to 43 mg/kg (see Figure 5 in Appendix A and Table 10 in Appendix B).

5.2.2 RI Analytical Results for Drain Material, and Moncrief Creek and Pond Sediment Samples

Several drains are located on site. In addition, the FSWT retention pond connects to a City of Jacksonville stormwater drainage pipe that discharges to Moncrief Creek. Samples were collected from the material contained in these drains and were designated as sediment because the material was saturated, not because it is considered surface water sediment. The results for these samples were not compared with EPA or FDEP ecological sediment screening values because this material is not considered a viable habitat for ecological receptors.

Samples were collected from “sludge-like” residual material from the former wood preserving operation contained in 12 underground drainage pipes located on the FSWT property (designated “DN” for drain). Arsenic ranged from 150 mg/kg in WT-DN-12-SD, located on the southern portion of the FSWT property, to 11,000 mg/kg in WT-DN-04-SD, located adjacent to the former tank farm. Total chromium concentrations ranged from 270 mg/kg (WT-DN-12-SD) to 5,800 mg/kg (WT-DN-04-SD). Drain material samples also contained copper ranging from 160 mg/kg in WT-DN-12-SD to 8,900 mg/kg in WT-DN-03-SD. Hexavalent chromium was detected in drain material samples WT-DN-01-SD (9.0J

mg/kg), WT-DN-03-SD (29J mg/kg), and WT-DN-04-SD (19J mg/kg) (see Figures 5, 10A, 10B, and 10C in Appendix A and Table 11 in Appendix B).

One sediment sample (WT-DP-03-SD) was collected from the City of Jacksonville's stormwater drainage pipe downstream of the confluence with the FSWT retention pond, before the discharge point into Moncrief Creek ("DP" designates City stormwater drainage pipe). The sample contained arsenic at a concentration of 47 mg/kg, total chromium at a concentration of 150 mg/kg, and copper at a concentration of 32 mg/kg (see Figures 11A, 11B, and 11C in Appendix A and Table 11 in Appendix B).

Analytical results for sediment samples collected from Moncrief Creek and the STES retention pond were compared with the FDEP quality assessment guidelines for inland waters (Ref. 54). The specific comparison criteria are 9.8 mg/kg for arsenic, 43 mg/kg for total chromium, and 32 mg/kg for copper (see Tables 12 and 13 in Appendix B). Hexavalent chromium (chromium VI) and trivalent chromium (chromium III) do not have FDEP sediment screening values; therefore, hexavalent chromium is discussed only if it was detected. Moncrief Creek sediment samples were also compared with background.

Two sediment samples were collected from the STES retention pond (WT-STRP-01-SD and WT-STRP-02-SD). The samples did not contain arsenic, chromium, or copper above their screening values (see Figures 11A, 11B, and 11C in Appendix A and Table 12 in Appendix B). Cleanup is complete for the STES retention pond.

Four background sediment samples (WT-MC-01-SD, WT-MC-02-SD, WT-MC-03-SD, and WT-MC-04-SD) were collected from Moncrief Creek during the 2012 RI upstream of the FSWT retention pond drainage pipe outfall into Moncrief Creek. Background arsenic concentrations ranged from 0.56 mg/kg to 1.4 mg/kg, background chromium concentrations ranged from 3.1 mg/kg to 5.6 mg/kg, and background copper concentrations ranged from 5.8 mg/kg to 19J+ mg/kg. Hexavalent chromium was not detected in any of the background sediment samples collected from Moncrief Creek during the RI.

During the RI, 13 sediment samples were collected from Moncrief Creek at the FSWT retention pond drainage pipe outfall, as well as downstream of the outfall. Of the 13 sediment samples collected from Moncrief Creek at and downstream of the outfall, arsenic was detected above its screening value of 9.8 mg/kg in six samples. Arsenic concentrations ranged from 1.0 mg/kg (WT-MC-09-SD) to 200 mg/kg (WT-MC-08-SD). Chromium was detected above its screening value of 43 mg/kg in six samples and copper was detected above its screening value of 32 mg/kg in five samples. Arsenic was detected above

background in 11 sediment samples, chromium was detected above background in 12 sediment samples, and copper was detected above background in eight sediment samples (see Figures 11A, 11B, and 11C in Appendix A and Table 13 in Appendix B).

5.2.3 RI Analytical Results for Surface Water Samples

Analytical results for surface water samples were compared with EPA Region 4 surface water screening values and FDEP surface water cleanup target levels (SWCTL), whichever is more conservative (Refs. 55; 56). The specific comparison criteria are 50 µg/L for arsenic, 11 µg/L for total chromium, 11 µg/L for hexavalent chromium, 117.32 µg/L for trivalent chromium, and 6.54 µg/L for copper. The FDEP chronic freshwater SWCTL for total and dissolved copper was calculated based on the hardness of surface water in Moncrief Creek and was only used for comparison to surface water samples collected from Moncrief Creek. Surface water samples collected from Moncrief Creek were also compared with background (see Tables 14 through 16 in Appendix B).

Surface water samples were collected from the drainage pipe leading to Moncrief Creek, both upstream and downstream from the FSWT retention pond. Arsenic and chromium were not detected in the two upstream samples (WT-DP-01-SW and WT-DP-02-SW). Copper was detected at 1.3 µg/L in WT-DP-01-SW and at 1.0 µg/L in WT-DP-02-SW. In the downstream sample, WT-DP-03-SW, arsenic was detected at 2.8 µg/L, chromium was detected at 5.9 µg/L, and copper was detected at 4.1 µg/L. These concentrations do not exceed screening values (see Figures 12A, 12B, and 12C in Appendix A and Table 14 in Appendix B).

Surface water samples were collected from the FSWT and STES retention ponds. The surface water sample collected from the FSWT retention pond contained arsenic (760 µg/L) and copper (42 µg/L) above their screening values. This sample was also collected for analysis of dissolved metals. Arsenic was detected at 750 µg/L and copper was detected at 32 µg/L. Dissolved hexavalent chromium was detected at 4.5 µg/L in this sample. Arsenic, chromium, and copper did not exceed their screening values in either of the surface water samples (WT-STRP-01-SW and WT-STRP-02-SW) collected from the STES retention pond (see Figures 12A, 12B, and 12C in Appendix A and Table 15 in Appendix B).

Twelve surface water samples were collected from Moncrief Creek at the FSWT retention pond drainage pipe outfall, as well as downstream of the outfall during the RI. Surface water samples did not contain arsenic or chromium at concentrations exceeding their screening values. Sample WT-MC-07-SW contained copper at 10 µg/L, which exceeds its screening value of 6.54 µg/L, but does not exceed its

calculated FDEP SWCTL of 13.78 µg/L. Arsenic was detected above background in nine surface water samples and chromium was detected above background in one surface water sample. Copper was not detected above background in any surface water samples collected from Moncrief Creek (see Figures 12A, 12B, and 12C in Appendix A and Table 16 in Appendix B).

5.2.4 RI Analytical Results for Groundwater Samples

Eight permanent monitoring wells were installed on the FSWT property during the 2012 RI. Depth to groundwater averages about 5 feet bls (see Table 17 on Appendix B). Groundwater samples collected from these wells were compared with either the EPA MCLs or the FDEP GCTLs, whichever is greater (Refs. 23; 55). Groundwater sampling and monitoring occur every 6 months in the winter and summer. As of the date of this report, there have been three events (Refs. 2; 3; 30). The groundwater samples collected during the 2012 RI did not contain arsenic, chromium, or copper at concentrations exceeding their EPA MCLs. The second groundwater sampling event was conducted the week of August 13, 2012. Monitoring well PMW-07 contained arsenic at 10 µg/L, which is equal to the EPA MCL. The third groundwater sampling event was conducted the week of February 25, 2013. Groundwater samples collected during this event did not contain arsenic, chromium, or copper at concentrations exceeding their EPA MCLs; however, the sample from monitoring well PMW-07 contained arsenic slightly below its MCL at 9.3 µg/L (see Figures 13A, 13B, and 13C in Appendix A and Table 18 in Appendix B).

5.3 RISK AREAS AND EXTENT OF CONTAMINATION

This section discusses the current extent of arsenic, chromium, and copper contamination in soil and sediment. The results of surface water sample analysis are also briefly summarized at the end of this section. Groundwater is not discussed because sample analyses have not indicated screening values have been exceeded at the FSWT site. Soil sampling locations were grouped into six decision areas: on-site, school, residential area north of FSWT, residential area east of FSWT, residential area south of FSWT, and residential area west of FSWT (see Figure 14 in Appendix A). Analytical results for soil and sediment samples collected during all EPA sampling events, including the RI, that represent current conditions are summarized below. Samples that were collected from areas that were subsequently removed as part of the removal action are not discussed and are not shown on the risk area figures in Appendix A. Throughout all of EPA's investigations at FSWT, most of the surface soil samples were collected from 0 to 6 inches bls, and first-interval subsurface soil samples were collected from 18 to 24 inches bls. However, different surface and subsurface intervals were used during certain investigations. Therefore, all samples collected between 0 and 12 inches bls are considered surface and all samples

collected below 12 inches bls are considered subsurface. Appendix B contains summary data tables for the RI, and Appendix C contains summary data tables for samples representing current conditions collected during all previous EPA investigations. Based on the results of all investigations relied on for this RI report, soil and sediment are the primary media of concern.

5.3.1 Extent of On-Site Soil Contamination

During the January 2011 removal investigation, soil samples were collected along the northern, western, and southern portions of the FSWT property at three depth intervals: 0 to 12 inches bls, 12 to 24 inches bls, and 24 to 36 inches bls. The top 12 inches of soil was subsequently excavated during the EPA removal action; therefore, samples collected from the surface interval no longer represent current conditions and will not be discussed. Subsurface soil samples collected from the 12- to 24-inch interval contained arsenic above 2.1 mg/kg in three of the six samples (see Table 3 in Appendix C). Soil samples collected from the 24- to 36-inch interval contained arsenic above its screening value of 2.1 mg/kg in three samples. Subsurface soil sample FWT-03-SB-C, collected from the area between the drip pad and the on-site retention pond, contained the highest concentrations of arsenic (85.9J mg/kg), chromium (92.6J mg/kg), and copper (90.1J mg/kg) (see Figure 3 in Appendix A and Table 4 in Appendix C).

During the May 2011 pre-RI, surface soil (0 to 6 inches bls) samples were collected along the northern, western, and southern portions of the FSWT property post removal excavation. Soil samples were also collected from beneath the drip pad and the concrete throughout the property. Of the 10 samples collected along the perimeter of the property, all but one sample contained arsenic above 2.36 mg/kg, three samples contained chromium above 210 mg/kg, and two samples contained copper above 150 mg/kg. Most of the FSWT property is covered by concrete. Twelve soil samples were collected from beneath the concrete to determine whether wood treating operations contaminated the soil. Three of the 12 soil samples were collected from beneath the drip pad. Two of the samples collected from beneath the drip pad contained arsenic and chromium at concentrations exceeding their screening values. Specifically, arsenic was detected at 39 mg/kg and 80 mg/kg, and chromium was detected at 1,300 mg/kg and 150 mg/kg. Three of the nine soil samples that were collected from beneath the concrete throughout the property contained arsenic (up to 9.5 mg/kg) above 2.36 mg/kg. Chromium and copper did not exceed their screening values (see Figure 3 in Appendix A and Table 2 in Appendix C) (Ref. 15). Contamination beneath the concrete is localized beneath the drip pad.

During the July 2011 removal confirmation and residential sampling event, the northern, southern, and western portions of the FSWT property were divided into 15 grids measuring about 100 feet by 100 feet.

Composite soil samples were collected from the previously excavated grids, including three depth intervals at each grid: 0 to 6 inches bls, 18 to 24 inches bls, and 36 to 42 inches bls. The sampling depth is measured from the post-excavation land surface, which is approximately 12 inches below the original land surface. For the surface interval (0 to 6 inches bls), all 15 grids contained arsenic (up to 44J mg/kg) above its 2.36 mg/kg screening value, two grids contained chromium (up to 280J mg/kg) at or above its screening value of 210 mg/kg, and one grid contained copper (at 300 mg/kg) above its screening value of 150 mg/kg (see Table 2 in Appendix C). For the 18- to 24-inch interval, eight grids contained arsenic (up to 14J mg/kg) above 2.1 mg/kg. Chromium and copper did not exceed their screening values (see Table 3 in Appendix C). For the 36 to 42-inch interval, only two grids contained arsenic (up to 7.0 mg/kg) above 2.1 mg/kg. Chromium and copper did not exceed their screening values (see Figure 3 in Appendix A and Table 5 in Appendix C) (Ref. 25).

During the RI, the drainage ditches and the area between the perimeter drainage ditch and the property fenceline within each of the 15 grids were sampled. This area was not previously excavated. Two additional grids (Grids 16 and 17) were established in the area adjacent to the drip pad (see Table 2 in Appendix B). The results are summarized as follows:

- For the 0- to 6-inch depth interval, arsenic (up to 1,300 mg/kg) was detected above its screening value of 2.36 mg/kg in all drainage ditch samples. Chromium (up to 2,000 mg/kg) was detected above its screening value of 210 mg/kg in drainage ditch samples collected from 13 grids, and copper (up to 1,400 mg/kg) was detected above its screening value of 150 mg/kg in drainage ditch samples collected from 11 grids. Hexavalent chromium was detected in the perimeter drainage ditch in Grid 3 at up to 38J mg/kg (see Figures 15A, 15B, and 15C in Appendix A).
- For the 18- to 24-inch depth interval, arsenic (up to 30 mg/kg) was detected in drainage ditches above 2.1 mg/kg in 10 grids. Chromium and copper did not exceed their screening values in subsurface drainage ditch soil samples (see Figures 16A, 16B, and 16C in Appendix A).
- For the 0- to 6-inch depth interval, arsenic (up to 200 mg/kg) was detected above its screening value of 2.36 mg/kg in all samples collected from the area between the perimeter drainage ditch and the property fenceline. Chromium (up to 610 mg/kg) was detected above its screening value of 210 mg/kg in samples collected from nine grids, and copper (up to 410 mg/kg) was detected above its screening value of 150 mg/kg in samples collected from six grids (see Figures 15A, 15B, and 15C in Appendix A).
- For the 18- to 24-inch depth interval, arsenic (96J- mg/kg) was detected above its screening value of 2.1 mg/kg in all samples collected from the area between the perimeter drainage ditch and the property fenceline. Chromium was detected at 230J- mg/kg in one grid above its screening value of 210 mg/kg, and copper was not detected in any grids above its screening value (see Figures 16A, 16B, and 16C in Appendix A).
- Arsenic (up to 440J mg/kg) was detected in both Grid 16 and Grid 17 above its screening value at both surface (0 to 6 inches bls) and subsurface (18 to 24 inches bls) intervals, chromium (up to 620 mg/kg) was detected in Grids 16 and 17 above its screening value at the surface interval, and copper (at 330J mg/kg) was detected in Grid 17 above its screening value at the surface interval.

Hexavalent chromium was detected at 7.9J mg/kg in the subsurface soil sample collected from Grid 16.

Although the reasonably anticipated future land use for the FSWT property is residential, most of the areas exceeding residential comparison criteria for arsenic on the property also exceed its commercial/industrial comparison criteria. Surface soil samples collected from drainage ditches in 14 of the 15 grids contained arsenic above its FDEP SCTL for commercial/industrial soil of 12 mg/kg. Arsenic exceeded its FDEP SCTL for commercial/industrial soil in surface soil samples collected from the area between the perimeter drainage ditch and the fenceline in all 15 grids. Chromium exceeded its FDEP SCTL of 470 mg/kg for commercial/industrial soil in surface soil samples collected from drainage ditches in nine grids and in surface soil samples collected from the area between the perimeter drainage ditch and the fenceline in two grids. Copper did not exceed its FDEP SCTL of 89,000 mg/kg for commercial/industrial soil in any surface soil samples (Ref. 53) (see Table 2 in Appendix B).

The on-site retention pond is lined with high-density polyethylene; however, the liner is breached in many areas. A soil sample was collected from beneath the pond liner and the sample contained arsenic (94 mg/kg) and chromium (410 mg/kg) at concentrations exceeding their screening values (see Figure 5 in Appendix A and Table 2 in Appendix B).

During installation of the eight permanent monitoring wells, subsurface soil samples were collected to a depth of 40 feet bls. One sample (WT-PMW-06D-SB-E), collected from the location of PMW-06D at a depth of 28 to 30 feet bls, contained arsenic (2.4 mg/kg) above 2.1 mg/kg. Chromium and copper were not detected at concentrations exceeding their screening values (see Figure 5 in Appendix A and Table 3 in Appendix B).

During the 2012 RI, subsurface soil samples were collected from beneath the foundation of the Old Feed Building at 2 to 3 feet bls and 5 to 6 feet bls. Arsenic, chromium, and copper were not detected above screening values; however, PAHs were detected above FDEP screening levels (see Figures 9A, 9B, 17A, 17B, 17C, 18A, 18B, and 18C in Appendix A and Table 4 in Appendix B).

5.3.2 Extent of Soil Contamination on the School Properties

During the January 2011 removal investigation and 2012 RI, 26 surface (0 to 12 inches bls) and eight subsurface (12 to 24 inches bls) soil samples were collected from the STES and RVDES properties. Surface soil samples contained arsenic at concentrations ranging from non-detect to 12.3 mg/kg,

chromium at concentrations ranging from 1.36J mg/kg to 28.5 mg/kg, and copper at concentrations ranging from 0.649J mg/kg to 74.5 mg/kg. Sample FWT-02-SF contained the highest concentration of arsenic at 12.3 mg/kg and was collected from the northeastern portion of the playground area, near the FSWT property boundary (see Figure 19A in Appendix A and Table 6 in Appendix C). Subsurface soil samples contained arsenic at concentrations ranging from non-detect to 0.759 mg/kg, chromium at concentrations ranging from 1.25 mg/kg to 4.66 mg/kg, and copper at concentrations ranging from non-detect to 2.81 mg/kg (see Figure 19B in Appendix A and Tables 6 and 7 in Appendix C) (Ref. 15). In March 2011, a small area on the STES and RVDES shared playground — where arsenic had been detected at a concentration exceeding its EPA RAL of 39 mg/kg — was excavated down to a maximum of 24 inches bls. Three confirmation soil samples were collected from beneath the excavation surface (two samples were collected from 6 to 12 inches bls and one sample was collected from 18 to 24 inches bls). Confirmation samples contained arsenic ranging from non-detect to 4.09 mg/kg, chromium ranging from 6.53 mg/kg to 13.1 mg/kg, and copper ranging from 0.783J mg/kg to 6.49 mg/kg (see Figures 4 and 19B in Appendix A and Table 7 in Appendix C). The excavation was backfilled with clean soil and covered with turf.

5.3.3 Extent of Soil Contamination on Residential Properties and the City ROW

Thirty residential properties located along West 19th Street and West 20th Street, north of the FSWT property, were sampled during the 2012 and 2013 RI. Surface soil samples collected from 24 of those properties contained arsenic above 2.36 mg/kg. Subsurface soil samples collected from three properties contained arsenic above 2.1 mg/kg (see Figures 20A and 20B in Appendix A). Chromium was not detected in surface or subsurface soil samples above its screening value of 210 mg/kg, and copper was detected in one surface soil sample above its screening value of 150 mg/kg (see Table 6 in Appendix B).

The city ROW along the railroad tracks north of the FSWT property was sampled during the RI. This area was divided into seven grids and a composite surface soil sample was collected from every other grid. Arsenic was detected above its screening value of 2.36 mg/kg in all four grids sampled. Chromium and copper were not detected above screening values (see Figure 5 in Appendix A and Table 10 in Appendix B).

In total, 31 residential properties located east of the FSWT property were sampled during the May 2011 pre-RI, July 2011 removal confirmation and residential sampling event, and the 2012 and 2013 RI. Surface soil samples were collected from all 31 residential properties; however, subsurface soil samples were collected from only 19 of the 31 residential properties. Arsenic was detected above 2.36 mg/kg in

surface soil samples collected from 24 residential properties. Only one residential property sampled during the 2012 RI contained arsenic above 2.1 mg/kg in the subsurface soil. Six residential properties, sampled before the RI, contained arsenic above 2.36 mg/kg in the surface soil; however, the subsurface soil at these properties was not sampled. Chromium and copper were detected in surface soil samples collected from 23 residential properties east of FSWT. No residential properties contained chromium or copper in surface or subsurface soil above screening values (Refs. 15; 25) (see Figures 21A and 21B in Appendix A, Table 7 in Appendix B, and Table 8 in Appendix C). In October 2011, removals occurred on two residential properties east of FSWT. Two confirmation soil samples were collected from each property. Arsenic was detected above its screening value of 2.36 mg/kg in confirmation soil samples collected beneath the excavation surface (6 to 12 inches bls) on one of the properties (Ref. 28) (see Figures 4 and 21A in Appendix A and Table 8 in Appendix C).

A total of 17 residential properties located south of FSWT were sampled during the January 2011 removal investigation, the July 2011 removal confirmation and residential sampling event, and the 2012 RI. Surface soil samples were collected from all 17 residential properties; however, subsurface soil samples were collected from only eight of the 17 properties. Surface soil samples collected from 11 residential properties contained arsenic above 2.36 mg/kg. No residential properties contained chromium or copper in surface soil above screening values. None of the subsurface soil samples collected during the 2012 RI contained arsenic, chromium, or copper above screening values. Eight of the nine residential properties sampled before the RI contained arsenic above 2.36 mg/kg in the surface soil; however, the subsurface soil at these properties was not sampled. Chromium and copper did not exceed their screening values in any surface or subsurface soil samples collected from residential properties south of FSWT (Refs. 15; 25) (see Figures 22A and 22B in Appendix A, Table 8 in Appendix B, and Table 9 in Appendix C). A removal down to 6 inches bls occurred on one residential property south of FSWT in October 2011. One confirmation soil sample (6 to 12 inches bls) was collected from beneath the excavation surface of the removal area. Arsenic was detected at 4.81 mg/kg, which is above its screening value of 2.36 mg/kg (Ref. 28) (see Figures 4 and 22A in Appendix A and Table 9 in Appendix C). The excavation was backfilled with clean soil and covered with landscaping mulch.

Seventeen residential properties located along Pullman Court, west of FSWT, were sampled during the January 2011 removal investigation, the July 2011 removal confirmation and residential sampling event, and the 2012 RI. Of the 17 properties, 13 contained arsenic above 2.36 mg/kg in surface soil samples. Subsurface soil samples were collected from only two of the 17 properties. Arsenic, chromium, and copper were not detected above their screening values in subsurface soil samples. Twelve of the 16 residential properties sampled before the RI contained arsenic above 2.36 mg/kg in the surface soil;

however, the subsurface soil at these properties was not sampled (Refs. 15; 25). Three surface soil samples were collected from the western portion of the FSWT property that abuts Pullman Court. Two of the three samples contained arsenic above 2.36 mg/kg. No residential properties west of FSWT contained chromium or copper in surface or subsurface soil above screening values (see Figures 23A and 23B in Appendix A, Table 9 in Appendix B, and Table 10 in Appendix C).

5.3.4 Extent of Sediment Contamination

During the August 2010 ER and the 2012 RI, sediment samples were collected along Moncrief Creek at and downstream of the City stormwater drainage pipe outfall (the FSWT retention pond discharges into this stormwater drainage pipe). During the August 2010 ER, two sediment samples (FRW-SED-01 and FRW-SED-01D) were collected from Moncrief Creek at the City stormwater drainage pipe outfall, and one sediment sample (FRW-SED-02) was collected downstream of the outfall. Sediment sample FRW-SED-01 contained arsenic at 29.7 mg/kg, chromium at 81.8 mg/kg, and copper at 139 mg/kg. Sediment sample FRW-SED-01D contained arsenic at 40.2 mg/kg, chromium at 103 mg/kg, and copper at 46.8 mg/kg. Sediment sample FRW-SED-02 contained arsenic at 8.48 mg/kg, chromium at 39 mg/kg, and copper at 19.8 mg/kg. Arsenic, chromium, and copper exceeded their respective screening values of 9.8, 43, and 32 mg/kg in sediment samples FRW-SED-01 and FRW-SED-01D (Ref. 15) (see Table 11 in Appendix C).

During the RI, 13 sediment samples were collected from Moncrief Creek downstream of the City stormwater drainage pipe outfall. Arsenic was detected above its screening value of 9.8 mg/kg in six of the 13 downstream sediment samples, with the highest concentrations detected at sampling locations WT-MC-08-SD (200 mg/kg) and WT-MC-15-SD (55 mg/kg). Chromium was detected above its screening value of 43 mg/kg in six of the downstream sediment samples, with the highest concentrations detected at sampling locations WT-MC-08-SD (330 mg/kg) and WT-MC-10-SD (220J- mg/kg). Copper was detected above its screening value of 32 mg/kg in five of the downstream sediment samples, with the highest concentrations detected at sampling locations WT-MC-13-SD (94 mg/kg) and WT-MC-15-SD (110 mg/kg) (see Figures 11A, 11B, and 11C in Appendix A and Table 13 in Appendix B).

5.3.5 Extent of Surface Water Contamination

During the August 2010 ER and the 2012 RI, 14 surface water samples were collected along Moncrief Creek at and downstream of the City stormwater drainage pipe outfall. Copper was detected above its screening value of 6.54 µg/L in only one surface water sample (WT-MC-07-SW at 10 µg/L) collected

from Moncrief Creek. Arsenic and chromium were not detected above screening values in any surface water samples collected from Moncrief Creek (Ref. 15) (see Figures 12A, 12B, and 12C in Appendix A, Table 16 in Appendix B, and Table 12 in Appendix C).

5.4 RELEASE MECHANISMS

CCA contamination found on residential and school properties surrounding the FSWT facility most likely resulted from migration of hazardous substances via uncontrolled overland runoff from FSWT before 1990; periodic flooding and runoff from the storage yards along the northern, western, and southern portions of the FSWT property; and wheel spray from trucks or other vehicles exiting the FSWT facility (Ref. 29). A breach in the containment wall of the drip pad was observed during the EPA August 2010 ER (Ref. 17). The topography of the FSWT property and the surrounding area is generally flat, and nearby residents have reported that stormwater runoff currently flows from the FSWT property onto their properties during heavy rain events (Ref. 29).

Stormwater continues to be directed to the on-site retention pond via drains and ditches. Samples collected from drains located on the FSWT property contained arsenic at concentrations ranging from 150 mg/kg to 11,000 mg/kg (see Figure 10A in Appendix A). It is most likely that the drains located on the northern portion of the FSWT property surrounding the office, drip pad, and former tank farm lead to the on-site retention pond; however, the precise outfall locations of the on-site drains are unknown. Although in its present state, direct exposure to the material inside the drains is not likely, the high concentrations of contaminants of concern may classify this material as principal threat waste, and treatment alternatives should be considered during the FS.

Surface soil samples collected from the on-site drainage ditches also contained arsenic at concentrations ranging from 16 mg/kg to 1,300 mg/kg. When the retention pond reaches its capacity, an overflow pipe directs the water to a City of Jacksonville stormwater drainage pipe, which leads to Moncrief Creek. A sediment sample collected from the drainage pipe downstream from the on-site retention pond contained arsenic at a concentration of 47 mg/kg. Based on analytical results, contaminated soil, as well as contaminated material inside drainage pipes on the FSWT property, continues to be a source of contamination in Moncrief Creek. This contamination will need to be addressed during the FS.

5.5 UPDATED CONCEPTUAL SITE MODEL

A conceptual site model (CSM) was prepared for the FSWT site encompassing all EPA investigations prior to the RI and was included as Appendix A of the final RI work plan (Ref. 2). Samples collected during the 2012 and 2013 RI were intended to fill data gaps and further define the lateral and vertical extent of contamination. Based on the updated CSM, which includes all samples representing current site conditions collected during previous EPA investigations, as well as the 2012 and 2013 RI, arsenic is the risk driver for the FSWT site (Ref. 57) (see Figures 24A through 26 in Appendix A). See Section 6.0 of this RI report for a more comprehensive discussion of the chemical properties and fate and transport considerations for arsenic, chromium, and copper.

Arsenic contamination in the surface soil extends laterally from the FSWT property in all directions. Furthermore, the concentrations of arsenic detected in soil at FSWT and the surrounding properties show a gradient that decreases with distance from FSWT. The highest concentrations of arsenic were detected in the on-site drainage ditches, the area between the perimeter drainage ditch and the property fenceline, and in the process area located in the northwestern portion of the FSWT property (see Figure 24A in Appendix A).

Based on analytical results for soil samples, the vertical extent of on-site arsenic, chromium, and copper contamination appears to be primarily within the top 4 feet of soil (see Figures 24B and 24C in Appendix A). Arsenic contamination in residential and school areas north, east, south, and west of the FSWT property appears to be primarily within the top 1 foot of soil (see Figures 24A and 24B in Appendix A).

Chromium and copper contamination does not appear to extend off site, with the exception of one sample collected north of the FSWT property that contained copper above its FDEP SCTL of 150 mg/kg (see Figures 25 and 26).

Hexavalent chromium appears to be limited to the process area and the on-site retention pond. Between August 2010 and February 2013, a total of 122 environmental samples were analyzed for hexavalent chromium: 64 soil, 12 drain material, 8 sediment, 9 surface water, 22 groundwater, and 7 aqueous/product samples. Soil samples collected from Grids 03 and 16 in the process area contained hexavalent chromium, as did samples collected from drains in the process area (Drains 01, 03, and 04). In addition, the surface water sample collected from the on-site retention pond contained hexavalent chromium. Soil samples collected from other areas on site, as well as residential properties, did not contain hexavalent chromium, nor did surface water and sediment samples collected off site. Hexavalent

chromium has been detected only in aqueous, drain material, sediment, and soil samples collected from the process area and the on-site retention pond.

Chemically, hexavalent chromium is a potent oxidizer; therefore, it will react, often rapidly, with targets in the environment. Examples include reduced metal forms, such as ferrous iron and arsenite, and organic matter. These targets are generally more common in solid phases (soil and sediment, especially near the surface) than in water. Therefore, the released chromium will start in the water (as discharged) as hexavalent chromium, and then begin reacting, first with dissolved targets, then suspended targets, then sediment targets, and last (as the water carrying it infiltrates further) with soil targets. Refer to Section 6.3 of this RI report for more information regarding chromium's fate and transport in the environment.

6.0 FATE AND TRANSPORT

The following sections describe the fate and transport of CCA contamination. As detailed in this RI report, the primary source of contaminants at the FSWT site is CCA, a wood preservative used at Wood Treaters, LLC, from 1980 to 2010. CCA was the only wood treatment applied at Wood Treaters, LLC. CCA is a generic name for registered pesticide products that are made up of a mixture of chromic acid (H_2CrO_4), copper (cupric) oxide (CuO), and arsenic pentoxide (As_2O_5) in an aqueous solvent; the proportions of the metal-containing components and the amount (and type) of solvent vary from product to product. As noted in a study prepared in support of the Registration Eligibility Decision, CCA metals individually leach out of treated wood; therefore, the fate and transport properties of the CCA metals will be discussed separately, from the simplest (copper) to the most complex (chromium) (Refs. 58; 59).

6.1 COPPER

Copper is highly toxic to aquatic life, so the sediment and surface water of Moncrief Creek and other water bodies are the primary media of concern. As noted in ecological CSM Figure RA-1-4 in Appendix J, copper may enter these media either directly (surface runoff and airborne deposition) or indirectly (via groundwater). According to the Agency for Toxic Substances and Disease Registry (ATSDR), copper is generally found bound to solid fractions (soil or organics of the medium), rather than dissolved in aqueous fractions (pore water or surface water) (Ref. 60). Copper's ability to bind to minerals varies considerably, depending on the mineral involved and the pH, but copper is readily bound to organic matter in soil and sediment. A few exceptions apply in relatively extreme environments, such as deep groundwater. Divalent copper (cupric ion, as in CCA) may be reduced to univalent copper (cuprous ion) in highly reducing (anaerobic) environments. However, monovalent copper is generally short-lived because it will disproportionate into elemental copper (which is nearly inert and immobile) and divalent copper if it is not oxidized to the divalent form. In addition, divalent copper can be leached out of solid fractions in acidic environments, but at pH ≥5, dissolution is negligible. Based on these properties, it is expected that most copper will be bound to the soil and sediment particles. Although some partitioning to aqueous phases will occur, the primary transport process will be the physical transport of the particles containing copper (see Figure 26 in Appendix A).

6.2 ARSENIC

Arsenic is best-known for its human toxicity, especially its carcinogenicity by all routes of exposure; therefore, all exposure routes in the human health CSM (see Figure RA-1-3 in Appendix J) are of

concern. According to ATSDR, the fate and transport of arsenic depends on its chemistry (Ref. 61). The degree of binding of arsenic pentoxide and other arsenic compounds to soil particles varies with the mineralogy of the soil. In moderately reducing environments, such as in temporarily flooded soils, the pentavalent arsenic (arsenate) of CCA is reduced to trivalent arsenic (arsenite). Furthermore, if the appropriate microorganisms are present (most frequently found at mine tailings sites and in marine sediment), arsenic can be further reduced to monomethylarsenic and dimethylarsenic derivatives. The question of pH further complicates predictions of mobility. Pentavalent arsenic is well bound to soil and sediment particles, especially those containing iron or manganese oxides. However, at pH above 8, the pentavalent arsenic will begin partitioning into the aqueous phase and become relatively mobile. Trivalent arsenic and organoarsenicals are more soluble than pentavalent arsenic at all pH levels, except the most extreme, and can be readily transported with the aqueous phase. Therefore, arsenic will generally be much more mobile than copper, especially through aqueous phases (see Figures 24A, 24B, and 24C in Appendix A).

6.3 CHROMIUM

Chromium, like arsenic, is primarily a concern for human health by all routes of exposure, as shown in human health CSM Figure RA-1-3 in Appendix J. However, the transport of chromium is complicated by its complex chemistry (Ref. 62). CCA contains hexavalent chromium (chromic), which is readily soluble in water and is an active oxidizer. Therefore, when a suitable reducing agent (a compound that is readily oxidized) is also dissolved in the water, it will react with the hexavalent chromium, transforming it into trivalent (chromous) chromium. However, trivalent chromium compounds are relatively insoluble, so they will remain in the solid phase (soil or sediment). Trivalent chromium will have some mobility if the pH is low enough or, in rare cases, if there are adequate concentrations of organic matter that can form organometallic complexes. Adding to its complexity, relatively strong oxidizing conditions (such as shallow surface water), especially when there is a lack of suitable reducing agents available, would tend to preserve the hexavalent chromium or even convert trivalent chromium to the hexavalent state. For these reasons, released chromium will likely be the most mobile metal in CCA, although its actual mobility is difficult to quantify or predict. It is likely, however, that the mobility of chromium will decrease over the years. Specifically, portions of the chromium (that which are hexavalent) are highly mobile in aqueous media; however, similar to copper, the reduced (trivalent) chromium will be much less mobile (see Figure 25 in Appendix A).

7.0 BASELINE HUMAN HEALTH RISK ASSESSMENT

The following sections discuss the HHRA objectives, exposure areas, approach, results, and a summary of overall conclusions for the FSWT site. The complete HHRA is presented in Appendix J of this RI report.

7.1 OBJECTIVES

The FSWT HHRA evaluates the current and potential future health risks and hazards associated with exposure to site-related chemicals of potential concern (COPC) at the FSWT site. The primary objectives of the HHRA are as follows:

- To determine if site-related constituents detected in environmental media pose unacceptable risks to current and future human receptors under baseline (unremediated) conditions.
- To provide information to support decisions concerning the need for further evaluation or action based on current and reasonably anticipated future land use.

7.2 FSWT EXPOSURE AREAS

The FSWT site was subdivided into seven exposure areas for the risk assessments (the HHRA and SLERA): On-Site, Residential Area North of the FSWT (Residential – N), Residential Area East of the FSWT (Residential – E), Residential Area South of the FSWT (Residential –S), Residential Area West of the FSWT (Residential –W), School Yard, and Moncrief Creek. These exposure areas were based primarily on the extent of historical soil contamination, likely exposures, and exposed populations.

7.3 HHRA APPROACH

Consistent with standard risk assessment practice and EPA guidance, the FSWT HHRA includes the following components: (1) data evaluation and selection of COPCs, (2) exposure assessment, (3) toxicity assessment, and (4) risk characterization (Ref. 63).

Medium-specific data sets used to prepare the FSWT HHRA consisted of analytical data collected during the RI and from previous investigations. These data are considered the most representative, and provide reasonable geographic coverage. It was conservatively assumed that conditions at the time of the RI (unremediated conditions) represent current and future conditions. COPCs were selected following EPA guidance (primarily EPA's "Risk Assessment Guidance for Superfund [RAGS]) based on (1) screening of maximum detected concentrations against medium-specific screening levels selected as the most

conservative values from EPA's RSLs, and (2) elimination of essential nutrients (Ref. 63). The COPCs identified for the site were arsenic, chromium, and copper for all surface and subsurface soils, sediment, and surface water. For on-site subsurface soils the COPCs also included a number of PAH compounds.

As defined in RAGS, the four elements necessary to form a complete exposure pathway include:

- A source or release from a source,
- A mechanism of release and transport,
- A point of contact for potential receptors, and
- An exposure route (Ref. 63).

If any one of the four elements is missing, the exposure pathway is incomplete. In general, only potentially complete exposure pathways were evaluated in the HHRA. The FSWT human health CSM is diagrammatically presented in Figure RA-1-3 of Appendix J and summarized in the RAGS Part D Table 1-1 in Appendix RA-1 of Appendix J.

Briefly, historical operations at and discharges from the FSWT site are believed to be the source of contamination at the site, adjacent residential and school properties, and Moncrief Creek. Contaminants in surface soil may have migrated off site and contaminated adjacent properties through erosion, surface water run-off, and redeposition of fugitive dusts. In addition, a direct discharge from the site to the pond on the school property has occurred in the past. Contaminants in soil may have leached to groundwater. Finally, a storm sewer is located in the northwestern corner of the site that travels west underground and discharges into Moncrief Creek.

The receptors and exposure routes considered quantitatively or qualitatively in the FSWT HHRA include the following:

- ***Future Commercial/Industrial Workers*:** Incidental ingestion of, dermal contact with, and inhalation of particulates from surface soil
- ***Current and Future Utility and Construction Worker*:** Incidental ingestion of, dermal contact with, and inhalation of particulates from surface and subsurface soil at the site; and incidental ingestion of and dermal contact with groundwater (if present) at less than 10 feet bls
- ***Current and Future Trespasser*:** Incidental ingestion of, dermal contact with, and inhalation of particulates from surface soil; incidental ingestion of and dermal contact with sediment and surface water in the on-site retention pond

- ***Future On-Site Recreationalist*:** Incidental ingestion of, dermal contact with, and inhalation of particulates from surface soil

- ***Current and Future Off-Site Resident*:** Incidental ingestion of, dermal contact with, and inhalation of particulates and produce grown in surface and subsurface soils at the off-site residential areas

- ***Future On-Site Resident*:** Incidental ingestion of, dermal contact with, and inhalation of particulates from surface and subsurface soil and ingestion of and dermal contact with groundwater

- ***Current and Future School Staff and Students*:** Incidental ingestion of, dermal contact with, and inhalation of particulates from surface soil

- ***Current and Future Off-Site Recreationalist*:** Incidental ingestion of and dermal contact with sediment and surface water in Moncrief Creek.

Receptor-specific intakes for each exposure route were calculated under both reasonable maximum exposure (RME) and central tendency exposure (CTE) conditions using equations and exposure parameter values presented in the RAGS Part D 4 Series tables (included as part of Appendix RA-1 in Appendix J).

In addition to the exposure parameter values presented in Appendix RA-1 of Appendix J, the equations also included a medium-specific concentration that receptors were assumed to be exposed to, referred to as the exposure point concentration (EPC). In general, EPCs were calculated as the 95 percent upper confidence limit (UCL) on the mean using EPA's ProUCL Version 4.1.00 statistical software package (Ref. 64). The EPC was generally selected as the 95 percent UCL of the statistical method recommended by ProUCL. Construction workers and utility workers are expected to be exposed in limited portions of each exposure area. Therefore, consistent with EPA recommendations, the maximum detected concentration was used as the EPC for these receptors. Furthermore, FSWT presents unique circumstances that complicate the calculation of EPCs. Receptors are not expected to be exposed to groundwater from multiple locations across an exposure area. Rather, receptors may ingest groundwater from single wells installed at a particular location or may have direct contact with groundwater in a construction trench at a particular location. Therefore, the maximum detected concentrations within a given exposure area were selected as EPCs for all groundwater exposure scenarios for the evaluation of potential exposure to groundwater at the FSWT site. This approach is conservative in that not all maximum concentrations occur at a single well location.

Modeling was used to generate medium-specific EPCs for media not sampled directly. Specifically, modeling was used to estimate EPCs for homegrown produce as summarized below.

- The uptake of COPCs from soil into homegrown produce was evaluated using the methodology from EPA's "Human Health Risk Assessment Protocol (HHRAP) for Hazardous Waste Combustion Facilities" (Ref. 65). Data from the FDOH homegrown produce studies (Refs. 73; 74) were used to estimate bioaccumulation factors for soils to homegrown produce. These factors were applied to soil data from each residential area and each individual residential lot to estimate produce concentrations.

The risk assessment used the default toxicity values presented in the EPA RSL tables (Ref. 66). The default values were obtained from the following sources in the order they are presented below:

- Integrated Risk Information System (IRIS) on-line database (Ref. 67)
- Provisional Peer Reviewed Toxicity Values (PPRTV) derived by EPA's Superfund Health Risk Technical Support Center for the EPA Superfund Program
- The ATSDR minimal risk levels (Ref. 68)
- The California Environmental Protection Agency/Office of Environmental Health Hazard Assessment's toxicity values (Ref. 69)
- Screening toxicity values in appendices to certain PPRTV assessments
- The EPA Superfund Program's Health Effects Assessment Summary Tables (HEAST) (Ref. 70)

Toxicity values used in the HHRA are presented in Tables 5.1 and 5.2 (noncancer toxicity values) and Tables 6.1 and 6.2 (cancer toxicity values) of Appendix RA-1 in Appendix J.

7.4 HHRA RESULTS

The following sections summarize the risk assessment results and conclusions for the FSWT site. Total and COPC-specific risks and hazards under RME conditions for each of the FSWT exposure areas, including On-site, Residential – N, Residential - E, Residential - S, Residential - W, School Property, and Moncrief Creek, are discussed below. Each residential property was also evaluated as an individual exposure unit for risk assessment purposes. The risk and hazard has been calculated for each exposure unit.

On site, eight different receptors were evaluated: future industrial/commercial workers; future construction workers; future utility workers; current and future adolescent and adult trespassers; future child recreationalists; future adolescent recreationalists, future adult recreationalist; and future residents. Only the current and future utility worker and current residents were evaluated for the residential areas. Only adolescent and adult recreationalists were evaluated for Moncrief Creek. Current and future staff

and current and future students were evaluated for the school property. Risks for the FSWT exposure areas are summarized in Tables RA-2-2 through RA-2-6 of Appendix J.

On-Site

On-site represents the former FSWT facility and includes the former wood treatment area. The on-site area is currently unoccupied, but may be redeveloped in the future. Risks and hazards for each of the receptors evaluated for this exposure area are summarized and discussed below.

Future Industrial/Commercial Workers

Industrial/commercial workers were evaluated only under future land use conditions. Total hazards and risks were evaluated for potential exposure to surface and subsurface soil and groundwater (as described below for residents).

Total hazards do not exceed 1 for the exposures to surface soils and groundwater (0.62) or surface and subsurface soils and groundwater (0.39) that were evaluated. This hazard is considered insignificant.

Total risks exceed 1E-04, when exposures to surface soil and groundwater are considered (1E-04). The total risks associated with exposures to surface and subsurface soils and groundwater are at the upper end of EPA's risk range (6E-05). The medium-specific total risks are driven by arsenic and are as follows: surface soil (8E-05), surface and subsurface soils (5E-05), and groundwater (2E-05).

Future Utility Workers

Utility workers were evaluated only under future land use conditions. Total hazards and risks were evaluated for potential exposure to surface and subsurface soil and groundwater. It is assumed that utility workers would be exposed to the maximum concentration in soil since they will not be exposed to the entire site, as construction workers are likely to be.

Total hazards do not exceed 1 for the exposures to surface and subsurface soils and groundwater (0.78) that were evaluated. This hazard is considered insignificant.

Total risks exceed 2E-04 when exposures to surface and subsurface soil and groundwater are considered (2E-04). The medium-specific total risks are driven by arsenic and are as follows: surface and subsurface soils (2E-04).

Future Construction Workers

Construction workers were evaluated only under future land use conditions. Total hazards and risks were evaluated for potential exposure to surface and subsurface soil and groundwater. It is assumed that surface and subsurface soils will be mixed as part of the construction process.

Total hazards do not exceed 1 for the exposures to surface and subsurface soils and groundwater (0.61) that were evaluated. This hazard is considered insignificant.

The total risks associated with exposures to surface and subsurface soils and groundwater are at the lower end of EPA's risk range (2E-05). The medium-specific total risks, with arsenic as the predominate contributor, are as follows: surface and subsurface soils (2E-05).

Current and Future Adolescent and Adult Trespassers

Adolescent and adult trespassers were evaluated only under current land use conditions. While trespassing may continue to occur in the future, it was assumed that other, more regularly exposed, receptors (for example, residents or industrial/commercial workers) would be protective of potential trespassers. No significant hazards were identified.

Total hazards were less than 1 and are considered insignificant for the exposures to surface soils, sediment and surface water for the adolescent trespasser (0.28) and for the adult trespasser (0.19). Total risks for both the adolescent and adult trespassers (2E-05 and 4E-05) are within EPA's acceptable risk range and arsenic is the predominate contributor to the risk by potential exposure to surface soil and sediment.

Future Child Recreationalists

Child recreationalists were evaluated only under future land use conditions, and potential exposure to surface soil (no intrusive activity) was assumed. Total hazards are greater than 1 and are considered significant for surface soil (4.2).

Total risks are greater than EPA's acceptable risk range, assuming potential exposure to surface soil (2E-04). Risks are driven by potential exposure to arsenic.

Future Adolescent Recreationalists

Adolescent recreationalists were evaluated only under future land use conditions and assumed potential exposure to surface soil (no intrusive activity). Total hazards are less than 1 and are considered insignificant for surface soils (0.73).

Total risks are within EPA's acceptable risk range, assuming potential exposure to surface soil (5E-05). Arsenic is the predominate contributor to the risks.

Future Adult Recreationalists

Adult recreationalists were evaluated only under future land use conditions and assumed potential exposure to surface soil (no intrusive activity). Total hazards are less than 1 and are considered insignificant for surface soils (0.48).

Total risks are within EPA's acceptable risk range, assuming potential exposure to surface soil (9E-05). Arsenic is the predominate contributor to the risks.

Future Residents

Residents were evaluated only under future land use conditions. Total hazards and risks were evaluated for potential exposure to surface and subsurface soil (assuming homes could be built using slab-on-grade construction [surface soil] or with basements, requiring excavation [subsurface]) and groundwater (assuming groundwater is developed as a source of drinking water).

Total hazards exceed 1 under all soil and groundwater combinations: 8.2 (surface soil/groundwater) and 4.9 (subsurface/groundwater). The medium-specific total hazards are as follows: surface soil (7.6) and subsurface soil (4.2), driven by arsenic.

Total risks exceed 1E-04 for surface soil and groundwater (7E-04), the upper end of EPA's acceptable risk range, by one order of magnitude; total risks are just above the acceptable risk range for subsurface soils and groundwater (4E-04). The medium-specific total risks are as follows: surface soil (7E-04), surface and subsurface soil (4E-04), and groundwater (7E-05), all driven by arsenic.

Residential – N

Residential – N represents the residential area north of the site and north of the city ROW. This area is currently residential and is assumed to remain this land use into the future. The data from the residential areas were evaluated by two means. The first was to evaluate the potential risks and hazards for the entire

residential area based a calculated EPC (95 percent upper confidence limit value) for both the surface soils and surface and subsurface soils. The other was to evaluate the risks and hazards associated with the maximum surface soil concentration for each individual residential lot. Risks and hazards for each of the receptors evaluated for these exposure areas are discussed below.

Current and Future Residents

Residents were evaluated under both current and future land use conditions, since they are assumed to be the same. Total hazards and risks were evaluated for potential exposure to surface soil and subsurface soils, with the assumption the current residents will uncover soils below 6 inches (surface soils) as part of routine activities; therefore, risks were calculated for the combined surface and subsurface soil data. In addition, it was assumed there is no current or future exposure to groundwater, since groundwater contamination above the Safe Drinking Water Act maximum concentration limit was not identified on the FSWT site and it is not used as a potable water source in this area.

Total hazards did not exceed 1 for either the surface soils (0.26) or surface and subsurface soils (0.24), indicating an insignificant risk.

For surface soils, total risks are within the EPA's acceptable risk range. For surface and subsurface soils, total risks are within the EPA's acceptable risk range.

Thirty individual lots were evaluated in the North area, treating each residential lot as an individual exposure unit. The maximum concentration detected in each lot was used in the evaluation. Only two lots were found to have cancer risks exceeding EPA's acceptable range (1E-04 and 3E-04) and hazards above one (1.2 and 3.9).

Current and Future Utility Workers

Utility workers were evaluated under current and future land use conditions. Total hazards and risks were evaluated for potential exposure to subsurface soil.

Total hazard (0.0032) is less than 1 and is considered insignificant. Total risk (5E-07) is below EPA's acceptable risk range and is considered insignificant.

Residential – E

Residential – E represents the residential area east of the site, south of the city ROW, and north of 14th Street. This area is currently residential and is assumed to remain this land use into the future. The data

from the residential areas were evaluated by two means. The first was to evaluate the potential risks and hazards for the entire residential area based a calculated EPC (95 percent upper confidence limit value) for both the surface soils and surface and subsurface soils. The other was to evaluate the risks and hazards associated with the maximum surface soil concentration for each individual residential lot. Risks and hazards for each of the receptors evaluated for these exposure areas are discussed below.

Current and Future Residents

Residents were evaluated under both current and future land use conditions, since they are assumed to be the same. Total hazards and risks were evaluated for potential exposure to surface soil and subsurface soils, with the assumption the current residents will uncover soils below 6 inches (surface soils) as part of routine activities; therefore, risks were calculated for the combined surface and subsurface soil data. In addition, it was assumed there is no current or future exposure to groundwater, since groundwater contamination above the Safe Drinking Water Act maximum concentration limit was not identified on the FSWT site and it is not used as a potable water source in this area.

Total hazards do not exceed 1 for either surface or subsurface soils, with HQs of 0.18 and 0.24. This hazard is considered insignificant.

For surface soils, total risk (3E-05), are at within the EPA's acceptable risk range. For surface and subsurface soils, total risk (2E-05) is within the EPA's acceptable risk range.
Of the 33 individual lots evaluated using the maximum concentration values , none were found to have cancer risks exceeding EPA's acceptable range or hazards above one.

Current and Future Utility Workers

Utility workers were evaluated under current and future land use conditions. Total hazards and risks were evaluated for potential exposure to subsurface soil.

Total hazard (0.0023) is less than 1 and is considered insignificant. Total risk (3E-07) is below EPA's acceptable risk range and is considered insignificant.

Residential – S

Residential – S represents the residential area south of the site and west of Fairfax Street. This area is currently residential and is assumed to remain this land use into the future. The data from the residential areas were evaluated by two means. The first was to evaluate the potential risks and hazards for the entire residential area based a calculated EPC (95 percent upper confidence limit value) for both the surface

soils and surface and subsurface soils. The other was to evaluate the risks and hazards associated with the maximum surface soil concentration for each individual residential lot. Risks and hazards for each of the receptors evaluated for these exposure areas are discussed below.

Current and Future Residents

Residents were evaluated under both current and future land use conditions, since they are assumed to be the same. Total hazards and risks were evaluated for potential exposure to surface soil and subsurface soils, with the assumption the current residents will uncover soils below 6 inches (surface soils) as part of routine activities; therefore, risks were calculated for the combined surface and subsurface soil data. In addition, it was assumed there is no current or future exposure to groundwater, since groundwater contamination above the Safe Drinking Water Act maximum concentration limit was not identified on the FSWT site and it is not used as a potable water source in this area.

Total hazards do not exceed 1 for either surface or subsurface soils, with HQs of 0.20 and 0.15. This hazard is considered insignificant.

For surface soils, total risks are within EPA's acceptable risk range. For surface and subsurface soils, total risks are within EPA's acceptable risk range.
Of the 17 individual lots evaluated using the maximum concentration value, none were found to have cancer risks exceeding EPA's acceptable range or hazards above one.

Current and Future Utility Workers

Utility workers were evaluated under current and future land use conditions. Total hazards and risks were evaluated for potential exposure to subsurface soil.

Total hazard (0.0021) is less than 1 and is considered insignificant. Total risk (3E-07) is below EPA's acceptable risk range and is considered insignificant.

Residential – W

Residential – W represents the residential area west of the site and south of the railroad ROW. This area is currently a residential area and is assumed to remain this land use into the future. The data from the residential areas were evaluated by two means. The first was to evaluate the potential risks and hazards for the entire residential area based a calculated EPC (95percent upper confidence limit value) for both the surface soils and surface and subsurface soils. The other was to evaluate the risks and hazards

associated with the maximum surface soil concentration for each individual residential lot. Risks and hazards for each of the receptors evaluated for these exposure areas are discussed below.

Current and Future Residents

Residents were evaluated under both current and future land use conditions, since they are assumed to be the same. Total hazards and risks were evaluated for potential exposure to surface soil and subsurface soils, with the assumption the current residents will uncover soils below 6 inches (surface soils) as part of routine activities; therefore, risks were calculated for the combined surface and subsurface soil data. In addition, it was assumed there is no current or future exposure to groundwater, since groundwater contamination above the Safe Drinking Water Act maximum concentration limit was not identified on the FSWT site and it is not used as a potable water source in this area.

Total hazards do not exceed 1 for either surface or subsurface soils, with HQs of 0.50 and 0.42. This hazard is considered insignificant.

For surface soils, total risks are within EPA's acceptable risk range. For surface and subsurface soils, total risks are within EPA's acceptable risk range.

Of the 17 individual lots evaluated using the maximum concentration value, none were found to have cancer risks exceeding EPA's acceptable range (1 E-04) and two had a hazard above one (1.0 and 1.1).

Current and Future Utility Workers

Utility workers were evaluated only under current and future land use conditions. Total hazards and risks were evaluated for potential exposure to subsurface soil.

Total hazard (0.0066) is less than 1 and is considered insignificant. Total risk (1E-06) is below EPA's acceptable risk range and is considered insignificant.

School Property

The STES and RVDES properties are adjacent to the FSWT site and have been affected by releases from the site. The school properties are currently being used for recreation and physical education classes, and it is assumed this land use will continue in the future. Risk and hazards for students and staff were evaluated and are discussed below.

Current and Future Students

Students were evaluated under both current and future land use conditions, since they are assumed to be the same. Total hazards and risks were evaluated for potential exposure to surface soils only, with the assumption that no excavations will occur on the school property as part of routine activities. In addition, it was assumed there is no current or future exposure to groundwater, since the school is on city water.

Total hazards did not exceed 1 for surface soils, with an HQ of 0.0093. This hazard is considered insignificant.

Total risks do not exceed 1E-04 for surface soils, the upper end of EPA's acceptable risk range, and are not above EPA's point of departure for risk of 1E-06.

Current and Future Staff

School staff was evaluated under both current and future land use conditions, since they are assumed to be the same. Total hazards and risks were evaluated for potential exposure to surface soils only, with the assumption that no excavations will occur on the school property as part of routine activities. In addition, it was assumed there is no current or future exposure to groundwater, since the school is on city water.

Total hazards did not exceed 1 for surface soils, with an HQ of 0.0068. This hazard is considered insignificant.

Total risks do not exceed 1E-04 for surface soils, the upper end of EPA's acceptable risk range, and are not above EPA's point of departure for risk of 1E-06.

Moncrief Creek

It was assumed that limited exposure to surface water and sediment will occur to adolescents and adult recreators. The exposure will occur via incidental ingestion and dermal contact for both sediment and surface water. It is assumed the current exposures will also occur in the future. Risks and hazards for each of the receptors evaluated for this exposure area are summarized and discussed below.

Current and Future Adolescent Recreationalists

Adolescent recreationalists were evaluated under current and future land use conditions and assumed potential exposure to sediment and surface water. Total hazards are less than 1 and are considered insignificant for sediment (0.085) and surface water (0.0000017).

Total risks for sediments and surface water are within EPA's acceptable risk range.

Current and Future Adult Recreationalists

Adult recreationalists were evaluated under current and future land use conditions and assumed potential exposure to sediment and surface water. Total hazards are less than 1 and are considered insignificant for both sediment (0.058) and surface water (0.000001).

Total risks for sediments and surface water are within EPA's acceptable risk range.

7.5 HHRA SUMMARY AND CONCLUSIONS

Based on the information presented in the HHRA, the following conclusions were drawn:

- Total risks exceed 1E-04, the upper end of EPA's acceptable risk range, for future residents, future industrial/commercial workers, future child recreationalist, and future utility workers at the On Site area of the former FSWT Site.
- The following receptors face risks within EPA's risk range (1E-06 to 1E-04) for exposures to soils:
    - On Site: future construction worker, adolescent and adult trespassers, and future adolescent and adult recreationalists
    - Off-site residential areas Residential – N, E, S, and W: current and future residents.
- Arsenic is the primary contributor to the soil and groundwater risks.

8.0 SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT

The following sections discuss the SLERA objectives, exposure areas, approach, results, and a summary of overall conclusions for the FSWT site. The complete SLERA is presented in Appendix J of this RI report.

8.1 OBJECTIVE

The purpose of an SLERA is to evaluate the likelihood that adverse ecological effects are occurring or may occur as a result of the site-specific constituent concentrations in environmental media. This SLERA conservatively characterizes ecological risks potentially associated with the FSWT site under conditions at the time of the RI (unremediated conditions).

This SLERA was performed in accordance with the EPA Ecological Risk Assessment Guidance for Superfund (ERAGS) eight-step process (Ref. 71, Exhibit I-2). Step 1 includes a site visit and problem formulation, and toxicity evaluation. Step 2 includes exposure estimation and risk calculation. Step 3 is the re-evaluation of the problem formulation based on information learned during Step 1 and 2, which includes toxicity evaluation, assessment endpoints, conceptual model exposure pathways, and questions and hypotheses. Step 4 is the study design and DQO process, which includes lines of evidence and measurement endpoints. Step 5 is the verifications of the field sampling design. Step 6 is the site investigation and data analysis. Step 7 is the risk characterization. Step 8 is risk management.

8.2 FSWT EXPOSURE AREAS

The ecological habitats identified for the FSWT site include (1) a terrestrial habitat that would encompass the current site, (2) the aquatic habitat of the on-site retention pond, and (3) Moncrief Creek, which receives surface water runoff and stormwater from the site. Because the terrestrial habitat is located in an urban setting, a viable terrestrial habitat is not considered present at the site, and any exposure will be considered *de minimis* and will not be evaluated as part of the SLERA (see Figure RA-1-4 in Appendix J). Therefore, the only ecological receptors evaluated as part of this risk assessment are receptors present in the stormwater retention pond and Moncrief Creek.

8.3 SLERA APPROACH

The primary objective of the second step in the SLERA is to identify chemicals of potential ecological concern (COPEC) and provide a conservative evaluation of the potential for adverse ecological effects related to constituent concentrations in environmental media. This step combines the ecological screening values (ESV) with exposure information to yield an estimate of potential ecological risks at the site. The identification of the ESVs, exposure estimates, and risk calculations are summarized below.

An ecological CSM was prepared using information on the habitats present and known areas of contamination that identifies likely categories of receptors with anticipated complete exposure pathways and assessment endpoints for the ecological evaluation (see Figure RA-1-4 in Appendix J). Potential exposure points, exposure routes, and ecological receptors at the FSWT site are discussed below for the on-site retention pond and Moncrief Creek. The ecological CSM (Figure RA-1-4) is presented in the risk assessment contained in Appendix J.

Sediment is the major contaminated medium identified for aquatic habitat of the on-site retention pond and Moncrief Creek, and surface water is the secondary contaminated medium of concern. Impacts to sediment and surface water are primarily the result of historical wood treating operations at the FSWT site, as described in earlier sections of this RI report.

The SLERA focused on benthic and aquatic receptors for the aquatic portions of the on-site retention pond and Moncrief Creek.

The specific assessment endpoints evaluated in the SLERA are:

- Ensure adequate protection of the benthic and aquatic communities in the on-site retention pond and Moncrief Creek by protecting them from the deleterious effects of acute and chronic exposures to site-related constituents present in the retention pond and creek.
- Ensure adequate protection of the aquatic-dependent avian populations along the shoreline of the on-site retention pond and Moncrief Creek by protecting them from the deleterious effects of acute and chronic exposures to site-related constituents caused by biotic uptake of constituents in sediment and surface water.
- Ensure adequate protection of threatened and endangered species (including candidate species) and species of special concern and their habitats by protecting them from the deleterious effects of acute and chronic exposures to site-related constituents.

Measurement Endpoints

Measurement endpoints define the measures that will be employed to quantify and predict attainment of assessment endpoints. Measurement endpoints are measures of adverse effects on ecological receptors in response to a stressor. Measures of ecosystem characteristics are measures that influence behaviors and locations of ecological receptors, distribution of stressors, and life-history characteristics of ecological receptors that may affect exposure or response to the stressor (Ref. 72). The measurement endpoints selected for each assessment are presented as follows:

Assessment Endpoint	Receptors	Measurement Attribute
Protection of the benthic community function and viability	Benthic organisms	Comparison to sediment threshold benchmarks for the protection of benthic/aquatic receptors
Protection of the aquatic community function and viability	Aquatic organisms	Comparison to chronic water quality standards for the protection of aquatic receptors
Protection of avian community function and viability	Avian	Comparison of dose from a food chain model to toxicity reference values for avian receptors

The final component is the screening-level ecological effects evaluation that identifies threshold exposure concentrations for constituents in environmental media below which adverse effects are not expected to occur. These highly conservative constituent concentrations are unlikely to result in adverse ecological effects, even to the most sensitive ecological receptors. In Step 2, these values are used as bases to evaluate whether there may be a potential for adverse ecological effects as a result of exposure to constituents in environmental media. Several potential sources were reviewed to identify appropriate ESVs for the SLERA.

EPCs for the SLERA are maximum detected concentrations of constituents in exposure media. Thus, the EPCs represent the maximum exposures expected at a given exposure area. The comparison resulted in an HQ such that:

$$HQ = \frac{EPC}{ESV}$$

The EPA HQ threshold value of 1 was used to identify COPECs. Generally, the greater the HQ, the greater the likelihood an effect will occur. Although probabilities cannot be specified based on a point-estimate approach, an HQ of approximately 1 is generally regarded as indicating a low probability

of adverse ecological effects. When a constituent yields an HQ greater than 1, it is present at levels above its threshold concentration; however, this HQ does not imply that adverse effects will occur, only that the potential for adverse effects exists.

8.4 SLERA RESULTS

The SLERA results for aquatic life in the on-site retention pond identified that sediments from the pond had an HQ greater than 1 based on maximum concentrations. The contaminants identified in the sediments were the three metals associated with the site: arsenic (HQ = 13), chromium (HQ = 7.8), and copper (HQ = 6.4). These three metals were also detected in the dissolved form in the surface water. Two were found above the aquatic life chronic screening values: arsenic (HQ = 5.1) and copper (HQ = 6.4), while chromium was below (HQ = 0.08).

The SLERA results for aquatic life in Moncrief Creek identified that sediments from the creek had an HQ greater than 1 based on maximum concentrations. The contaminants identified in the sediments were the three metals associated with the site: arsenic (HQ = 27.6), chromium (HQ = 6.3), and copper (HQ = 7.4). Arsenic was the only COPEC detected in surface water, and its maximum concentration was below the chronic water quality standard for arsenic in Florida.

The SLERA results for avian receptors that may use the retention pond as a source for food and water yielded HQs greater than 1, indicating a potential risk. Using the low and high TRV, the HQ values were the following – arsenic (220 and 22), chromium (79 and 14) and copper (85 and 8.6). The SLERA also evaluated the potential risks to the avian receptors in Moncrief Creek, focusing on the stormwater collection basin within the creek's watershed, downstream from FSWT stormwater discharge to the creek. The results for avian receptors that may use the stormwater collection basin as a source for food and water yielded HQs less than 1 based on the high TRVs (lowest observed adverse effect level [LOAEL]), indicating no significant risk.

8.5 SLERA CONCLUSIONS

The SLERA for the FSWT Site was performed in accordance with the EPA ERAGS eight-step process (Ref. 71). The SLERA conclusions are presented below:

- Concentrations of several constituents, primarily metals in sediments in the on-site retention pond and Moncrief Creek, exceed SLERA ESVs for benthic aquatic wildlife receptors. Within the creek, the major area of contamination is located about 1,800 feet downstream of the discharge

point of stormwater to the creek. Further evaluation of the sediment data may be needed to determine if the metals are bioavailable.

- The surface water concentrations of the constituents associated with the FSWT site in the on-site retention pond were above chronic water quality standards for the protection of aquatic life for arsenic and copper. The concentrations of constituents in Moncrief Creek were all below chronic water quality standards for the protection of aquatic life. Therefore, further evaluation of surface water in a BERA is not warranted.

- The evaluation of potential impacts to the avian community that may use the on-site retention pond indicates potential risk. An evaluation of the potential impacts to the avian community that may use the stormwater collection basin on Moncrief Creek as a source of food and water did not identify a significant risk.

9.0 PRELIMINARY IDENTIFICATION OF RESPONSE ACTIONS

This section provides a preliminary evaluation of general response actions (GRA), remedial action objectives (RAO), and preliminary remediation goals (PRG) for media and pathways which may warrant CERCLA remedial action based on the results of the Baseline Risk Assessment. Specifically, RAOs and GRAs are developed for those exposure units for which, absent remedial action, there is an unacceptable risk to current or future receptors. GRAs are broad categories of actions that will satisfy RAOs. GRAs may include treatment, containment, excavation, disposal, land use controls (LUC), or a combination. RAOs consist of medium-specific or area-specific goals for protecting human health and the environment. RAOs typically specify the contaminants of concern (COC), exposure routes and receptors, and acceptable contaminant levels or a range of levels for each exposure route (Ref. 1). PRGs are established based on readily available information (such as applicable or relevant and appropriate requirements [ARAR]) but final acceptable exposure levels will also take into consideration the results of the HHRA and SLERA (Ref. 1) (see Appendix J). The information presented in the table below provides a preliminary compilation of potential GRAs, RAOs, and PRGs and is intended as a reference point for evaluating remedial actions in the FS. Once the RI report and risk assessments are finalized, this information will be revisited in the FS and revised accordingly.

Site Area	General Response Action	Remedial Action Objective	Preliminary Remediation Goal
On-Site			
Soil	No Action Limited Action Containment Removal (excavation) *In situ* Treatment *Ex situ* Treatment Disposal	Prevent human exposure (direct contact and ingestion) to soil with concentrations of COCs above levels protective of future residents, commercial/industrial workers, utility workers, and child recreational users. Prevent migration of contaminants via storm water run-off on to adjacent properties.	Background concentration of 2.3 mg/kg arsenic. The Florida SCTL for residential land use of 2.1 mg/kg arsenic (10 E-6 cancer risk, adjusted for bioavailability). The Florida SCTL for commercial/industrial land use of 12 mg/kg arsenic. 3.94 mg/kg risk-based arsenic level for recreational use (youth).

Site Area	General Response Action	Remedial Action Objective	Preliminary Remediation Goal
On-site retention pond sediments and water	No Action Limited Action Containment Removal (excavation) *In situ* Treatment *Ex situ* Treatment Disposal	Prevent contaminants from entering Moncrief Creek via drainage culvert. Reduce COCs in surface water and sediment to levels that are protective of ecological receptors (avian). Prevent human exposure to water in the holding basin with COCs above levels that are protective of trespassers and future on-site workers.	Ecological risk based level for avian. The Florida SCTL for commercial/industrial land use of 12 ppm arsenic for soil.
Residual waste material (in on-site drains and potentially located beneath process area)	No Action Limited Action Containment Removal (excavation) *In situ* Treatment *Ex situ* Treatment Disposal	Prevent direct contact with residual waste material. Prevent contaminants from entering Moncrief Creek via drainage culvert. Prevent migration of contaminants from source areas (material in on site drains and any contaminated material found beneath the process area) into other media.	Worker exposure: SCTL, 12 mg/kg arsenic Future residential exposure: 2.3 mg/kg arsenic
Groundwater	Not applicable	Not applicable	Not applicable
Off-Site			
Residential soil	No Action Limited Action Containment Removal (excavation) *In situ* Treatment *Ex situ* Treatment Disposal	Prevent human exposure (direct contact and ingestion) to surface and subsurface soil with concentrations of COCs above levels protective of residential use.	For those individual exposure units (yards) that warrant remedial action (exceeds the CERCLA risk range or exceed HI of 1), the soil clean up level is the SCTL for arsenic residential use (2.1 mg/kg) or background (2.3 mg/kg).
Groundwater	Not applicable	Not applicable	Not applicable
Moncrief Creek			
Sediments	Not applicable	Not applicable	Not applicable
Surface Water	Not applicable	Not applicable	Not applicable

10.0 SUMMARY AND CONCLUSIONS

FSWT encompasses 12.5 acres at 2610 Fairfax Street in a predominantly residential area of Jacksonville, Duval County, Florida. The FSWT Superfund site is the abandoned former Wood Treaters, LLC facility, and its features include a wood treatment area, pressure chamber, office building, parking lot, drip pad, former tank farm, storage building, storage yard and retention pond. From 1980 to 2010, Wood Treaters, LLC operated a wood treating facility that pressure treated utility poles, pilings, heavy timber items, and plywood lumber products using the wood treating preservative CCA. Wood Treaters, LLC abandoned the facility in 2010. EPA added the site to the National Priorities List in 2012, referring to it as the Fairfax Street Wood Treaters (FSWT) site. Wood Treaters, LLC did not treat wood products with creosote or pentachlorophenol. CCA is characterized by a bright green color and is composed of waterborne oxides, or salts, of chromium, copper, and arsenic. The copper serves as a fungicide, the arsenic serves as an insecticide, and the chromium binds the copper and arsenic to the wood. After treatment, the wood is transferred to drying racks to drip dry, where the water evaporates, leaving only the salts. The salts react with the wood surface, rendering the wood insoluble. After drip-drying, the treated wood was stored on the gravel areas along the northern, southern, and western portions of the property.

In 1990, Wood Treaters, LLC installed a stormwater collection and retention system, including site grading and paving for drainage, stormwater collection swales, diversion berms, and a polyethylene-lined retention pond. CCA deposited onto the drip pad during the drip-dry process mixed with stormwater, resulting in a CCA solution. CCA-contaminated stormwater from the drip pad was diverted to an underground sump located adjacent to the storage tanks. Once the stormwater inside the sump reached a specified volume, a pump transported the stormwater to one of two effluent tanks, where it was recycled into the high-concentrate CCA treatment solution.

Stormwater that collected in the treated wood storage yard and areas other than the drip pad was diverted to ditches located along the northern, southern, and western property boundaries. These ditches drain into the retention pond at the northwestern corner of the property. Overflow from the FSWT retention pond flows west through an underground pipe for about 1,000 feet before it enters Moncrief Creek. Moncrief Creek flows north about 3.5 miles before it converges with the Trout River. The Trout River flows east about 2 miles before it converges with the St. Johns River. The FSWT property is located outside of the 500-year flood plain of Moncrief Creek.

The topography of the FSWT property and the surrounding area is generally flat and, prior to 1990, overland flow across the FSWT property was uncontrolled. The elevation at the FSWT property is about

25 feet above mean sea level. The type of soil present at the FSWT property is classified as Pelham-Urban land complex (fine sand). During RI activities, eight permanent monitoring wells were installed within the surficial aquifer at depths ranging from 20 to 40 feet bls. Lithologic logs of the permanent monitoring wells indicate the presence of sand, sandy clay, and clay in the subsurface. The surficial aquifer was encountered between 3.6 feet and 7.3 feet bls. Potentiometric surface maps were prepared based on groundwater elevations collected during each of the three groundwater monitoring and sampling events conducted at FSWT since the installation of the wells. These maps indicate a westerly groundwater flow pattern originating from PMW-01; however, the dominant groundwater flow pattern appears to be to the north-northwest.

Since 2010, EPA has conducted several investigations at FSWT and the surrounding residential and school properties, including an emergency response (August 2010), a removal investigation (January 2011), a pre-RI (May 2011), a removal confirmation and residential sampling event (July 2011), and an RI (2012 to 2013). The primary contaminants of concern for the FSWT site are the CCA constituents arsenic, chromium, and copper. Based on analytical results for soil samples, the extent of on-site arsenic, chromium, and copper contamination appears to be primarily within the top 4 feet of soil. Arsenic contamination in residential and school areas north, east, south, and west of the FSWT property appears to be primarily within the top 1 foot of soil. Furthermore, the concentrations of arsenic detected in soil at FSWT and the surrounding properties show a gradient that decreases with distance from FSWT. Chromium and copper contamination does not appear to extend off site.

Sediment in Moncrief Creek downstream of the FSWT retention pond outfall is also contaminated with arsenic. Arsenic was detected above its screening value of 9.8 mg/kg in six of the 13 sediment samples collected during the RI. Moncrief Creek serves as an area-wide storm water conduit and collects stormwater from several city culverts, including the culvert that drains FSWT.

Eight permanent monitoring wells were installed on the FSWT property during the RI. Since they were installed, three rounds of groundwater sampling and monitoring have been conducted. During the second round of sampling, one groundwater sample contained arsenic at a concentration of 10 µg/L, which is equal to the MCL.

Stormwater continues to be directed to the on-site retention pond via drains and ditches. Samples collected from material inside drains located on the FSWT property contained arsenic at concentrations ranging from 150 mg/kg to 11,000 mg/kg. It is most likely that the drains located on the northern portion of the FSWT property surrounding the office, drip pad, and former tank farm lead to the on-site retention

pond; however, the precise outfall locations of the on-site drains are unknown. Surface soil samples collected from the on-site drainage ditches also contained arsenic at concentrations ranging from 16 mg/kg to 1,300 mg/kg. When the retention pond reaches its capacity, an overflow pipe directs the water to a City of Jacksonville stormwater drainage pipe, which leads to Moncrief Creek. A sediment sample collected from the drainage pipe downstream from the on-site retention pond contained arsenic at a concentration of 47 mg/kg. Based on analytical results, contaminated soil, as well as contaminated material inside drainage pipes on the FSWT property continues to be a source of contamination in Moncrief Creek. This contamination should be addressed in the FS.

Based on the information presented in the HHRA, the following conclusions were drawn:

- Total risks exceed 1E-04, the upper end of EPA's acceptable risk range, for future residents, future industrial/commercial workers, future child recreationalist, and future utility workers at the On Site area of the former FSWT Site.
- There are risks within EPA's risk range (1E-06 to 1E-04) to receptors for exposures to soils. On-site receptors include construction worker, adolescent and adult trespassers, and adolescent and adult recreationalists. Receptors in off-site residential areas (N, E, S, and W) consist of current and future residents. The off-site recreationalists exposed to Moncrief Creek were within the EPA's risk range.
- Arsenic is the primary contributor to the soil and groundwater risks.

Based on the information presented in the SLERA, the following conclusions may be drawn.

- Concentrations of several constituents, primarily metals in sediments in the on-site retention pond and Moncrief Creek, exceed SLERA ESVs for benthic aquatic wildlife receptors. Within the creek, the major area of contamination is located about 1,800 feet downstream of the discharge point of stormwater to the creek. Further evaluation of the sediment data may be needed to determine if the metals are bioavailable.
- The surface water concentrations of the constituents associated with the FSWT site in the on-site retention pond were above chronic water quality standards for the protection of aquatic life for arsenic and copper. The concentrations of constituents in Moncrief Creek were all below chronic water quality standards for the protection of aquatic life. Therefore, further evaluation of surface water in a BERA is not warranted.
- The evaluation of potential impacts to the avian community that may use the on-site retention pond identified a potential risk; however, the stormwater collection basin on Moncrief Creek as a source of food and water did not identify an unacceptable risk.

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APPENDIX A

FIGURES

(52 Pages)

FIGURE

FIGURE (Continued)

16C RISK AREA – ON-SITE COPPER IN SOIL 18 TO 24 INCHES BLS

17A RISK AREA – ON-SITE ARSENIC IN SOIL 24 TO 36 INCHES AND 36 TO 42 INCHES BLS

17B RISK AREA – ON-SITE CHROMIUM IN SOIL 24 TO 36 INCHES AND 36 TO 42 INCHES BLS

17C RISK AREA – ON-SITE COPPER IN SOIL 24 TO 36 INCHES AND 36 TO 42 INCHES BLS

18A RISK AREA – ON-SITE ARSENIC IN SOIL 60 TO 72 INCHES BLS

18B RISK AREA – ON-SITE CHROMIUM IN SOIL 60 TO 72 INCHES BLS

18C RISK AREA – ON-SITE COPPER IN SOIL 60 TO 72 INCHES BLS

19A RISK AREA – SCHOOL ARSENIC IN SOIL 0 TO 6 INCHES BLS

19B RISK AREA – SCHOOL ARSENIC IN SOIL 18 TO 24 INCHES BLS

20A RISK AREA – RESIDENTIAL NORTH ARSENIC IN SOIL 0 TO 6 INCHES BLS

20B RISK AREA – RESIDENTIAL NORTH ARSENIC IN SOIL 18 TO 24 INCHES BLS

21A RISK AREA – RESIDENTIAL EAST ARSENIC IN SOIL 0 TO 6 INCHES BLS

21B RISK AREA – RESIDENTIAL EAST ARSENIC IN SOIL 18 TO 24 INCHES BLS

22A RISK AREA – RESIDENTIAL SOUTH ARSENIC IN SOIL 0 TO 6 INCHES BLS

22B RISK AREA – RESIDENTIAL SOUTH ARSENIC IN SOIL 18 TO 24 INCHES BLS

23A RISK AREA – RESIDENTIAL WEST ARSENIC IN SOIL 0 TO 6 INCHES BLS

23B RISK AREA – RESIDENTIAL WEST ARSENIC IN SOIL 18 TO 24 INCHES BLS

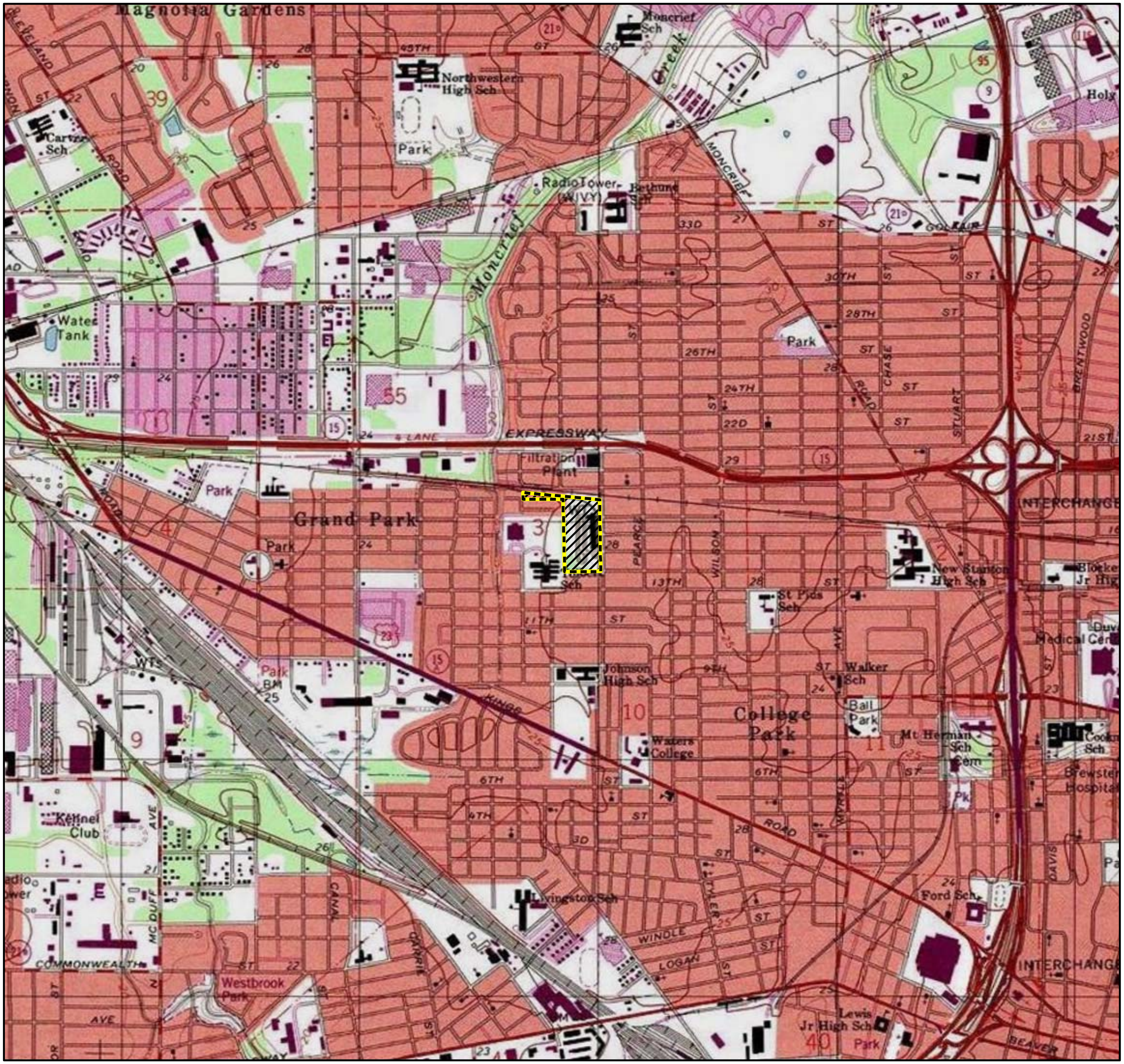
24A CONCEPTUAL SITE MODEL – ARSENIC CONCENTRATIONS IN SURFACE SOIL (0 TO 6 INCHES BLS)

24B CONCEPTUAL SITE MODEL – ARSENIC CONCENTRATIONS IN SUBSURFACE SOIL (18 TO 24 INCHES BLS)

24C CONCEPTUAL SITE MODEL – ARSENIC CONCENTRATIONS IN SUBSURFACE SOIL (24 TO 42 INCHES BLS)

25 CONCEPTUAL SITE MODEL – CHROMIUM CONCENTRATIONS IN SURFACE SOIL (0 TO 6 INCHES BLS)

26 CONCEPTUAL SITE MODEL – COPPER CONCENTRATIONS IN SURFACE SOIL (0 TO 6 INCHES BLS)



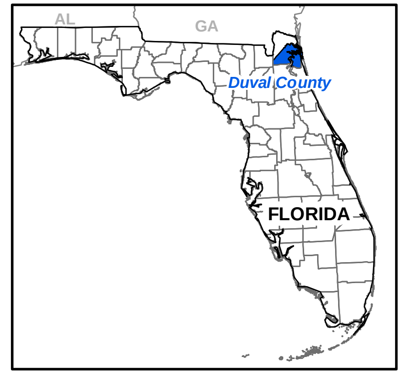
Legend

Fairfax St. Wood Treaters Property Boundary

N
W E
S

0 1,000 2,000
Feet
1:24,000

Map Source:
USGS, 7.5 Minute Series Topographic Quadrangle Map, Jacksonville, FL, 1983
Property Boundary - Duval County Property Appraiser's Office.



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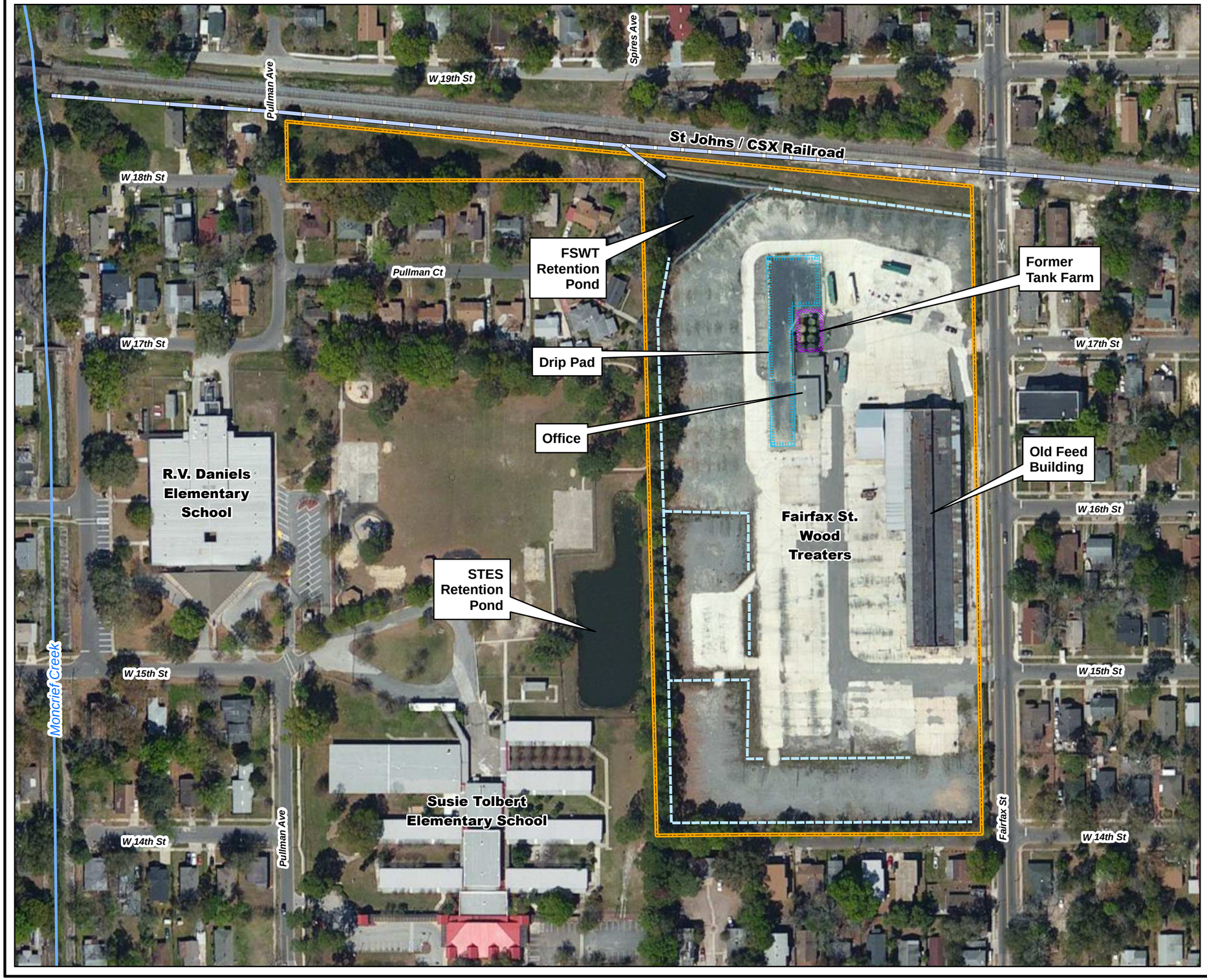
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No.TTEMI-05-003-0134

FIGURE 1
SITE LOCATION

TETRA TECH

Path: C:\GIS_Workspace\TTEMI-05-003-0134_Fairfax_Street_Removal_Investigation\GIS\MXDs\Site_Location\FAIRFAX SITE LOC MAP 8.5x11 10-25-11.mxd Date Saved: 10/25/2011 7:56:20 AM User: dale.vonbusch



Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drip Pad
- Former Tank Farm and Secondary Containment
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
FSWT = Fairfax St. Wood Treaters
STES = Susie Tolbert Elementary School

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 75 150
Feet

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 2
SITE LAYOUT

TETRA TECH

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Legend

August 2010 Emergency Response
- Soil Sample
- Sediment Sample
- Surface Water Sample
- Surface Water and Sediment Sample
- Outfall Sample
- Tank Sample
- Background Soil Sample
- Background Surface Water and Sediment Sample

January 2011 Removal Investigation
- Soil Sample
- Sediment Sample
- Surface Water Sample
- Surface Water and Sediment Sample
- Background Soil Sample
- Background Surface Water and Sediment Sample

May 2011 Pre-Remedial Investigation
- Soil Sample
- Background Soil Sample
- Soil Sample and Concrete Sample
- Ground Water Monitoring Well
- Background Ground Water Monitoring Well

July 2011 Removal and Residential Sampling
- Residential Soil Sample
- Air Sample
- Background Soil Sample
- Sampling Grid

Map Features
- Fairfax St. Wood Treaters
- Duval County Parcels
- Drip Pad
- Tank Farm and Secondary Containment

Map Notes:

AS - Air sample
Bg - Background
BKG - Background
CONT - Containment
D - Duplicate
D# - Day number
DNW - Downwind
DUP - Duplicate
FRW - Fairfax St. Wood Treaters
G - Grid
MW - Monitoring well
RP - Residential property
SED - Sediment
SF - Surface soil
SS - Surface soil
STES - Susie Tolbert Elementary School
SW - Surface water
T - Tank
UPW - Upwind
WT - Fairfax St. Wood Treaters
WTI - Fairfax St. Wood Treaters

Source:
Aerial Photograph - 2008 Digitial Orthophotos, Duval County,
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 35 70 140 Feet

1:840

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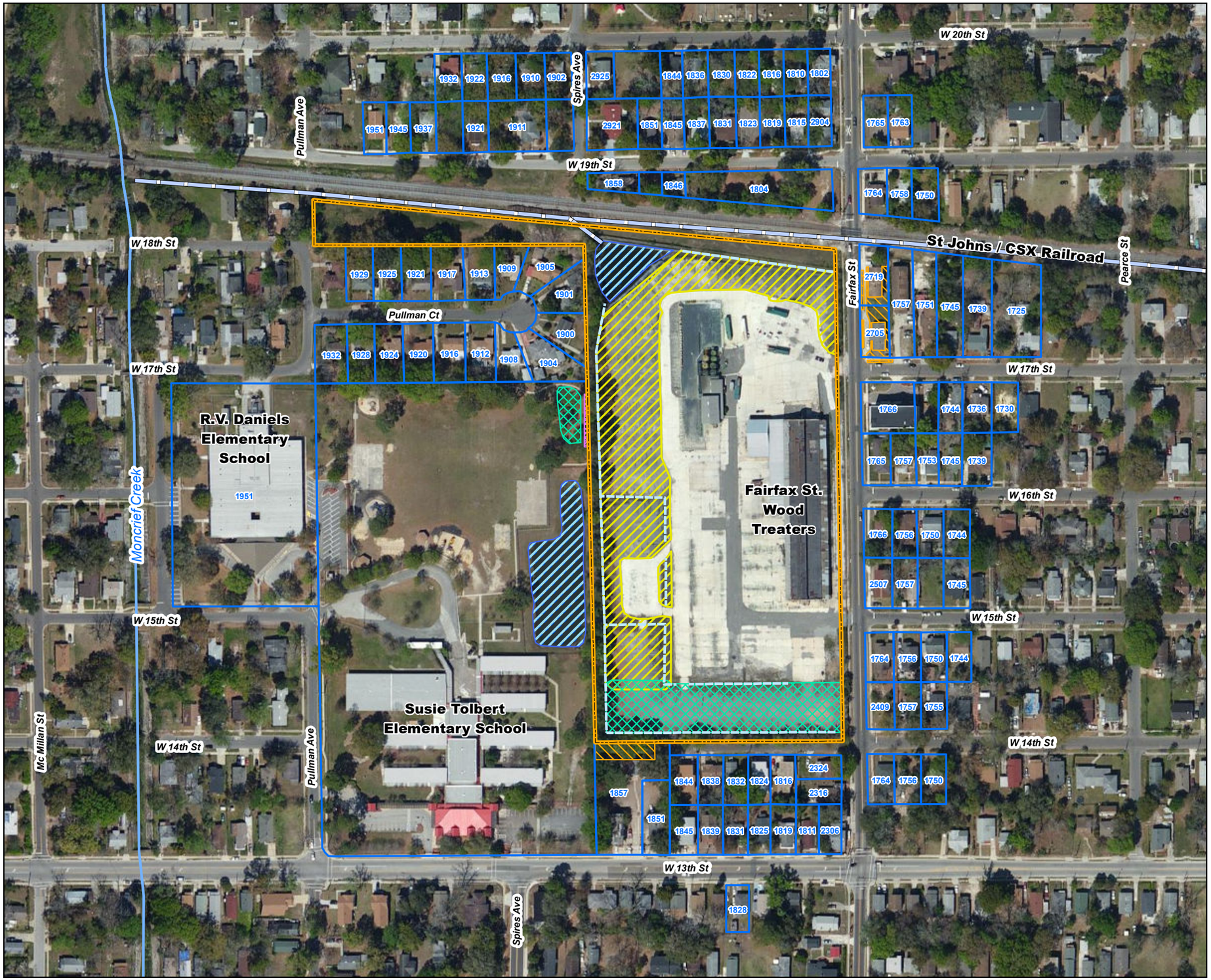
FIGURE 3
SAMPLING LOCATIONS FOR EPA INVESTIGATIONS CONDUCTED PRIOR TO THE REMEDIAL INVESTIGATION (AUGUST 2010, JANUARY 2011, MAY 2011, AND JULY 2011)

Path: S:\GIS_Workspace\TTEMI-05-003-0134_Fairfax_Street_Removal_Investigation\TTEMI-05-003-0134_Fairfax_Street_Removal_Investigation\GIS\MXDs\R1 Proposed Sample Locations\FAIRFAX RI2 SMPL LOCS 22x34 11-11-11.mxd Date Saved: 6/4/2013 9:47:31 AM User: joel.peters



Legend

Map Features

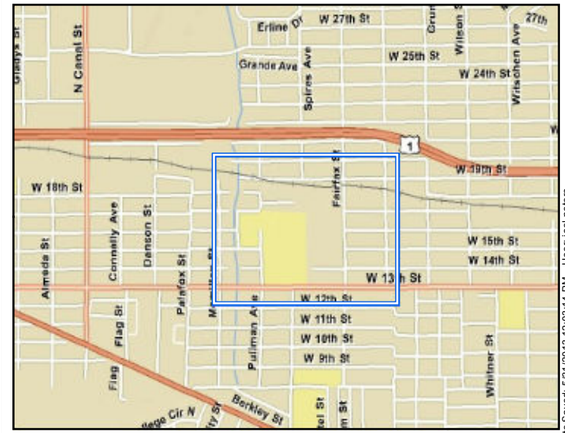
- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek
- 6 inches bls
- 1 foot bls
- 1.5 feet bls
- 2 feet bls
- Excavated and Restored Pond

Notes:
bls = Below land surface

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 100 200
Feet



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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 4
EPA REMOVAL AREAS

TETRA TECH

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Legend

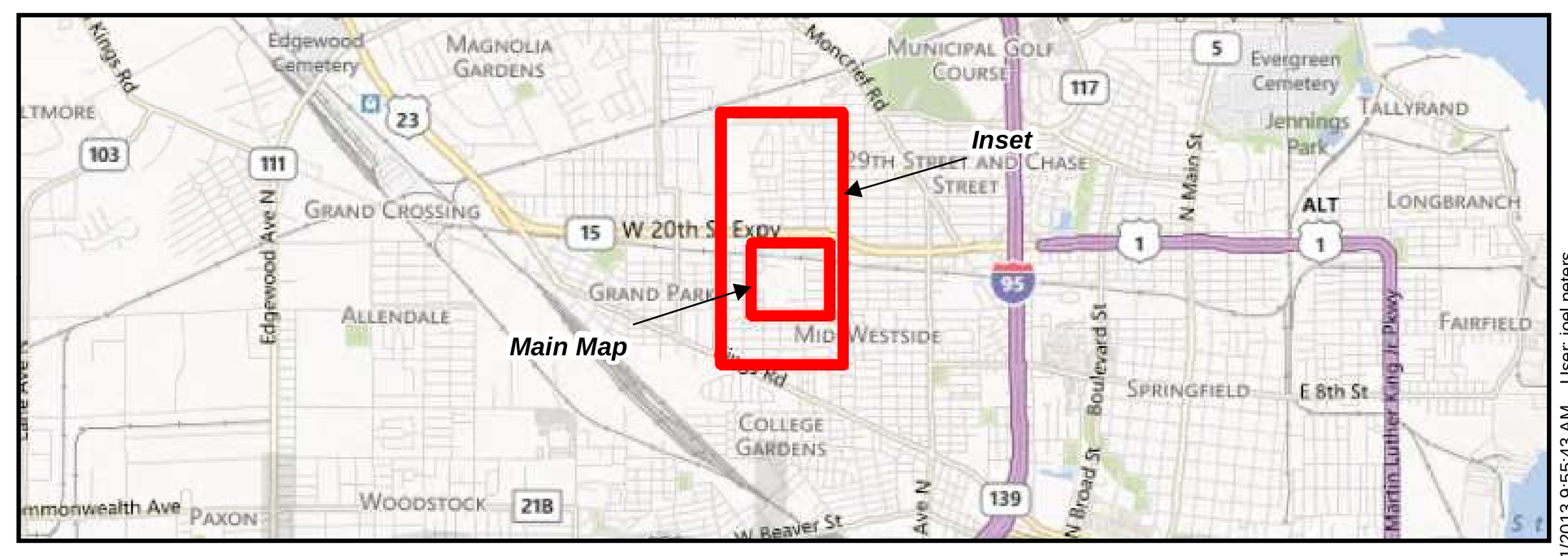
Symbol	Description	Symbol	Description
▲	Off-site Surface Water Sample	—	Moncrief Creek
▲	On-site Surface Water and Sediment Sample	- - -	Drainage Ditch
▲	On-site Surface Water Sample	▭	Drainage Pipe
▲	On-Site Drain Sediment Sample	□	ROW Sampling Grid
⊕	Groundwater Monitoring Well/ Soil Boring Sample	□	Sampling Grid
⊞	On-site Subsurface Soil Sample	□	Drip Pad
■	On-site Surface and Subsurface Soil Sample	□	Former Tank Farm and Secondary Containment
■	City ROW Surface Soil Sample	□	Fairfax St. Wood Treaters Property Boundary
■	Off-Site Surface and Subsurface Soil Sample	□	Parcel Boundaries

Source:
Aerial Photograph - 2008 Digitial Orthophotos, Duval County, The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 30 60 120 Feet

1:720



Map Notes:

A = Sample depth of 2 to 3 feet bls
B = Sample depth of 5 to 6 feet bls
bls = Below land surface
BS = Bulk solids
BY = Backyard
C = Sample depth of 8 to 10 feet bls
D = Sample depth of 18 to 20 feet bls
DD = Drainage ditch
DN = Drain
DP = Drainage pipe
DUP = Duplicate
E = Sample depth of 28 to 30 feet bls
F = Sample depth of 38 to 40 feet bls
FB = Old Feed Building
FSRP = Fairfax St. retention pond
FY = Front yard
G = Grid
GW = Groundwater
MC = Moncrief Creek
PF = Perimeter fenceline
PL = Pond liner
PMW = Permanent monitoring well
R = Re-sampled
ROW = Right-of-way
RP = Residential property
SB = Subsurface soil
SD = Sediment
SF = Surface soil
STES = Susie Tolbert Elementary School
STRP = Susie Tolbert retention pond
SW = Surface water
WT = Fairfax St. Wood Treaters

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 5
REMEDIAL INVESTIGATION SAMPLING LOCATIONS

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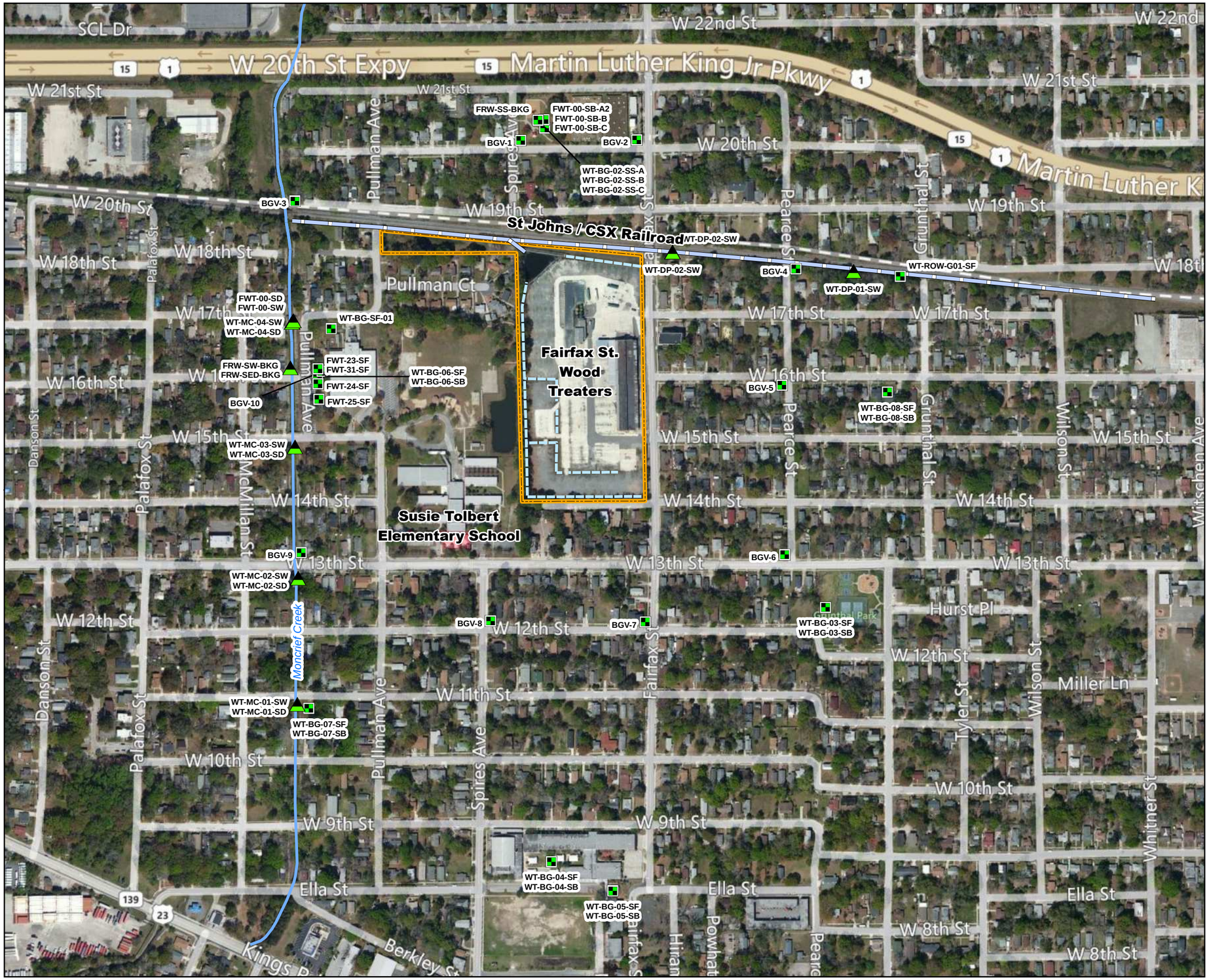

Legend

- Surface Water/Sediment Background Sampling Location
- Surface/Subsurface Soil Background Sampling Location
- Drainage Ditch
- Drainage Pipe

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Moncrief Creek

Notes:

A = Sample depth of 0 to 6 inches bls
A2 = Sample depth of 0 to 12 inches bls
B = Sample depth of 12 to 24 inches bls
BG = Background
BKG = Background
bls = Below land surface
C = Sample depth of 24 to 36 inches bls
FRW = Fairfax St. Wood Treaters
FWT = Fairfax St. Wood Treaters
G = Grid
MC = Moncrief Creek
ROW = Right-of-way
SB = Subsurface soil
SD = Sediment
SED = Sediment
SF = Surface soil
SS = Soil sample
SW = Surface water
WT = Fairfax St. Wood Treaters

Source:

Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 200 400 Feet

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FIGURE 6
ALL BACKGROUND SAMPLING LOCATIONS

TETRA TECH

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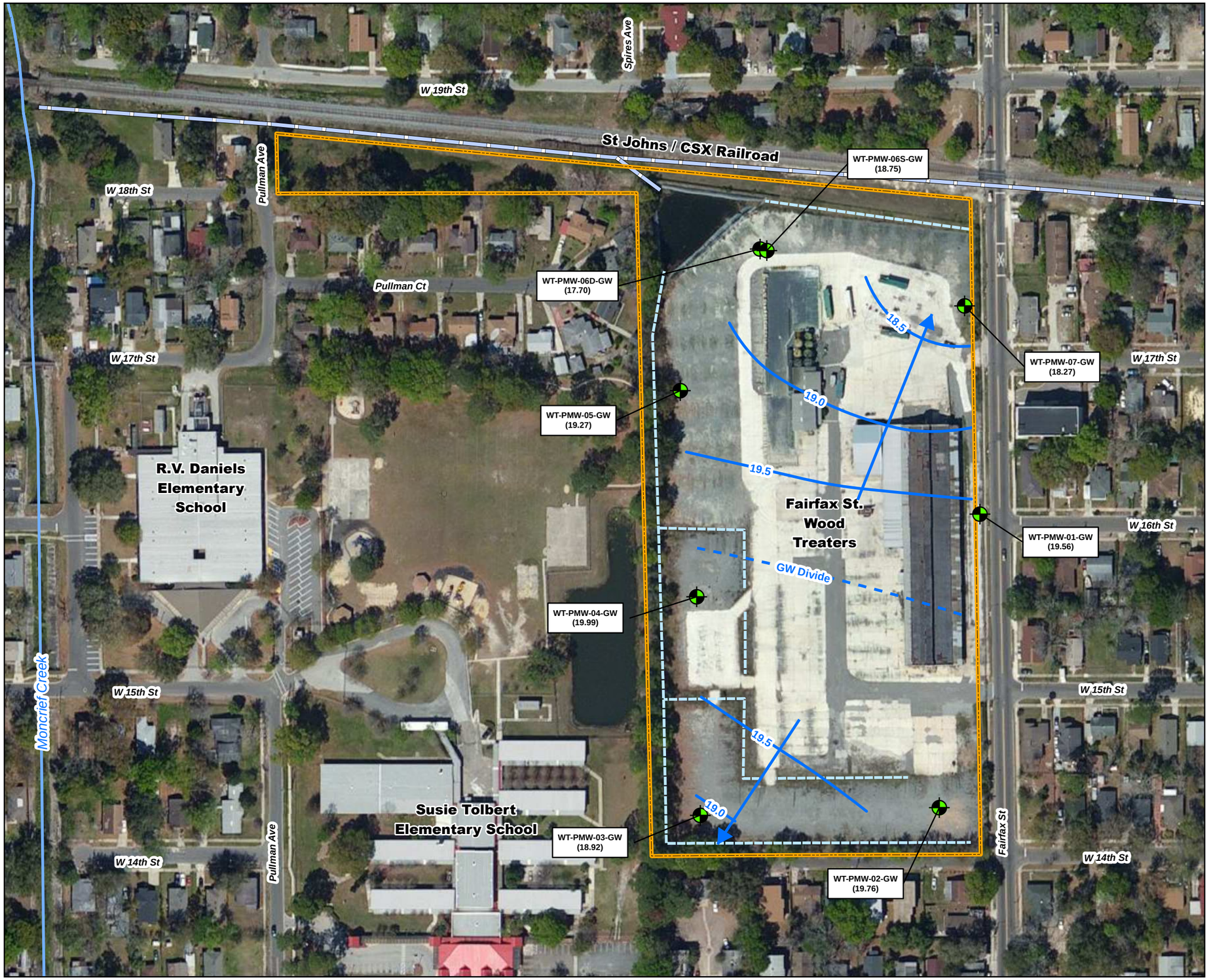

Legend

On-site Groundwater Monitoring Wells

Monitoring Well

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Groundwater Contour
- Groundwater Divide
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek
- (19.27) Groundwater elevation on North American Vertical Datum (N.A.V.D) of 1988. Elevation expressed in feet.
- Groundwater Flow Direction

Notes:
D = Deep
GW = Groundwater
PMW = Permanent monitoring well
S = Shallow
WT = Fairfax St. Wood Treaters

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 75 150 Feet

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TDD No. TTEMI-05-003-0134

FIGURE 7A
POTENTIOMETRIC SURFACE MAP
03/01/12

TETRA TECH

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Legend

On-site Groundwater Monitoring Wells

- Monitoring Well
- Groundwater Contour

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
D = Deep
GW = Groundwater
PMW = Permanent monitoring well
S = Shallow
WT = Fairfax St. Wood Treaters

(21.33) Groundwater elevation on North American Vertical Datum (N.A.V.D) of 1988. Elevation expressed in feet.

Groundwater Flow Direction

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 75 150 Feet

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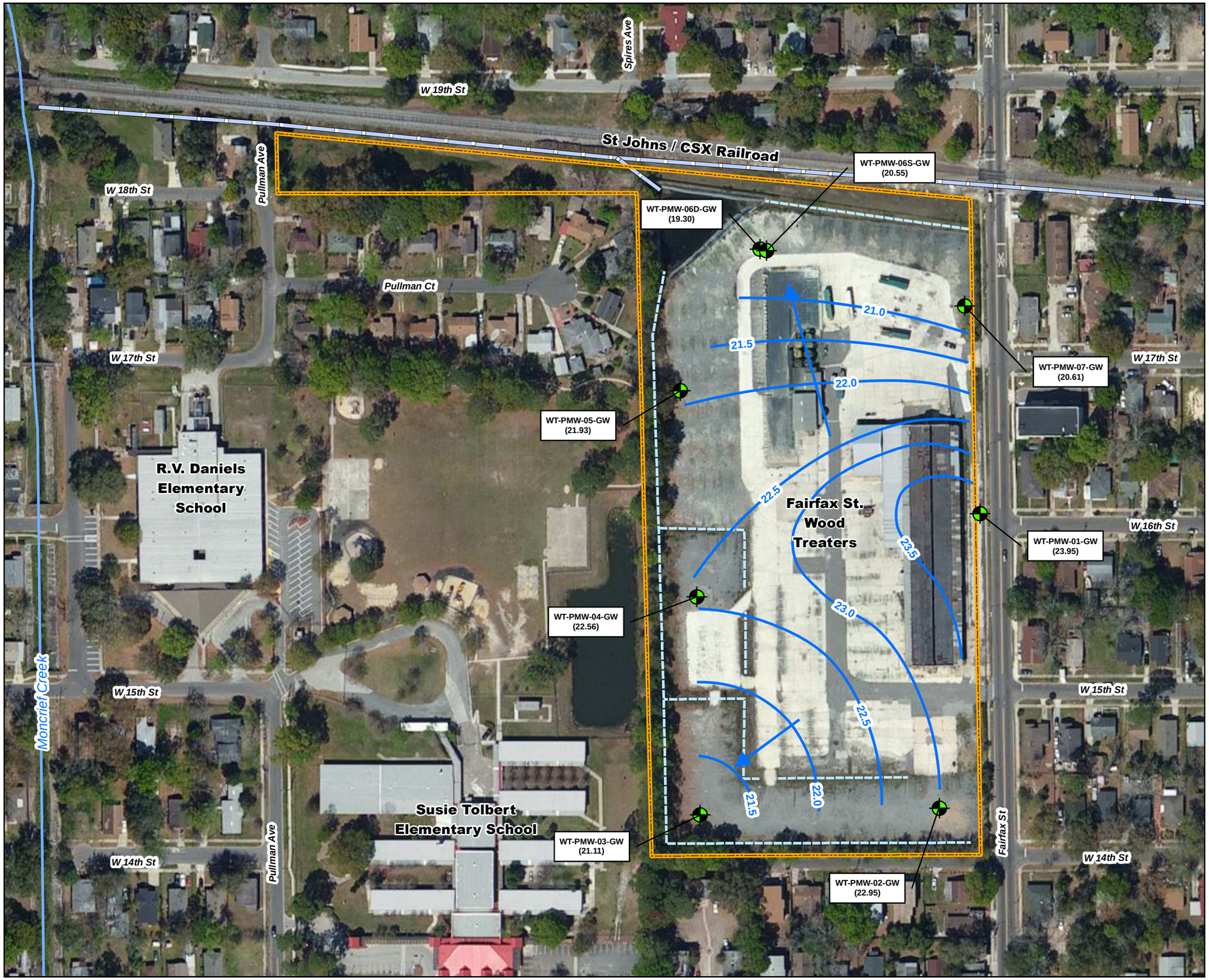
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 7B
POTENTIOMETRIC SURFACE MAP
08/15/12

TETRA TECH



Legend

On-site Groundwater Monitoring Wells

- Monitoring Well
- Groundwater Contour

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
D = Deep
GW = Groundwater
PMW = Permanent monitoring well
S = Shallow
WT = Fairfax St. Wood Treaters

(21.33) Groundwater elevation on North American Vertical Datum (N.A.V.D) of 1988. Elevation expressed in feet.

Groundwater Flow Direction

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 75 150 Feet

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TDD No. TTEMI-05-003-0134

FIGURE 7C
POTENTIOMETRIC SURFACE MAP
02/26/13

TETRA TECH

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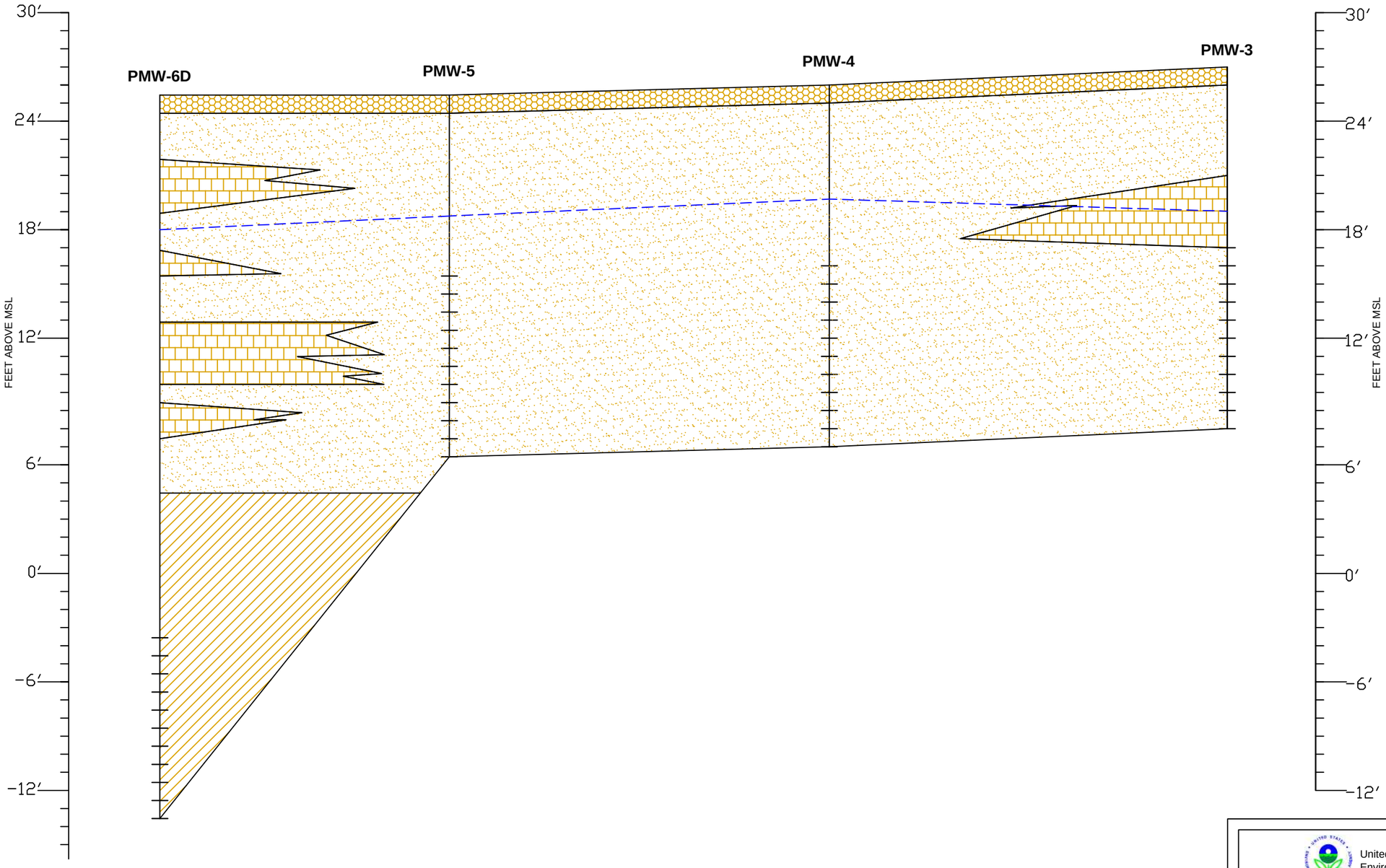

Legend

- Overburden consisting mainly of gravel
- Holocene and Pleistocene deposits consisting of clayey sands and/or sand - clay mixture
- Holocene and Pleistocene deposits consisting of loose, coarse, and fine sands
- Holocene and Pleistocene deposits consisting of inorganic silts and clays of moderate to high plasticity
- Screened Interval
- Water level

0 45 90

Horizontal Scale in Feet

Vertical Scale: 1" = 6'

Vertical Exaggeration: 15

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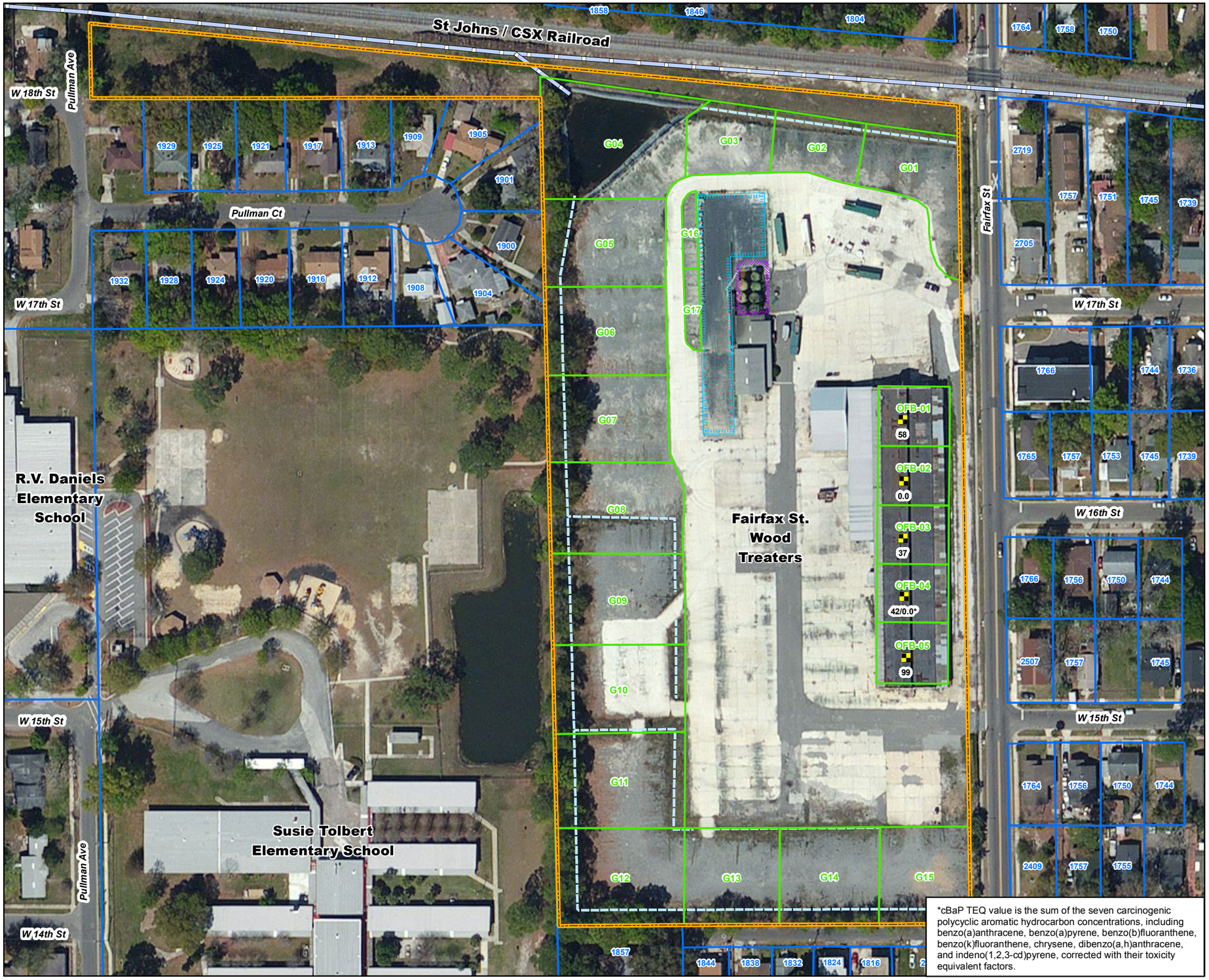
TDD No. TTEMI-05-003-0134

FIGURE 8
CROSS SECTION

TETRA TECH

S:\CADD\[9017\00030\13400001\mxd\Fairfax_Cross_Section_v3.dwg, 5/31/2013 12:42:10 PM, joel.peters



*cBaP TEQ value is the sum of the seven carcinogenic polycyclic aromatic hydrocarbon concentrations, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, corrected with their toxicity equivalent factors.

Legend

On-Site Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
cBaP-TEQ - Carcinogenic benzo(a)pyrene toxicity equivalent
µg/kg - Micrograms per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

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JACKSONVILLE,
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FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 9A
cBaP-TEQ* IN SOIL
(24 to 36 inches bls)

TETRA TECH

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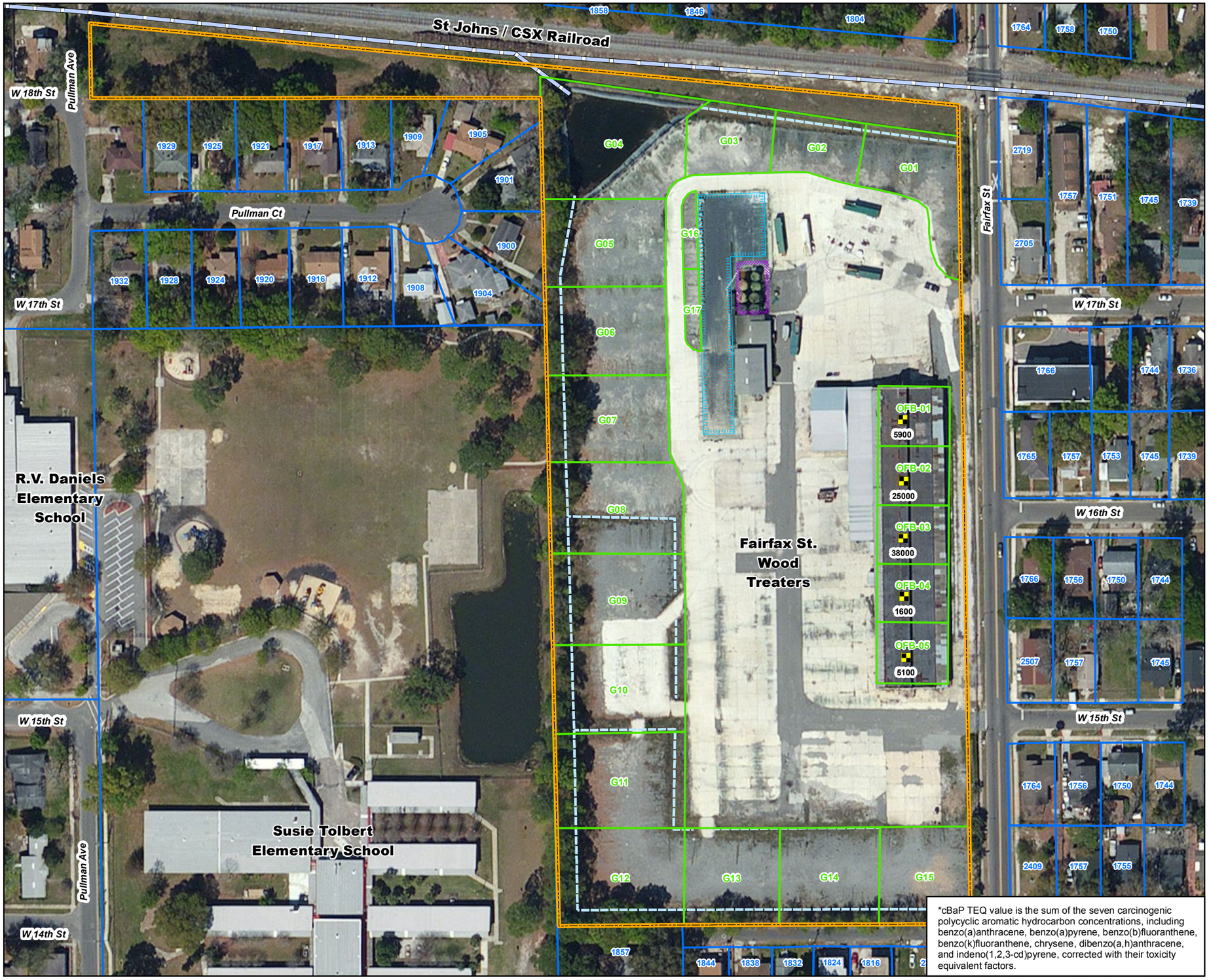

Legend

On-site Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
cBaP-TEQ - Carcinogenic benzo(a)pyrene toxicity equivalent
µg/kg - Micrograms per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

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DUVAL COUNTY,
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TDD No. TTEMI-05-003-0134

FIGURE 9B
cBaP-TEQ* IN SOIL
(60 TO 72 INCHES BLS)

TETRA TECH

*cBaP TEQ value is the sum of the seven carcinogenic polycyclic aromatic hydrocarbon concentrations, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, corrected with their toxicity equivalent factors.

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Legend

On-Site Drain Sampling Location

Map Features

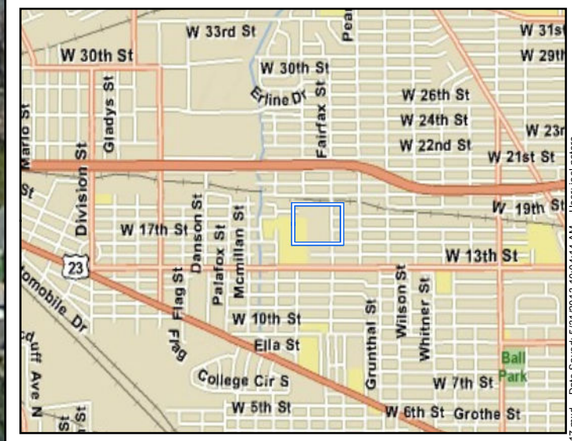
- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
mg/kg = Milligrams per Kilogram
DN = Drain
SD = Sediment
WT = Fairfax St. Wood Treaters

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 40 80
Feet



United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 10A
ARSENIC CONCENTRATIONS
IN ON-SITE DRAINS

TETRA TECH

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Legend

On-Site Drain Sampling Location

Map Features

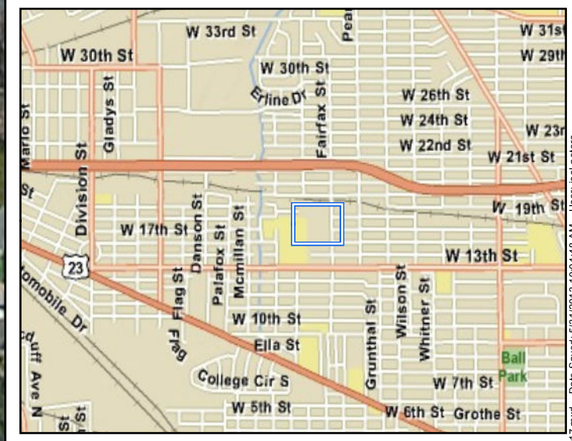
- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
mg/kg = Milligrams per Kilogram
DN = Drain
SD = Sediment
WT = Fairfax St. Wood Treaters

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 40 80
Feet



United States
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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 10B
CHROMIUM CONCENTRATIONS
IN ON-SITE DRAINS

TETRA TECH

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Legend

On-Site Drain Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
mg/kg = Milligrams per Kilogram
DN = Drain
SD = Sediment
WT = Fairfax St. Wood Treaters

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 40 80
Feet

United States
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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 10C
COPPER CONCENTRATIONS
IN ON-SITE DRAINS

TETRA TECH

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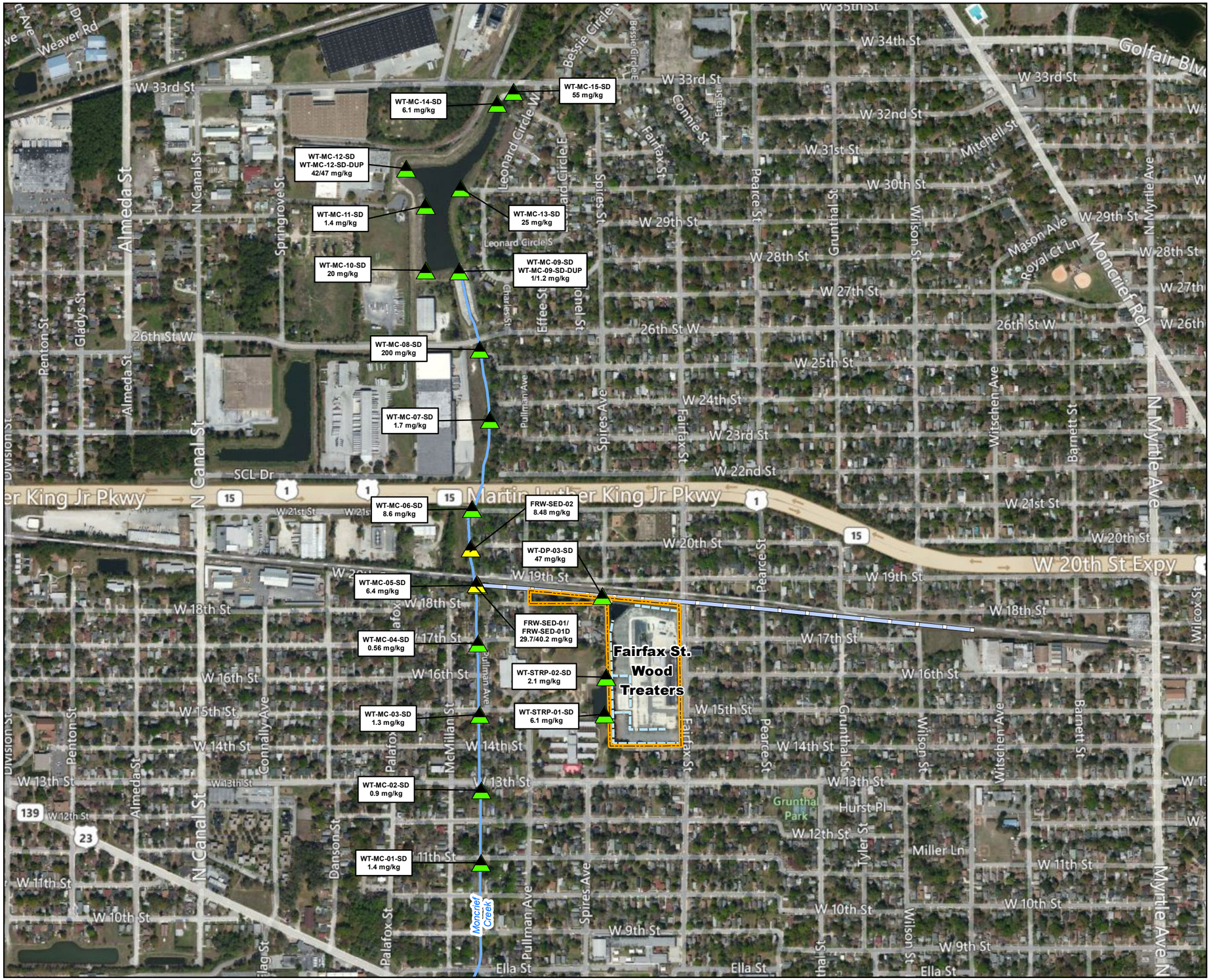

Legend

- 2010 Off-Site Sediment Sampling Location
- 2012 RI Off-Site Sediment Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
mg/kg = Milligrams per Kilogram
DP = Drainage pipe
DUP = Duplicate
D = Duplicate
FRW = Fairfax St., Wood Treaters
MC = Moncrief Creek
STRP = Susie Tolbert retention pond
SED = Sediment
SD = Sediment
WT = Fairfax St. Wood Treaters

N
W E
S

0 300 600
Feet

Samples WT-MC-01-SD, WT-MC-02-SD, WT-MC-03-SD, and WT-MC-04-SD are background samples.

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 11A
ARSENIC CONCENTRATIONS
IN OFF-SITE SEDIMENT

TETRA TECH

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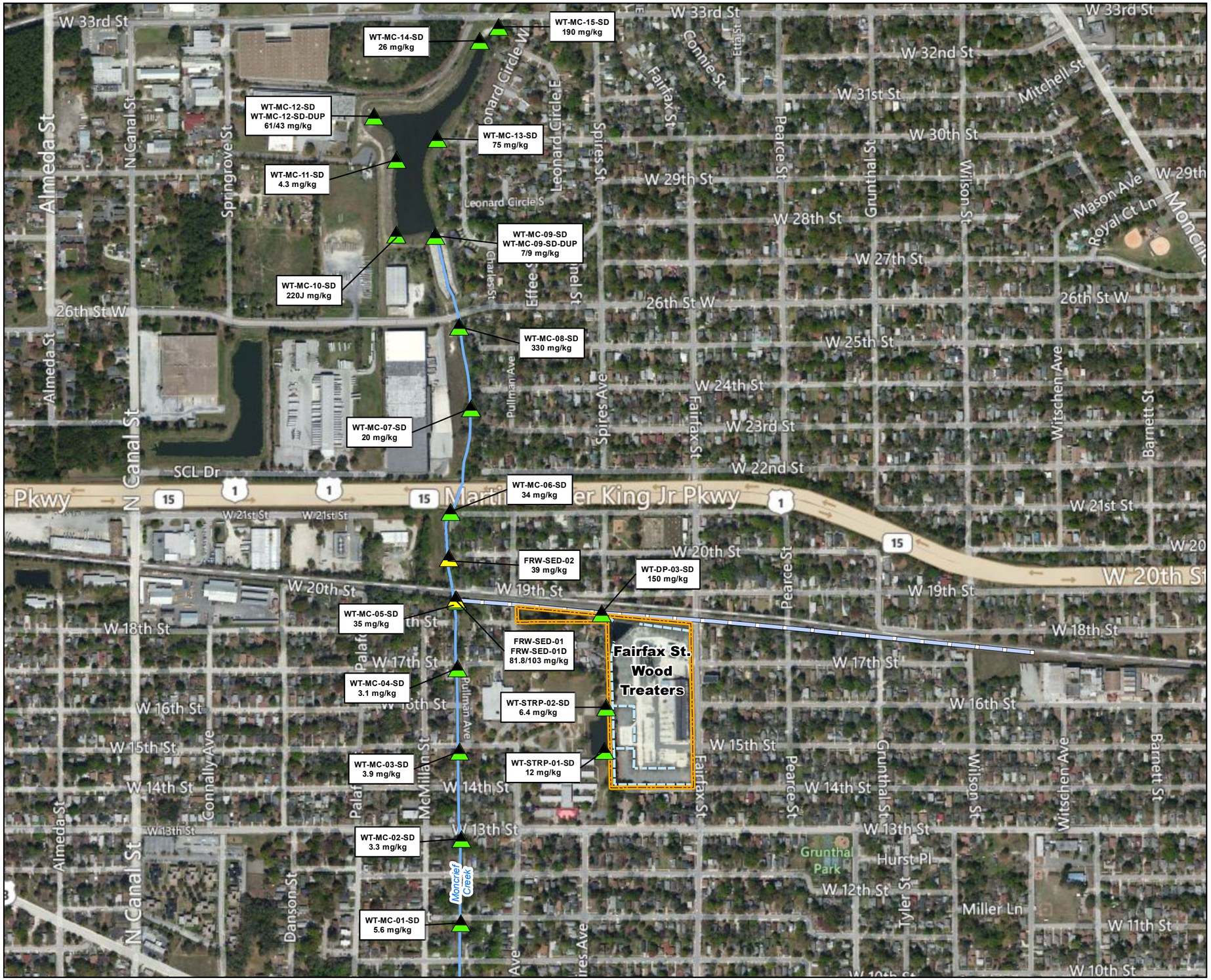

Legend

- August 2010 Off-Site Sediment Sampling Location
- 2012 RI Off-Site Sediment Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:

mg/kg = Milligrams per Kilogram
DP = Drainage pipe
DUP = Duplicate
D = Duplicate
FRW = Fairfax St., Wood Treaters
J = Estimated Value
MC = Moncrief Creek
STRP = Susie Tolbert retention pond
SED = Sediment
SD = Sediment
WT = Fairfax St. Wood Treaters

N
W E
S

0 300 600
Feet

Samples WT-MC-01-SD, WT-MC-02-SD, WT-MC-03-SD, and WT-MC-04-SD are background samples.

Source:

Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 11B
CHROMIUM CONCENTRATIONS
IN OFF-SITE SEDIMENT

TETRA TECH

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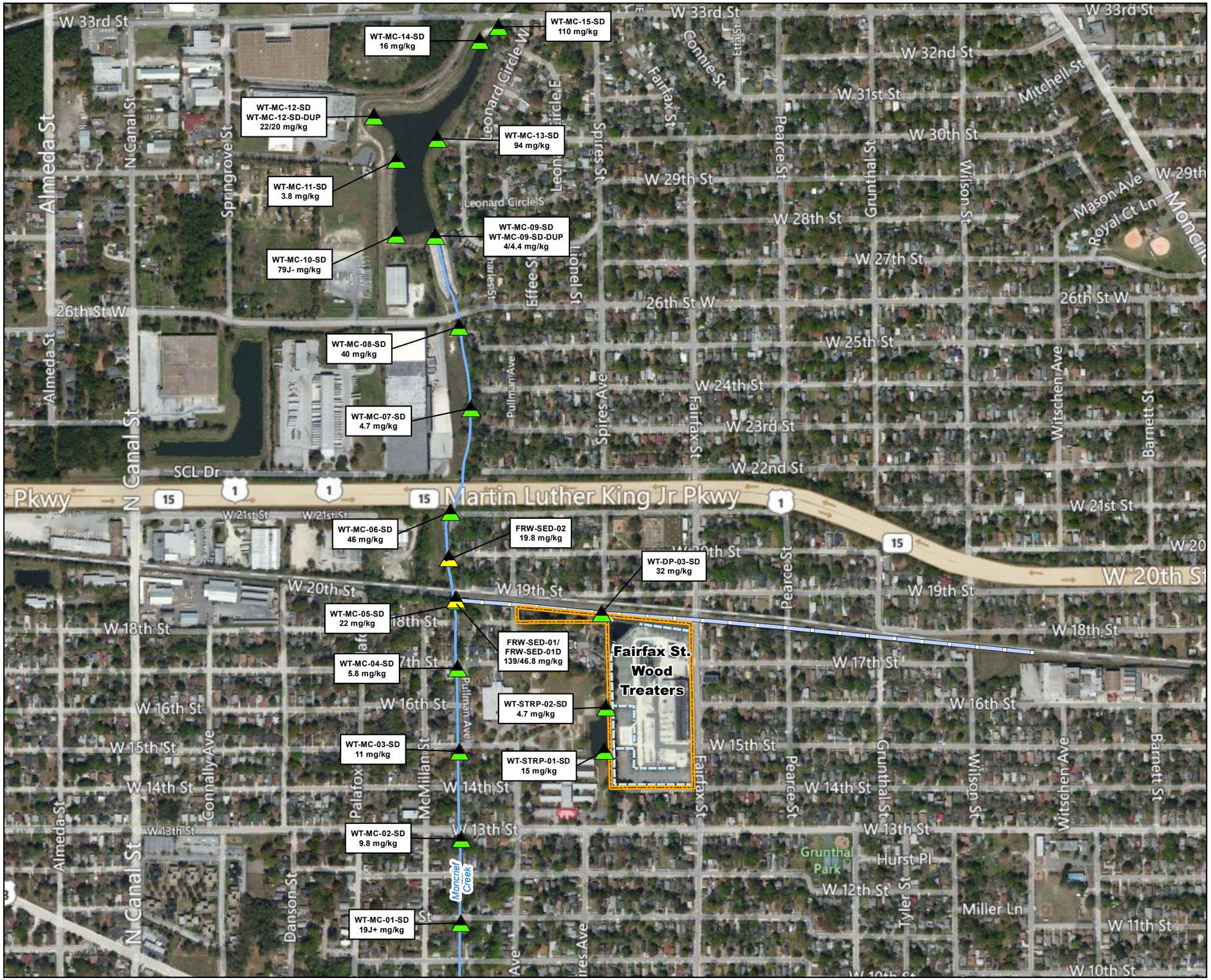

Legend

- August 2010 Off-Site Sediment Sampling Location
- 2012 RI Off-Site Sediment Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
mg/kg = Milligrams per Kilogram
DP = Drainage pipe
DUP = Duplicate
D = Duplicate
FRW = Fairfax St., Wood Treaters
MC = Moncrief Creek
STRP = Susie Tolbert retention pond
SED = Sediment
SD = Sediment
WT = Fairfax St. Wood Treaters

N
W E
S

0 300 600
Feet

Samples WT-MC-01-SD, WT-MC-02-SD, WT-MC-03-SD, and WT-MC-04-SD are background samples.

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 11C
COPPER CONCENTRATIONS
IN OFF-SITE SEDIMENT

TETRA TECH

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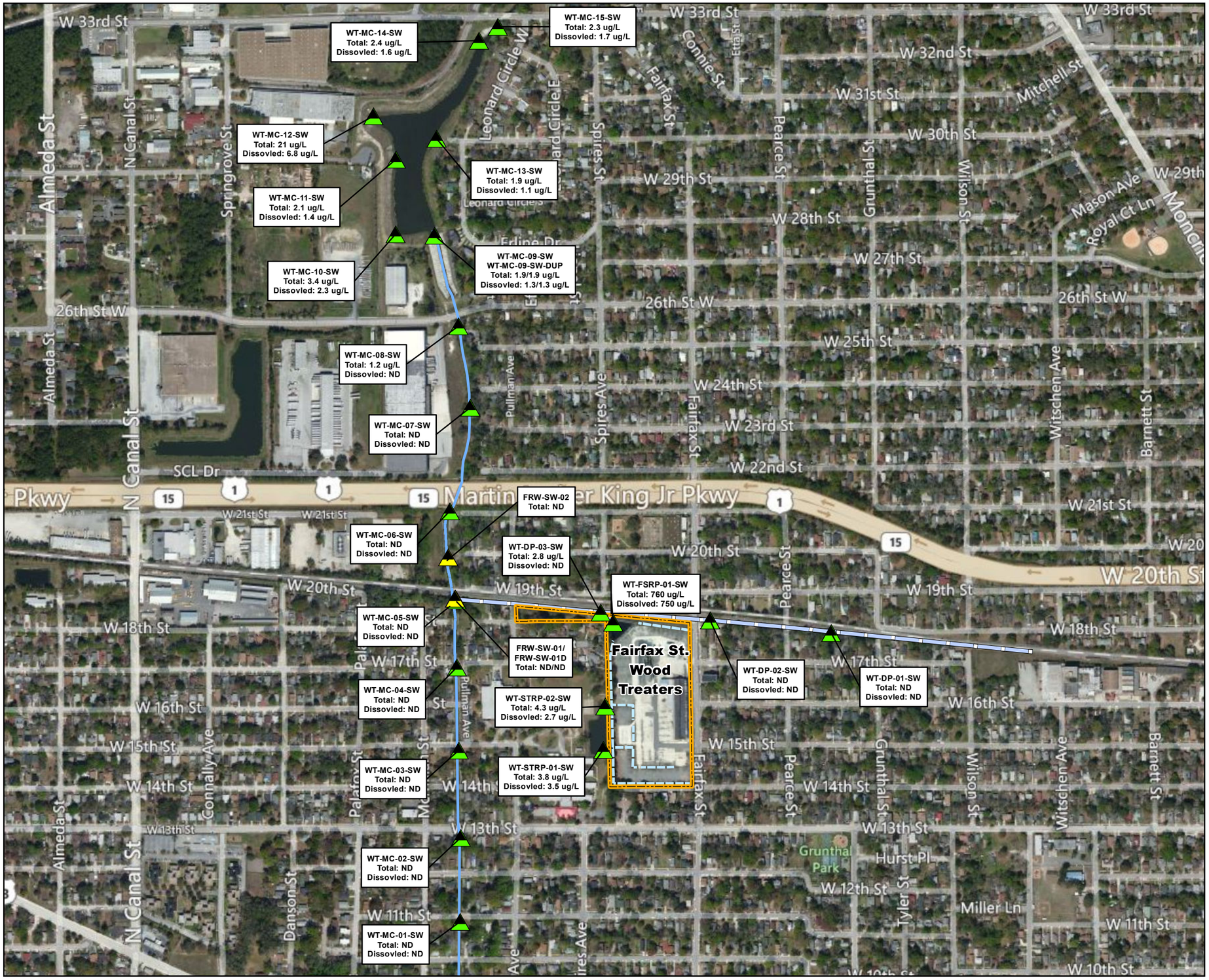

Legend

- August 2010 Off-Site Surface Water Sampling Location
- 2012 RI Off-Site Surface Water Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
ND = Not Detected
ug/L = Micrograms per Liter
DP = Drainage pipe
DUP = Duplicate
D = Duplicate
FRW = Fairfax St. Wood Treaters
FSRP = Fairfax St. retention pond
MC = Moncrief Creek
STRP = Susie Tolbert retention pond
SW = Surface water
WT = Fairfax St. Wood Treaters

N
W E
S

0 300 600
Feet

Samples WT-MC-01-SW, WT-MC-02-SW, WT-MC-03-SW, WT-MC-04-SW, WT-DP-01-SW, and WT-DP-02-SW are background samples.

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 12A
ARSENIC CONCENTRATIONS IN SURFACE WATER

TETRA TECH

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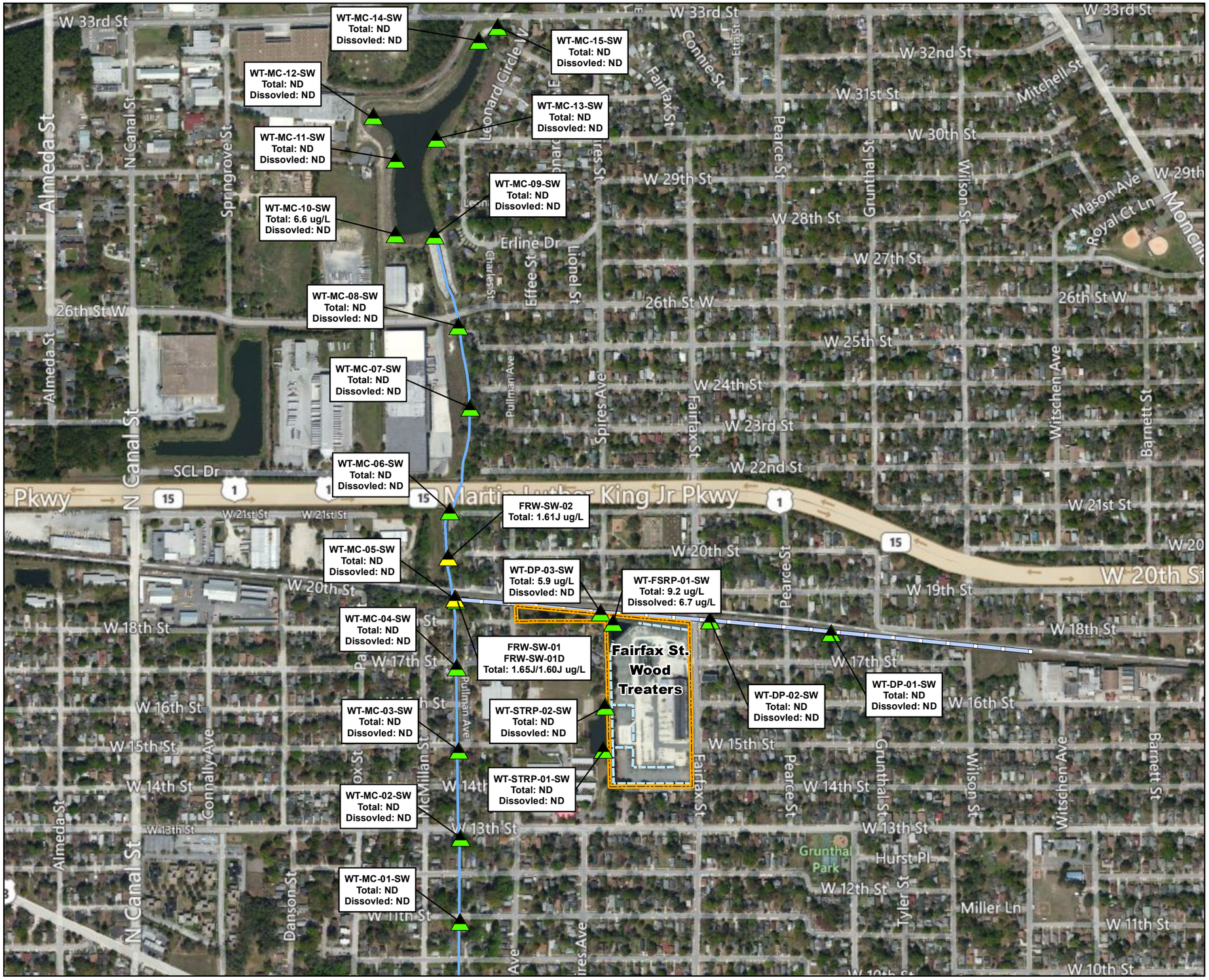

Legend

- August 2010 Off-Site Surface Water Sampling Location
- 2012 RI Off-Site Surface Water Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
ND = Not Detected
ug/L = Micrograms per Liter
DP = Drainage pipe
DUP = Duplicate
D = Duplicate
FRW = Fairfax St. Wood Treaters
FSRP = Fairfax St. retention pond
J = Estimated value
MC = Moncrief Creek
STRP = Susie Tolbert retention pond
SW = Surface water
WT = Fairfax St. Wood Treaters

N
W E
S

0 300 600
Feet

Samples WT-MC-01-SW, WT-MC-02-SW, WT-MC-03-SW, WT-MC-04-SW, WT-DP-01-SW, and WT-DP-02-SW are background samples.

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 12B
CHROMIUM CONCENTRATIONS IN SURFACE WATER

TETRA TECH

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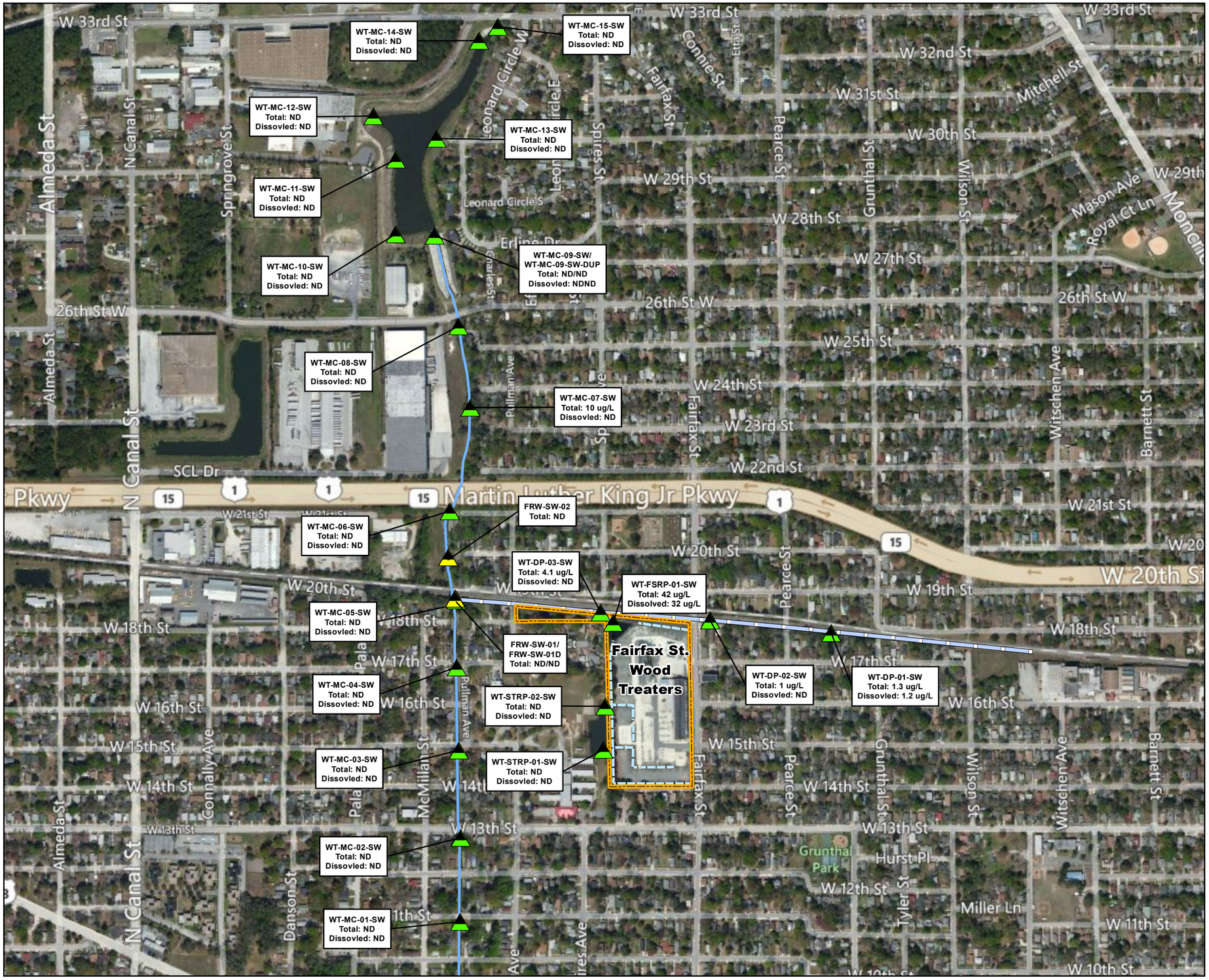

Legend

- August 2010 Off-Site Surface Water Sampling Location
- 2012 RI Off-Site Surface Water Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek

Notes:
ND = Not Detected
ug/L = Micrograms per Liter
DP = Drainage pipe
DUP = Duplicate
D = Duplicate
FRW = Fairfax St. Wood Treaters
FSRP = Fairfax St. retention pond
MC = Moncrief Creek
STRP = Susie Tolbert retention pond
SW = Surface water
WT = Fairfax St. Wood Treaters

N
W E
S

0 300 600
Feet

Samples WT-MC-01-SW, WT-MC-02-SW, WT-MC-03-SW, WT-MC-04-SW, WT-DP-01-SW, and WT-DP-02-SW are background samples.

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 12C
COPPER CONCENTRATIONS
IN SURFACE WATER

TETRA TECH

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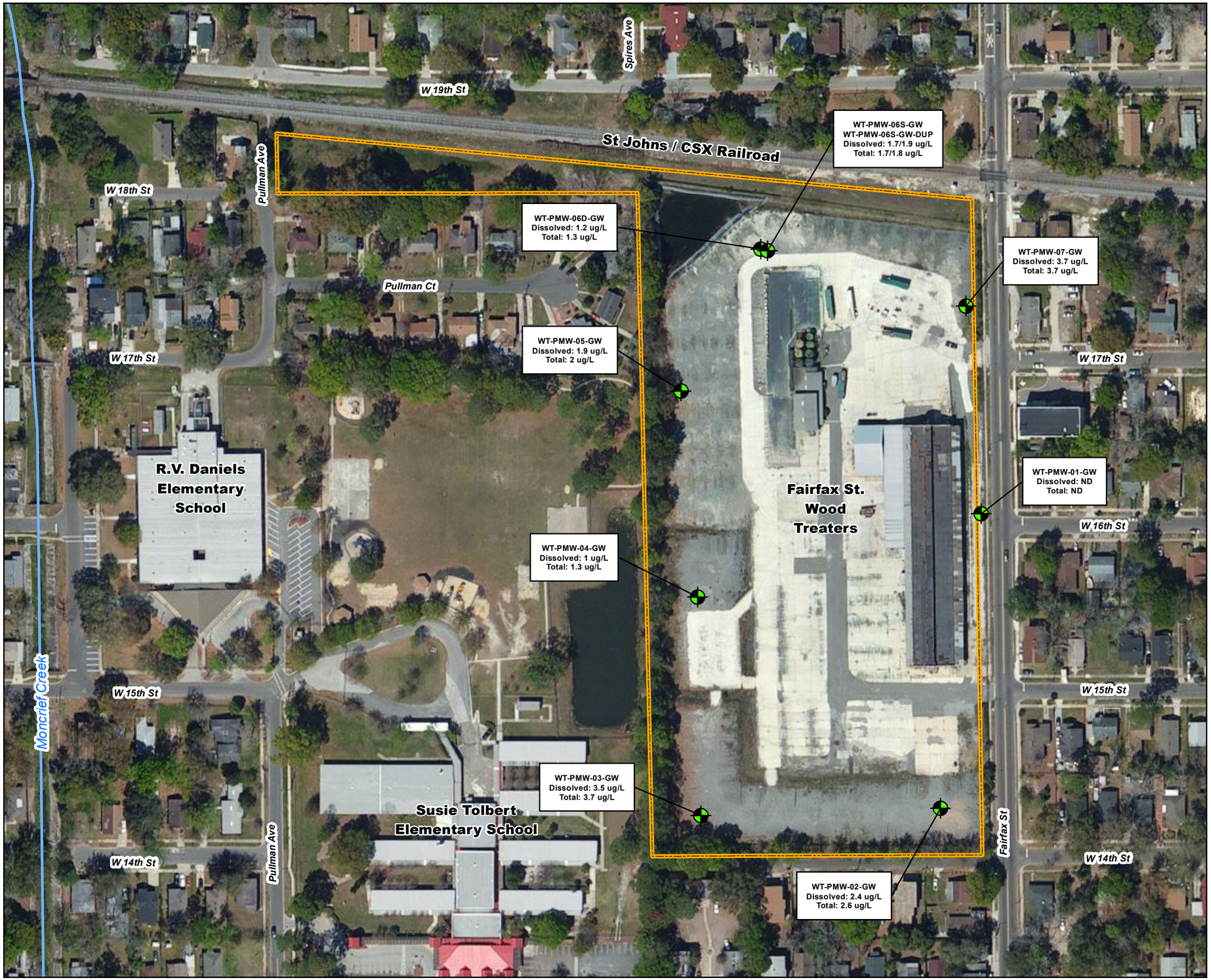

Legend

On-Site Groundwater Monitoring Well Sample

Map Features

Fairfax St. Wood Treaters Property Boundary

Moncrief Creek

Notes:
D = Deep
DUP = Duplicate
GW = Groundwater
ND = Non-detect
PMW = Permanent monitoring well
S = Shallow
WT = Fairfax St. Wood Treaters
ug/L = Micrograms per liter

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 75 150
Feet

United States
Environmental Protection Agency

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 13A
ARSENIC CONCENTRATIONS
IN GROUNDWATER 03/01/12

TETRA TECH

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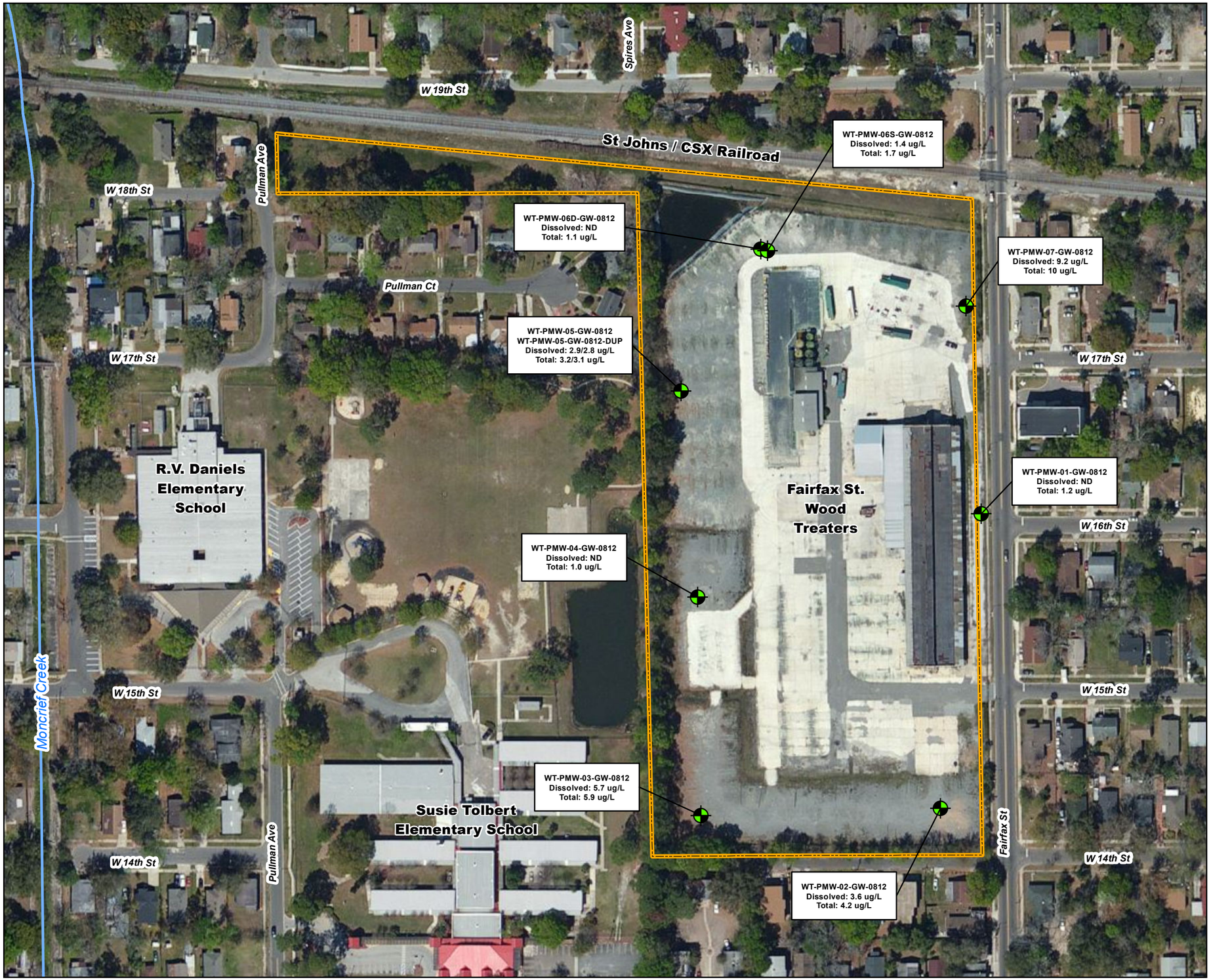

Legend

On-site Groundwater Monitoring Well Sample

Map Features

Fairfax St. Wood Treaters Property Boundary

Moncrief Creek

Notes:
D = Deep
DUP = Duplicate
GW = Groundwater
ND = Non-detect
PMW = Permanent monitoring well
S = Shallow
WT = Fairfax St. Wood Treaters
ug/L = Micrograms per liter

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 75 150 Feet

United States
Environmental Protection Agency

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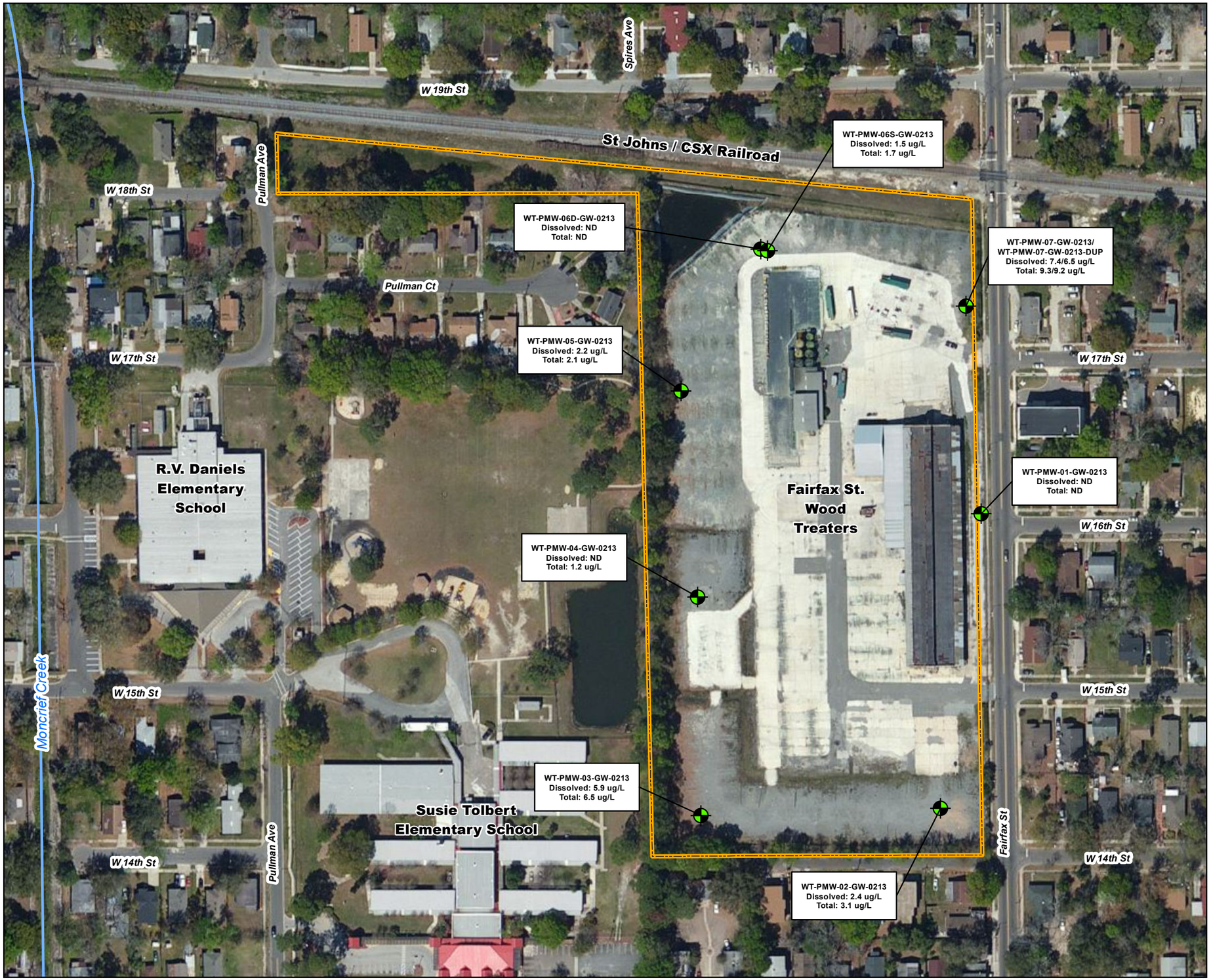
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 13B
ARSENIC CONCENTRATIONS
IN GROUNDWATER 08/15/12

TETRA TECH



Legend

On-Site Groundwater Monitoring Well Sample

Map Features

Fairfax St. Wood Treaters Property Boundary

Moncrief Creek

Notes:
D = Deep
DUP = Duplicate
GW = Groundwater
ND = Non-detect
PMW = Permanent monitoring well
S = Shallow
WT = Fairfax St. Wood Treaters
ug/L = Micrograms per liter

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 75 150 Feet

United States
Environmental Protection Agency

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 13C
ARSENIC CONCENTRATIONS
IN GROUNDWATER 02/26/13

TETRA TECH

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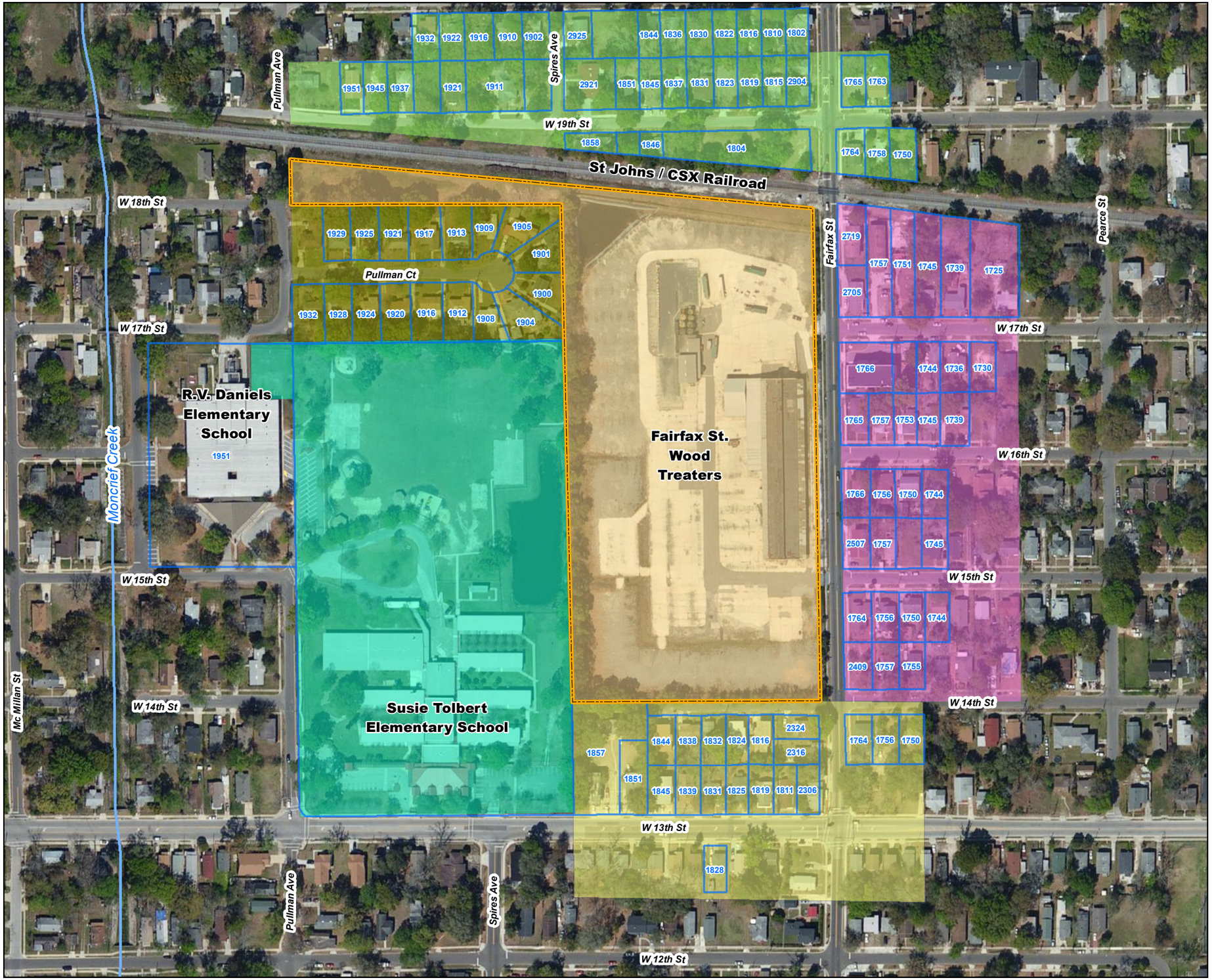

Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels
- Moncrief Creek

Risk Areas

- On-Site
- Residential East
- Residential North
- Residential South
- Residential West
- School

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 100 200 Feet

United States Environmental Protection Agency

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FIGURE 14
RISK AREAS

TETRA TECH

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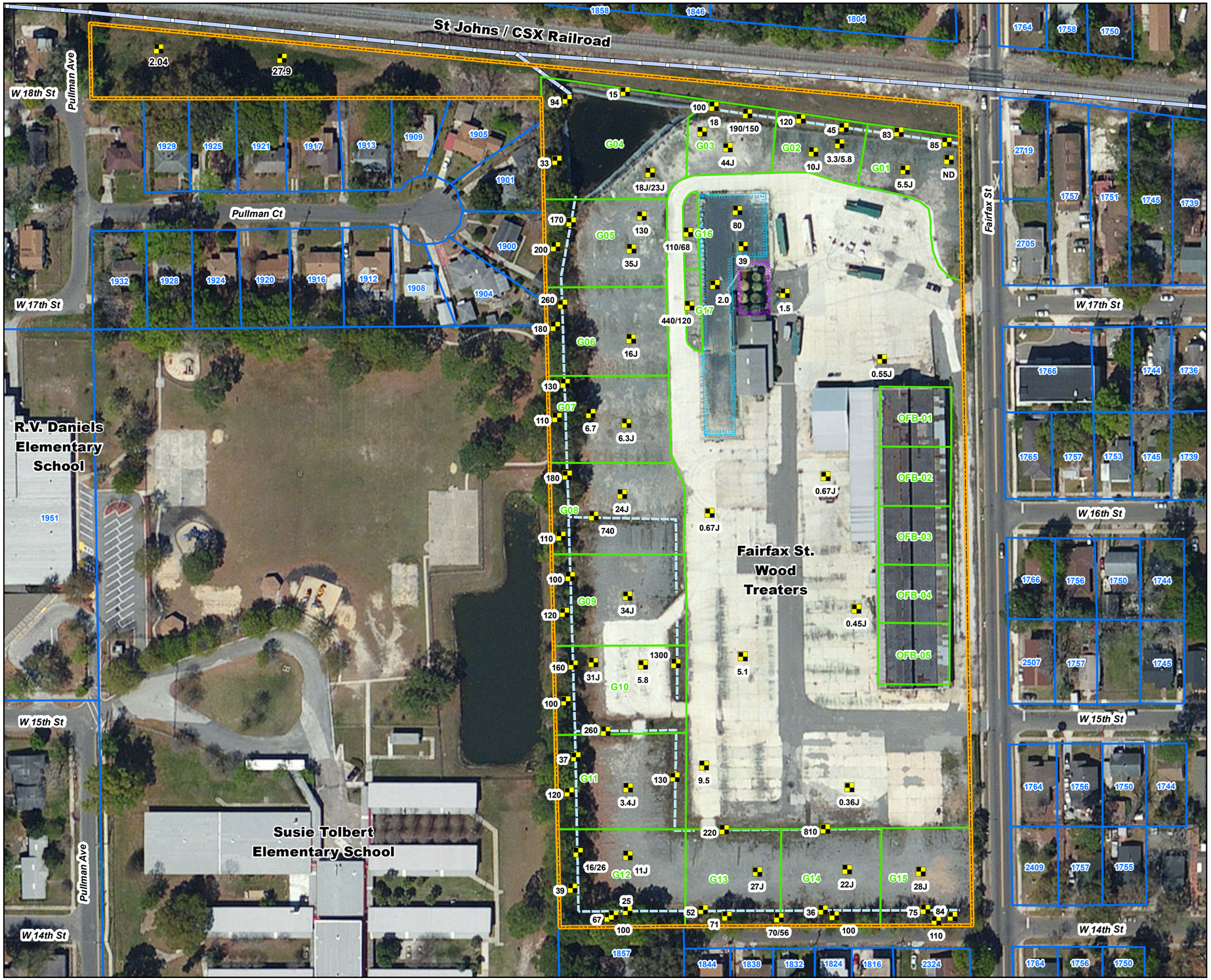

Legend

On-Site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120
Feet

United States
Environmental Protection Agency

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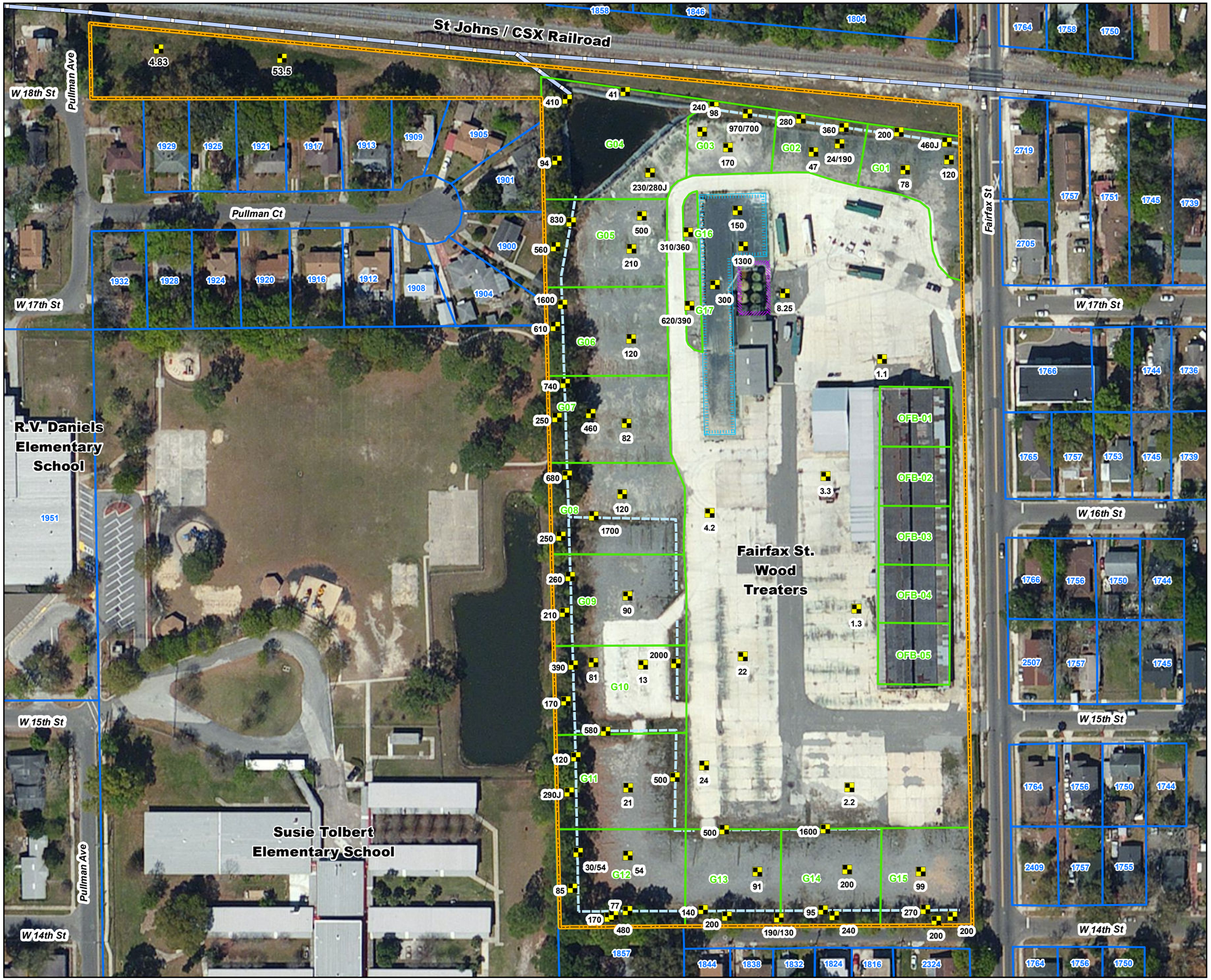
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 15A
RISK AREA - ON-SITE
ARSENIC IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH



Legend

- On-Site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

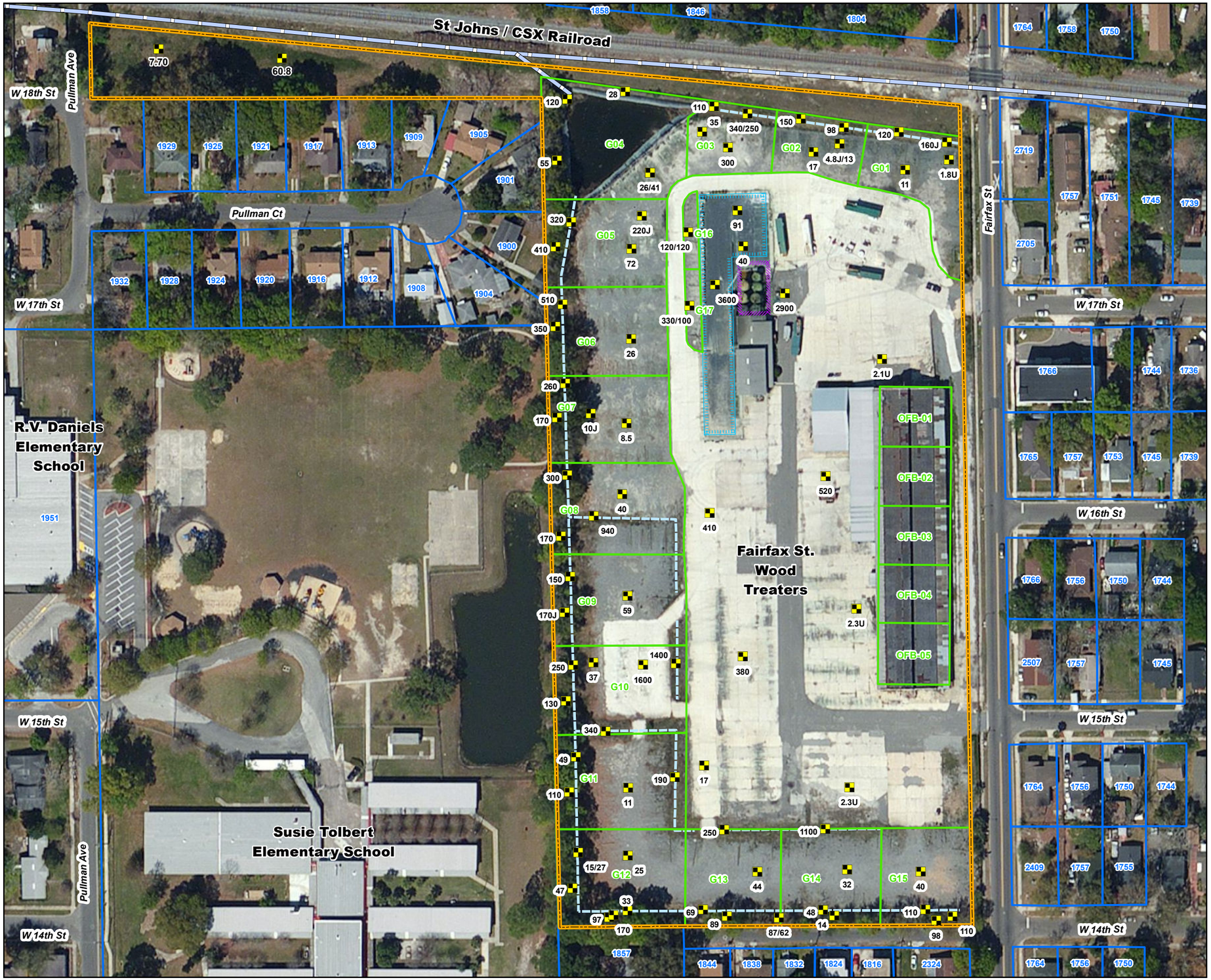
0 60 120
Feet

United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 15B
RISK AREA - ON-SITE
CHROMIUM IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH



Legend

On-Site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120
Feet

United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 15C
RISK AREA - ON-SITE
COPPER IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH

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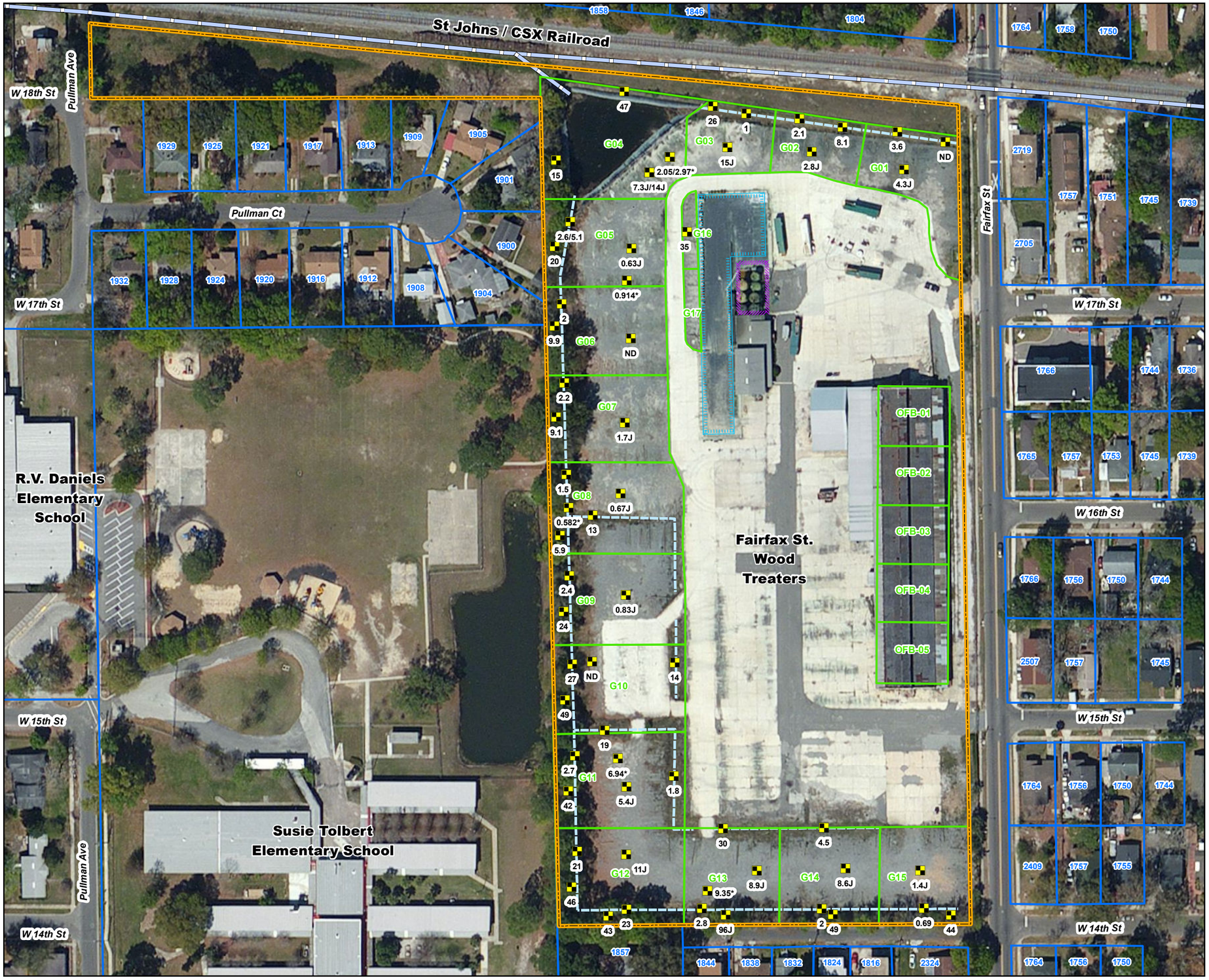

Legend

On-site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building
* - Sample collected from 12 to 24 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 16A
RISK AREA - ON-SITE
ARSENIC IN SOIL (18 TO 24 INCHES BLS)

TETRA TECH

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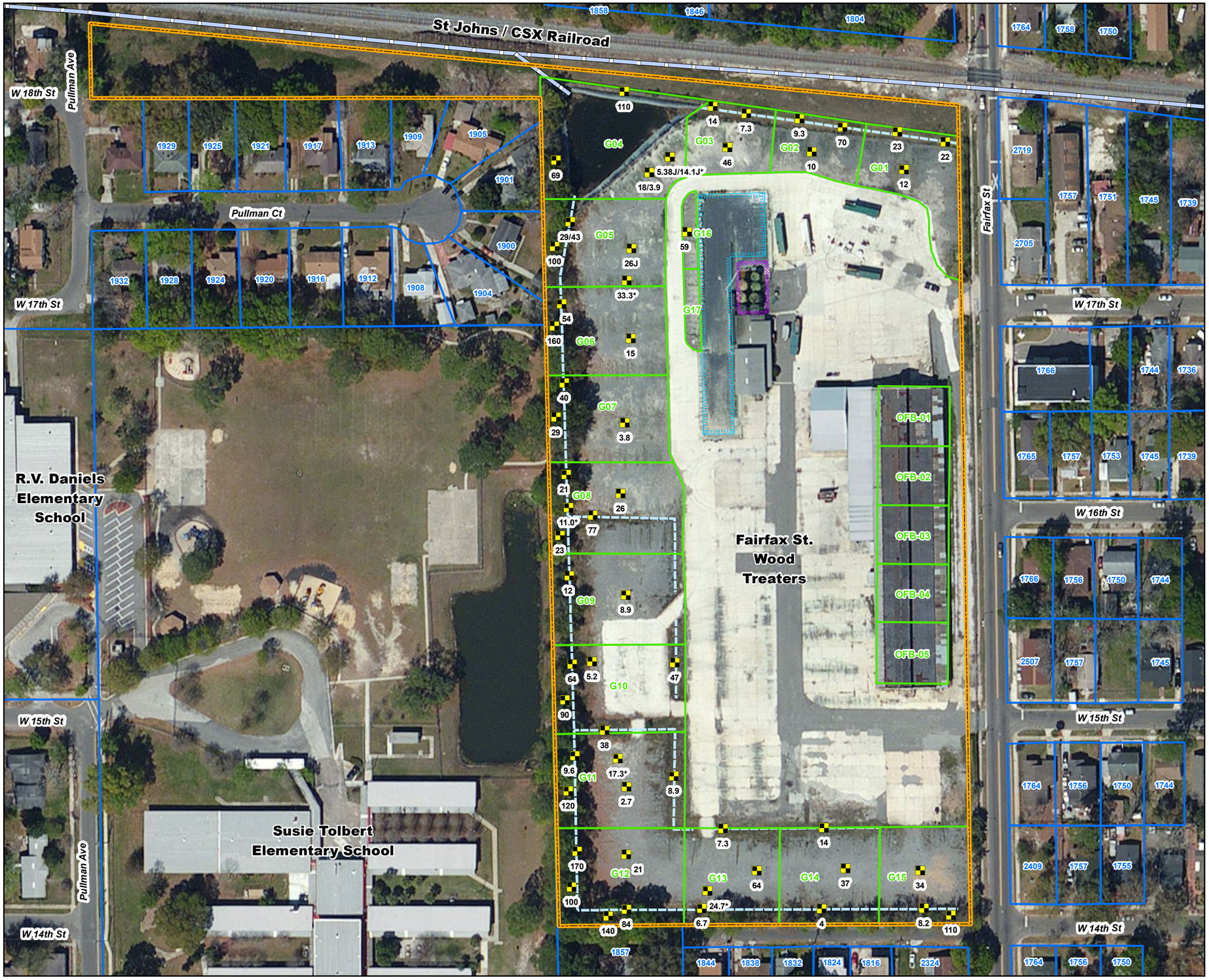

Legend

On-site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building
* - Sample collected from 12 to 24 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120
Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 16B
RISK AREA - ON-SITE
CHROMIUM IN SOIL (18 TO 24 INCHES BLS)

TETRA TECH

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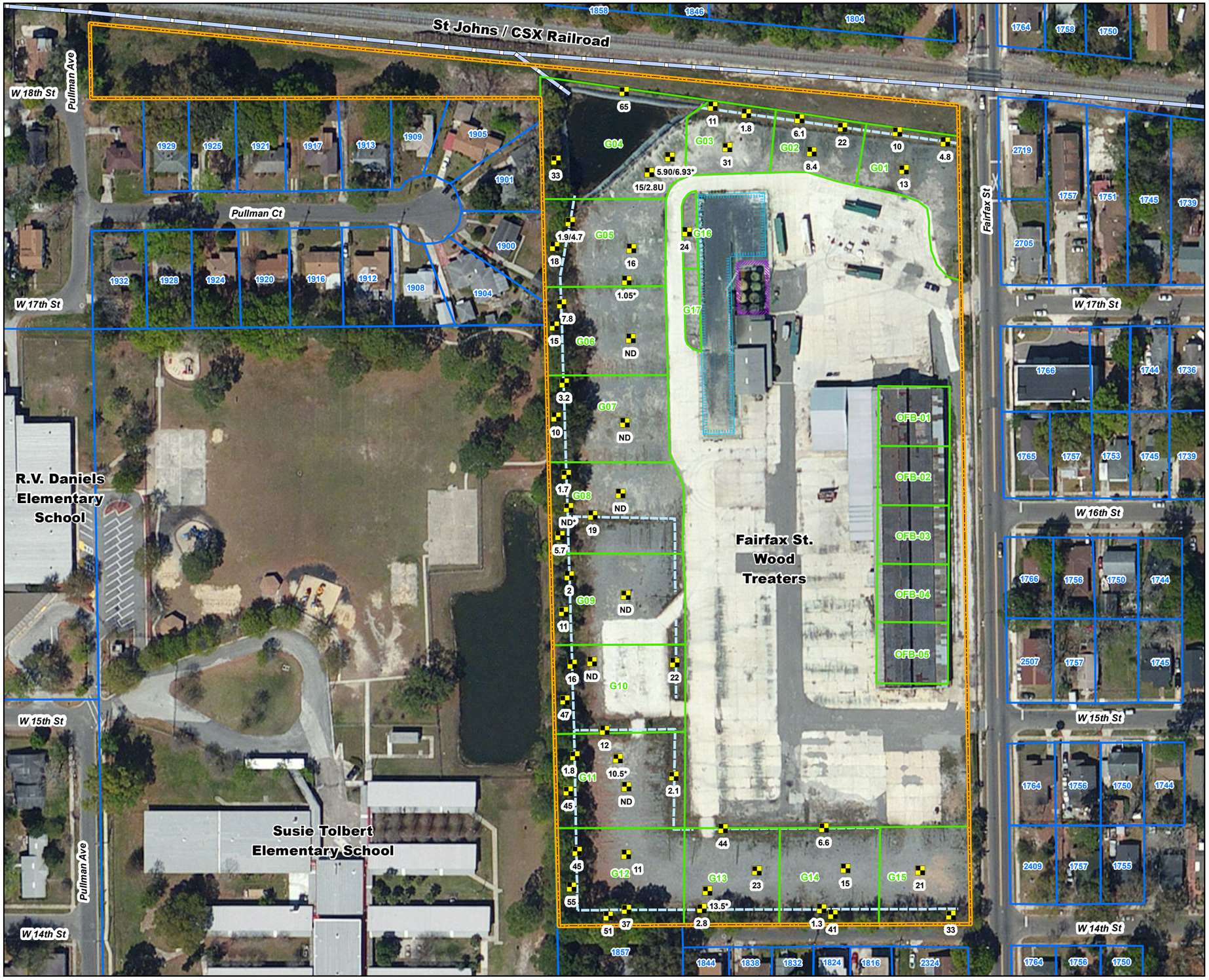


Legend

On-site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building
* - Sample collected from 12 to 24 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

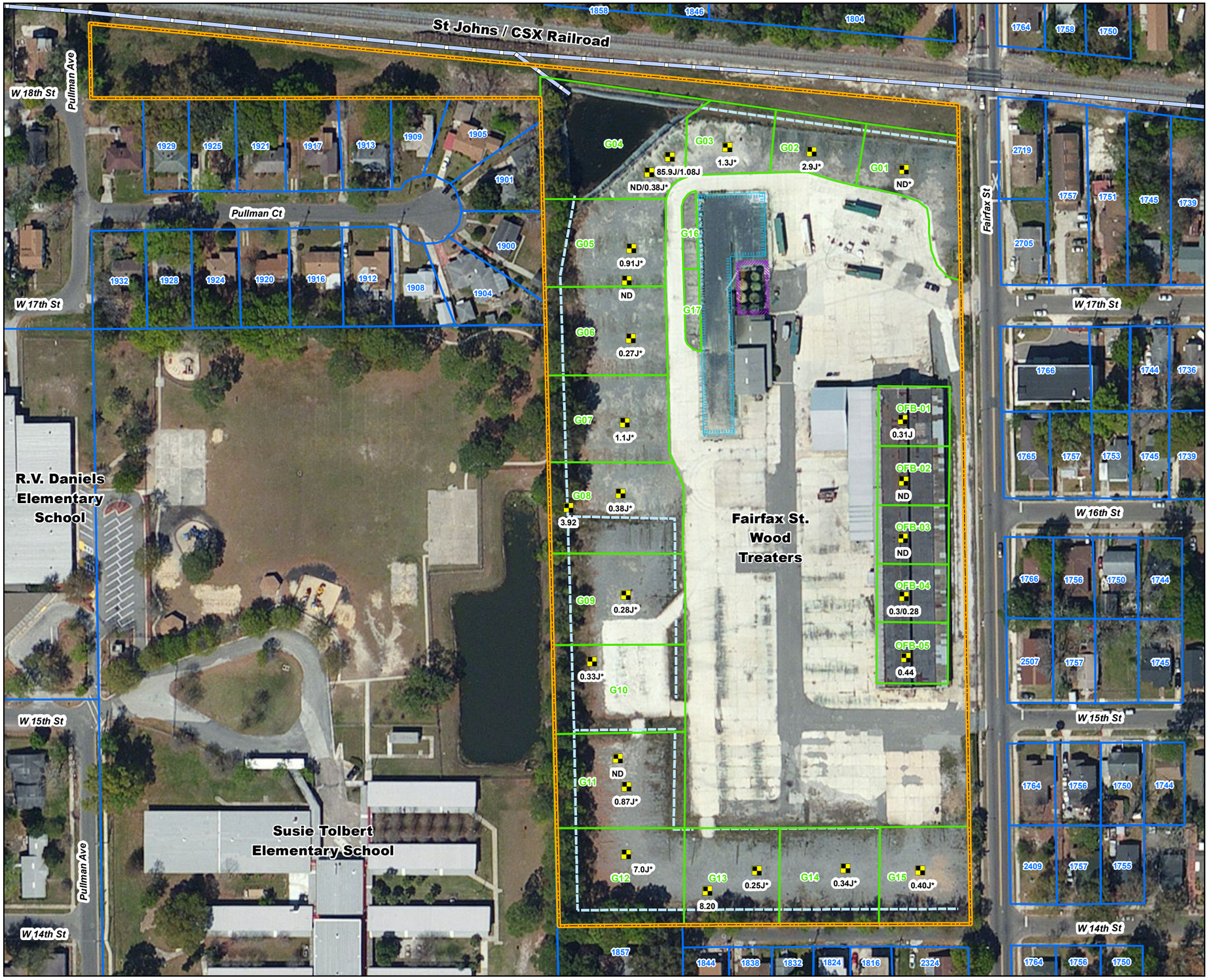
0 60 120
Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 16C
RISK AREA - ON-SITE
COPPER IN SOIL (18 TO 24 INCHES BLS)

TETRA TECH



Legend

On-Site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building
* - Sample collected from 36 to 42 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

United States Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 17A
RISK AREA - ON-SITE
ARSENIC IN SOIL
(24 TO 36 INCHES AND 36 TO 42 INCHES BLS)

TETRA TECH

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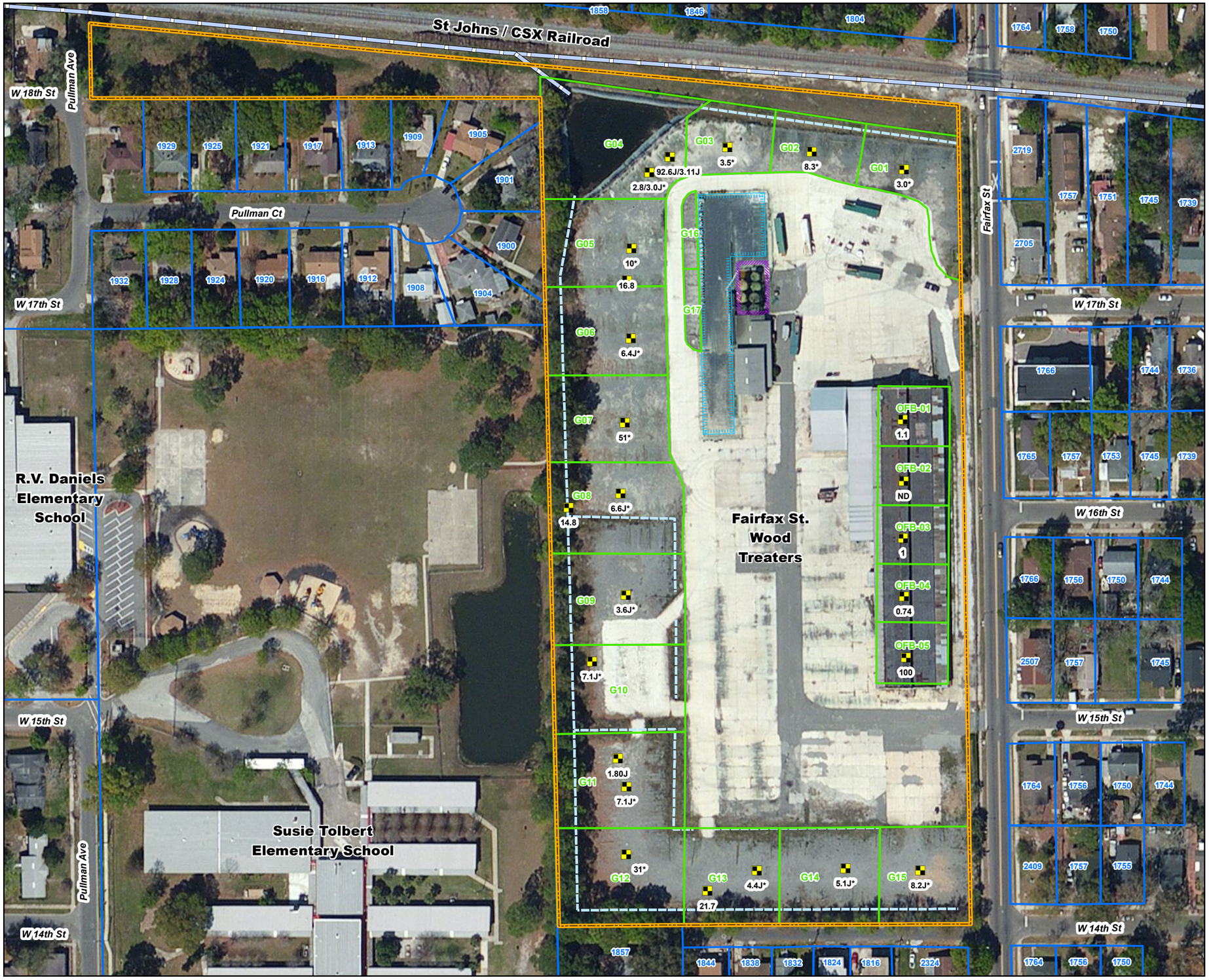


Legend

On-Site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building
* - Sample collected from 36 to 42 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

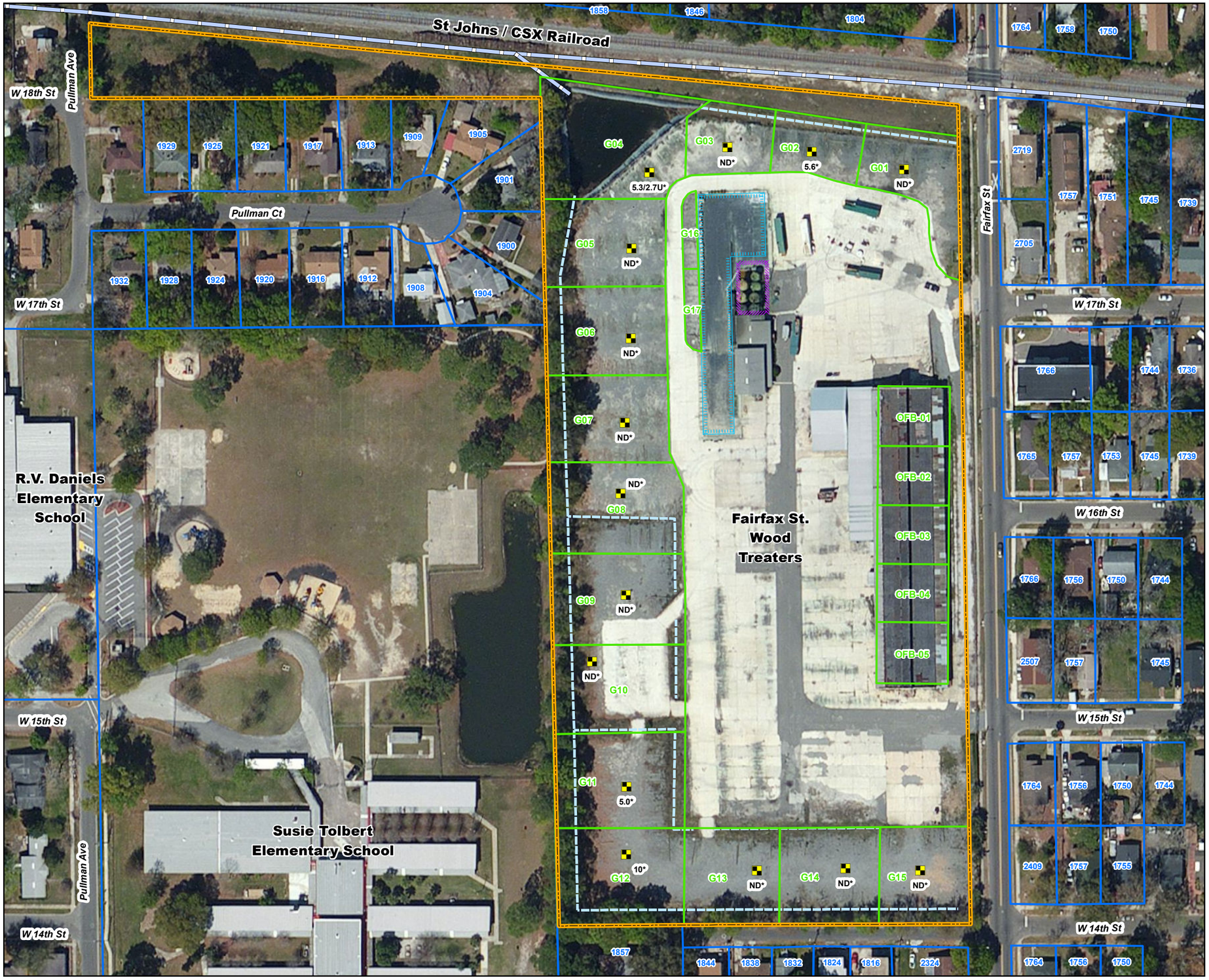
0 60 120
Feet

United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 17B
RISK AREA - ON-SITE
CHROMIUM IN SOIL
(24 TO 36 INCHES AND 36 TO 42 INCHES BLS)

TETRA TECH



Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building
* - Sample collected from 36 to 42 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 17C
RISK AREA - ON-SITE
COPPER IN SOIL
(24 TO 36 INCHES AND 36 TO 42 INCHES BLS)

TETRA TECH

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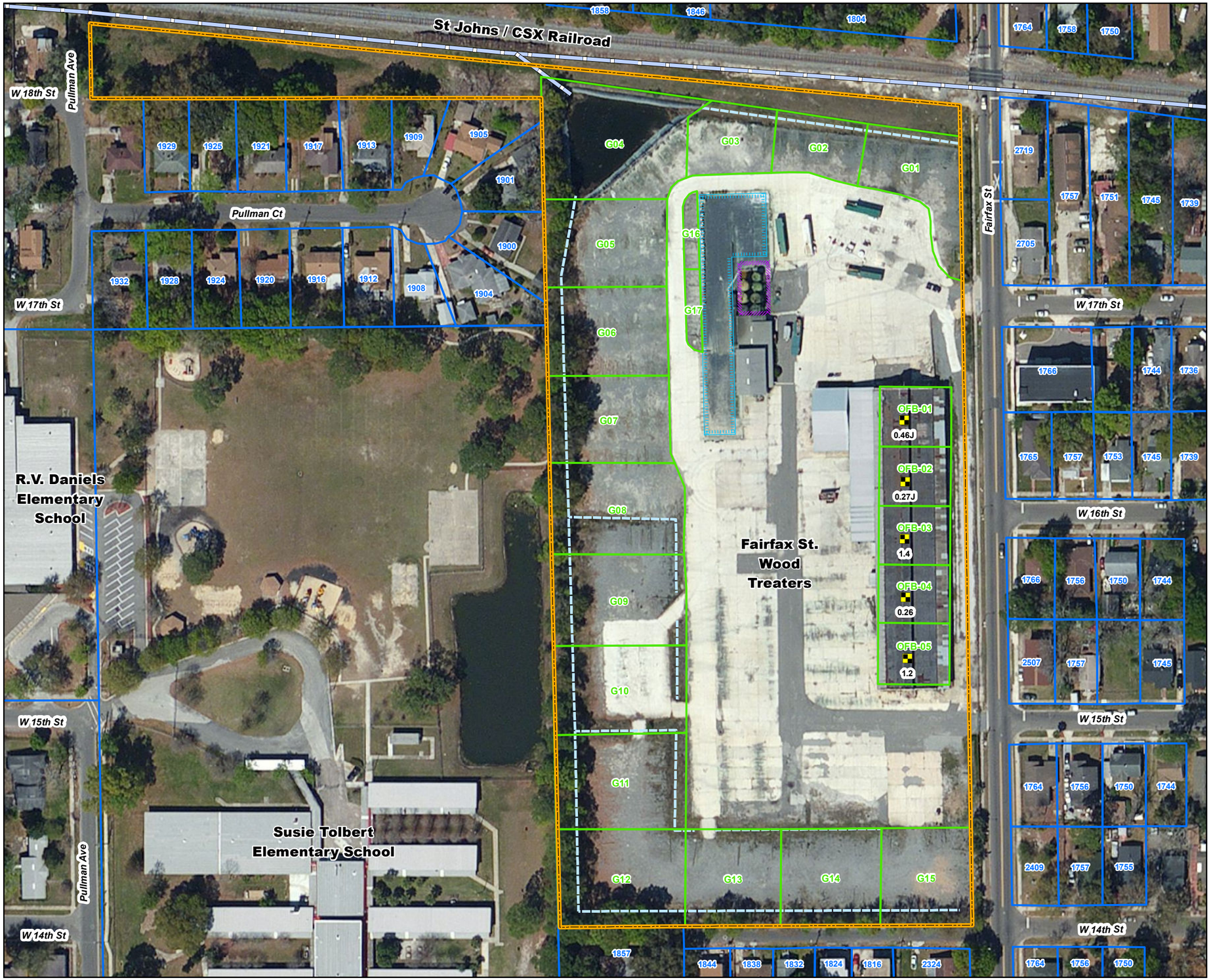

Legend

On-site Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120 Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 18A
RISK AREA - ON-SITE
ARSENIC IN SOIL (60 TO 72 INCHES BLS)

TETRA TECH

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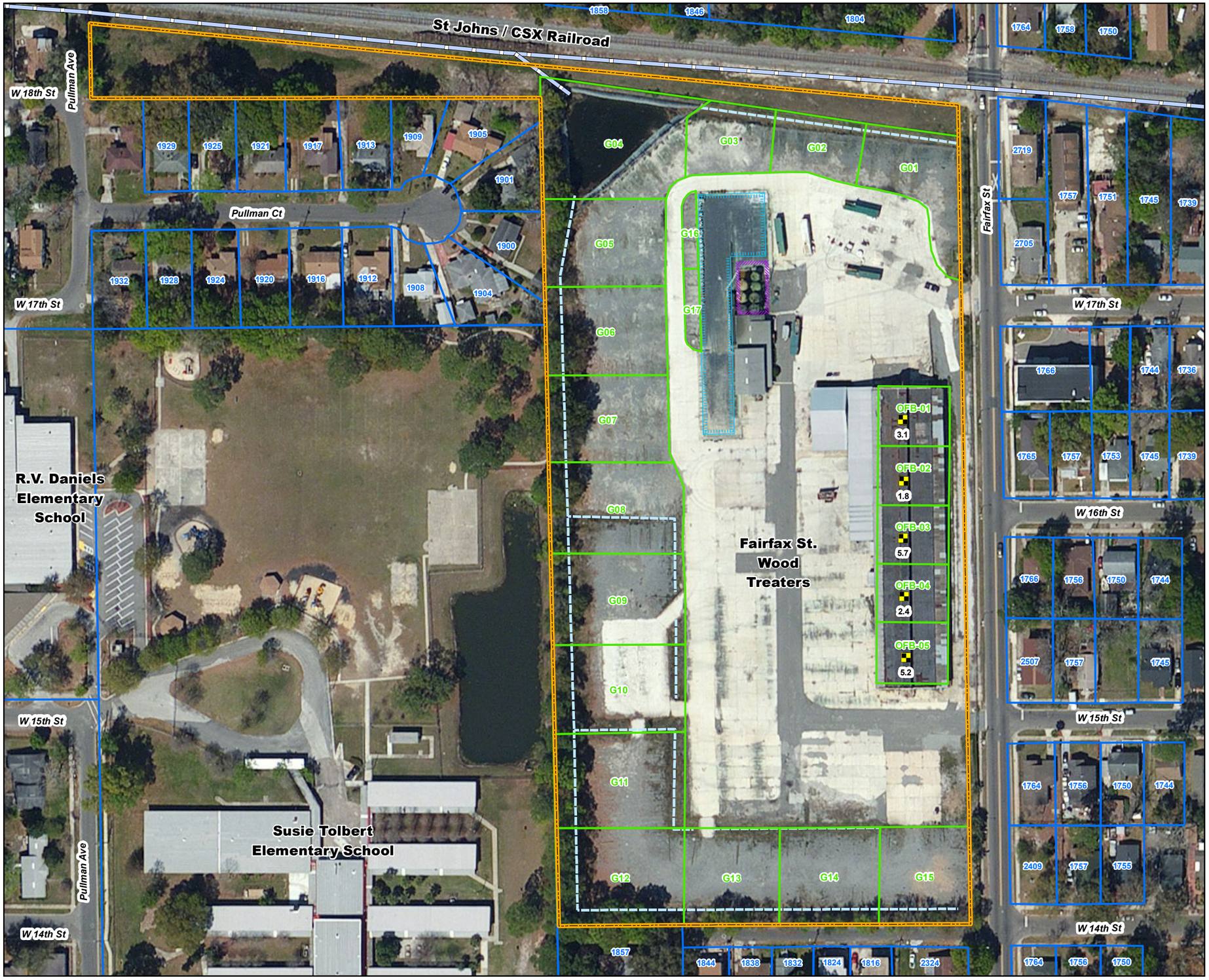

Legend

On-site Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120 Feet

United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 18B
RISK AREA - ON-SITE
CHROMIUM IN SOIL (60 TO 72 INCHES BLS)

TETRA TECH

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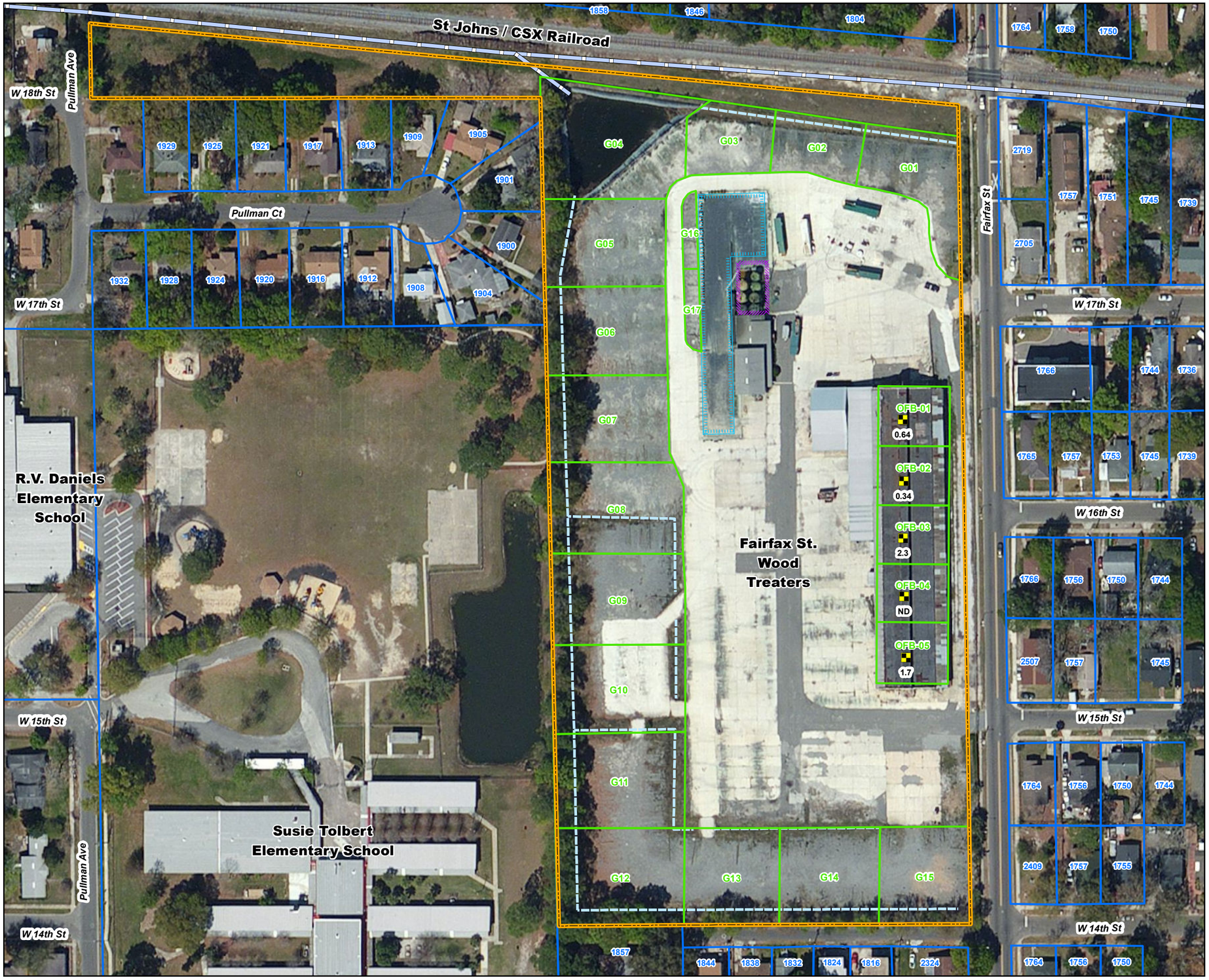

Legend

On-site Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Sampling Grid
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Drip Pad
- Former Tank Farm and Secondary Containment

Notes:
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
G - Grid
OFB - Old Feed Building

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120 Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 18C
RISK AREA - ON-SITE
COPPER IN SOIL (60 TO 72 INCHES BLS)

TETRA TECH

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Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Moncrief Creek

Risk Area

School

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
* - Sample collected at 6 to 12 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120
Feet

United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 19A
RISK AREA - SCHOOL
ARSENIC IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH

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Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Moncrief Creek

Risk Area

School

Notes:
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
* - Sample collected from 18 to 24 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 19B
RISK AREA - SCHOOL
ARSENIC IN SOIL
(18 TO 24 INCHES BLS)

TETRA TECH

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Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Risk Area

Residential North

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

United States
Environmental Protection Agency

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DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 20A
RISK AREA - RESIDENTIAL NORTH
ARSENIC IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH

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Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Risk Area

Residential North

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120
Feet

United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 20B
RISK AREA - RESIDENTIAL NORTH
ARSENIC IN SOIL (18 TO 24 INCHES BLS)

TETRA TECH

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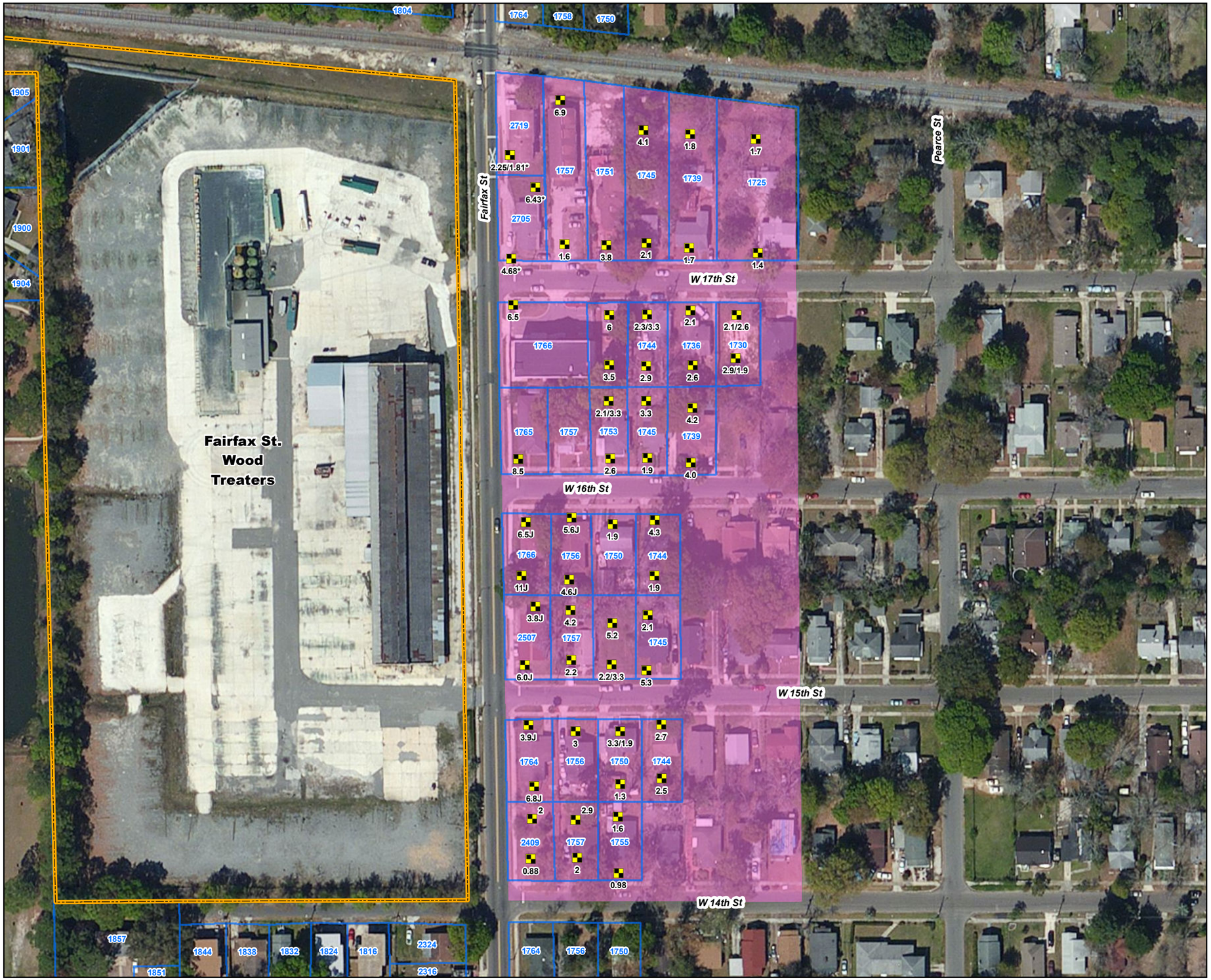

Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Risk Area

Residential East

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
* - Sample collected from 6 to 12 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 60 120 Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 21A
RISK AREA - RESIDENTIAL EAST
ARSENIC IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH

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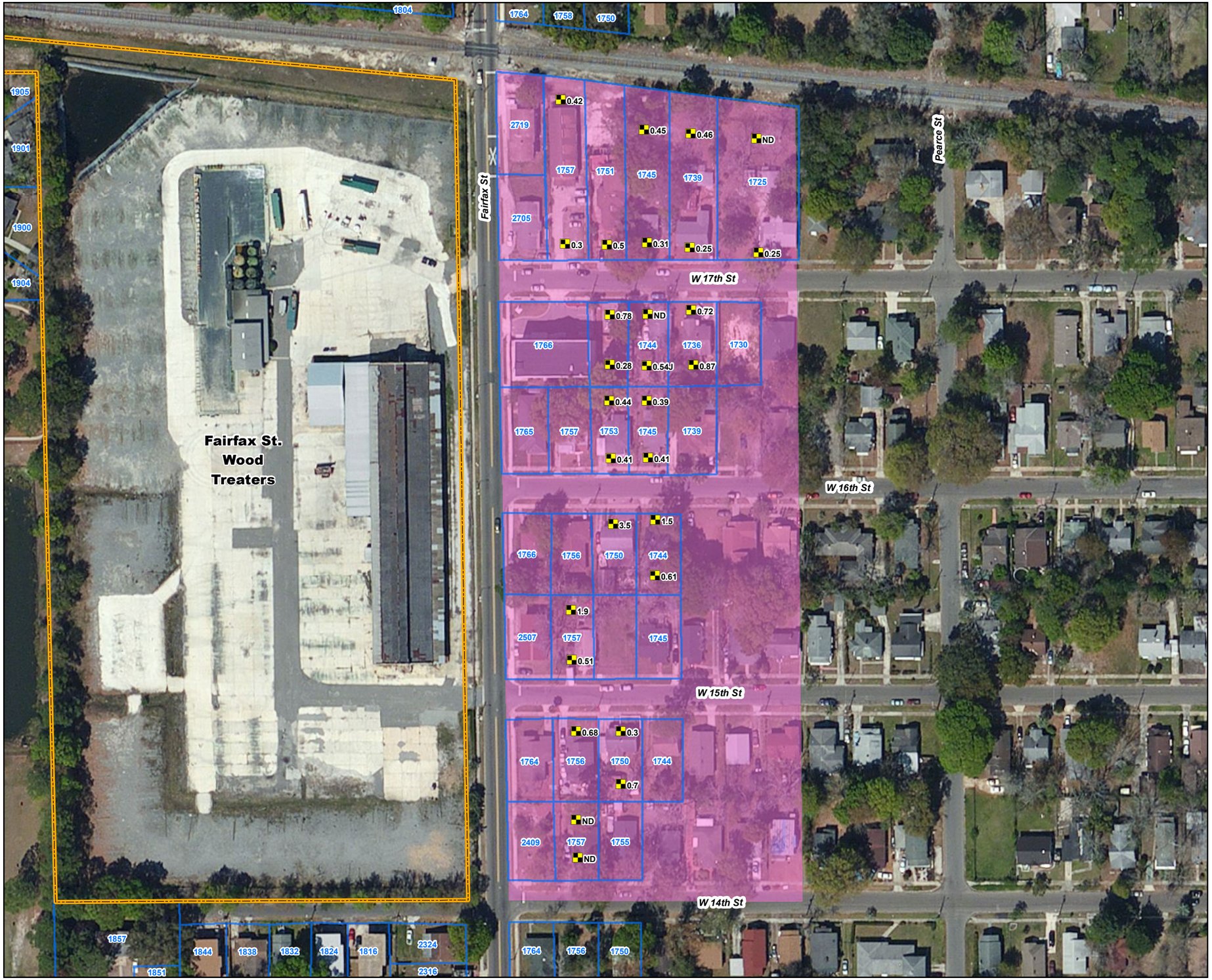

Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Risk Area

Residential East

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 60 120
Feet

United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 21B
RISK AREA - RESIDENTIAL EAST
ARSENIC IN SOIL (18 TO 24 INCHES BLS)

TETRA TECH

Path: S:\CADD\19017\0030\134001\mxd\21B_FAIRFAX_RI_RISKAREA_EAST_SOIL_12_24_11x17.mxd

Legend

- Off-site Soil Sampling Location

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels

Risk Area

- Residential South

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
* - Sample collected from 6 to 12 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N
W E
S

0 40 80
Feet

United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 22A
RISK AREA - RESIDENTIAL SOUTH
ARSENIC IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH

Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Risk Area

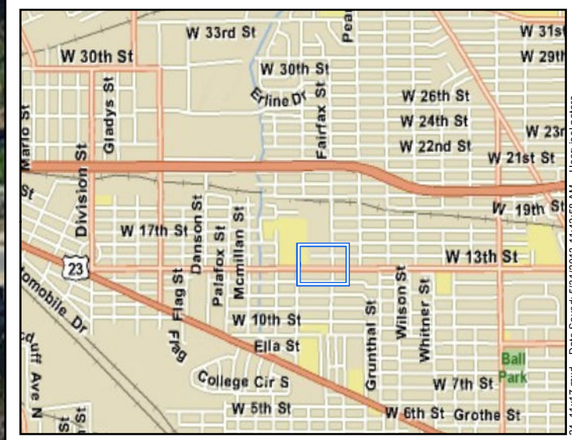
Residential South

Notes:
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

N W E S

0 40 80 Feet



United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 22B
RISK AREA - RESIDENTIAL SOUTH
ARSENIC IN SOIL (18 TO 24 INCHES BLS)

TETRA TECH

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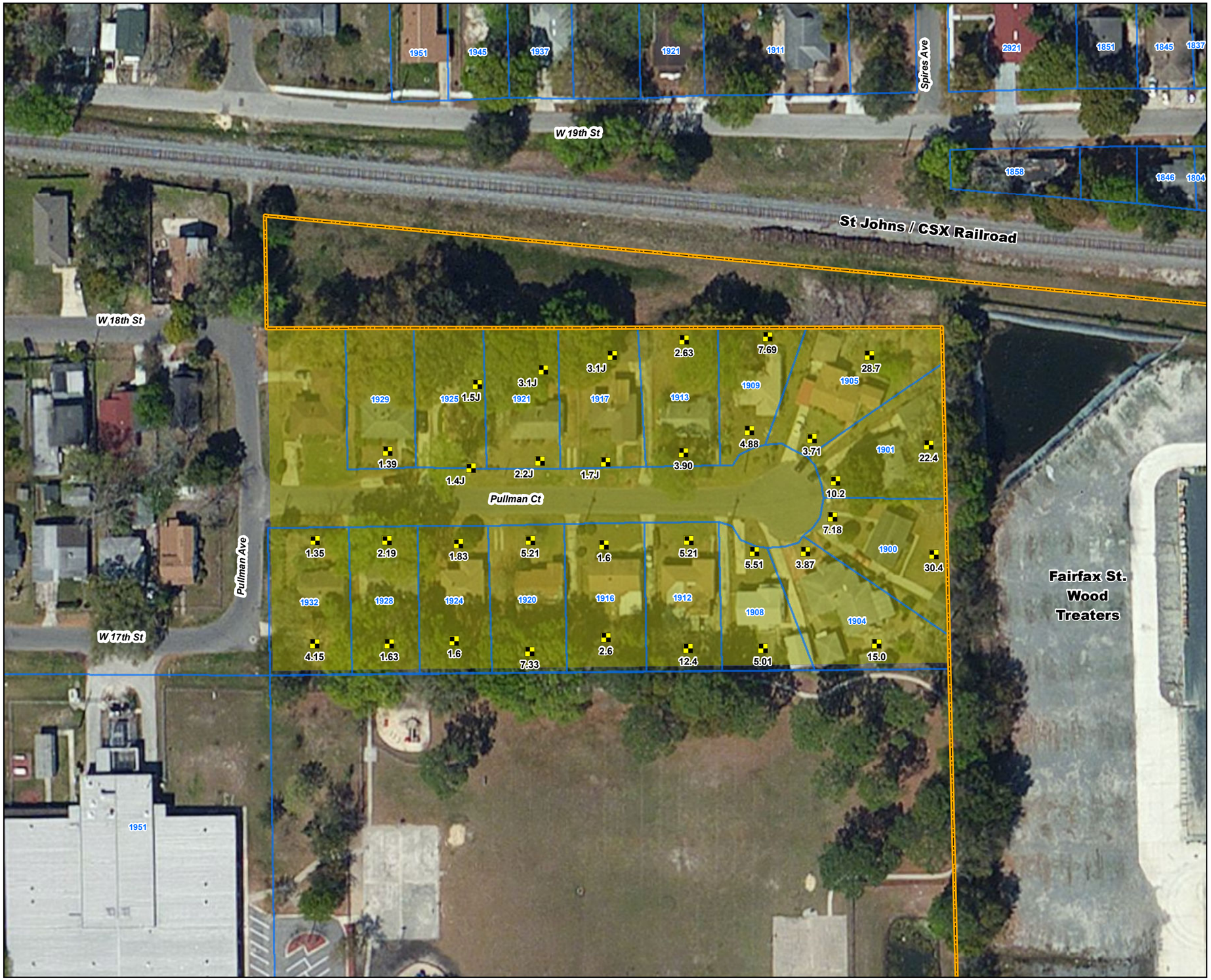

Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Risk Area

Residential West

N
W E
S

0 40 80
Feet

Notes:
J - Estimated Concentration
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface

The western portion of the FSWT property is included in the Residential West Risk Area because it is not fenced, meaning residents along Pullman Court have access to it, and no site operations occurred there.

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 23A
RISK AREA - RESIDENTIAL WEST
ARSENIC IN SOIL (0 TO 6 INCHES BLS)

TETRA TECH

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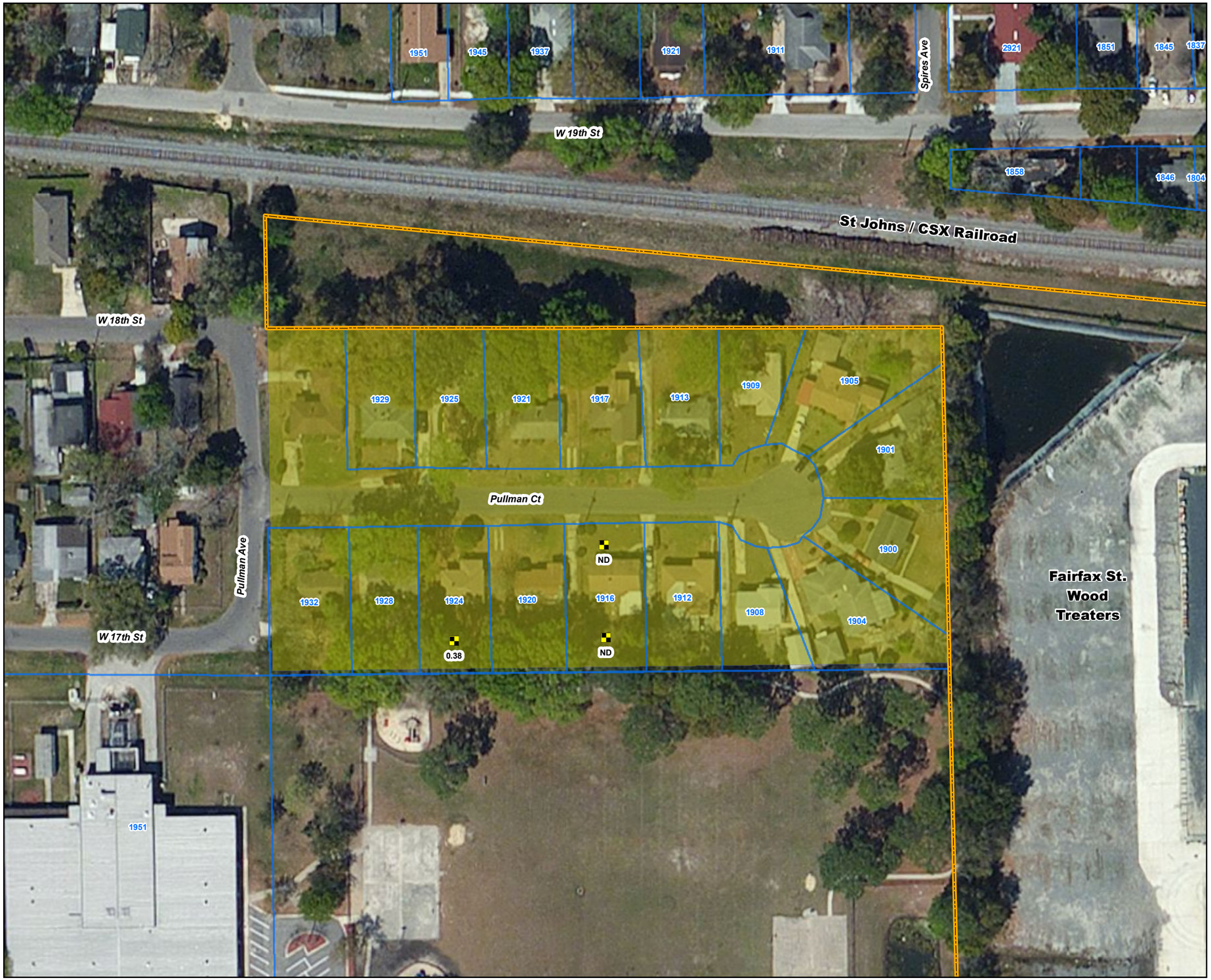

Legend

Off-site Soil Sampling Location

Map Features

Fairfax St. Wood Treaters Property Boundary

Duval County Parcels

Risk Area

Residential West

N
W E
S

0 40 80
Feet

Notes:
ND - Not Detected
mg/kg - Milligrams per Kilogram
bls - Below Land Surface

The western portion of the FSWT property is included in the Residential West Risk Area because it is not fenced, meaning residents along Pullman Court have access to it, and no site operations occurred there.

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 23B
RISK AREA - RESIDENTIAL WEST
ARSENIC IN SOIL (18 TO 24 INCHES BLS)

TETRA TECH

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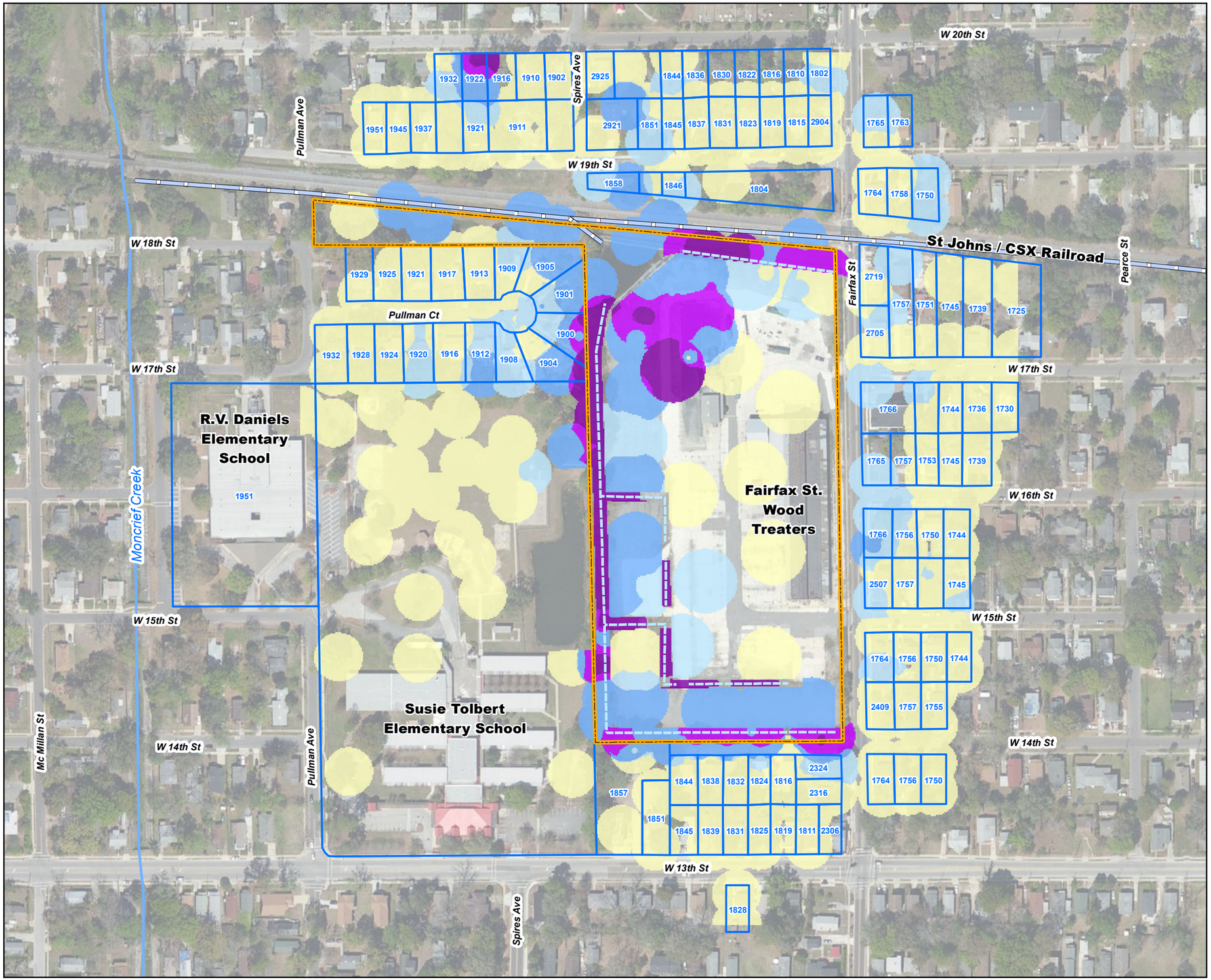

Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek
- ND - 5 mg/kg
- 5 - 10 mg/kg
- 10 - 50 mg/kg
- 50 - 100 mg/kg
- > 100 mg/kg

Notes:
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
See reference 69 for information regarding model used to create this figure.
* - October 2012 Removal Action confirmation samples were collected from 6 to 12 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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Feet

United States Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 24A
CONCEPTUAL SITE MODEL-
ARSENIC CONCENTRATIONS IN SURFACE SOIL
(0 TO 6 INCHES BLS*)

TETRA TECH

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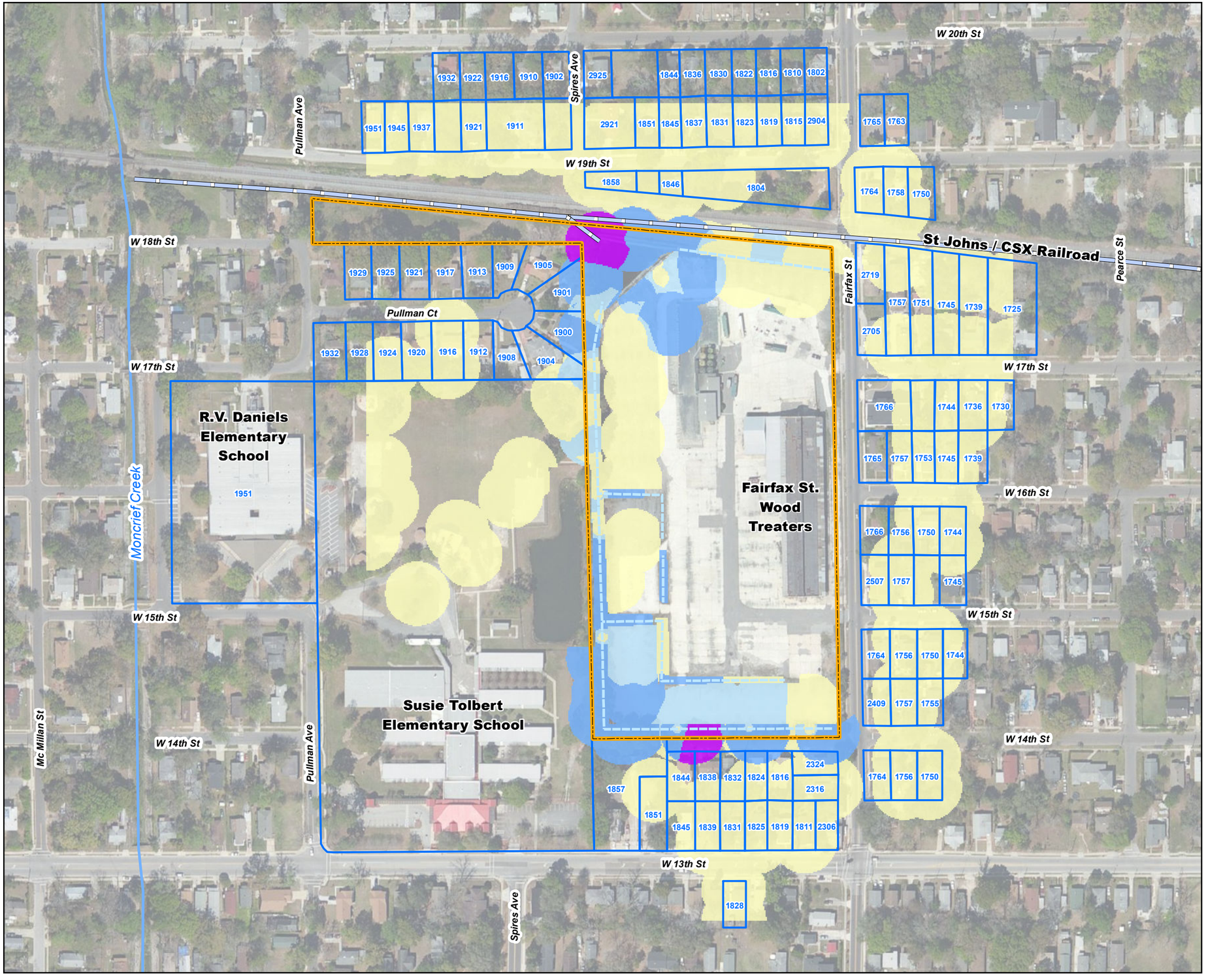

Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek
- ND - 5 mg/kg
- 5 - 10 mg/kg
- 10 - 50 mg/kg
- 50 - 100 mg/kg
- > 100 mg/kg

Notes:
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
See reference 69 for information regarding model used to create this figure.
* - January 2011 Removal Assessment samples were collected from 12 to 24 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 24B
CONCEPTUAL SITE MODEL-
ARSENIC CONCENTRATIONS IN SUBSURFACE SOIL
(18 TO 24 INCHES BLS*)

TETRA TECH

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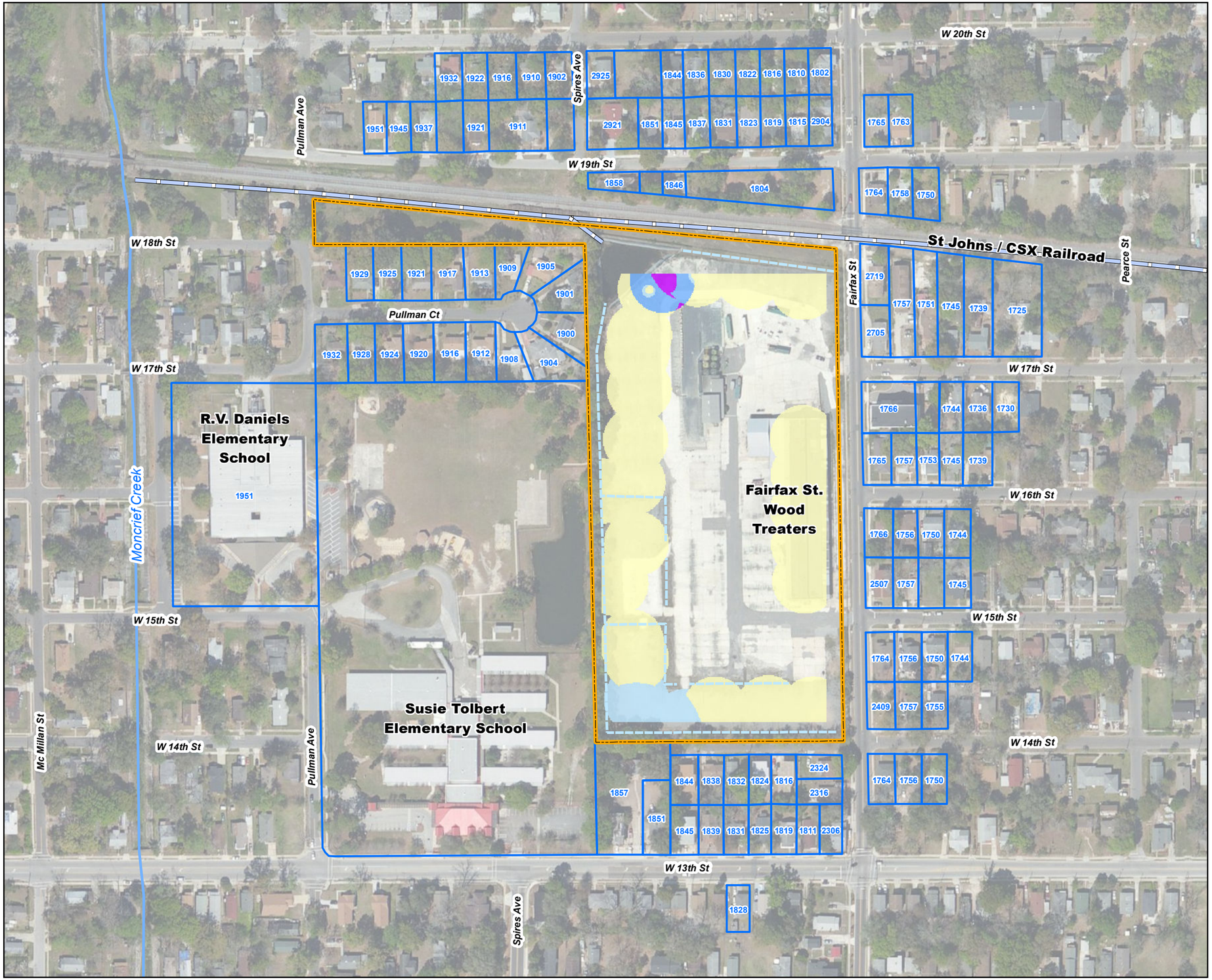

Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek
- ND - 5 mg/kg
- 5 - 10 mg/kg
- 10 - 50 mg/kg
- 50 - 100 mg/kg
- > 100 mg/kg

Notes:

mg/kg - Milligrams per Kilogram
bls - Below Land Surface
See reference 69 for information regarding model used to create this figure.
* - January 2011 Removal Assessment and 2012-2013 Remedial Investigation samples were collected from 24-36 inches bls and July 2011 Removal Confirmation and Residential Sampling samples were collected from 36 to 42 inches bls

Source:

Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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United States Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 24C
CONCEPTUAL SITE MODEL-
ARSENIC CONCENTRATIONS IN SUBSURFACE SOIL
(24 TO 42 INCHES BLS*)

TETRA TECH

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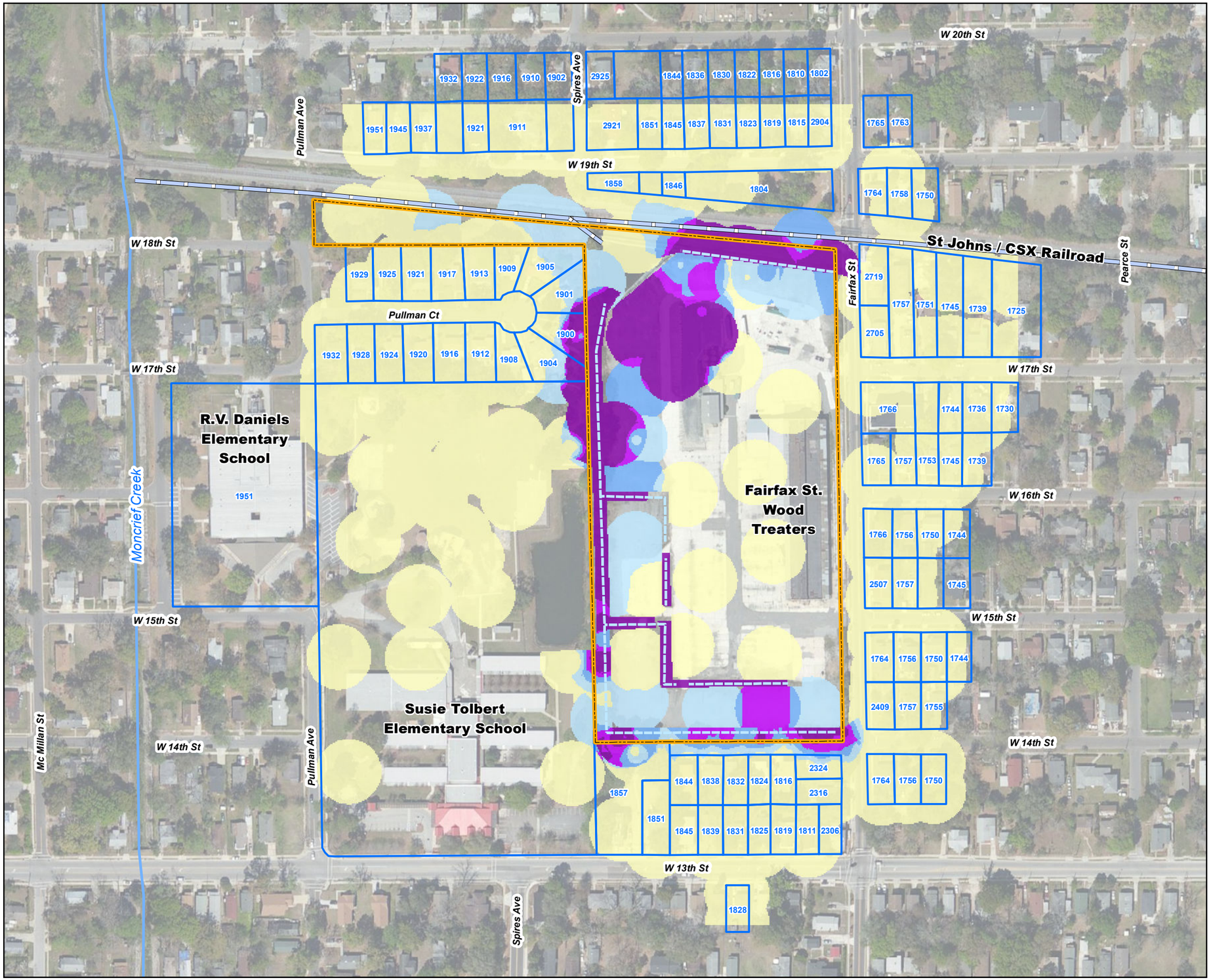

Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek
- ND - 50 mg/kg
- 50 - 100 mg/kg
- 100 - 150 mg/kg
- 150 - 200 mg/kg
- >200 mg/kg

Notes:
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
See reference 69 for information regarding model used to create this figure.
* - October 2012 Removal Action confirmation samples were collected from 6 to 12 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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United States
Environmental Protection Agency

FAIRFAX ST. WOOD TREATERS
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 25
CONCEPTUAL SITE MODEL - CHROMIUM CONCENTRATIONS IN SURFACE SOIL
(0 TO 6 INCHES BLS*)

TETRA TECH

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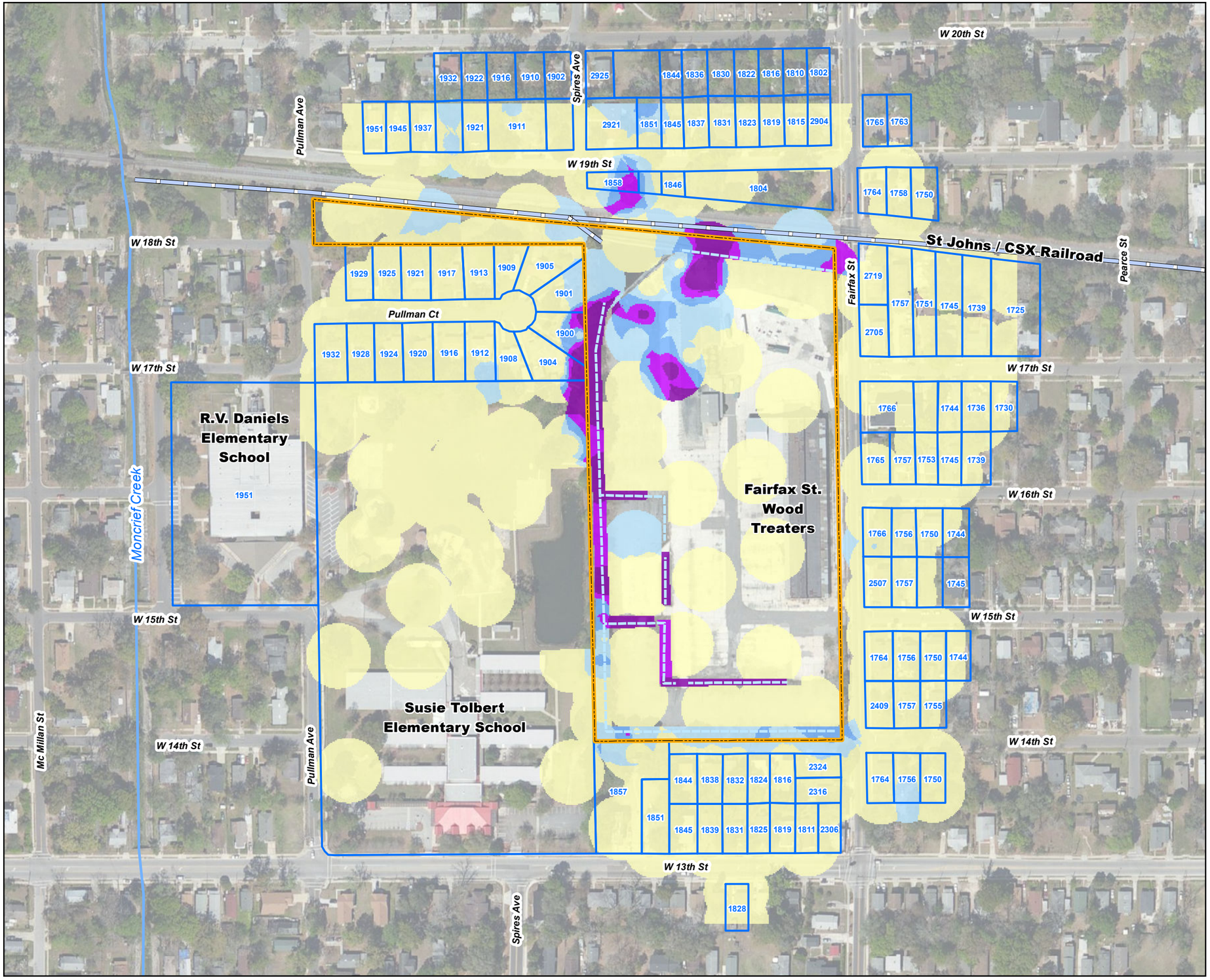

Legend

Map Features

- Fairfax St. Wood Treaters Property Boundary
- Duval County Parcels
- Drainage Ditch
- Drainage Pipe
- Moncrief Creek
- ND - 50 mg/kg
- 50 - 100 mg/kg
- 100 - 150 mg/kg
- 150 - 200 mg/kg
- >200 mg/kg

Notes:
mg/kg - Milligrams per Kilogram
bls - Below Land Surface
See reference 69 for information regarding model used to create this figure.
* - October 2012 Removal Action confirmation samples were collected from 6 to 12 inches bls

Source:
Bing Maps Aerial Imagery Service for ArcGIS, 2010.
The Sanborn Map Company, inc, 1/08.
Parcel Boundaries - Duval County Tax Assessor's Office.

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United States
Environmental Protection Agency

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JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-003-0134

FIGURE 26
CONCEPTUAL SITE MODEL - COPPER CONCENTRATIONS IN SURFACE SOIL (0 TO 6 INCHES BLS*)

TETRA TECH

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APPENDIX B

RI ANALYTICAL RESULTS TABLES

(46 Pages)

TABLE

TABLE 1
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
BACKGROUND SOIL ANALYTICAL RESULTS

Analyte	FDEP SCTL Residential Soil	Grunthal Park (WTBG03) WT-BG-03-SF	Grunthal Park (WTBG03) WT-BG-03-SB	Johnson Middle School (WTBG04) WT-BG-04-SF	Johnson Middle School (WTBG04) WT-BG-04-SB
Metals (mg/kg)					
Arsenic	2.1	0.69 J-	0.42 J-	0.35	0.25 U
Chromium	210[a]	3.7	1.0	2.5	0.66
Chromium VI	210	5.7 U	5.7 U	4.3 U	3.8 U
Chromium III	110,000	3.7	1.0	2.5	0.66
Copper	150	6.2	0.99 U	3.4	0.99 U

Analyte	FDEP SCTL Residential Soil	Johnson Middle School (WTBG05) WT-BG-05-SF	Johnson Middle School (WTBG05) WT-BG-05-SB	RV Daniels Elementary School (WTBG06) WT-BG-06-SF	RV Daniels Elementary School (WTBG06) WT-BG-06-SB
Metals (mg/kg)					
Arsenic	2.1	0.29	0.26	1.0 J-	0.25 UJ
Chromium	210[a]	2.0	2.5	5.6	2.9
Chromium VI	210	3.9 U	3.9 U	NA	NA
Chromium III	110,000	2.0	2.5	NC	NC
Copper	150	2.6	2.6	8.6	11

Analyte	FDEP SCTL Residential Soil	West 11th Street (WTBG07) WT-BG-07-SF	West 11th Street (WTBG07) WT-BG-07-SB	1620 West 16th Street (WTBG08) WT-BG-08-SF	1620 West 16th Street (WTBG08) WT-BG-08-SB
Metals (mg/kg)					
Arsenic	2.1	0.53 J-	0.45 J-	0.79 J-	1.2 J-
Chromium	210[a]	3.8	3.2	2.8	1.2
Chromium VI	210	5.6 U	5.3 U	6.2 U	5.6 U
Chromium III	110,000	3.8	3.2	2.8	1.2
Copper	150	4.3	2.4	7.0	0.98 U

TABLE 1
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
BACKGROUND SOIL ANALYTICAL RESULTS

Notes:

[a]	Value listed is for total chromium.
BG	Background
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
FDEP	Florida Department of Environmental Protection
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NC	Not calculable
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
SB	Subsurface soil (18 to 24 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters

TABLE 2
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
ON-SITE SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		Grid 01			
			Perimeter Drainage Ditch		Perimeter Fenceline	
	SF	SB	WT-G01-DD-SF	WT-G01-DD-SB-R	WT-G01-PF-SF	WT-G01-PF-SB-R
Metals (mg/kg)						
Arsenic	2.36	2.1	85	1.0 U	83	3.6
Chromium	210[a]	210[a]	460 J-	22	200	23
Chromium VI	210	210	5.5 U	NA	NA	NA
Chromium III	110,000	110,000	460	NC	NC	NC
Copper	150	150	160 J	4.8	120	10

Analyte	Screening Value*		Grid 02			
			Perimeter Drainage Ditch		Perimeter Fenceline	
	SF	SB	WT-G02-DD-SF	WT-G02-DD-SB-R	WT-G02-PF-SF	WT-G02-PF-SB-R
Metals (mg/kg)						
Arsenic	2.36	2.1	45	8.1	120	2.1
Chromium	210[a]	210[a]	360	70	280	9.3
Copper	150	150	98	22	150	6.1

Analyte	Screening Value*		Grid 03				
			Perimeter Drainage Ditch			Perimeter Fenceline	
	SF	SB	WT-G03-DD-SF-R	WT-G03-DD-SF-DUP-R	WT-G03-DD-SB	WT-G03-PF-SF-R	WT-G03-PF-SB
Metals (mg/kg)							
Arsenic	2.36	2.1	190	150	1.0	100	26
Chromium	210[a]	210[a]	970	700	7.3	240	14
Chromium VI	210	210	38 J	17 J	NA	NA	NA
Chromium III	110,000	110,000	932	683	NC	NC	NC
Copper	150	150	340	250	1.8	110	11

Analyte	Screening Value*		Grid 04			
			Perimeter Fenceline (East/West)		Perimeter Fenceline (North/South)	
	SF	SB	WT-G04-PF-01-SF-R	WT-G04-PF-01-SB	WT-G04-PF-02-SF-R	WT-G04-PF-02-SB-R
Metals (mg/kg)						
Arsenic	2.36	2.1	15	47	33	15
Chromium	210[a]	210[a]	41	110	94	69
Copper	150	150	28	65	55	33

TABLE 2
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
ON-SITE SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		Grid 05				
			Perimeter Drainage Ditch			Perimeter Fenceline	
	SF	SB	WT-G05-DD-SF	WT-G05-DD-SB-R	WT-G05-DD-SB-DUP-R	WT-G05-PF-SF	WT-G05-PF-SB
Metals (mg/kg)							
Arsenic	2.36	2.1	170	2.6 J	5.1 J	200	20
Chromium	210[a]	210[a]	830	29	43	560	100
Chromium VI	210	210	6.0 U	NA	NA	NA	NA
Chromium III	110,000	110,000	830	NC	NC	NC	NC
Copper	150	150	320	1.9 J	4.7 J	410	18

Analyte	Screening Value*		Grid 06			
			Perimeter Drainage Ditch		Perimeter Fenceline	
	SF	SB	WT-G06-DD-SF-R	WT-G06-DD-SB-R	WT-G06-PF-SF	WT-G06-PF-SB-R
Metals (mg/kg)						
Arsenic	2.36	2.1	260	2.0	180	9.9
Chromium	210[a]	210[a]	1,600	54	610	160
Copper	150	150	510	7.8	350	15

Analyte	Screening Value*		Grid 07			
			Perimeter Drainage Ditch		Perimeter Fenceline	
	SF	SB	WT-G07-DD-SF	WT-G07-DD-SB	WT-G07-PF-SF	WT-G07-PF-SB
Metals (mg/kg)						
Arsenic	2.36	2.1	130	2.2	110	9.1
Chromium	210[a]	210[a]	740	40	250	29
Chromium VI	210	210	5.3 U	NA	NA	NA
Chromium III	110,000	110,000	740	NC	NC	NC
Copper	150	150	260	3.2	170	10

Analyte	Screening Value*		Grid 08					
			Perimeter Drainage Ditch		Secondary Drainage Ditch		Perimeter Fenceline	
	SF	SB	WT-G08-DD-01-SF	WT-G08-DD-01-SB-R	WT-G08-DD-02-SF-R	WT-G08-DD-02-SB	WT-G08-PF-SF	WT-G08-PF-SB-R
Metals (mg/kg)								
Arsenic	2.36	2.1	180	1.5	740	13	110	5.9
Chromium	210[a]	210[a]	680	21	1,700	77	250	23
Copper	150	150	300	1.7	940	19	170	5.7

TABLE 2
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
ON-SITE SOIL ANALYTICAL RESULTS

	Screening Value*		Grid 09			
			Perimeter Drainage Ditch		Perimeter Fenceline	
Analyte	SF	SB	WT-G09-DD-SF-R	WT-G09-DD-SB	WT-G09-PF-SF	WT-G09-PF-SB
Metals (mg/kg)						
Arsenic	2.36	2.1	100	2.4	120	24
Chromium	210[a]	210[a]	260	12	210	28 J-
Chromium VI	210	210	4.6 U	NA	NA	NA
Chromium III	110,000	110,000	260	NC	NC	NC
Copper	150	150	150	2.0	170 J-	11

	Screening Value*		Grid 10			
			Perimeter Drainage Ditch		Secondary Drainage Ditch (East/West)	
Analyte	SF	SB	WT-G10-DD-01-SF	WT-G10-DD-01-SB	WT-G10-DD-02-SF	WT-G10-DD-02-SB
Metals (mg/kg)						
Arsenic	2.36	2.1	160	27	260	19
Chromium	210[a]	210[a]	390	64	580	38
Chromium VI	210	210	NA	NA	5.6 U	NA
Chromium III	110,000	110,000	NC	NC	580	NC
Copper	150	150	250	16	340	12

	Screening Value*		Grid 10			
			Secondary Drainage Ditch (North/South)		Perimeter Fenceline	
Analyte	SF	SB	WT-G10-DD-03-SF	WT-G10-DD-03-SB-R	WT-G10-PF-SF	WT-G10-PF-SB-R
Metals (mg/kg)						
Arsenic	2.36	2.1	1,300	14	100	49
Chromium	210[a]	210[a]	2,000	47	170	90
Copper	150	150	1,400	22	130	47

	Screening Value*		Grid 11					
			Perimeter Drainage Ditch		Secondary Drainage Ditch		Perimeter Fenceline	
Analyte	SF	SB	WT-G11-DD-01-SF	WT-G11-DD-01-SB	WT-G11-DD-02-SF	WT-G11-DD-02-SB-R	WT-G11-PF-SF	WT-G11-PF-SB
Metals (mg/kg)								
Arsenic	2.36	2.1	37	2.7	130	1.8	120	42
Chromium	210[a]	210[a]	120	9.6	500	8.9	290 J+	120
Chromium VI	210	210	5.3 U	NA	5.8 U	NA	NA	NA
Chromium III	110,000	110,000	120	NC	500	NC	NC	NC
Copper	150	150	49	1.8	190	2.1	110	45

TABLE 2
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
ON-SITE SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		Grid 12				
			Perimeter Drainage Ditch (North/South)			Perimeter Drainage Ditch (East/West)	
	SF	SB	WT-G12-DD-01-SF	WT-G12-DD-01-SF-DUP	WT-G12-DD-01-SB	WT-G12-DD-02-SF	WT-G12-DD-02-SB-R
Metals (mg/kg)							
Arsenic	2.36	2.1	16	26	21	25	23
Chromium	210[a]	210[a]	30 J	54 J	170	77	84
Copper	150	150	15 J	27 J	45	33	37

Analyte	Screening Value*		Grid 12			
			Perimeter Fenceline (North/South)		Perimeter Fenceline (East/West)	
	SF	SB	WT-G12-PF-01-SF-R	WT-G12-PF-01-SB	WT-G12-PF-02-SF-R	WT-G12-PF-02-SB
Metals (mg/kg)						
Arsenic	2.36	2.1	39	46	67	43
Chromium	210[a]	210[a]	85	100	170	140
Copper	150	150	47	55	97	51

Analyte	Background Value*		Grid 13					
			Perimeter Drainage Ditch		Secondary Drainage Ditch		Perimeter Fenceline	
	SF	SB	WT-G13-DD-01-SF	WT-G13-DD-01-SB-R	WT-G13-DD-02-SF	WT-G13-DD-02-SB-R	WT-G13-PF-SF	WT-G13-PF-SB
Metals (mg/kg)								
Arsenic	2.36	2.1	52	2.8	220	30	71	96 J-
Chromium	210[a]	210[a]	140	6.7	500	73	200	230 J-
Chromium VI	210	210	5.4 U	NA	5.9 U	NA	NA	NA
Chromium III	110,000	110,000	140	NC	500	NC	NC	NC
Copper	150	150	69	2.8	250	44	89	110 J-

Analyte	Screening Value*		Grid 14					
			Perimeter Drianage Ditch		Secondary Drainage Ditch		Perimeter Fenceline	
	SF	SB	WT-G14-DD-01-SF	WT-G14-DD-01-SB-R	WT-G14-DD-02-SF-R	WT-G14-DD-02-SB-R	WT-G14-PF-SF	WT-G14-PF-SB-R
Metals (mg/kg)								
Arsenic	2.36	2.1	36	2.0	810	4.5	100	49
Chromium	210[a]	210[a]	95	4.0	1,600	14	240	140 J-
Copper	150	150	48	1.3	1,100	6.6	140	41

Analyte	Screening Value*		Grid 15			
			Perimeter Drianage Ditch		Perimeter Fenceline	
	SF	SB	WT-G15-DD-SF-R	WT-G15-DD-SB-R	WT-G15-PF-SF-R	WT-G15-PF-SB-R
Metals (mg/kg)						
Arsenic	2.36	2.1	75	0.69	84	44
Chromium	210[a]	210[a]	270	8.2	200	110
Copper	150	150	110	0.99 U	110	33

TABLE 2
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
ON-SITE SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		Grid 16		
	SF	SB	WT-G16-SF-R	WT-G16-SF-DUP-R	WT-G16-SB
Metals (mg/kg)					
Arsenic	2.36	2.1	110	68	35
Chromium	210[a]	210[a]	310	360	59
Chromium VI	210	210	5.1 U	7.9 J	6.0 U
Chromium III	110,000	110,000	310	352	59
Copper	150	150	120	120	24

Analyte	Screening Value*		Grid 17		FSWT Retention Pond
	SF	SB	WT-G17-SF-R	WT-G17-SF-DUP-R	WT-PL-01-SB
Metals (mg/kg)					
Arsenic	2.36	2.1	440 J	120 J	94
Chromium	210[a]	210[a]	620	390	410
Chromium VI	210	210	5.6 U	4.7 U	8.8 U
Chromium III	110,000	110,000	620	390	410
Copper	150	150	330 J	100 J	120

TABLE 2
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
ON-SITE SOIL ANALYTICAL RESULTS

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
DD	Drainage ditch
DUP	Field duplicate
FDEP	Florida Department of Environmental Protection
G	Grid
J	The identification of the analyte is acceptable; the reported value is an estimate.
J+	The identification of the analyte is acceptable; the reported value is an estimate with a possible high bias.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NC	Not calculable
PF	Perimeter fenceline
PL	Pond liner
R	Resampled
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
SB	Subsurface soil (18 to 24 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

TABLE 3
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
PERMANENT MONITORING WELL SOIL BORING ANALYTICAL RESULTS

Analyte	ScreeningValue*	PMW-01		PMW-02	
	SB	WT-PMW-01-SB-C	WT-PMW-01-SB-D	WT-PMW-02-SB-C	WT-PMW-02-SB-D
Metals (mg/kg)					
Arsenic	2.1	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
Chromium	210[a]	2.2	3.5	2.9	1.5
Copper	150	0.62	0.75	0.87	0.32

Analyte	ScreeningValue*	PMW-03		PMW-04	
	SB	WT-PMW-03-SB-C	WT-PMW-03-SB-D	WT-PMW-04-SB-C	WT-PMW-04-SB-D
Metals (mg/kg)					
Arsenic	2.1	0.25 UJ	0.42 J-	0.25 U	0.25 U
Chromium	210[a]	2.3	2.7	2.0	3.0
Copper	150	0.41	1.2	0.45 U	0.75

Analyte	Screening Value*	PMW-05		PMW-06S	
	SB	WT-PMW-05-SB-C	WT-PMW-05-SB-D	WT-PMW-06S-SB-C	WT-PMW-06S-SB-D
Metals (mg/kg)					
Arsenic	2.1	0.25 U	0.25 U	0.92	0.50
Chromium	210[a]	2.6	2.2	2.8	1.0 J+
Chromium VI	210	NA	NA	5.5 U	NA
Chromium III	110,000	NC	NC	2.8	NC
Copper	150	0.69 U	0.75 U	1.6	0.60 U

Analyte	Screening Value*	PMW-06D			
	SB	WT-PMW-06D-SB-C	WT-PMW-06D-SB-D	WT-PMW-06D-SB-E	WT-PMW-06D-SB-F
Metals (mg/kg)					
Arsenic	2.1	0.40	0.85	2.4	1.4
Chromium	210[a]	3.9	2.5	9.0	6.7
Chromium VI	210	6.0 U	NA	NA	NA
Chromium III	110,000	3.9	NC	NC	NC
Copper	150	1.9	0.99 U	2.4	1.7

TABLE 3
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
PERMANENT MONITORING WELL SOIL BORING ANALYTICAL RESULTS

Analyte	ScreeningValue*	PMW-07	
	SB	WT-PMW-07-SB-C	WT-PMW-07-SB-D
Metals (mg/kg)			
Arsenic	2.1	0.25 UJ	0.35 J-
Chromium	210[a]	2.4	3.8
Copper	150	0.82	1.3

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
06D	PMW 06 - deep
06S	PMW 06 - shallow
bls	Below land surface
C	Sample depth of 8 to 10 feet bls
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
D	Sample depth of 18 to 20 feet bls
E	Sample depth of 28 to 30 feet bls
F	Sample depth of 38 to 40 feet bls
FDEP	Florida Department of Environmental Protection
J+	The identification of the analyte is acceptable; the reported value is an estimate with a possible high bias.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NC	Not calculable
PMW	Permanent monitoring well
SCTL	Soil Cleanup Target Levels, Residential, Direct Exposure, April 2005
SB	Subsurface soil
U	The analyte was not detected at or above the minimum reporting limit.
UJ	not detected at or
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

TABLE 4
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
OLD FEED BUILDING SOIL ANALYTICAL RESULTS

Analyte	FDEP SCTL	Grid 01		Grid 02		Grid 03	
	Residential Soil	WT-FB-G01-SB-A	WT-FB-G01-SB-B	WT-FB-G02-SB-A	WT-FB-G02-SB-B	WT-FB-G03-SB-A	WT-FB-G03-SB-B
Volatile Organic Compounds (µg/kg)							
Carbon disulfide	270,000	0.45 U	0.47	0.63 U	0.43 U	0.46 U	26 U
Methyl Acetate	6,800,000	0.90 UJ	0.88 UJ	1.3 UJ	0.86 UJ	0.92 UJ	210 J-
Methylcyclohexane	NL	0.45 U	0.44 U	0.63 U	0.43 U	0.46 U	37
Toluene	7,500,000	0.45 U	0.44 U	0.56 J′	0.43 U	0.46 U	26 U
Semivolatile Organic Compounds (µg/kg)							
1,1-Biphenyl	3,000,000	270 U	400 J′	300 U	2,300 U	210 U	26,000 U
2-Methylnaphthalene	210,000	270 U	2,100	300 U	230 J′	28 J′	6,600 J′
Acenaphthene	2,400,000	270 U	440 J′	300 U	2,300 U	210 U	26,000 U
Acenaphthylene	1,800,000	29 J′	4,200	300 U	5,300	25 J′	15,000 J′
Anthracene	21,000,000	270 U	3,200	300 U	5,500	210 U	15,000 J′
Benzo(a)anthracene	NL	71 J′	6,200	300 U	22,000	40 J′	37,000
Benzo(a)pyrene	100	46 J′	4,000	300 U	17,000	29 J′	25,000 J′
Benzo(b)fluoranthene	NL	52 J′	5,200	300 U	21,000	35 J′	31,000
Benzo(g,h,i)perylene	2,500,000	270 U	1,400	300 U	6,700	210 U	8,800 J′
Benzo(k)fluoranthene	NL	270 U	1,600	300 U	7,800	210 U	11,000 J′
Benzyl butyl phthalate	17,000,000	270 U	1,300 U	300 U	2,300 U	210 U	26,000 U
Bis(2-ethylhexyl) phthalate	72,000	270 U	1,300 U	300 U	2,300 U	210 U	26,000 U
Carbazole	49,000	270 U	1,800	300 U	1,100 J′	210 U	5,500 J′
Chrysene	NL	64 J′	5,500	300 U	20,000	38 J′	31,000
Dibenzo(a,h)anthracene	NL	270 U	570 J′	300 U	2,800	210 U	4,400 J′
Dibenzofuran	320,000	270 U	2,900	300 U	1,100 J′	210 U	8,000 J′
Fluoranthene	3,200,000	100 J′	17,000	37 J′	46,000	82 J′	83,000
Fluorene	2,600,000	270 U	1,800	300 U	1,100 J′	210 U	6,800 J′
Indeno (1,2,3-cd) pyrene	NL	270 U	2,000	300 U	7,800	210 U	16,000 J′
Naphthalene	55,000	270 U	1,300 U	U	2,300 U	210 U	4,600 J′
Phenanthrene	2,200,000	70 J′	25,000	300 U	31,000	110 J′	97,000
Pyrene	2,400,000	180 J′	15,000	42 J′	52,000	97 J′	86,000
cBaP-TEQ*	100	58	5,900	0.0	25,000	37	38,000
Pesticides (µg/kg)							
4,4'-DDE (p,p'-DDE)	2,900[a]	5.2 U	4.9 U	5.9 U	44 U	4.0 U	45 U
4,4'-DDT (p,p'-DDT)	2,900[b]	5.2 U	6.2 U	5.9 U	44 U	4.0 U	85 U
Aldrin	60	0.46 NJ	2.5 U	3.0 U	23 U	2.1 U	23 U
alpha-Chlordane	2,800[c]	2.7 U	2.5 U	3.0 U	23 U	2.1 U	23 U

TABLE 4
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
OLD FEED BUILDING SOIL ANALYTICAL RESULTS

Analyte	FDEP SCTL	Grid 01		Grid 02		Grid 03	
	Residential Soil	WT-FB-G01-SB-A	WT-FB-G01-SB-B	WT-FB-G02-SB-A	WT-FB-G02-SB-B	WT-FB-G03-SB-A	WT-FB-G03-SB-B
Pesticides (µg/kg)							
Endosulfan Sulfate	450,000	5.2 U	3.3 NJ	5.9 U	29 NJ	4.0 U	82 J+
Endrin	25,000	5.2 U	4.9 U	5.9 U	44 U	1.1 NJ	45 U
Endrin aldehyde	25,000[d]	5.2 U	4.9 U	5.9 U	44 U	4.0 U	45 U
Endrin ketone	25,000[d]	5.2 U	13	5.9 U	100	4.0 U	190 J+
gamma-Chlordane	2,800[c]	2.7 U	2.5 U	3.0 U	23 U	2.1 U	23 U
Heptachlor	200	2.7 U	2.5 U	3.0 U	23 U	2.1 U	23 U
Heptachlor epoxide	100	2.7 U	2.5 U	3.0 U	23 U	2.1 U	23 U
PCBs (µg/kg)	500	ND	ND	ND	ND	ND	ND
Metals (mg/kg)							
Aluminum	80,000	1,100	4,800	470	2,000	690	3,800
Arsenic	2.1	0.31 J-	0.46 J-	0.25 UJ	0.27 J-	0.25 U	1.4
Barium	120[e]	6.7	33	4.9	13	3.8	21
Beryllium	120	0.30 U	0.33	0.30 U	0.30 U	0.29 U	0.30 U
Cadmium	82	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Calcium	NL	190	7,700	66	1,600	94	8,200
Chromium	210[f]	1.1	3.1	0.70 U	1.8	1.0	5.7
Chromium VI	210	NA	NA	5.0 U	4.5 U	NA	NA
Chromium III	110,000	NC	NC	0.70 U	1.8	NC	NC
Cobalt	1,700	0.50 U	0.50 U	0.50 U	0.50 U	0.49 U	0.50 U
Copper	150	0.31	0.64	0.25 U	0.34	0.98 U	2.3
Iron	53,000	1,400 J-	1,100	890	560	780	660
Lead	400	2.2	2.8	1.5	1.6	1.8	3.6
Magnesium	NL	25 U	780	25 U	190	25 U	740
Manganese	3,500	1.1	88	0.58	11	0.53	92
Mercury	3	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Nickel	340	1.0 U	1.0 U	1.0 U	0.99 U	0.98 U	1.0 U
Potassium	NL	100 U	180	100 U	99 U	98 U	220
Strontium	52,000	2.2	15	1.6	4.4	1.6	12
Tin	47,000	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Titanium	NL	9.3	35	6.1	14	4.6	37
Vanadium	67	1.5	6.0	0.99	2.8	0.93	3.1
Yttrium	NL	0.45	2.6	0.30 U	0.46	0.29 U	2.1
Zinc	26,000	3.8	2.1	1.0 U	2.5	0.98 U	5.5

TABLE 4
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
OLD FEED BUILDING SOIL ANALYTICAL RESULTS

Analyte	FDEP SCTL Residential Soil	Grid 04 WT-FB-G04-SB-A	Grid 04 WT-FB-G04-SB-A-DUP	Grid 04 WT-FB-G04-SB-B	Grid 05 WT-FB-G05-SB-A	Grid 05 WT-FB-G05-SB-B
Volatile Organic Compounds (µg/kg)						
Carbon disulfide	270,000	0.46 U	0.46 U	0.48 U	0.44 U	0.47 U
Methyl Acetate	6,800,000	0.91 UJ	0.91 UJ	0.96 UJ	0.88 UJ	0.93 UJ
Methylcyclohexane	NL	0.46 U	0.46 U	0.48 U	0.44 U	0.47 U
Toluene	7,500,000	0.46 U	0.46 U	0.48 U	0.44 U	0.47 U
Semivolatile Organic Compounds (µg/kg)						
1,1-Biphenyl	3,000,000	280 U	290 U	1,500 U	180 U	1,800 U
2-Methylnaphthalene	210,000	280 U	290 U	1,500 U	180 U	1,800 U
Acenaphthene	2,400,000	280 U	290 U	1,500 U	180 U	1,800 U
Acenaphthylene	1,800,000	280 U	290 U	450 J′	29 J′	1,500 J′
Anthracene	21,000,000	280 U	290 U	570 J′	28 J′	2,300
Benzo(a)anthracene	NL	45 J′	290 U	1,500	100 J′	5,000
Benzo(a)pyrene	100	33 J′	290 U	1,100 J′	75 J′	3,400
Benzo(b)fluoranthene	NL	41 J′	290 U	1,500 J′	110 J′	4,200
Benzo(g,h,i)perylene	2,500,000	280 U	290 U	390 J′	180 U	1,500 J′
Benzo(k)fluoranthene	NL	280 U	290 U	440 J′	31 J′	1,600 J′
Benzyl butyl phthalate	17,000,000	280 U	290 U	1,500 U	6,700	1,800 U
Bis(2-ethylhexyl) phthalate	72,000	280 U	290 U	1,500 U	1,600	1,800 U
Carbazole	49,000	280 U	290 U	270 J′	180 U	1,300 J′
Chrysene	NL	40 J′	290 U	1,300 J′	95 J′	4,200
Dibenzo(a,h)anthracene	NL	280 U	290 U	170 J′	180 U	530 J′
Dibenzofuran	320,000	280 U	290 U	220 J′	180 U	980 J′
Fluoranthene	3,200,000	83 J′	47 J′	3,400	160 J′	11,000
Fluorene	2,600,000	280 U	290 U	170 J′	180 U	920 J′
Indeno (1,2,3-cd) pyrene	NL	280 U	290 U	590 J′	28 J′	1,900
Naphthalene	55,000	280 U	290 U	1,500 U	180 U	1,800 U
Phenanthrene	2,200,000	73 J′	41 J′	3,200	110 J′	15,000
Pyrene	2,400,000	96 J′	51 J′	3,300	160 J′	11,000
cBaP-TEQ*	100	42	0.0	1,600	99	5,100
Pesticides (µg/kg)						
4,4'-DDE (p,p'-DDE)	2,900[a]	5.4 U	0.71 J′	5.9 U	5.8	35 U
4,4'-DDT (p,p'-DDT)	2,900[b]	5.4 U	5.6 U	5.9 U	23	23 NJ
Aldrin	60	2.8 U	2.9 U	3.0 U	1.8 U	18 U
alpha-Chlordane	2,800[c]	2.8 U	2.9 U	3.0 U	21	18 U

TABLE 4
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
OLD FEED BUILDING SOIL ANALYTICAL RESULTS

Analyte	FDEP SCTL Residential Soil	Grid 04 WT-FB-G04-SB-A	Grid 04 WT-FB-G04-SB-A-DUP	Grid 04 WT-FB-G04-SB-B	Grid 05 WT-FB-G05-SB-A	Grid 05 WT-FB-G05-SB-B
Pesticides (µg/kg)						
Endosulfan Sulfate	450,000	5.4 U	5.6 U	1.9 NJ	3.6 U	12 NJ
Endrin	25,000	5.4 U	5.6 U	5.9 U	3.6 U	35 U
Endrin aldehyde	25,000[d]	5.4 U	5.6 U	5.9 U	3.6 U	27 NJ
Endrin ketone	25,000[d]	5.4 U	5.6 U	5.9 U	3.6 U	35 U
gamma-Chlordane	2,800[c]	2.8 U	2.9 U	3.0 U	110 N	25 NJ
Heptachlor	200	2.8 U	2.9 U	3.0 U	20 N	21 J+
Heptachlor epoxide	100	2.8 U	2.9 U	3.0 U	23 N	18 U
PCBs (µg/kg)	500	ND	ND	ND	ND	ND
Metals (mg/kg)						
Aluminum	80,000	800	1,100	3,400	1,000	2,500
Arsenic	2.1	0.30	0.28	0.26	0.44	1.2
Barium	120[e]	5.2	6.8	3.8	110	97
Beryllium	120	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium	82	0.12 U	0.12 U	0.12 U	0.22	0.12 U
Calcium	NL	120 J	230 J	300	8,300	3,700
Chromium	210[f]	0.74	0.99	2.4	100	5.2
Chromium VI	210	4.6 U	5.2 U	4.8 U	NA	NA
Chromium III	110,000	0.74	0.99	2.4	NC	NC
Cobalt	1,700	0.50 U	0.49 U	0.50 U	2.3	0.49 U
Copper	150	0.99 U	0.99 U	0.99 U	1.1	1.7
Iron	53,000	630	620	400	1,700	610
Lead	400	2.4 J	6.3 J	1.9	470	9.7
Magnesium	NL	25 U	31	49	6,200	360
Manganese	3,500	0.50 U	2.3	2.0	29	22
Mercury	3	0.050 U	0.050 U	0.050 U	1.4	0.050 U
Nickel	340	0.99 U	0.99 U	0.99 U	46	0.98 U
Potassium	NL	99 U	99 U	99 U	150	140
Strontium	52,000	1.9 J	3.8 J	1.8	43	13
Tin	47,000	1.5 U	1.5 U	1.5 U	5.1	1.5 U
Titanium	NL	5.4	5.5	6.2	17	20
Vanadium	67	1.2	1.1	2.8	2.0	3.0
Yttrium	NL	0.30 U	0.30 U	0.31	0.49	0.92
Zinc	26,000	7.7 J	1.1 J	6.8	140	45

TABLE 4
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
OLD FEED BUILDING SOIL ANALYTICAL RESULTS

Notes:

[a]	Value listed is for p,p'-dichlorodiphenyldichloroethylene.
[b]	Value listed is for p,p'-dichlorodiphenyltrichloroethane.
[c]	Value listed is for total chlordane.
[d]	Value listed is for endrin.
[e]	Value listed is for soluble salts of barium.
[f]	Value listed is for total chromium.
A	Sampling interval of 2 to 3 feet below land surface
B	Sampling interval of 5 to 6 feet below land surface
cBaP-TEQ	Carcinogenic benzo(a)pyrene toxicity equivalent
DUP	Field duplicate
FB	Feed building
FDEP	Florida Department of Environmental Protection
G	Grid
J	The identification of the analyte is acceptable; the reported value is an estimate.
J+	The identification of the analyte is acceptable; the reported value is an estimate with a possible high bias.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
J′	Concentration reported is less than the lowest standard on the calibration curve.
µg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NA	Not analyzed
NC	Not calculable
ND	Not detected
NL	Not listed
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SB	Subsurface soil
U	The analyte was not detected at or above the minimum reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
	Shaded values are above the FDEP SCTL.
*	Value is the sum of the seven carcinogenic polycyclic aromatic hydrocarbon concentrations, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, corrected with their toxicity equivalent factors.

TABLE 5
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
SUSIE TOLBERT ELEMENTARY SCHOOL SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		Susie Tolbert Elementary School	
	SF	SB	WT-STES-01-SF	WT-STES-01-SB
Metals (mg/kg)				
Arsenic	NL	NL	1.2	0.25 U
Chromium	NL	NL	5.2	1.7
Chromium VI	NA	NA	4.6 U	3.7 U
Chromium III	NL	NL	5.2	1.7
Copper	NL	NL	4.2	0.98 U

Notes:

*	There are no state or federal screening values for school properties. EPA's Regional Screening Levels are comparable to residential and industrial properties and FDEP's Soil Cleanup Target Levels are comparable to residential and commercial/industrial properties (Refs. 53; 66).
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
mg/kg	Milligrams per kilogram
NA	Not applicable
NL	Not listed
STES	Susie Tolbert Elementary School
SF	Surface soil (0 to 6 inches below land surface)
SB	Subsurface soil (18 to 24 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
WT	Fairfax Street Wood Treaters

TABLE 6
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES NORTH OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1764 West 19th Street (WTRP24)			
	SF	SB	WT-RP-24-SF-FY	WT-RP-24-SB-FY	WT-RP-24-SF-BY	WT-RP-24-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	5.0	0.6	3.5	0.59

Analyte	Screening Value*		1758 West 19th Street (WTRP25)				
	SF	SB	WT-RP-25-SF-FY	WT-RP-25-SF-FY-DUP	WT-RP-25-SB-FY	WT-RP-25-SF-BY	WT-RP-25-SB-BY
Metals (mg/kg)							
Arsenic	2.36	2.1	4.0	2.6	0.34	4.9	0.69
Chromium	210[a]	210[a]	11	9.1	2.7	8.4	2.9
Chromium VI	210	210	5.3 U	4.5 U	NA	4.3 U	NA
Chromium III	110,000	110,000	11	9.1	NC	8.4	NC
Copper	150	150	33	39	8.2	27	6.4

Analyte	Screening Value*		1804 West 19th Street (WTRP26)		
	SF	SB	WT-RP-26-SF-FY	WT-RP-26-SF-FY-DUP	WT-RP-26-SB-FY
Metals (mg/kg)					
Arsenic	2.36	2.1	3.4	3.2	0.25 UJ
Chromium	210[a]	210[a]	11	9.4	2.2
Copper	150	150	17	12	1.0 U

Analyte	Screening Value*		1846 West 19th Street (WTRP27)			
	SF	SB	WT-RP-27-SF-FY	WT-RP-27-SB-FY	WT-RP-27-SF-BY	WT-RP-27-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	4.5	0.39 J-	5.5	1.7
Chromium	210[a]	210[a]	15	2.9	17	6.0
Copper	150	150	16	1.0 U	21	7.8

Analyte	Screening Value*		1858 West 19th Street (WTRP29)			
	SF	SB	WT-RP-29-SF-FY	WT-RP-29-SB-FY	WT-RP-29-SF-BY	WT-RP-29-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	7.5	0.46	12	3.2
Chromium	210[a]	210[a]	21	2.3	41	5.8
Copper	150	150	18	0.98 U	170	13

TABLE 6
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES NORTH OF FSWT SOIL ANALYTICAL RESULTS

	Screening Value*		2904 Fairfax Street (WTRP30)			
Analyte	**SF**	**SB**	**WT-RP-30-SF-FY**	**WT-RP-30-SB-FY**	**WT-RP-30-SF-BY**	**WT-RP-30-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	1.2	0.25 U	2.2	0.47
Chromium	210[a]	210[a]	5.8	1.9	12	2.4
Chromium VI	210	210	5.1 U	NA	5.5 U	NA
Chromium III	110,000	110,000	5.8	NC	12	NC
Copper	150	150	16	1.0	33	3.5

	Screening Value*		1815 West 19th Street (WTRP31)			
Analyte	**SF**	**SB**	**WT-RP-31-SF-FY**	**WT-RP-31-SB-FY**	**WT-RP-31-SF-BY**	**WT-RP-31-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	2.5	0.26	2.8	0.25 U
Chromium	210[a]	210[a]	12	1.8	12	1.2
Copper	150	150	28	0.99 U	30	0.99 U

	Screening Value*		1819 West 19th Street (WTRP32)			
Analyte	**SF**	**SB**	**WT-RP-32-SF-FY**	**WT-RP-32-SB-FY**	**WT-RP-32-SF-BY**	**WT-RP-32-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	2.3	0.35	2.1	2.6
Chromium	210[a]	210[a]	10	2.2	8.5	3.4
Copper	150	150	18	1.4	33	6.4

	Screening Value*		1823 West 19th Street (WTRP33)			
Analyte	**SF**	**SB**	**WT-RP-33-SF-FY**	**WT-RP-33-SB-FY**	**WT-RP-33-SF-BY**	**WT-RP-33-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	2.9	0.25 U	1.9	0.34
Chromium	210[a]	210[a]	11	2.5	8.5	2.3
Copper	150	150	14	0.99 U	17	1.2

	Screening Value*		1831 West 19th Street (WTRP34)			
Analyte	**SF**	**SB**	**WT-RP-34-SF-FY**	**WT-RP-34-SB-FY**	**WT-RP-34-SF-BY**	**WT-RP-34-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	3.5	0.77	2.3	0.36
Chromium	210[a]	210[a]	12	3.3	8.0	1.9
Copper	150	150	40	11	30	1.8

TABLE 6
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES NORTH OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1837 West 19th Street (WTRP35)					
	SF	SB	WT-RP-35-SF-FY	WT-RP-35-SF-FY-DUP	WT-RP-35-SB-FY	WT-RP-35-SF-BY	WT-RP-35-SF-BY-DUP	WT-RP-35-SB-BY
Metals (mg/kg)								
Arsenic	2.36	2.1	1.4 J	2.6 J	0.25 U	2.9	3.6	0.31
Chromium	210[a]	210[a]	4.3 J	7.7 J	0.93	10	12	1.6
Chromium VI	210	210	5.4 U	5.3 U	NA	5.4 U	5.4 U	NA
Chromium III	110,000	110,000	4.3	7.7	NC	10	12	NC
Copper	150	150	9.7	12	0.98 U	12	13	1.3

Analyte	Screening Value*		1845 West 19th Street (WTRP36)		
	SF	SB	WT-RP-36-SF-BY	WT-RP-36-SF-BY-DUP	WT-RP-36-SB-BY
Metals (mg/kg)					
Arsenic	2.36	2.1	3.8	5.5	0.75
Chromium	210[a]	210[a]	17	19	2.9
Copper	150	150	43	46	5.3

Analyte	Screening Value*		1851 West 19th Street (WTRP37)			
	SF	SB	WT-RP-37-SF-FY	WT-RP-37-SB-FY	WT-RP-37-SF-BY	WT-RP-37-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	6.3	0.51	5.0	0.85
Chromium	210[a]	210[a]	22	2.2	21	6.6
Copper	150	150	39	1.6	140	47

Analyte	Screening Value*		2921 Spires Avenue (WTRP38)			
	SF	SB	WT-RP-38-SF-FY	WT-RP-38-SB-FY	WT-RP-38-SF-BY	WT-RP-38-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	3.0	0.35	34	0.74
Chromium	210[a]	210[a]	8.4	1.8	30	2.7
Copper	150	150	14	1.1	82 J-	2.7

Analyte	Screening Value*		Vacant Lot on the Corner of West 19th Street and Spires Avenue (WTRP39)			
	SF	SB	WT-RP-39-SF-FY	WT-RP-39-SB-FY	WT-RP-39-SF-BY	WT-RP-39-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	2.0	0.37	1.5	0.25 U
Chromium	210[a]	210[a]	6.5	0.50 U	5.1	1.0
Copper	150	150	9.7	1.0 U	11	0.99 U

TABLE 6
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES NORTH OF FSWT SOIL ANALYTICAL RESULTS

	Screening Value*		1911 West 19th Street (WTRP40)			
Analyte	**SF**	**SB**	**WT-RP-40-SF-FY**	**WT-RP-40-SB-FY**	**WT-RP-40-SF-BY**	**WT-RP-40-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	2.7	0.39	4.9	0.79
Chromium	210[a]	210[a]	6.7	0.50 U	9.9	1.0
Chromium VI	210	210	5.5 U	NA	5.5 U	NA
Chromium III	110,000	110,000	6.7	NC	9.9	NC
Copper	150	150	8.4	1.0 U	53	1.1

	Screening Value*		1921 West 19th Street (WTRP41)			
Analyte	**SF**	**SB**	**WT-RP-41-SF-FY**	**WT-RP-41-SB-FY**	**WT-RP-41-SF-BY**	**WT-RP-41-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	3.0	1.6	6.0	1.3
Chromium	210[a]	210[a]	9.6	0.92	11	0.83
Copper	150	150	13	1.1	30	1.3

	Screening Value*		Vacant Lot between 1937 and 1921 West 19th Street (WTRP42)			
Analyte	**SF**	**SB**	**WT-RP-42-SF-FY**	**WT-RP-42-SB-FY**	**WT-RP-42-SF-BY**	**WT-RP-42-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	4.9	2.4	2.7	1.7
Chromium	210[a]	210[a]	17	3.7	11	8.0
Copper	150	150	58	14	71	130

	Screening Value*		1937 West 19th Street (WTRP43)			
Analyte	**SF**	**SB**	**WT-RP-43-SF-FY**	**WT-RP-43-SB-FY**	**WT-RP-43-SF-BY**	**WT-RP-43-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	0.57	0.61	1.6	1.0
Chromium	210[a]	210[a]	3.7	2.5 J+	14	6.5
Copper	150	150	12	5.2	19	28

	Screening Value*		1945 West 19th Street (WTRP44)			
Analyte	**SF**	**SB**	**WT-RP-44-SF-FY**	**WT-RP-44-SB-FY**	**WT-RP-44-SF-BY**	**WT-RP-44-SB-BY**
Metals (mg/kg)						
Arsenic	2.36	2.1	1.4	0.86	0.94	1.5
Chromium	210[a]	210[a]	5.5	3.2	4.1	4.4
Copper	150	150	4.8	6.9	1.2	14

TABLE 6
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES NORTH OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1951 West 19th Street (WTRP45)			
	SF	SB	WT-RP-45-SF-FY	WT-RP-45-SB-FY	WT-RP-45-SF-BY	WT-RP-45-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	0.76	2.0	1.4	0.46
Chromium	210[a]	210[a]	2.8	5.6	4.2	1.2
Chromium VI	210	210	5.5 U	NA	5.7 U	NA
Chromium III	110,000	110,000	2.8	NC	4.2	NC
Copper	150	150	7.3	77	10	21

Analyte	Screening Value*	1932 West 20th Street (WTRP76)	
	SF	WT-RP-76-SF-FY	WT-RP-76-SF-BY
Metals (mg/kg)			
Arsenic	2.36	2.7	8.6

Analyte	Screening Value*	1922 West 20th Street (WTRP77)	
	SF	WT-RP-77-SF-FY	WT-RP-77-SF-BY
Metals (mg/kg)			
Arsenic	2.36	110	24

Analyte	Screening Value*	1910 West 20th Street (WTRP79)	
	SF	WT-RP-79-SF-FY	WT-RP-79-SF-BY
Metals (mg/kg)			
Arsenic	2.36	2.5	3.6

Analyte	Screening Value*	1902 West 20th Street (WTRP80)	
	SF	WT-RP-80-SF-FY	WT-RP-80-SF-BY
Metals (mg/kg)			
Arsenic	2.36	0.83	2.7

Analyte	Screening Value*	2925 Spires Ave (WTRP81)	
	SF	WT-RP-81-SF-FY	WT-RP-81-SF-BY
Metals (mg/kg)			
Arsenic	2.36	1.6	2.7

TABLE 6
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES NORTH OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*	1844 West 20th Street (WTRP83)	
	SF	WT-RP-83-SF-FY	WT-RP-83-SF-BY
Metals (mg/kg)			
Arsenic	2.36	2.3	5.6

Analyte	Screening Value*	1802 West 20th Street (WTRP89)	
	SF	WT-RP-89-SF-FY	WT-RP-89-SF-BY
Metals (mg/kg)			
Arsenic	2.36	3.8	6.7

Analyte	Screening Value*	1765 West 19th Street (WTRP90)	
	SF	WT-RP-90-SF-FY	WT-RP-90-SF-BY
Metals (mg/kg)			
Arsenic	2.36	4.2	6.4

Analyte	Screening Value*	1750 West 19th Street (WTRP92)	
	SF	WT-RP-92-SF-FY	WT-RP-92-SF-BY
Metals (mg/kg)			
Arsenic	2.36	5.6	5.2

TABLE 6
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES NORTH OF FSWT SOIL ANALYTICAL RESULTS

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
BY	Back yard
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
DUP	Field duplicate
FDEP	Florida Department of Environmental Protection
FSWT	Fairfax Street Wood Treaters
FY	Front yard
J	The identification of the analyte is acceptable; the reported value is an estimate.
J+	The identification of the analyte is acceptable; the reported value is an estimate with a possible high bias.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NC	Not calculable
RP	Residential property
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
SB	Subsurface soil (18 to 24 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

TABLE 7
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES EAST OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1757 West 17th Street, Faith Deliverance Church (WTRP20)			
	SF	SB	WT-RP-20-SF-FY	WT-RP-20-SB-FY	WT-RP-20-SF-BY	WT-RP-20-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.6	0.30	6.9	0.42
Chromium	210[a]	210[a]	5.3	1.8	17	1.2
Chromium VI	210	210	3.3 U	NA	3.7 U	NA
Chromium III	110,000	110,000	5.3	NC	17	NC
Copper	150	150	12	1.0	15	0.99 U

Analyte	Screening Value*		1751 West 17th Street (WTRP21)	
	SF	SB	WT-RP-21-SF-FY	WT-RP-21-SB-FY
Metals (mg/kg)				
Arsenic	2.36	2.1	3.8	0.50
Chromium	210[a]	210[a]	16	2.3
Copper	150	150	17	1.7

Analyte	Screening Value*		1744 West 17th Street (WTRP22)				
	SF	SB	WT-RP-22-SF-FY	WT-RP-22-SF-FY-DUP	WT-RP-22-SB-FY	WT-RP-22-SF-BY	WT-RP-22-SB-BY
Metals (mg/kg)							
Arsenic	2.36	2.1	2.3	3.3	0.25 UJ	2.9	0.54 J-
Chromium	210[a]	210[a]	6.2	9.7	2.4	8.5	3.1
Copper	150	150	9.2	11	0.99 U	19	3.9

Analyte	Screening Value*		1753 West 16th Street (WTRP47)				
	SF	SB	WT-RP-47-SF-FY	WT-RP-47-SB-FY	WT-RP-47-SF-BY	WT-RP-47-SF-BY-DUP	WT-RP-47-SB-BY
Metals (mg/kg)							
Arsenic	2.36	2.1	2.6	0.41	2.1	3.3	0.44
Chromium	210[a]	210[a]	11	2.5	9.2	13	2.2
Copper	150	150	16	3.9	13	15	1.6

Analyte	Screening Value*		1745 West 16th Street (WTRP48)			
	SF	SB	WT-RP-48-SF-FY	WT-RP-48-SB-FY	WT-RP-48-SF-BY	WT-RP-48-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.9	0.41	3.3	0.39
Chromium	210[a]	210[a]	9.7	2.4	12	1.8
Copper	150	150	16	1.0 U	20	7.7

TABLE 7
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES EAST OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1750 West 16th Street (WTRP49)	
	SF	SB	WT-RP-49-SF-FY	WT-RP-49-SB-FY
Metals (mg/kg)				
Arsenic	2.36	2.1	1.9	3.5
Chromium	210[a]	210[a]	7.7	2.3
Copper	150	150	12	1.3

Analyte	Screening Value*		1757 West 15th Street (WTRP50)			
	SF	SB	WT-RP-50-SF-FY	WT-RP-50-SB-FY	WT-RP-50-SF-BY	WT-RP-50-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	2.2	0.51	4.2	1.9
Chromium	210[a]	210[a]	6.0	2.2	12	3.7
Chromium VI	210	210	4.7 U	NA	5.2 U	NA
Chromium III	110,000	110,000	6.0	NC	12	NC
Copper	150	150	12	1.9	19	6.6

Analyte	Screening Value*		1756 West 15th Street (WTRP51)	
	SF	SB	WT-RP-51-SF-FY	WT-RP-51-SB-FY
Metals (mg/kg)				
Arsenic	2.36	2.1	3.0	0.68
Chromium	210[a]	210[a]	9.5	2.2
Copper	150	150	17	29

Analyte	Screening Value*	2409 Fairfax Street (WTRP52)	
	SF	WT-RP-52-SF-FY	WT-RP-52-SF-BY
Metals (mg/kg)			
Arsenic	2.36	0.88	2.0
Chromium	210[a]	4.0	9.6
Chromium VI	210	5.5 U	5.5 U
Chromium III	110,000	4.0	9.6
Copper	150	4.8	15

TABLE 7
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES EAST OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1757 West 14th Street (WTRP53)			
	SF	SB	WT-RP-53-SF-FY	WT-RP-53-SB-FY	WT-RP-53-SF-BY	WT-RP-53-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	2.0	0.25 U	2.9	0.27 U
Chromium	210[a]	210[a]	5.0	2.6	7.6	2.2
Copper	150	150	7.6	0.99 U	13	0.99 U

Analyte	Screening Value*		1756 West 14th Street (WTRP54)			
	SF	SB	WT-RP-54-SF-FY	WT-RP-54-SB-FY	WT-RP-54-SF-BY	WT-RP-54-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	0.79	0.33	2.0	0.25 U
Chromium	210[a]	210[a]	11	3.1	6.8	2.1
Copper	150	150	11	1.0 U	88	3.0

Analyte	Screening Value*		Lot Adjacent to 1766 West 17th Street (WTRP69)			
	SF	SB	WT-RP-69-SF-FY	WT-RP-69-SB-FY	WT-RP-69-SF-BY	WT-RP-69-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	6.0	0.78	3.5	0.28
Chromium	210[a]	210[a]	18 J+	2.5	19	2.1
Copper	150	150	23	3.8	26	1.7

Analyte	Screening Value*		1750 West 15th Street (WTRP70)				
	SF	SB	WT-RP-70-SF-FY	WT-RP-70-SF-FY-DUP	WT-RP-70-SB-FY	WT-RP-70-SF-BY	WT-RP-70-SB-BY
Metals (mg/kg)							
Arsenic	2.36	2.1	3.3 J	1.9 J	0.30	1.3	0.70
Chromium	210[a]	210[a]	11	13	2.4	6.2	3.0
Copper	150	150	13	10	0.99 U	47	6.1

Analyte	Screening Value*		1745 West 17th Street (WTRP71)			
	SF	SB	WT-RP-71-SF-FY	WT-RP-71-SB-FY	WT-RP-71-SF-BY	WT-RP-71-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	2.1	0.31	4.1	0.45
Chromium	210[a]	210[a]	4.9	1.7	10	2.2
Copper	150	150	7.7	0.99 U	19	1.0 U

TABLE 7
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES EAST OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1739 West 17th Street (WTRP72)			
	SF	SB	WT-RP-72-SF-FY	WT-RP-72-SB-FY	WT-RP-72-SF-BY	WT-RP-72-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.7	0.25	1.8	0.46
Chromium	210[a]	210[a]	8.4	1.8	7.4	2.0
Copper	150	150	8.4	1.1	21	2.5

Analyte	Screening Value*		1736 West 17th Street (WTRP73)			
	SF	SB	WT-RP-73-SF-FY	WT-RP-73-SB-FY	WT-RP-73-SF-BY	WT-RP-73-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	2.1	0.72	2.6	0.87
Chromium	210[a]	210[a]	7.5	2.1	8.8	2.2
Copper	150	150	15	0.99 U	16	1.4

Analyte	Screening Value*		1725 West 17th Street (WTRP74)			
	SF	SB	WT-RP-74-SF-FY	WT-RP-74-SB-FY	WT-RP-74-SF-BY	WT-RP-74-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.4	0.25	1.7	0.25 U
Chromium	210[a]	210[a]	5.7	1.7	6.5	1.6
Copper	150	150	11	0.99 U	9.8	1.0 U

Analyte	Screening Value*		1750 West 14th Street (WTRP75)			
	SF	SB	WT-RP-75-SF-FY	WT-RP-75-SB-FY	WT-RP-75-SF-BY	WT-RP-75-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.5	0.25 U	1.5	0.26
Chromium	210[a]	210[a]	12	2.6	6.0	1.8
Copper	150	150	9.5	1.7	9.0	1.7

Analyte	Screening Value*	1730 West 17th Street (WTRP93)			
	SF	WT-RP-93-SF-FY	WT-RP-93-SF-FY-DUP	WT-RP-93-SF-BY	WT-RP-93-SF-BY-DUP
Metals (mg/kg)					
Arsenic	2.36	2.1	2.6	2.9	1.9

TABLE 7
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES EAST OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*	1739 West 16th Street (WTRP94)	
	SF	WT-RP-94-SF-FY	WT-RP-94-SF-BY
Metals (mg/kg)			
Arsenic	2.36	4.0	4.2

Analyte	Screening Value*	Vacant Lot Between 1757 and 1745 West 15th Street (WTRP95)		
	SF	WT-RP-95-SF-FY	WT-RP-95-SF-FY-DUP	WT-RP-95-SF-BY
Metals (mg/kg)				
Arsenic	2.36	2.2	3.3	5.2

Analyte	Screening Value*	1745 West 15th Street (WTRP96)	
	SF	WT-RP-96-SF-FY	WT-RP-96-SF-BY
Metals (mg/kg)			
Arsenic	2.36	5.3	2.1

Analyte	Screening Value*	1755 West 14th Street (WTRP97)	
	SF	WT-RP-97-SF-FY	WT-RP-97-SF-BY
Metals (mg/kg)			
Arsenic	2.36	0.98	1.6

Analyte	Screening Value*		1744 West 16th Street (WTRP98)			
	SF	SB	WT-RP-98-SF-FY	WT-RP-98-SB-FY	WT-RP-98-SF-BY	WT-RP-98-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	4.3	1.5	1.9	0.61

Analyte	Screening Value*	1744 West 15th Street (WTRP99)	
	SF	WT-RP-99-SF-FY	WT-RP-99-SF-BY
Metals (mg/kg)			
Arsenic	2.36	2.7	2.5

TABLE 7
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES EAST OF FSWT SOIL ANALYTICAL RESULTS

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
BY	Back yard
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
DUP	Field duplicate
FDEP	Florida Department of Environmental Protection
FSWT	Fairfax Street Wood Treaters
FY	Front yard
J	The identification of the analyte is acceptable; the reported value is an estimate.
J+	The identification of the analyte is acceptable; the reported value is an estimate with a possible high bias.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NC	Not calculable
RP	Residential property
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
SB	Subsurface soil (18 to 24 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

TABLE 8
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES SOUTH OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		2316 Fairfax Street (WTRP55)			
	SF	SB	WT-RP-55-SF-FY	WT-RP-55-SB-FY	WT-RP-55-SF-BY	WT-RP-55-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	3.1	0.25 U	2.0	0.26 U
Chromium	210[a]	210[a]	10	1.8	6.2	1.8
Chromium VI	210	210	3.5 U	NA	4.0 U	NA
Chromium III	110,000	110,000	10	NC	6.2	NC
Copper	150	150	14	0.98 U	7.9	0.99 U

Analyte	Screening Value*		1811 West 13th Street (WTRP57)			
	SF	SB	WT-RP-57-SF-FY	WT-RP-57-SB-FY	WT-RP-57-SF-BY	WT-RP-57-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.5	0.44	1.7	0.25 U
Chromium	210[a]	210[a]	6.3	3.1	5.1	1.8
Copper	150	150	8.2	2.1	19	7.1

Analyte	Screening Value*		1825 West 13th Street (WTRP59)				
	SF	SB	WT-RP-59-SF-FY	WT-RP-59-SF-FY-DUP	WT-RP-59-SB-FY	WT-RP-59-SF-BY	WT-RP-59-SB-BY
Metals (mg/kg)							
Arsenic	2.36	2.1	1.1	0.96	0.25	2.0	0.25 U
Chromium	210[a]	210[a]	4.0	3.6	2.0	6.4	1.0
Copper	150	150	7.4	6.1	1.0	15	2.0

Analyte	Screening Value*		1831 West 13th Street (WTRP60)			
	SF	SB	WT-RP-60-SF-FY	WT-RP-60-SB-FY	WT-RP-60-SF-BY	WT-RP-60-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	2.2	0.25 U	1.2	0.25 U
Chromium	210[a]	210[a]	5.5	2.2	5.5	1.3
Chromium VI	210	210	5.2 U	NA	5.1 U	NA
Chromium III	110,000	110,000	5.5	NC	5.5	NC
Copper	150	150	16	3.3	20	5.3

TABLE 8
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES SOUTH OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1839 West 13th Street (WTRP61)			
	SF	SB	WT-RP-61-SF-FY	WT-RP-61-SB-FY	WT-RP-61-SF-BY	WT-RP-61-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.9	0.25 U	2.9	1.1
Chromium	210[a]	210[a]	4.5	2.2	7.3	4.1
Copper	150	150	13	1.2	27	8.1

Analyte	Screening Value*		1828 West 13th Street (WTRP63)			
	SF	SB	WT-RP-63-SF-FY	WT-RP-63-SB-FY	WT-RP-63-SF-BY	WT-RP-63-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	0.65	0.25 U	0.57	0.25 U
Chromium	210[a]	210[a]	3.4	0.89	2.6	0.95
Copper	150	150	7.1	0.99 U	5.5	2.7

Analyte	Screening Value*		1824 West 14th Street (WTRP66)	
	SF	SB	WT-RP-66-SF-BY	WT-RP-66-SB-BY
Metals (mg/kg)				
Arsenic	2.36	2.1	2.6	0.33
Chromium	210[a]	210[a]	8.5	1.9
Copper	150	150	13	0.99 U

Analyte	Screening Value*		1851 West 13th Street (WTRP68)		
	SF	SB	WT-RP-68-SF-BY	WT-RP-68-SF-BY-DUP	WT-RP-68-SB-BY
Metals (mg/kg)					
Arsenic	2.36	2.1	1.5	1.7	0.25 U
Chromium	210[a]	210[a]	4.6	4.3	2.4
Copper	150	150	4.4	3.6	0.99 U

TABLE 8
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL PROPERTIES SOUTH OF FSWT SOIL ANALYTICAL RESULTS

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
BY	Back yard
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
DUP	Field duplicate
FDEP	Florida Department of Environmental Protection
FSWT	Fairfax Street Wood Treaters
FY	Front yard
mg/kg	Milligrams per kilogram
NA	Not analyzed
NC	Not calculable
RP	Residential property
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
SB	Subsurface soil (18 to 24 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

TABLE 9
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RESIDENTIAL WEST OF FSWT SOIL ANALYTICAL RESULTS

Analyte	Screening Value*		1916 Pullman Court (WTRP64)			
	SF	SB	WT-RP-64-SF-FY	WT-RP-64-SB-FY	WT-RP-64-SF-BY	WT-RP-64-SB-BY
Metals (mg/kg)						
Arsenic	2.36	2.1	1.6	0.25 U	2.6	0.25 U
Chromium	210[a]	210[a]	9.2	0.67	13	2.2
Copper	150	150	12	1.4	18	0.98 U

Analyte	Screening Value*		1924 Pullman Court (WTRP67)	
	SF	SB	WT-RP-67-SF-BY	WT-RP-67-SB-BY
Metals (mg/kg)				
Arsenic	2.36	2.1	1.6	0.38
Chromium	210[a]	210[a]	4.1	2.4
Copper	150	150	5.7	0.99 U

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
BY	Back yard
FDEP	Florida Department of Environmental Protection
FSWT	Fairfax Street Wood Treaters
FY	Front yard
mg/kg	Milligrams per kilogram
RP	Residential property
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
SB	Subsurface soil (18 to 24 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screenig value.

TABLE 10
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
CITY RIGHT-OF-WAY SOIL ANALYTICAL RESULTS

Analyte	Screening Value* SF	Grid 02 WT-ROW-G02-SF	Grid 04 WT-ROW-G04-SF	Grid 06 WT-ROW-G06-SF	Grid 08 WT-ROW-G08-SF
Metals (mg/kg)					
Arsenic	2.36	42	43	25	13
Chromium	210[a]	110 J-	100	61	40
Chromium VI	210	NA	NA	5.2 U	NA
Chromium III	110,000	NC	NC	61	NC
Copper	150	63 J-	59	40	41

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
FDEP	Florida Department of Environmental Protection
G	Grid
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NC	Not calculable
ROW	Right-of-way
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
U	The analyte was not detected at or above the minimum reporting limit.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

TABLE 11
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
ON-SITE DRAIN AND OFF-SITE CITY STORM WATER DRAINAGE PIPE/CULVERT MATERIAL ANALYTICAL RESULTS

Analyte	On-Site Drain						
	WT-DN-01-SD	WT-DN-02-SD	WT-DN-03-SD	WT-DN-04-SD	WT-DN-05-SD	WT-DN-06-SD	WT-DN-07-SD
Metals (mg/kg)							
Arsenic	630	730	4,100	11,000	850	200	190
Chromium	870	1,200	5,000	5,800	1,100	320	360
Chromium VI	9.0 J	6 U	29 J	19 J	6.3 U	6.4 U	6.5 U
Chromium III	861.0	1,200	4,971	5,781	1,100	320	360
Copper	600	870	8,900	7,600	780	260	240

Analyte	On-Site Drain					City Storm Water Drainage Pipe/Culvert
	WT-DN-08-SD	WT-DN-09-SD	WT-DN-10-SD	WT-DN-11-SD	WT-DN-12-SD	WT-DP-03-SD
Metals (mg/kg)						
Arsenic	390	1,900	1,600	270	150	47
Chromium	730	3,700	3,300	460	270	150
Chromium VI	6.0 U	6.9 U	5.6 UJ	6.4 U	5.4 U	7.2 U
Chromium III	730	3,700	3,300	460	270	150
Copper	520	1,900	1,800	310	160	32

Notes:

Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
DN	Drain
DP	Drainage pipe
J	The identification of the analyte is acceptable; the reported value is an estimate.
mg/kg	Micrograms per kilogram
SD	Sediment
U	The analyte was not detected at or above the minimum reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters

TABLE 12
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
STES RETENTION POND SEDIMENT ANALYTICAL RESULTS

Analyte	FDEP Quality Assessment Guidelines[a]	STES Retention Pond	
	Sediment	WT-STRP-01-SD	WT-STRP-02-SD
Metals (mg/kg)			
Arsenic	9.8	6.1	2.1
Chromium	43	12	6.4
Copper	32	15	4.7

Notes:

[a] Values listed were obtained from the 2003 FDEP Sediment Quality Assessment Guidelines for Florida Inland V threshold effect concentrations (TEC).

EPA U.S. Environmental Protection Agency
FDEP Florida Department of Environmental Protection
mg/kg Milligrams per kilogram
SD Sediment
STES Susie Tolbert Elementary School
STRP Susie Tolbert retention pond
WT Fairfax Street Wood Treaters

TABLE 13
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
MONCRIEF CREEK SEDIMENT ANALYTICAL RESULTS

Analyte	FDEP Quality Assessment Guidelines[a] Sediment	Background WT-MC-01-SD	WT-MC-02-SD	WT-MC-03-SD	WT-MC-04-SD	WT-MC-05-SD
Metals (mg/kg)						
Arsenic	9.8	1.4	0.90	1.3	0.56	**6.4**
Chromium	43	5.6	3.3	3.9	3.1	**35**
Chromium VI	NL	6.6 U	5.2 U	5.7 U	5.0 U	6.2 U
Chromium III	NL	5.6	3.3	3.9	3.1	**35**
Copper	32	19 J+	9.8	11	5.8	**22**

Analyte	FDEP Quality Assessment Guidelines[a] Sediment	WT-MC-06-SD	WT-MC-07-SD	WT-MC-08-SD	WT-MC-09-SD	WT-MC-09-SD-DUP
Metals (mg/kg)						
Arsenic	9.8	**8.6**	**1.7**	**200**	1.0	1.2
Chromium	43	**34**	**20**	**330**	**7.0**	**9.0**
Chromium VI	NL	NA	NA	NA	4.8 UJ	5.7 U
Chromium III	NL	NC	NC	NC	7.0	9.0
Copper	32	**46**	4.7	**40**	4.0	4.4

Analyte	FDEP Quality Assessment Guidelines[a] Sediment	WT-MC-10-SD	WT-MC-11-SD	WT-MC-12-SD	WT-MC-12-SD-DUP	WT-MC-13-SD
Metals (mg/kg)						
Arsenic	9.8	**20**	**1.4**	**42**	**47**	**25**
Chromium	43	**220 J-**	4.3	**61**	**43**	**75**
Copper	32	**79 J-**	3.8	**22**	**20**	**94**

TABLE 13
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
MONCRIEF CREEK SEDIMENT ANALYTICAL RESULTS

Analyte	FDEP Quality Assessment Guidelines[a] Sediment	WT-MC-14-SD	WT-MC-15-SD
Metals (mg/kg)			
Arsenic	9.8	**6.1**	**55**
Chromium	43	**26**	**190**
Copper	32	16	**110**

Notes:

[a]	Values listed were obtained from the 2003 FDEP Sediment Quality Assessment Guidelines for Florida Inland Waters, and are thres concentrations (TEC).
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
DUP	Field duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
J+	The identification of the analyte is acceptable; the reported value is an estimate with a possible high bias.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Micrograms per kilogram
MC	Moncrief Creek
NA	Not analyzed
NC	Not calculable
NL	Not listed
SD	Sediment
U	The analyte was not detected at or above the minimum reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
BOLD	Bolded values are above the highest background concentration for each analyte.
	Shaded values are above the FDEP quality assessment guideline.
BOLD	Bolded and shaded values are above background and the FDEP quality assessment guideline.

TABLE 14
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
CITY STORM WATER DRAINAGE PIPE/CULVERT SURFACE WATER ANALYTICAL RESULTS

Analyte	EPA Region 4 Screening Value[a] Surface Water	FDEP SWCTL Freshwater	Background WT-DP-01-SW	Background WT-DP-02-SW	City Storm Water Drainage Pipe/Culvert WT-DP-03-SW
Metals (µg/L)					
Arsenic	190[b]	50[c]	1.0 U	1.0 U	2.8
Chromium	NL	11	1.0 U	1.0 U	5.9
Copper	6.54	NL	1.3	1.0	4.1
Dissolved Metals (µg/L)					
Arsenic	190[b]	50[c]	1.0 U	1.0 U	1.0 U
Chromium	NL	11	1.0 U	1.0 U	1.0 U
Chromium VI	11	11[c]	1.0 U	1.0 U	1.0 U
Chromium III	117.32	NL	1.0 U	1.0 U	1.0 U
Copper	6.54	NL	1.2	1.0 U	1.0 U

Notes:

[a] Surface water chronic screening values were obtained from the EPA Region 4 Ecological Risk Assessment Bulletin, November 2001, Table 1.
[b] Value listed is for arsenic III
[c] Value listed was obtained from the Florida Administrative Code, Chapter 62-302.530 for Potable Water Supply

Chromium VI Hexavalent chromium
Chromium III Trivalent chromium
DP Drainage pipe
EPA U.S. Environmental Protection Agency
FDEP Florida Department of Environmental Protection
FSWT Fairfax Street Wood Treaters
µg/L Micrograms per liter
NL Not listed
SW Surface water
SWCTL Surface Water Cleanup Target Levels
U The analyte was not detected at or above the minimum reporting limit.
WT Fairfax Street Wood Treaters

TABLE 15
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
RETENTION POND SURFACE WATER ANALYTICAL RESULTS

Analyte	EPA Region 4 Screening Value[a] Surface Water	FDEP SWCTL Freshwater	FSWT Retention Pond WT-FSRP-01-SW	STES Retention Pond WT-STRP-01-SW	STES Retention Pond WT-STRP-02-SW
Metals (µg/L)					
Arsenic	190[b]	50[c]	760	3.8	4.3
Chromium	NL	11	9.2	5.0 U	5.0 U
Copper	6.54	NL	42	10 U	10 U
Dissolved Metals (µg/L)					
Arsenic	190[b]	50[c]	750	3.5	2.7
Chromium	NL	11	6.7	5.0 U	5.0 U
Chromium VI	11	11[c]	4.5	NA	NA
Chromium III	117.32	NL	2.2	NC	NC
Copper	6.54	NL	32	10 U	10 U

Notes:

[a]	Surface water chronic screening values were obtained from the EPA Region 4 Ecological Risk Assessment Bulletin, Nov
[b]	Value listed is for arsenic III
[c]	Value listed was obtained from the Florida Administrative Code, Chapter 62-302.530 for Potable Water Supply
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FSRP	Fairfax Street Retention Pond
FSWT	Fairfax Street Wood Treaters
µg/L	Micrograms per liter
NA	Not analyzed
NC	Not calculable
NL	Not listed
STES	Susie Tolbert Elementary School
STRP	Susie Tolbert Retention Pond
SW	Surface water
SWCTL	Surface Water Cleanup Target Levels
U	The analyte was not detected at or above the minimum reporting limit.
WT	Fairfax Street Wood Treaters
	Shaded values are above either the EPA Region 4 screening value or the FDEP SWCTL.

TABLE 16
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
MONCRIEF CREEK SURFACE WATER ANALYTICAL RESULTS

Analyte	EPA Region 4 Screening Value[a] Surface Water	FDEP SWCTL Freshwater	Background WT-MC-01-SW	WT-MC-02-SW	WT-MC-03-SW	WT-MC-04-SW
Metals (µg/L)						
Arsenic	190[b]	50[c]	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	NL	11	1.0 U	1.0 U	1.0 U	1.0 U
Copper	6.54	13.78[d]	10 U	10 U	10 U	10 U
Dissolved Metals (µg/L)						
Arsenic	190[b]	50[c]	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	NL	11	1.0 U	1.0 U	1.0 U	1.0 U
Chromium VI	11	11[c]	1.0 U	1.0 U	1.0 U	1.0 U
Chromium III	117.32	NL	1.0 U	1.0 U	1.0 U	1.0 U
Copper	6.54	13.22[d]	10 U	10 U	10 U	10 U

Analyte	EPA Region 4 Screening Value[a] Surface Water	FDEP SWCTL Freshwater	WT-MC-05-SW	WT-MC-06-SW	WT-MC-07-SW	WT-MC-08-SW
Metals (µg/L)						
Arsenic	190[b]	50[c]	1.0 U	1.0 U	1.0 U	**1.2**
Chromium	NL	11	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Copper	6.54	13.78[d]	10 U	10 U	**10**	10 U
Dissolved Metals (µg/L)						
Arsenic	190[b]	50[c]	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	NL	11	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Chromium VI	11	11[c]	1.0 U	NA	NA	NA
Chromium III	117.32	NL	1.0 U	NC	NC	NC
Copper	6.54	13.22[d]	10 U	10 U	10 U	10 U

TABLE 16
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
MONCRIEF CREEK SURFACE WATER ANALYTICAL RESULTS

Analyte	EPA Region 4 Screening Value[a] Surface Water	FDEP SWCTL Freshwater	WT-MC-09-SW	WT-MC-09-SW-DUP	WT-MC-10-SW	WT-MC-11-SW
Metals (µg/L)						
Arsenic	190[b]	50[c]	**1.9**	**1.9**	**3.4**	**2.1**
Chromium	NL	11	1.0 UJ	5.0 U	**6.6**	5.0 U
Copper	6.54	13.78[d]	10 U	10 U	10 U	10 U
Dissolved Metals (µg/L)						
Arsenic	190[b]	50[c]	**1.3**	**1.3**	**2.3**	**1.4**
Chromium	NL	11	5.0 U	5.0 U	5.0 U	5.0 U
Chromium VI	11	11[c]	1.0 U	1.0 U	NA	NA
Chromium III	117.32	NL	5.0 U	5.0 U	NC	NC
Copper	6.54	13.22[d]	10 U	10 U	10 U	10 U

Analyte	EPA Region 4 Screening Value[a] Surface Water	FDEP SWCTL Freshwater	WT-MC-12-SW	WT-MC-13-SW	WT-MC-14-SW	WT-MC-15-SW
Metals (µg/L)						
Arsenic	190[b]	50[c]	**21**	**1.9**	**2.4**	**2.3**
Chromium	NL	11	5.0 U	5.0 U	5.0 U	5.0 U
Copper	6.54	13.78[d]	10 U	10 U	10 U	10 U
Dissolved Metals (µg/L)						
Arsenic	190[b]	50[c]	**6.8**	**1.1**	**1.6**	**1.7**
Chromium	NL	11	5.0 U	5.0 U	5.0 U	5.0 U
Chromium VI	11	11[c]	NA	NA	NA	NA
Chromium III	117.32	NL	NC	NC	NC	NC
Copper	6.54	13.22[d]	10 U	10 U	10 U	10 U

TABLE 16
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
MONCRIEF CREEK SURFACE WATER ANALYTICAL RESULTS

Notes:

[a]	Surface water chronic screening values were obtained from the EPA Region 4 Ecological Risk Assessment Bulletin, November 2001, Table 1.
[b]	Value listed is for arsenic III.
[c]	Value listed was obtained from the Florida Administrative Code, Chapter 62-302.530 for Potable Water Supply.
[d]	Value listed was calculated based on hardness of surface water in Moncrief Creek (see Appendix J).
Chromium VI	Hexavalent chromium
Chromium III	Trivalent chromium
DUP	Field duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
µg/L	Micrograms per liter
MC	Moncrief Creek
NA	Not analyzed
NC	Not calculable
NL	Not listed
SW	Surface water
SWCTL	Surface Water Cleanup Target Levels
U	The analyte was not detected at or above the minimum reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
BOLD	Bolded values are above the highest background value for each analyte for total and dissolved metals.
BOLD	Bolded and shaded values are above background and either the EPA Region 4 screening value or the FDEP SWCTL.

TABLE 17
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
PERMANENT MONITORING WELL GROUNDWATER PARAMETERS

Well ID	Sample ID	Elevation at Top of Casing (feet)*	Depth of Screen Interval (feet bls)	Total Well Depth (feet bls)	Depth to Water (feet bls)			Water Column (feet)			Purge Volume (gallons)		
					Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13
PMW-01	WT-PMW-01-GW	26.11	9.52 to 19.52	19.52	6.55	2.35	2.16	12.97	17	17.36	2.25	2.5	2.25
PMW-02	WT-PMW-02-GW	26.87	9.52 to 19.52	19.52	7.11	3.08	3.92	12.47	16.67	15.6	3.6	2.5	2.5
PMW-03	WT-PMW-03-GW	27.06	10.16 to 20.16	20.16	8.14	5.43	5.95	12.02	14.58	14.21	3	2	2.3
PMW-04	WT-PMW-04-GW	25.86	9.56 to 19.56	19.56	5.87	3.02	3.3	13.69	16.35	16.26	1.8	1.5	1.5
PMW-05	WT-PMW-05-GW	25.57	9.62 to 19.62	19.62	6.30	3.11	3.64	13.32	16.37	15.98	1.2	1.5	2.25
PMW-06S	WT-PMW-06S-GW	25.89	9.59 to 19.59	19.59	6.68	4.10	4.88	12.91	15.32	14.71	0.9	1.5	2.65
PMW-06D	WT-PMW-06D-GW	25.43	30.29 to 40.29	40.29	7.73	7.65	6.59	32.56	32.47	33.7	1.1	4	2.5
PMW-07	WT-PMW-07-GW	26.72	9.93 to 19.93	19.93	8.45	4.44	6.11	11.48	15.33	13.82	8.5	2	2.15

Well ID	Sample ID	Temperature (°C)			pH (std. units)			Conductivity (mS/cm)			Turbidity (NTU)		
		Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13
PMW-01	WT-PMW-01-GW	23.7	27.57	22.95	6.13	5.81	5.47	0.322	0.165	0.191	2.84	9.85	1.75
PMW-02	WT-PMW-02-GW	22.4	26.66	21.78	5.50	5.62	4.70	0.316	0.195	0.123	8.51	9.56	7.75
PMW-03	WT-PMW-03-GW	20.7	25.64	20.44	5.74	5.77	5.59	0.856	0.278	0.437	9.59	3.21	0.30
PMW-04	WT-PMW-04-GW	22.8	26.02	22.35	5.55	5.06	4.63	0.359	0.147	0.155	6.66	4.13	6.92
PMW-05	WT-PMW-05-GW	22.4	26.09	22.46	5.50	5.10	4.58	0.452	0.189	0.213	9.7	4.47	0.31
PMW-06S	WT-PMW-06S-GW	22.6	26.89	22.8	5.10	5.02	4.59	0.797	0.388	0.397	3.18	8.69	1.18
PMW-06D	WT-PMW-06D-GW	23.8	24.74	23.8	6.95	7.11	6.85	0.665	0.555	0.683	6.37	2.13	1.07
PMW-07	WT-PMW-07-GW	23.3	26.03	22.61	6.21	6.30	6.11	0.774	0.724	0.867	6.36	1.75	1.93

Notes:

*	Elevations are on North American Vertical Datum (NAVD) 1988 and are expressed in feet in relation to mean high sea level.
bls	Below land surface
°C	Degrees Celsius
D	Deep
GW	Groundwater
ID	Identification
mS/cm	Millisiemens per centimeter
NTU	Nephelometric turbidity units
PMW	Permanent monitoring well
S	Shallow
std.	Standard
WT	Fairfax Street Wood Treaters

TABLE 18
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
PERMANENT MONITORING WELL GROUNDWATER ANALYTICAL RESULTS

Analyte	EPA Region 4 MCL	FDEP GCTL	WT-PMW-01-GW			WT-PMW-02-GW			WT-PMW-03-GW		
			Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13
Total Metals (µg/L)											
Arsenic	10[a]	10[b]	1.0 U	1.2	1.0 U	2.6	4.2	3.1	3.7	5.9	6.5
Chromium	100	100[b]	5.0 U	1.4	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Copper	1,300	1,000[c]	10 U	1.6	10.0 U	10 U	1.5	10 U	10 U	1.0 U	10 U
Dissolved Metals (µg/L)											
Arsenic	10[a]	10[b]	1.0 U	1.0 U	1.0 U	2.4	3.6	2.4	3.5	5.7	5.9
Chromium	100	100[b]	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Chromium VI	NL	NL	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Chromium III	NL	NL	5.0 U	1.0 U	5.0 U	NC	1.0 U	5.0 U	NC	1.0 U	5.0 U
Copper	1,300	1,000[c]	10 U	1.0 U	10 U	10 U	1.0 U	10 U	10 U	1.0 U	10 U

Analyte	EPA Region 4 MCL	FDEP GCTL	WT-PMW-04-GW			WT-PMW-05-GW				WT-PMW-06S-GW			
			Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Aug-12 (DUP)	Feb-13	Feb-12	Feb-12 (DUP)	Aug-12	Feb-13
Total Metals (µg/L)													
Arsenic	10[a]	10[b]	1.3	1.0	1.2	2.0	3.2	3.1	2.1	1.7	1.8	1.7	1.7
Chromium	100	100[b]	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	3.6	5.0 U
Copper	1,300	1,000[c]	10 U	1.0 U	10.0 U	10 U	1.0 U	1.0 UJ	10 U	10 U	10 U	1.0 U	10 U
Dissolved Metals (µg/L)													
Arsenic	10[a]	10[b]	1.0	1.0 U	1.0 U	1.9	2.9	2.8	2.2	1.7	1.9	1.4	1.5
Chromium	100	100[b]	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.2	3.4	5.0 U
Chromium VI	NL	NL	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium III	NL	NL	NC	1.0 U	5.0 U	NC	1.0 U	1.0 U	5.0 U	5.0 U	5.2	3.4	5.0 U
Copper	1,300	1,000[c]	10 U	1.0 U	10 U	10 U	1.0 U	2.2 J	10 U	10 U	10 U	1.0 U	10 U

Analyte	EPA Region 4 MCL	FDEP GCTL	WT-PMW-06D-GW			WT-PMW-07-GW			
			Feb-12	Aug-12	Feb-13	Feb-12	Aug-12	Feb-13	Feb-13 (DUP)
Total Metals (µg/L)									
Arsenic	10[a]	10[b]	1.2	1.1	1.0 U	3.7	10	9.3	9.2
Chromium	100	100[b]	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Copper	1,300	1,000[c]	10 U	1.0 U	10.0 U	10 U	1.0 U	10 U	10 U
Dissolved Metals (µg/L)									
Arsenic	10[a]	10[b]	1.3	1.0 U	1.0 U	3.7	9.2	7.4	6.5
Chromium	100	100[b]	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Chromium VI	NL	NL	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
Chromium III	NL	NL	5.0 U	1.0 U	5.0 U	NC	1.0 U	5.0 U	5.0 U
Copper	1,300	1,000[c]	10 U	1.0 U	10 U	10 U	1.0 U	10 U	10 U

TABLE 18
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION
PERMANENT MONITORING WELL GROUNDWATER ANALYTICAL RESULTS

Notes:

[a]	Value listed is for inorganic arsenic.
[b]	Value listed was obtained from the Florida Administrative Code, Chapter 62-550, Table 1.
[c]	Value listed was obtained from the Florida Administrative Code, Chapter 62-550, Table 6.
06D	PMW 06 - deep
06S	PMW 06 - shallow
DUP	Field duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
GCTL	Groundwater Cleanup Target Level
GW	Groundwater
J	The identification of the analyte is acceptable; the reported value is an estimate.
MCL	Maximum Contaminant Level
µg/L	Micrograms per liter
NA	Not analyzed
NC	Not calculable
NL	Not listed
PMW	Permanent monitoring well
U	The analyte was not detected at or above the minimum or method reporting limit.
UJ	The analyte was not detected at or above the minimum reporting limit; the reported value is an estimate.
	Shaded values are above either the EPA Region 4 MCL or the FDEP GCTL.

APPENDIX C

PREVIOUS EPA INVESTIGATIONS ANALYTICAL RESULTS TABLES: SAMPLES REPRESENTING CURRENT CONDITIONS

(15 Pages)

TABLE

TABLE 1
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR BACKGROUND SOIL SAMPLES

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Hex Chromium (mg/kg)	Copper (mg/kg)
August 2010	FRW-SS-BKG[a]	1.26	5.44	0.45 U	8.19
January 2011	FWT-00-SB-A2	1.14 J	5.47	NA	10.1
	FWT-00-SB-B	1.63	3.94	NA	15.6
	FWT-00-SB-C	1.07 U	1.32	NA	1.33
	FWT-23-SF[b]	2.35 U	5.85	NA	9.68
	FWT-31-SF[bc]	2.40 U	4.67	NA	8.25
	FWT-24-SF[b]	2.14 U	3.48	NA	4.26
	FWT-25-SF[b]	2.08 U	3.12	NA	3.82
May 2011	WT-BG-SF-01[b]	1.8 U	6.7	NA	5.6 J
July 2011	WT-BG-02-SS-A	1.6 J-	14 J-	5.0 UJ	37
	WT-BG-02-SS-B	1.1 UJ	2.2	NA	3.0
	WT-BG-02-SS-C	1.1 UJ	5.6	NA	2.7 U

Notes:

[a]	Collection depth of 0 to 4 inches bls
[b]	Collection depth of 0 to 6 inches bls
[c]	Surface soil sample FWT-31-SF is a duplicate of FWT-23-SF.
A	Collection depth of 0 to 6 inches bls
A2	Collection depth of 0 to 12 inches bls
B	Collection depth of 12 to 24 inches bls for January 2011 samples and 18 to 24 inches bls for July 2011 samples
BG	Background
BKG	Background
bls	Below land surface
C	Collection depth of 24 to 36 inches bls for January 2011 samples and 36 to 42 inches bls for July 2011 samples
EPA	U.S. Environmental Protection Agency
FRW	Fairfax Street Wood Treaters
FWT	Fairfax Street Wood Treaters
Hex	Hexavalent
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
SB	Subsurface soil
SF	Surface soil
SS	Soil sample
U	The analyte was not detected at or above the minimum or method reporting limit.
UJ	The analyte was not detected at or above the minimum or method reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
August 2010	Final Emergency Response Report dated May 10, 2011 (Refs. 17; 18; 19; and 20)
January 2011	Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)
May 2011	Revised Final Integrated Site Inspection Report dated August 22, 2011 (Ref. 15)
July 2011	Removal Confirmation and Residential Sampling dated October 27, 2011 (Ref. 25)

TABLE 2
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR ON-SITE SURFACE SOIL SAMPLES (0 TO 6 INCHES BLS)

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Hex Chromium (mg/kg)	Copper (mg/kg)
	Screening Value* (SF)	**2.36**	**210[a]**	**210**	**150**
January 2011	FWT-44-SF	27.9	53.5	NA	60.8
	FWT-45-SF	2.04	4.83	NA	7.70
May 2011	WT-SF-01	100	480	NA	170
	WT-SF-02	70	190	NA	87
	WT-SF-02-DUP	56	130	NA	62
	WT-SF-03	110	200	NA	98
	WT-SF-04	0.72 U	120	NA	1.8 U
	WT-SF-05	3.3	24	NA	4.8 J
	WT-SF-05-DUP	5.8	190	NA	13
	WT-SF-06	18	98	NA	35
	WT-SF-07	39	1,300	NA	40
	WT-SF-08	80	150	NA	91
	WT-SF-09	2.0	300	NA	5.0
	WT-SF-10	1.5	8.5	NA	9.7
	WT-SF-11	0.67 J	4.2	NA	2.3 U
	WT-SF-12	5.8	13	NA	7.9
	WT-SF-13	5.1	22	NA	10
	WT-SF-14	0.67 J	3.3	NA	2.0 U
	WT-SF-15	0.45 J	1.3	NA	2.3 U
	WT-SF-16	9.5	24	NA	17
	WT-SF-17	0.36 J	2.2	NA	2.3 U
	WT-SF-18	0.55 J	1.1	NA	2.1 U
	WT-SF-19	130	500	NA	220 J
	WT-SF-20	6.7	460	NA	10 J
July 2011	WT-G01-SS-A	5.5 J	78	5.8 UJ	11
	WT-G02-SS-A	10 J	47	NA	17
	WT-G03-SS-A	44 J	170	5.2 UJ	300
	WT-G04-SS-A	18 J	230	5.5 UJ	26
	WT-G04-SS-A-DUP	23 J	280 J	NA	41
	WT-G05-SS-A	35 J	210	5.4 UJ	72
	WT-G06-SS-A	16 J	120	NA	26
	WT-G07-SS-A	6.3 J	82	4.8 UJ	8.5
	WT-G08-SS-A	24 J	120	NA	40
	WT-G09-SS-A	34 J	90	5.5 UJ	59
	WT-G10-SS-A	31 J	81	NA	37
	WT-G11-SS-A	3.4 J	21	5.2 UJ	11
	WT-G12-SS-A	11 J	54	NA	25
	WT-G13-SS-A	27 J	91	5.4 UJ	44
	WT-G14-SS-A	22 J	200	NA	32
	WT-G15-SS-A	28 J	99	5.5 UJ	40

TABLE 2
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR ON-SITE SURFACE SOIL SAMPLES (0 TO 6 INCHES BLS)

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
A	Collection depth of 0 to 6 inches bls
bls	Below land surface
DUP	Duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
G	Grid
Hex	Hexavalent
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
mg/kg	Milligrams per kilogram
NA	Not analyzed
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches bls)
SS	Soil sample
U	The analyte was not detected at or above the minimum or method reporting limit.
UJ	The analyte was not detected at or above the minimum or method reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

January 2011	Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)
May 2011	Revised Final Integrated Site Inspection Report dated August 22, 2011 (Ref. 15)
July 2011	Removal Confirmation and Residential Sampling dated October 27, 2011 (Ref. 25)

TABLE 3
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR ON-SITE SUBSURFACE SOIL SAMPLES (18 TO 24 INCHES BLS)

Investigation	Analyte: Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)
	Screening Value* (SB)	**2.1**	**210[a]**	**150**
January 2011	FWT-03-SB-B	2.05	5.38 J	5.90
	FWT-23-SB-B[b]	2.97	14.1 J	6.93
	FWT-05-SB-B	0.914	33.3	1.05
	FWT-08-SB-B	0.582	11.0	0.543 U
	FWT-11-SB-B	6.94	17.3	10.5
	FWT-13-SB-B	9.35	24.7	13.5
July 2011	WT-G01-SS-B	4.3 J	12	13
	WT-G02-SS-B	2.8 J-	10	8.4
	WT-G03-SS-B	15 J	46	31
	WT-G04-SS-B	7.3 J	18	15
	WT-G04-SS-B-DUP	14 J	26 J	16
	WT-G05-SS-B	0.63 J	15	2.9 U
	WT-G06-SS-B	0.55 UJ	3.8	2.8 U
	WT-G07-SS-B	1.7 J	26	2.7 U
	WT-G08-SS-B	0.67 J	8.9	2.8 U
	WT-G09-SS-B	0.83 J	5.2	2.7 U
	WT-G10-SS-B	0.55 UJ	2.7	2.7 U
	WT-G11-SS-B	5.4 J	21	11
	WT-G12-SS-B	11 J	64	23
	WT-G13-SS-B	8.9 J	37	15
	WT-G14-SS-B	8.6 J	34	21
	WT-G15-SS-B	1.4 J	3.9	2.8 U

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
a	Value listed is for total chromium.
b	Subsurface soil sample FWT-23-SB-B is a duplicate of FWT-03-SB-B.
B	Collection depth of 12 to 24 inches bls for January 2011 samples and 18 to 24 inches bls for July 2011 samples
bls	Below land surface
DUP	Duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FWT	Fairfax Street Wood Treaters
G	Grid
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
SB	Subsurface soil
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SS	Soil sample
U	The analyte was not detected at or above the minimum or method reporting limit.
UJ	The analyte was not detected at or above the minimum or method reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.
January 2011	Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)
July 2011	Removal Confirmation and Residential Sampling dated October 27, 2011 (Ref. 25)

TABLE 4
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR ON-SITE SUBSURFACE SOIL SAMPLES (24 TO 36 INCHES BLS)

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)
	Screening Value* (SB)	**2.1**	**210[a]**	**150**
January 2011	FWT-03-SB-C	85.9 J	92.6 J	90.1 J
	FWT-23-SB-C[b]	1.08 J	3.11 J	4.22 J
	FWT-05-SB-C	0.553 U	16.8	0.553 U
	FWT-08-SB-C	3.92	14.8	2.23 U
	FWT-11-SB-C	2.22 U	1.80 J	2.22 U
	FWT-13-SB-C	8.20	21.7	21.2

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
[b]	Subsurface soil sample FWT-23-SB-C is a duplicate of FWT-03-SB-C.
bls	Below land surface
C	Collection depth of 24 to 36 inches bls
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FWT	Fairfax Street Wood Treaters
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
mg/kg	Milligrams per kilogram
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SB	Subsurface soil
U	The analyte was not detected at or above the minimum or method reporting limit.
	Shaded values are above the screening value.

January 2011 Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)

TABLE 5
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR ON-SITE SUBSURFACE SOIL SAMPLES (36 TO 42 INCHES BLS)

Investigation	Analyte: Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)
	Screening Value* (SB)	**2.1**	**210[a]**	**150**
July 2011	WT-G01-SS-C	0.58 UJ	3.0	2.9 U
	WT-G02-SS-C	2.9 J	8.3	5.6
	WT-G03-SS-C	1.3 J	3.5	3.0 U
	WT-G04-SS-C	0.57 UJ	2.8	5.3
	WT-G04-SS-C-DUP	0.38 J′	3.0 J	2.7 U
	WT-G05-SS-C	0.91 J	10	2.8 U
	WT-G06-SS-C	0.27 J′	6.4 J	2.7 U
	WT-G07-SS-C	1.1 J	51	2.9 U
	WT-G08-SS-C	0.38 J′	6.6 J	2.9 U
	WT-G09-SS-C	0.28 J′	3.6 J	2.7 U
	WT-G10-SS-C	0.33 J′	7.1 J	2.8 U
	WT-G11-SS-C	0.87 J	7.1 J	5.0
	WT-G12-SS-C	7.0 J	31	10
	WT-G13-SS-C	0.25 J′	4.4 J	2.8 U
	WT-G14-SS-C	0.34 J′	5.1 J	2.8 U
	WT-G15-SS-C	0.40 J′	8.2 J	2.8 U

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
bls	Below land surface
C	Collection depth of 36 to 42 inches bls
DUP	Duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
G	Grid
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
J′	Concentration reported is less than the lowest standard on the calibration curve.
mg/kg	Milligrams per kilogram
SB	Subsurface soil
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SS	Soil sample
U	The analyte was not detected at or above the minimum or method reporting limit.
UJ	The analyte was not detected at or above the minimum or method reporting limit; the reported value is an estimate.
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

July 2011 Removal Confirmation and Residential Sampling dated October 27, 2011 (Ref. 25)

TABLE 6
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR SCHOOL SURFACE SOIL SAMPLES (0 TO 6 INCHES BLS)

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Hex Chromium (mg/kg)	Copper (mg/kg)
	ScreeningValue* (SF)	NL	NL	NL	NL
January 2011	FWT-02-SF	12.3	28.5	NA	17.6
	FWT-03-SF	1.89	5.19	NA	4.22
	FWT-04-SF	2.21	6.50	NA	5.63
	FWT-05-SF	2.27 U	2.02 J	NA	1.15 J
	FWT-06-SF	2.27 U	4.69	NA	9.67
	FWT-07-SF	2.27 J	4.50	NA	4.98
	FWT-08-SF	2.40 U	5.16	NA	1.90 J
	FWT-09-SF[b]	1.91 U	4.44	NA	0.649 J
	FWT-10-SF	2.34 U	2.10 J	NA	2.70
	FWT-11-SF	2.04	5.19	NA	5.36
	FWT-12-SF	5.27	12.6	NA	8.10
	FWT-13-SF	3.39	7.35	NA	7.96
	FWT-14-SF	2.24 U	2.94	NA	1.05 J
	FWT-15-SF	2.47	8.56	NA	2.20 J
	FWT-16-SF	1.89 U	2.32	NA	8.12
	FWT-17-SF	4.90	18.1	NA	49.9
	FWT-30-SF[c]	3.82	16.6	NA	74.5
	FWT-18-SF	1.82 J	5.05	NA	9.45
	FWT-19-SF	1.81 J	4.31	NA	5.69
	FWT-20-SF	0.591	2.31	NA	3.67
	FWT-21-SF	1.54 J	3.78	NA	1.02 J
	FWT-22-SF	2.23 U	3.51	NA	9.38
	FWT-26-SF	2.17 U	1.36 J	NA	1.18 J
	FWT-27-SF	1.97 U	1.51 J	NA	1.94 J
	FWT-28-SF	1.93 U	2.66	NA	1.93 U
	FWT-29-SF	1.55 J	2.55	NA	2.72
March 2011	FSWT-CS-01[d]	4.09	13.1	1.1 U	6.49
	FSWT-CS-02[d]	2.27 U	6.53	1.1 U	0.783 J

TABLE 6
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR SCHOOL SURFACE SOIL SAMPLES (0 TO 6 INCHES BLS)

Notes:

*	There are no state or federal screening values for school properties. EPA's Regional Screening Levels are comparable to residential and industrial properties and FDEP's Soil Cleanup Target Levels are comparable to residential and commercial/industrial properties (Refs. 53; 66).
[a]	Value listed is for total chromium.
[b]	Surface soil sample FWT-09-SF is a duplicate of FWT-08-SF.
[c]	Surface soil sample FWT-30-SF is a duplicate of FWT-17-SF.
[d]	Sample collected from 6 to 12 inches bls
bls	Below land surface
CS	Confirmation sample collected from 0 to 6 inches below excavation surface
EPA	U.S. Environmental Protection Agency
FSWT	Fairfax Street Wood Treaters
FWT	Fairfax Street Wood Treaters
Hex	Hexavalent
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NL	Not listed
SF	Surface soil (0 to 6 inches bls)
U	The analyte was not detected at or above the minimum or method reporting limit.

January 2011	Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)
March 2011	Final Removal Action Letter Report dated September 16, 2011 (Ref. 27)

TABLE 7
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR SCHOOL SUBSURFACE SOIL SAMPLES (12 TO 24 INCHES BLS)

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Hex Chromium (mg/kg)	Copper (mg/kg)
Screening Value* (SB)		NL	NL	NL	NL
January 2011	FWT-15-SB-B	0.544 U	1.25	NA	0.544 U
	FWT-16-SB-B	1.97 U	2.93	NA	1.97 U
	FWT-17-SB-B	2.26 U	4.66	NA	2.26 U
	FWT-18-SB-B	0.537 U	1.32	NA	0.537 U
	FWT-19-SB-B	2.27 U	3.11	NA	2.27 U
	FWT-20-SB-B	2.19 U	2.86	NA	2.19 U
	FWT-21-SB-B	0.759	2.71	NA	2.81
	FWT-22-SB-B	2.15 U	2.93	NA	2.15 U
March 2011	FSWT-CS-03[b]	2.58	11.3	1.1 U	1.90 J

Notes:

*	There are no state or federal screening values for school properties. EPA's Regional Screening Levels are comparable to residential and industrial properties and FDEP's Soil Cleanup Target Levels are comparable to residential and commercial/industrial properties (Refs. 53; 66).
[a]	Value listed is for total chromium.
[b]	Sample collected from 18 to 24 inches bls
B	Collection depth of 12 to 24 inches bls
bls	Below land surface
CS	Confirmation sample collected from 0 to 6 inches below excavation surface
EPA	U.S. Environmental Protection Agency
FSWT	Fairfax Street Wood Treaters
FWT	Fairfax Street Wood Treaters
Hex	Hexavalent
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
mg/kg	Milligrams per kilogram
NA	Not analyzed
NL	Not listed
SB	Subsurface soil
U	The analyte was not detected at or above the minimum or method reporting limit.

January 2011	Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)
March 2011	Final Removal Action Letter Report dated September 16, 2011 (Ref. 27)

TABLE 8
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM
RESIDENTIAL PROPERTIES EAST OF FSWT

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Hex Chromium (mg/kg)	Copper (mg/kg)
	Screening Value* (SF)	**2.36**	**210[a]**	**210**	**150**
May 2011[b]	WT-RP-SF-05	6.5	20	NA	14 J
	WT-RP-SF-06	8.5	19	NA	20 J
July 2011[b]	WT-RP-10-SF-BY	4.6 J	17 J	NA	15
	WT-RP-10-SF-FY	5.6 J	17	NA	33
	WT-RP-11-SF-BY	11 J	34	NA	51 J+
	WT-RP-11-SF-FY	6.5 J	23	NA	19
	WT-RP-12-SF-BY	6.0 J	20	NA	25
	WT-RP-12-SF-FY	3.8 J	13	NA	12
	WT-RP-13-SF-BY	6.8 J	24	NA	26
	WT-RP-13-SF-FY	3.9 J	14	NA	18
October 2011[c]	WT-CS-2719Fairfax	2.25	4.79	0.076 UJ	10.3
	WT-CS-2719Fairfax-Dup	1.81	3.97	0.075 UJ	8.05
	FWT-CS-2705WS	4.68	10.6 J+	0.077 UJ	9.13
	FWT-CS-2705NE	6.43	13.9 J+	0.077 U	11.40

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
a	Value listed is for total chromium.
b	During this investigation, samples were collected from 0 to 6 inches bls
c	During this investigation, confirmation samples were collected from 6 to 12 inches bls
BY	Backyard
CS	Confirmation sample collected 0 to 6 inches below excavation surface
Dup	Duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FSWT	Fairfax Street Wood Treaters
FWT	Fairfax Street Wood Treaters
FY	Front yard
Hex	Hexavalent
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
J+	The identification of the analyte is acceptable; the reported value is an estimate with a possible high bias.
mg/kg	Milligrams per kilogram
NA	Not analyzed
ND	Not detected
NE	North and east
RP	Residential property
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil
U	The analyte was not detected at or above the minimum or method reporting limit.
UJ	The analyte was not detected at or above the minimum or method reporting limit; the reported value is an estimate.
WS	West and south
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

May 2011	Revised Final Integrated Site Inspection Report dated August 22, 2011 (Ref. 15)
July 2011	Removal Confirmation and Residential Sampling dated October 27, 2011 (Ref. 25)
October 2011	Draft Addendum to the Final Removal Action Letter Report dated January 8, 2012 (Ref. 28)

TABLE 9
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM
RESIDENTIAL PROPERTIES SOUTH OF FSWT

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)
	Screening Value* (SF)	**2.36**	**210[a]**	**150**
January 2011[d]	FWT-48-SF	2.89	7.69	22.2
	FWT-49-SF	5.99	14.2	42.5
	FWT-50-SF-BY	2.26	7.90	11.1
	FWT-50-SF-FY	3.67	10.4	13.7
	FWT-51-SF-BY	1.75	4.91	7.90
	FWT-51-SF-FY	4.49	9.28	16.6
	FWT-52-SF-BY[b]	1.95	4.86	6.69
	FWT-52-SF-FY[c]	4.04	7.64	15.0
	FWT-53-SF	17.0	40.7	32.9
	FWT-54-SF	2.77	7.51	11.4
	FWT-55-SF	1.71	6.03	9.28
July 2011[d]	WT-RP-14-SF-BY	5.5 J	21	20
	WT-RP-14-SF-FY	8.5 J	28	22
	WT-RP-14-SF-FY-DUP	7.5 J	24	23
	WT-RP-15-SF-BY	1.4 J	8.1	8.2
	WT-RP-15-SF-FY	2.1 J	10	9.7
	WT-RP-16-SF-BY	4.3 J	15	19
	WT-RP-16-SF-FY	3.1 J	11	14
October 2011[e]	WT-CS-1857West13	4.81	7.17	9.75

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
a	Value listed is for total chromium.
b	Surface soil sample FWT-52-SF-BY is a duplicate of FWT-51-SF-BY.
c	Surface soil sample FWT-52-SF-FY is a duplicate of FWT-51-SF-FY.
d	During this investigation, samples were collected from 0 to 6 inches bls
e	During this investigation, confirmation samples were collected from 6 to 12 inches bls
BY	Backyard
CS	Confirmation sample collected 0 to 6 inches below excavation surface
DUP	Duplicate
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FSWT	Fairfax Street Wood Treaters
FWT	Fairfax Street Wood Treaters
FY	Front yard
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
mg/kg	Milligrams per kilogram
RP	Residential property
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

January 2011	Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)
July 2011	Removal Confirmation and Residential Sampling dated October 27, 2011 (Ref. 25)
October 2011	Draft Addendum to the Final Removal Action Letter Report dated January 8, 2012 (Ref. 28)

TABLE 10
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM
RESIDENTIAL PROPERTIES WEST OF FSWT

Investigation	Analyte: Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)
	Screening Value* (SF)	**2.36**	**210[a]**	**150**
January 2011	FWT-32-SF-BY	4.15	8.44	19.0
	FWT-32-SF-FY	1.35	4.91	5.15
	FWT-33-SF-BY	1.63	5.00	4.69
	FWT-33-SF-FY	2.19	7.02	5.34
	FWT-34-SF-FY	1.83	7.18	18.4
	FWT-35-SF-BY	7.33	9.92	8.64
	FWT-35-SF-FY	5.21	8.78	18.2
	FWT-36-SF-BY	12.4	36.3	53.3
	FWT-36-SF-FY	5.21	14.0	18.6
	FWT-37-SF-BY	5.01	17.3	47.6
	FWT-37-SF-FY	5.51	17.5	26.5
	FWT-38-SF-BY	15.0	52.4	33.7
	FWT-38-SF-FY	3.87	15.6	12.9
	FWT-39-SF-BY	30.4	127	70.6
	FWT-39-SF-FY	7.18	23.3	18.4
	FWT-40-SF-BY	22.4	71.8	58.4
	FWT-40-SF-FY	10.2	29.9	23.6
	FWT-41-SF-BY	28.7	58.0	44.0
	FWT-41-SF-FY	3.71	23.5	11.2
	FWT-43-SF-BY	7.69	22.7	36.1
	FWT-43-SF-FY	4.88	13.7	12.9
	FWT-44-SF	27.9	53.5	60.8
	FWT-45-SF	2.04	4.83	7.70
	FWT-46-SF-BY	2.63	7.02	12.0
	FWT-46-SF-FY	3.90	10.2	11.0
	FWT-47-SF-FY	1.39	9.09	9.64
July 2011	WT-RP-17-SF-BY	3.1 J	12	24
	WT-RP-17-SF-FY	2.2 J	9.9 J	13
	WT-RP-18-SF-BY	1.5 J	9.8	10
	WT-RP-18-SF-FY	1.4 J-	11	13
	WT-RP-19-SF-BY	3.1 J	21	16
	WT-RP-19-SF-FY	1.7 J	13	8.1

TABLE 10
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM
RESIDENTIAL PROPERTIES WEST OF FSWT

Notes:

*	Screening values are either the calculated 95 percent upper tolerance limit (Ref. 52) or the FDEP SCTL (Ref. 53), whichever is greater.
[a]	Value listed is for total chromium.
BY	Backyard
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FSWT	Fairfax Street Wood Treaters
FWT	Fairfax Street Wood Treaters
FY	Front yard
ID	Identification
J	The identification of the analyte is acceptable; the reported value is an estimate.
J-	The identification of the analyte is acceptable; the reported value is an estimate with a possible low bias.
mg/kg	Milligrams per kilogram
RP	Residential property
SCTL	Soil Cleanup Target Levels, Residenital, Direct Exposure, April 2005
SF	Surface soil (0 to 6 inches below land surface)
WT	Fairfax Street Wood Treaters
	Shaded values are above the screening value.

January 2011	Final Removal Investigation Letter Report dated March 11, 2011 (Ref. 21)
July 2011	Removal Confirmation and Residential Sampling dated October 27, 2011 (Ref. 25)

TABLE 11
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR MONCRIEF CREEK SEDIMENT SAMPLES

Investigation	Analyte: / Sample ID	Arsenic (mg/kg)	Chromium (mg/kg)	Hex Chromium (mg/kg)	Copper (mg/kg)
	Screening Value*	**9.8**	**43**	**NL**	**32**
August 2010	FRW-SED-01	29.7	81.8	0.59 U	139
	FRW-SED-01D	40.2	103	0.52 U	46.8
	FRW-SED-02	8.48	39	0.54 U	19.8

Notes:

*	The screening value is either the November 2001 EPA Region 4 Ecological Risk Assessment Bulletin (Table 3) or the 2003 FDEP Sediment Quality Assessment Guidelines for Florida Inland Waters, whichever is greater.
D	Duplicate
EPA	U.S. Environmental Protection Agency
FRW	Fairfax Street Wood Treaters
Hex	Hexavalent
ID	Identification
mg/kg	Milligrams per kilogram
NL	Not listed
SED	Sediment
U	The analyte was not detected at or above the minimum or method reporting limit.
	Shaded values are above the screening value.

August 2010 Final Emergency Response Report dated May 10, 2011 (Refs. 17; 18; 19; and 20)

TABLE 12
PREVIOUS EPA INVESTIGATIONS: SAMPLES REPRESENTING CURRENT CONDITIONS
ANALYTICAL RESULTS FOR MONCRIEF CREEK SURFACE WATER SAMPLES

Investigation	Analyte: / Sample ID	Arsenic (µg/L)	Chromium (µg/L)	Hex Chromium (µg/L)	Copper (µg/L)
	Screening Value*	**50**	**11**	**11**	**13.78[a]**
August 2010	FRW-SW-01	6.70 U	1.65 J′	4 U	1.50 U
	FRW-SW-01D	6.70 U	1.60 J′	4 U	1.50 U
	FRW-SW-02	6.70 U	1.61 J′	4 U	1.50 U

Notes:

*	Screening values are either the EPA Region 4 chronic surface water screening value for freshwater or the FDEP SWCTL for freshwater, whichever is greater.
a	Value listed was calculated based on hardness of surface water in Moncrief Creek (see Appendix J).
D	Duplicate
EPA	U.S. Environmental Protection Agency
FRW	Fairfax Street Wood Treaters
Hex	Hexavalent
ID	Identification
J′	Concentration reported is less than the lowest standard on the calibration curve.
µg/L	Micrograms per liter
NL	Not listed
SW	Surface water
U	The analyte was not detected at or above the minimum or method reporting limit.
August 2010	Final Emergency Response Report dated May 10, 2011 (Refs. 17; 18; 19; and 20)

APPENDIX D

LOGBOOK NOTES AND FIELD SAMPLE COLLECTION SHEETS

(184 Pages)

"Rite in the Rain"®

ALL-WEATHER

JOURNAL

No. 390N

TTEMI-05-003-0134

Fairfax Street Wood Treated RI

LOGBOOK #01

12/5/2011 through 3/2/2012

CONTENTS

PAGE	REFERENCE	DATE

"Rite in the Rain®"
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HORIZONTAL LINE BOOK

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REMEDIAL INVESTIGATION

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Project ITEM I-05-003-0134

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

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Monday, December 5, 2011

0800 START Brian Croft & Quinn Kelley Arrive onsite. Meet with John Lee, foreman WRS compass, to obtain key to site. START walks around the site going over RI sampling plan.

0830 START drives to potential background location Grunthal Park. Park looks accessible.

① Vacant lot, West 12th St, SW Corner of Park another potential background location.

② 1664 W 16th St (East of FSWT)

③ Vacant lot, NW corner of 12th & Spires (South of FSWT)

④ Vacant lot, 15th St & McMillan (W of Site)

⑤ Vacant lot, btw 1830 & 1816 W 20th (N of site)

0900 START drives to Stormwater Pond to determine access points. There are several access points to the pond

0915 START drives to other access points along Moncrief Creek. There do not appear to be any other culverts.

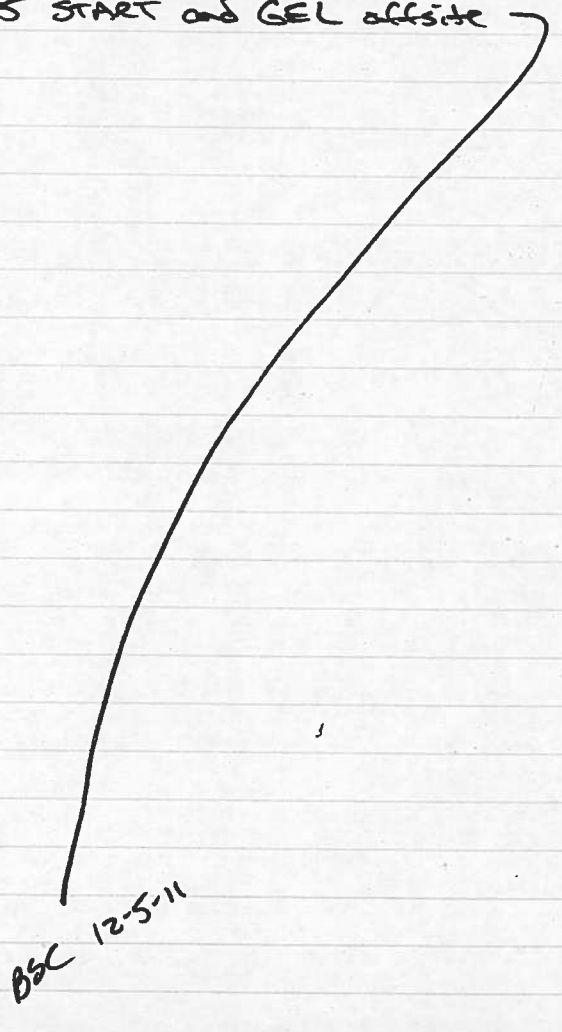
Quinkelly 12/6/11

Monday, December 5, 2011

1220 GEL Geophysics PM John Reynolds arrives onsite for GPR/EM survey tour area & discuss goals of survey

1300 GEL begins survey

1655 START and GEL offsite



BSC 12-5-11

Tuesday, December 6, 2011

0700 START Craft, Kelley, and David Homer (Tt risk assessor) onsite to tour area

0705 GEL reps onsite - John Reynolds & Jonas Lydon - continue s/l geophysical survey

- START and David Homer tour site & discuss site conditions & risk assessment considerations

0820 START offsite to view Moncrief Creek and stormwater retention pond between W. 26th & W. 33rd Sts. as well as accessible locations

note: Moncrief Creek is "channelized" downstream to Martin Luther King Jr. Rd.
- beyond that, its banks are more natural (i.e. no concrete bank system)

0920 START returns to site

note: ERRS contractor continues T&D ops by offloading contaminated water from 1 of 2 frac tanks remaining @ site from EPA removal activities

1100 RPM Cathy Amodeo onsite to meet & discuss draft workplan / risk assessment approach

1230 LUNCH

1330 return to site - continue discussions w/ RPM & risk assessor

BSC 12-6-11

Tuesday, December 6, 2011

note: GEL reps (2) continue geophysical survey

1530 Tt risk assessor David Homer offsite to airport for departure

1620 RPM Cathy Amodeo offsite to airport

1700 START Craft / Kelley and GEL reps offsite

BSC 12-6-11

Wednesday, December 7, 2011

0655 START Croft / Kelley onsite

0710 GEL reps (2) onsite to continue geophysical survey

0835 Roto Rooter reps (2) onsite to begin video inspection of drainage pipes - they will go assess location @ end of W. 18th St. (west side of Moncrief Creek) to access the drainage pipe that follow railroad ROW (@ discharge point into Moncrief Creek)

0915 Roto Rooter reps return to site - assessed drainage pipe @ discharge point and determined that there was too much debris (rocks, wood, sediment, etc.) w/in 50 feet of the discharge point - crawler equipment would get stuck

- based on discussions, START determined that no video inspection would be conducted (onsite or offsite) to minimize costs to project - will rely on GPR survey to identify onsite drains
- Roto Rooter stated that they would have to clean out the drainage pipe to Moncrief Creek to allow for inspection

0925 Roto Rooter offsite

0940 Florida F & W Commission rep. Brian Hilton arrives @ site - START Croft & Mr Hilton drove to inspect fish sampling locations, primarily

BSC 12-7-11

Wednesday, December 7, 2011

the stormwater retention pond located along Moncrief Creek between W. 26th & W. 33rd Sts.

- best access point for FWC boat will be @ east end of W. 30th St. (on west side of retention pond)
- will need to obtain key/access for gate @ that location - likely from JEA/City of Jville
- Mr. Hilton will need to know quantities of fish to be collected

1040 return to site

GEL continues geophysical survey activities

1130 START - LUNCH

1220 START - return to site

GEL reps (2) continue geophysical survey

1620 GEL reps depart site for day

START awaiting arrival of security

note: WRS Compass finished their ops today & demobilized - will be returning in future to complete remaining tasks

1705 security onsite

START offsite

BSC 12-7-11

Thursday, December 8, 2011

0700 START Croft onsite
note: dropped START Kelley @ airport this morning for return flight to Atlanta
0705 GEL reps (2) onsite to continue geophysical survey activities
note: WRS Compass reps (2) onsite today for paperwork, drum labeling, and other removal activities
1330 START offsite to pick up lunch
1350 START returns to site
GEL reps (2) continue geophysical survey
1705 START Croft & GEL reps (2) offsite

BSC 12-8-11

Friday, December 9, 2011

0650 START Croft onsite
0700 GEL reps (2) onsite to continue geophysical survey
1340 GEL reps complete s/l geophysical survey
START d GEL reps [illegible] offsite
-begin demobe to Duluth, GA
note: Grays Security rep onsite per WRS compass arrangement
1920 return to Duluth office - EOD

BSC 12-9-11

Tuesday, January 3, 2012 B. Croft

0755 START Croft onsite
meet briefly w/ WRS Russell Libera - still in process of treating water in frac tanks - analytical results for sample collected 1-2 wks ago still exceeded limit for copper - could not discharge to sanitary sewer - hoping to collect another sample today

0815 START Croft preparing to collect bulk solids samples from floor of old Feed Building

0825 START Croft collects WT-FB-G01-BS
- 5-pt composite of soil from floor of Old Feed Bldg - Grid 01 (north end of bldg)

0840 START Croft collects WT-FB-~~G01~~ G02 -BS
- 5 pt. composit of soil from floor of Old Feed Bldg - Grid 02

0850 START Croft collects WT-FB-G03-BS
- 5 pt composite of soil from floor of Old Feed Bldg - Grid 03

0900 START Croft collects WT-FB-G04-BS
- 5-pt composite of soil from floor of Old Feed Bldg - Grid 04

0910 START Croft collects WT-FB-G05-BS
- 5 point composite of soil from floor of Old Feed Bldg - Grid 05 (south end of bldg)

BX 1/3/12

Tuesday, January 3, 2012 B. Croft

note: all bulk solids soil samples consisted of sandy soil mixed w/ small rocks/pebbles and pieces of wood

0930 packaging & labeling sample jars

1005 START Croft offsite to assess potential sampling location in drainage pipe (east of site along ROW)
- one additional storm drain located along ROW between Pearce & Gruthal Sts

1030 ~~1030~~ BX START Croft begins demob to Duluth, GA office

1545 return to Duluth, GA office

BSC 1/3/12

Monday 2/20/12 Fairbanks RE B. Croft

0630 START Croft on site
- unloading/staging equipment inside office building
- weather: mostly sunny, highs in 60's

0730 delineated grid areas inside Old Feed Bldg.

0815 Partridge Well Drilling reps on site
- begin setting up decon area (on drip pad)

0900 Partridge reps begin well installation @ FBW-07 - TL Chris Jones & Josh Snyder
Provide oversight & logging core
- using Geoprobe to get cores for logging, then HSA to install wells

0920 Iceman on site to deliver ice bags for sample preservation

0930 START Croft offsite to Lowes to pick up 12-GA extension cord for ice bags

1005 START Croft returns to site

1125 Partridge rep begins coring/driving holes through concrete inside Old Feed Bldg

1150 Partridge begins Geoprobe in Grid 1 at Old Feed Bldg
Aliquot 1 (NW corner)
0-20 ft - see log notes of J. Snyder for lithology info
Note: N 1.5 ft. of void space based on cores (beneath concrete)
Aliquot 2 (NE corner) Aliquot 4 (SW corner)
Aliquot 3 (center) Aliquot 5 (SE corner)

BSC 2-20-12

Monday 2/20/12 Fairbanks RE B. Croft

note: sample depths (concrete = ground surface)
FB-GD1-A = 3 to 4 ft below ground surface
FB-GD1-B = 6 to 7 ft bgs

1220 START B. Kelley collects UT-FB-GD1-A (TerraCore kit from central aliquot)
A = 33.42 grams (methanol)
B = 35.78 grams (DI)
C = 35.87 grams (DI)
} tare weights for 40-mL vials

1225 START B. Croft collects UT-FB-GD1-B (TerraCore kit from central aliquot)
A = 33.73 grams (methanol)
B = 35.54 grams (DI)
C = 35.76 grams (DI)
} tare weights for 40-mL vials

1305 LUNCH

1335 START working on Scribe, bagging ice, and preparing for re-start

1410 Partridge reps resume Geoprobe ops in Old Feed Bldg - Grid 02
Aliquot 1 = NW corner
Aliquot 2 = NE corner
Aliquot 3 = center
Aliquot 4 = SW corner
Aliquot 5 = SE corner
See J. Snyder logbook notes for lithology

BSC 2-20-12

Monday 2/20/12 Fairbar RI B. Croft

note: NW aliquot (1) in Grid 02 (0 to 5 ft) was NO recovery for Geoprobe (hollow) - did have some recovery for 5-10 ft

1515 START Croft collects WT-FB-G02-A (TerraCore kit collected from SE aliquot ("2"))
- also MS/MSD location

A = 33.74 grams (methanol)
B = 36.02 grams (DI)
C = 35.88 grams (DI)
D = 33.65 grams (methanol)
E = 35.71 grams (DI)
F = 35.86 grams (DI)
G = 33.54 grams (methanol)
H = 35.94 grams (DI)
I = 35.80 grams (DI)

} tare weights for 40-mL vials

1520 START Kelley collects WT-BB-G12-B At (TerraCore kit collected from SE aliquot ("2"))

A = 33.17 grams (methanol)
B = 35.96 grams (DI)
C = 36.01 grams (DI)

} tare weights for 40-mL vials

1535 Partridge Geoprobe crew moves to support well drilling ops

START Croft & Kelley begin sample prep for shipment

1735 START offsite w/ Partridge reps

BSC 2/20/12

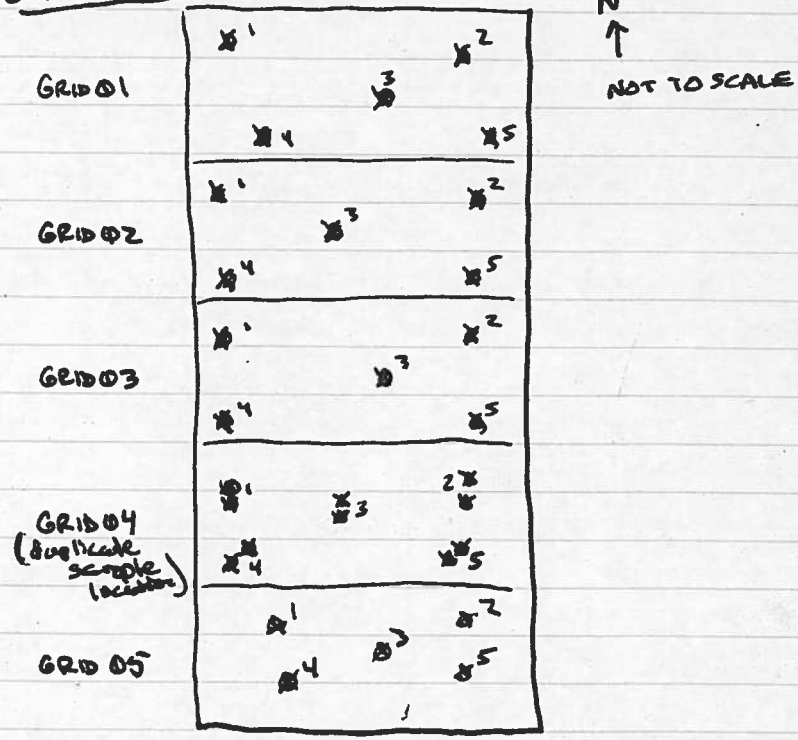
Tuesday 2/21/12 Fairbar RI B. Croft

0625 START Croft onsite

weather: mostly sunny, highs in 70's

- organize/stage equipment in office bldg.
- mark boring locations in Grid 4 at Old Feed Bldg.

OLD FEED BLDG



= Aliquot Locations

BSC 2/21/12

Tuesday 2/21/12 Fairfax RI B. Croft

0800 Partridge reps (2) onsite
note: other 2 Partridge reps (HSA drillers) were delayed due to random drug tests required by company - should be onsite shortly
Partridge will begin day by using Geoprobe to core @ additional well locations
morning tailgate safety meeting held w/ TG and Partridge reps.

0830 additional Partridge reps onsite to resume drilling

1030 Partridge reps coring through concrete @ aliquot locations in Grid 04 (Old Feed Bldg) - field duplicate sample location, so this is 10 holes

1050 Partridge resumes Geoprobe sampling in Grid 03 of Old Feed Bldg

1105 START Croft collects WT-FB-G03-A (collected from center aliquot w/ Terracore kit) 2-3 ft bgs
A = 33.58 grams (methanol)
B = 35.83 grams (DI)
C = 35.69 grams (DI)

1110 START Kelley collects WT-FB-G03-B
(TerraCore kit collected from center aliquot 5-6 ft bgs)
A = 33.64 grams (methanol)
B = 35.89 grams (DI)
C = 35.85 grams (DI)

BK 2-21-12

Tuesday, 2/21/12 Fairfax RI B Croft

1150 Partridge reps begin Geoprobe sampling at Grid 04 at Old Feed Bldg

1230 Lunch - Partridge offsite to eat

1315 Partridge reps return to site

1325 Partridge reps resume Geoprobe sampling at Grid 04 in Old Feed Bldg.

1410 START Croft collects WT-FB-G04-A (Terracore kit collected from NE aliquot (#2))
@ depth 2-3 ft bgs
A = 33.74 grams (methanol)
B = 35.89 grams (DI)
C = 35.91 grams (DI)

1415 START Kelley collects WT-FB-G04-B (Terracore kit collected from NE aliquot (#2))
@ depth 5-6 ft bgs
A = 33.55 grams (methanol)
B = 35.88 grams (DI)
C = 35.87 grams (DI)

1420 START Croft collects WT-FB-G04-A-DUP)
(Terracore kit collect from NE aliquot (#2))
@ depth of 2-3 ft bgs
- DUP collected from adjacent aliquot location
A = 33.62 grams (methanol)
B = 35.62 grams (DI)
C = 35.91 grams (DI)

BK 2-21-12

Tuesday 2/21/12 Fairfax RI B. Croft

1455 Partridge reps continue coring through concrete in Grid D5 at Old Feed Bldg.

1550 START Croft collects WT-FB-G05-A (Terracore kit collected from SW aliquot (*4)) 2-3 ft bgs
A = 33.42 grams (methanol)
B = 35.81 grams (DI)
C = 35.80 grams (DI)

1555 START Jones collects WT-FB-G05-B (Terracore kit collected from SW aliquot (*4)) 5-6 ft bgs
A = 33.78 grams (methanol)
B = 35.84 grams (DI)
C = 35.94 grams (DI)

1620 Partridge reps offsite
START continue sample prep/mgmnt activities for shipment

1725 START offsite

BSC 2-21-12

Wednesday 2/22/12 Fairfax RI B. Croft

0630 START Croft onsite
weather: mostly sunny, highs in 70's
prepare for day's activities:
- drill final well (40 ft) - PMW-06D
- well development
- install concrete pads
- move soil IDW drums
- remove onsite storm drain covers
- ground Geoprobe borings in Old Feed Bldg.

0745 Partridge reps phoned START Kelley to say that they would not be onsite until 0830 due to a traffic accident causing delays

0830 Partridge reps (2) onsite - third rep should be onsite shortly
morning tailgate safety meeting

0845 Partridge reps preparing to drill final well w/ Geoprobe - will use HSA rig only if Geoprobe does not have enough power to reach 48 ft bgs
- START C. Jones & J. Snyder providing oversight

0905 START Croft collects on-site drain sediment sample WT-DN-11-SD. All on-site drain sediment samples ~~both~~ will be analyzed for hex chrom in addition to As, total Cr, & Cu.

GSC 2/22/12

Wednesday 2/22/12 Fairfax RI B. Croft

0940 START Croft collects WT-PL-01-SB
- subsurface soil sample collected from 0 to 6 inches below pond liner - collected from area adjacent to NW side of onsite retention pond's overflow pipe where liner was already torn - moist to wet soil w/ leaves & acorns

1000 START Croft collects WT-FSRP-01-SW
- surface water sample collected from onsite retention pond approximately 15 feet SE of overflow pipe

LATE NOTE: EPA Community Involvement Coordinator LeTonya Spencer onsite to conduct property access activities

1050 START Croft made call to Florida 811 system to arrange for utility locates @ offsite properties in preperation for sampling
- also received call from Justin Sley w/ JEA inquiry about 811 tickets - he said to call him @ 904.894.0445 if questions come up during sampling activities

1225 Partridge reps offsite for LUNCH
LUNCH

1300 START pouring/collecting blank samples

1335 Partridge reps back onsite - finishing up @

BSC 2.22.12

Wednesday 2/22/12 Fairfax RI B. Croft

final well location (PMW-06D) - removing auger flights
START overseeing Partridge & preparing samples for packaging & shipping

1515 Partridge pops cover off of on-site drain DN01. START Croft collects sediment sample WT-DN-01-SD from the drain.

1525 START Croft collects sediment from on-site drain DN03 for sample WT-DN-03-SD.

1535 START Croft collects sample WT-DN-04-SD from on-site drain DN04.

1540 START Croft collects sediment Sample WT-DN-05-SD from on-site drain DN05.

1545 START Croft collects sediment Sample WT-DN-07-SD from on-site drain DN07.

1550 START Croft collects sediment Sample WT-DN-08-SD from on-site drain DN08.

1555 START Croft collects sediment Sample WT-DN-09-SD from on-site drain DN09 ——— Quinten 2/27/12 ———

Wednesday 2/22/12 Fairfax RI

1558 START Croft collects sediment sample WT-DN-10-SD from on-site drain DN10.

1605 START Croft collects sediment sample WT-DN-12-SD from on-site drain DN12.

1610 START Croft collects sediment sample WT-DN-06-SD from on-site drain DN06.

1620 START Croft collects sediment sample WT-DN-02-SD from on-site drain DN02.

1630 sample preparation for shipment

note: 2 wells have been developed (complete)

1730 START offsite

BSC 2/22/12

Thursday 2/23/12 Fairfax RI

0625 START Croft onsite

weather: mostly cloudy & windy, highs near 81
isolated showers & thunderstorms possible

prepare for day's activities:

- well development
- grout final well & borings on OFB
- drainage pipe sampling
- onsite soil sampling

0838 START Kelley collects WT-DP-03-SD (SW)

- collected from storm drain @ drainage pipe that receives effluent from onsite retention pond
- collected via drain located approximately 75 ft NW of retention pond (downgradient from pond - collected using Ponar dredge (sediment) and telescoping sampling rod (SW)

LATE NOTE: Redridge reps onsite to complete tasks:

START Jones developing wells

0945 START Croft collected WT-DP-02-SW

- collected from storm drain @ drainage pipe located behind 1757 W. 17th St. (church property)
- collected w/ telescoping rod
- no sediment sample collected because none present or retrievable using a Ponar dredge

BSC 2/23/12

Thursday 2/23/12 Fairfax RI

1025 START Croft collects WT-DP-01-SW
- collected from storm drain @ drainage pipe located between Pearce and Grunthal Streets along south side of railroad ROW - collected using telescoping rod
- no sediment sample collected because none present or retrievable using Ponar dredge

1100 Well development continues
- decon of equipment (Ponar dredge, spoons)

1200 LUNCH

1230 preparing for onsite soil sampling
note: Partridge have completed concrete pad installation for all 8 wells - cleaning up equipment & preparing to grout holes in Old Feed Bldg - also still have to move/stage IDW drums

1410 START Jones collects WT-G01-DD-SF
- 0-6 inches bgs in bottom of drainage ditch
- 5-pt composite - brown sandy soil BSC

1430 START Croft collects WT-G01-PF-SB
- 18-24 inches bgs in bottom of drainage ditch
- 5 pt composite - brown sandy soil

GRID 01

PF	.	.	.	.	.
	1	2	3	4	5
DD	.	.	.	.	.

N

BSC 2/23/12

Thursday 2/23/12 Fairfax RI

note: Aliquot #4 for PF-SB sample - could not reach beyond 18 inches bgs due to refusal BSC

1435 START Jones collects WT-G01-PF-SF
- 0-6 inches bgs from perimeter fenceline area
- sand - 5-pt Composite BSC

1450 START Croft collects WT-G01-PF-SB
- 18-24 inches bgs from perimeter fenceline area
- sand - 4 pt. composite

1515 START Jones collects WT-G02-DD-SF BSC
0-6 inches bgs - bottom of ditch
5-pt. composite

1530 START Jones collects WT-G02-PF-SF
0-6 inches bgs - perimeter fenceline
5-pt. composite

1540 START Croft collects WT-G02-DD-SB
18-24 inches bgs - bottom of drainage ditch
5-pt. composite

1550 START Croft collects WT-G02-PF-SB
18-24 inches bgs - perimeter fenceline
Base 4-pt. composite

Grid 02

PF	.	.	.	.	.
	1	2	3	4	5
DD	.	.	.	.	.

N

note Aliquot # 5 - could not auger beyond 18 inches bgs for sample PF-SB BSC

BSC 2/23/12

Thursday 2/23/12 Fairfax RI

1605 meet w/ EPA CIC Tanya Spencer to discuss residential sampling scheduled for next week

1630 sample preparation for shipments

LATE NOTE: Parsons reps offsite @ approximately 1545 - well/boring ops complete TE START continues to develop wells

1725 START offsite

BSC 2/23/12

Friday 2/24/12
~~Thursday 2/23/12~~ QK Fairfax RI

0630 START Croft onsite

weather: mostly cloudy, windy, highs in 80's 50% chance of showers & thunderstorms

prepare for day's activities:

- well development
- onsite soil sampling

0730 START Croft, Jones, & Kelley begin Sampling at Grid 03.

0740 START Croft collects ditch sample WT-G03-DD-SF.

0750 START Jones collects ditch sample WT-G03-DD-SF-DUP.

0805 START Croft collects ditch sample WT-G03-DD-SB.

0810 START Jones collects ditch sample WT-G03-DD-SB-DUP.

0815 START ~~Croft~~ QK Jones collects perimeter sample WT-G03-PF-SF.

0820 START Croft collects perimeter sample WT-G03-PF-SB.

0825 START begins sampling at Grid 04.

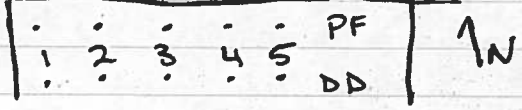
0835 START Croft collects perimeter sample WT-G04-PF-01-SF

0845 START Jones collects perimeter sample WT-G04-PF-01-SB.

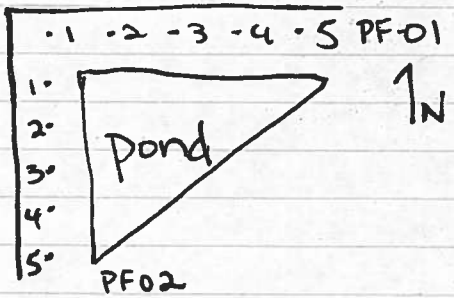
BSC 2/24/12

Friday 2/24/12 Fairfax RI

Grid 03

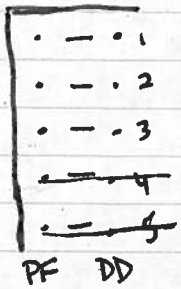


Grid 04



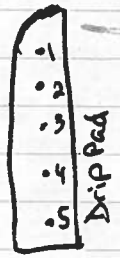
NOTE: Grid 04, aliquot 3, there was refusal at 18" (PF-01).
Grid 04, aliquot 1, there was refusal at 18" (PF02).

Grid 05



NOTE: Because of the number of trees, only 3 aliquots were collected for this Grid.

Grid 16



NOTE: A lot of rocks in surface samples. Aliquot 5 had oyster shells from 8" to 15".

BSC 2/24/12

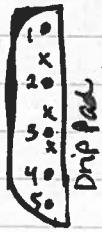
Friday 2/24/12 Fairfax RI

0855 START Croft collects perimeter Sample WT-G04-PF-02-SF.
0910 START Jones collects perimeter Sample WT-G04-PF-02-SB.
0915 START begins Sampling Grid 05.
0930 START Croft collects ditch Sample ~~WT-G05-DD-SF~~ WT-G05-DD-SF.
0935 START Jones collects ditch Sample WT-G05-DD-SB.
0945 START Jones collects perimeter Sample WT-G05-PF-SF.
0950 START Croft collects perimeter Sample WT-G05-PF-SB.
1000 START begins Sampling Grid 16.
1020 START Jones collects grid sample WT-G16-SF.
1035 START Croft collects grid Sample WT-G16-SF-DUP.
1050 START Jones collects grid Sample WT-G16-SB.
~~1050~~

BSC 2/24/12

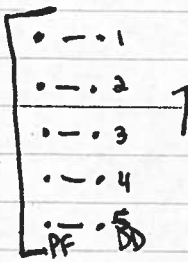
Friday 2/24/12 Fairfax RI

Grid 17



NOTE: A lot of rocks in surface samples. Water table appears to be rather shallow.

Grid 06



NOTE: Perimeter aliquots 3 & 5 could not be collected down to 18".

Quinn Kelley 2/24/12

Friday 2/24/12 Fairfax RI

1440 START begins sampling Grid 17.
1455 START Jones collects grid sample WT-G17-SF-DUP.
1505 START Snyder collects grid sample WT-G17-SF.
~~START Croft collects grid sample WT-G17-SB.~~ (QC)
1510 A subsurface sample could not be collected at Grid 17 due to auger refusal. There may be a concrete slab underneath.
1525 START begins sampling Grid 06.
1530 START Jones collects perimeter sample WT-G06-PF-SF
1535 START Snyder collects ditch sample WT-G06-DD-SF.
1540 START Croft collects ditch sample WT-G06-DD-SB.
1545 START Snyder collects perimeter sample WT-G06-PF-SB.
1550 START begins sampling Grid 07.
1600 START collects surface ditch sample WT-G07-DD-SF
1605 START collects perimeter sample ~~WT-G07-DD~~ (QC) WT-G07-PF-SF.

Quinn Kelley 2/24/12

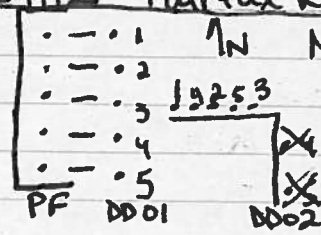
Friday 2/24/12 Fairfax RI

1606 START collects ditch sample WT-G07-DD-SB.
1607 START collects perimeter sample WT-G07-PF-SB.
1615 START begins sampling Grid 08.
1630 START collects secondary ditch sample WT-G08-DD-02-SF.
1635 START collects perimeter sample WT-G08-PF-SF.
1640 START collects ditch sample WT-G08-DD-01-SF.
1650 START collects perimeter sample WT-G08-PF-SB.
1655 START collects secondary ditch sample WT-G08-DD-02-SB.
1656 START collects ditch sample WT-G08-DD-01-SB.

BSL 2/24/12

Friday 2/24/12 Fairfax RI

Grid 08



NOTE: DD-02 must have been filled in during removal activities (N/S part of ditch)

Secondary ditch aliquot 1 could not be collected down to 18" due to liner.
1705 staging equipment in office building
1720 START offsite

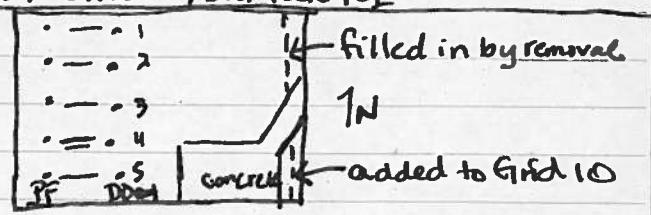
BSL 2/24/12

Saturday 2/25/12 Fairfax RI

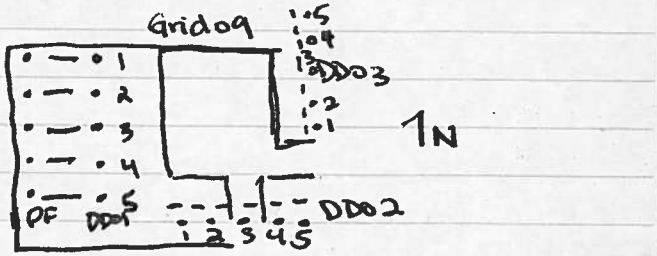
0630 START Crosfit onsite
reviewing access agreements for offsite soil sampling activities
decon equipment
0945 START begins sampling Grid 09. A small piece of secondary ditch remains after removal filled in northern portion of ditch. Therefore, the portion of the secondary ditch that remains will be included w/ Grid 10.
0955 START collects ditch sample WT-G09-DD-SF.
1000 START collects perimeter sample WT-G09-PF-SF.
1005 START collects ditch sample WT-G09-DD-SB.
1010 START collects perimeter sample WT-G09-PF-SB.
1015 START begins sampling Grid 10
1020 START collects primary ditch sample WT-G10-DD-01-SF.
1025 START collects perimeter sample WT-G10-PF-SF.
1030 START collects primary ditch sample WT-G10-DD-01-SB — QKelly 2/25/12

Saturday 2/25/12 Fairfax RI

Grid 09



Grid 10



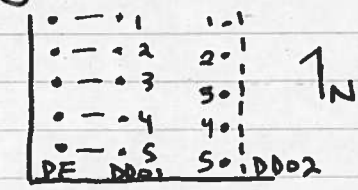
NOTE: Grid 10, perimeter aliquot 4 ~~subsurface~~ (QK) Subsurface could not be reached due to tree roots at 12".
1035 START collects perimeter sample WT-G10-PF-SB.
1045 START collects secondary ditch sample WT-G10-DD-02-SF.
1050 START breaks for decon.
1135 START back at Grid 10 to collect Secondary Ditch 03 sample.
1145 START collects ditch sample WT-G10-DD-03-SF.
1155 START collects ditch sample WT-G10-DD-03-SB.
1200 START breaks for lunch.
— QKelly 2/25/12 —

Saturday 2/25/12 Fairfax RI

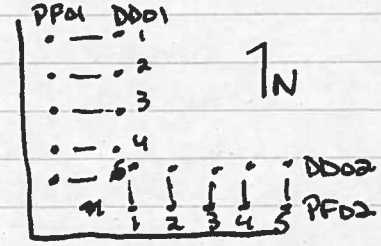
1300 START begins sampling Grid 11.
1315 START Collects ditch sample WT-G11-DD-01-SF.
1320 START collects ditch sample WT-G11-DD-02-SF.
1323 START collects perimeter sample WT-G11-PF-SF.
1325 ~~1330~~ START collects ditch sample WT-G11-DD-01-SB.
1330 START collects perimeter Sample WT-G11-PF-SB.
1335 START Collects ditch sample WT-G11-DD-02-SB.
1340 START begins sampling Grid 12.
1345 START collects ditch sample WT-G12-DD-01-SF.
1348 START collects ditch sample WT-G12-DD-01-SB.
1353 START collects perimeter Sample WT-G12-PF-01-SF
1355 START collects ditch Sample ~~WT-DD~~ WT-G12-DD-01-SF-DUP.
1410 START Collects perimeter sample WT-G12-PF-01-SB.
1425 START Collects ditch sample WT-G12-DD-02-SF. —— QKelly 2/25/12 —— e

Saturday 2/25/12 Fairfax RI

Grid 11



Grid 12



NOTE: The primary ditch within Grid 12 was divided into 2 samples: 1 N/S & 1 E/W. The perimeter fenceline was therefore also split the perimeter into 2 samples: 1 N/S & 1 E/W. Also, there was refusal on aliquots 2-4 at 18" for perimeter fenceline sample 01.
1426 START Collects perimeter Sample WT-G12-PF-02-SF.
1440 START Collects ditch sample WT-G12-DD-02-SB.
1445 START Collects perimeter sample WT-G12-PF-02-SB.
NOTE: PF-02 on Grid 12 hit refusal at 18" in aliquots 1 & 2.

BSC 2/25/12

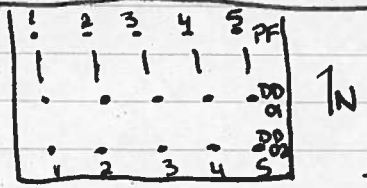
Saturday 2/25/12 Fairfax RI

1450 START begins sampling Grid 13
1510 START collects ditch sample WT-G13-DD-01-SF.
1515 START collects perimeter sample WT-G13-PF-SF.
1520 START collects ditch sample WT-G13-DD-02-SF
1525 START collects perimeter sample WT-G13-PF-SB.
1530 START collects ditch sample WT-G13-DD-02-SB.
1535 START collects ditch sample WT-G13-DD-01-SB.
1540 START breaks for decon.
1700 START offsite

BSC 2/25/12

Saturday 2/25/12 Fairfax RI

Grid 13



BSC 2-25-12

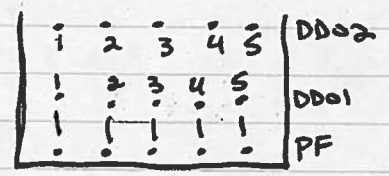
Sunday 2/26/12 Fairfax RI

0900 START arrives on site. START Wraps decorned equipment. START has H&S meeting.
1000 START begins Sampling Grid 14
1015 START collects perimeter sample WT-G14-PF-01.
1020 START collects ditch sample WT-G14-DD-01-SF.
1035 START collects ditch sample WT-G14-DD-01-SB
1040 START collects perimeter sample WT-G14-PF-SB. START begins sampling Grid 15.
1045 START collects ditch sample WT-G15-DD-SF.
1055 START collects ditch sample WT-G14-DD-02-SF.
1100 START collects ditch sample WT-G15-DD-SB.
1105 START collects perimeter sample WT-G15-PF-SF.
1110 START collects ditch sample WT-G14-DD-02-SB.
1120 START collects perimeter sample WT-G15-PF-SB.

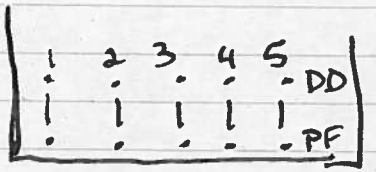
QKelly 2/26/12

Sunday 2/26/12 Fairfax RI

Grid 14



Grid 15



1130 START Snyder & Jones leave to drop START Snyder off at airport. START Croft & Kelley finish up on site & discuss next week's activities. START Croft & Kelley go through list of properties that we already have access to.
1200 START Jones returns from the airport. START Croft & Jones decon todays equipment. START Kelley processes samples collected today.
1320 START done for the day.

QKelly 2/26/12

Monday, 2/27/12 FairFax RI

0630 START Croft onsite

0700 morning safety meeting
- weather: showers, thunderstorms, highs in 70's

0800 gathering equipment for residential soil sampling activities

0850 make hs 1825 W. 13th St. s/ START W. Robinson & Jeff Kruse

note: resident @ 1831 W. 13th St. gave verbal access to collect samples @ her property there - will drop off access agreement for sampling

0915 meet w/ RPM C. Amoroso - discuss site ops
- ROW samples - will collect soil samples from 10-ft portion of property along northern site fenceline that is owned by JEA (area of drainage pipe) - no access to Norfolk Southern ROW, so no samples will be collected from their property

0945 FDEP Stacy Deals onsite to meet w/ RPM C Amoroso - discussion availability session s/ FDOH & JC DOH

1000 START Croft & Kelly prepare samples for shipment (collected 2/24 thru 2/26)

BSC 2/27/12

Monday 2/27/12 FairFax RI

1330 field crews on lunch

1430 field crews resume sample activities @ offsite properties

1630 field crews decon equipment

1715 START offsite

BSC 2/27/12

Tuesday 2/28/12 Fairfax RE

0730 START Croft onsite
weather: mostly cloudy, high in upper 60's

0805 monday safety meeting
- continue offsite sampling activities (residential)

note: WRS rep + EQ driver onsite to pick up last 2 drums of materials generated during EPA removal action for transportation and disposal

0900 START marking boundaries of grid sampling locations in JEA right-of-way along north side of FSWT forceline for collection of soil samples (in lieu of railroad ROW locations due to access issues)

1115 START Kelley collects WT-ROW-G08-SF surface soil sample (5-pt. composite, 0-6 inches bgs) collected from JEA ROW for drainage pipe along south side of tracks

1130 START Kelley collects WT-ROW-G06-SF surface soil sample (5-pt. composite, 0-6 inches bgs)

1140 START Kelley collects WT-ROW-G04-SF surface soil sample (5-pt. composite, 0-6 inches bgs)

1155 START Kelley collects WT-ROW-G02-SF surface soil sample (5-pt. composite, 0-6 inches bgs)

1245 START Croft visits STES school office to schedule sampling - spoke w/ admin assistant →

BSC 2/28/12

Tuesday 2/28/12 Fairfax RE

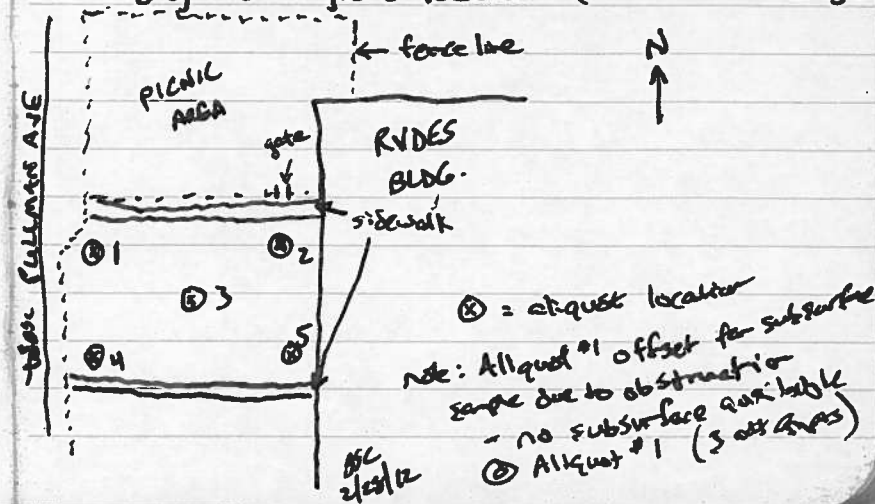
she spoke to principal - will return after 3pm to conduct sampling

1300 START Croft visits RVDES office - spoke w/ admin assistant & scheduled sampling for after 3pm

1410 visited properties to check for access agreements:

1831 W. 13th St. - no answer @ front door
1916 Pullman Ct. - no access on door
1757 W. 15th St. - no access on door
1750 W. 16th St. access granted (on door)
1745 W. 17th St. access agreement signed
1815 W. 19th St. access agreement signed

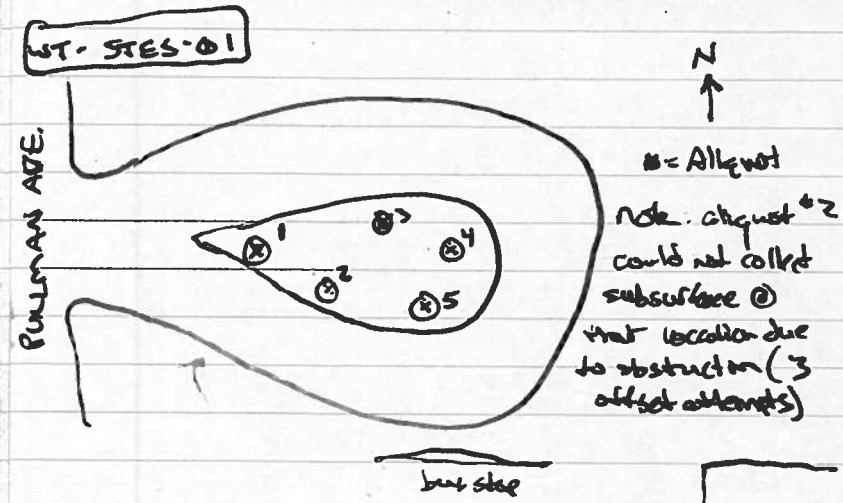
1515 START Croft collects WT-BG-06-SF - collected from area on west side of RVDES bldg - background location (surface soil 0-6 bgs)



Tuesday 2/28/12 Fairfax RI

1520 START Croft collects WT-BG-06-SB
-subsurface soil sample (18-24 inches bgs)

1550 START Jones collects WT-STES-01-SF
-surface soil sample collected from STES property (0-6 inches bgs, 5-pt. composite)



1605 START Jones collects WT-STES-01-SB
-subsurface soil sample collected from STES property (18-24 inches bgs, 4-pt. composite

BSC 2/28/12

Tuesday, 2/28/12 Fairfax RI

1615 START Jones collects WT-STRP-01-SW/SD
-collected from south end of STES retention pond (east side)

1630 START Jones collects WT-STRP-02-SW/SD
-collected from north end of STES retention pond (east side)

1510 START Kelley spoke with RPM Amoroso regarding sampling additional properties that weren't planned. RPM Amoroso said to go ahead & sample unplanned properties provided we have the lab space. RPM Amoroso said to eliminate ROW samples on the north side of the RR tracks & to limit 1804 W 19th St to only 1 yard instead of dividing it into 2 yards.

1700 Decon of equipment & packaging samples for shipment

1825 START offsite

BSC 2/28/12

Wednesday 2/29/12 Fairfax RI

0625 START Croft onsite
- preparing for day's activities
- • offsite soil sampling (residential & background)
  • Re-collect STES pond sed/sw samples
    ↳ insufficient volume collected yesterday

-weather: Partly cloudy, high near 81

0750 START Croft & Jones @ Grunthal Park for background soil sampling

0755 START Jones collects WT-BG-03-SF
0-6 inches bgs, 5-pt. composite sample collected from area west of tennis courts

~~0755~~

0810 START Jones collects WT-BG-03-SB
18-24 inches bgs, 5-pt. composite sample
-same location as BG-03-SF

0825 START Croft & Jones @ 1620 W. 16th St. for background soil sampling - property added by Ryan Amaroso following public meeting held Monday 2/27

0835 START Jones collects WT-BG-08-SF
0-6 inches bgs, 5-pt. composite collected from property (sample encompasses front & back yards)

0855 START Jones collects WT-BG-08-SB
18-24 inches bgs, 5-pt. composite - same locations as SF sample

AK 2/29/12

Wednesday 2/29/12 Fairfax RI

0915 START Croft & Jones @ intersection of W. 11th St. & Moncrief Creek for background soil sampling

0930 START Croft collects WT-BG-07-SF
0-6 inches bgs, 5-pt. composite collected from eastern side of Moncrief Creek (south of W. 11th St.) from strip of land owned by JEA/City of Jacksonville

0940 START Croft collects WT-BG-07-SB
18-24 inches bgs, 4-pt. composite collected from same locations as SF sample (Note: no subsurface available @ aliquot #3 - refusal @ 8 inches bgs)

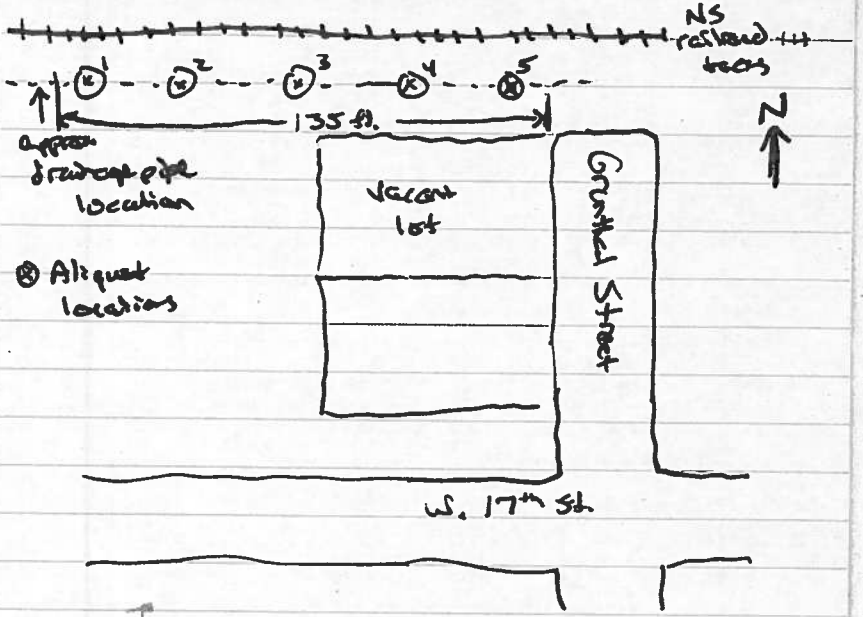
1010 return to site office for sample prep and decon

1410 arrive @ Grunthal Street intersection w/ railroad tracks for background sampling -

1420 START Jones collects WT-ROW-G01-SF
collected from JEA/City of Jacksonville ROW above drainage pipe
- 0-6 inches bgs, 5-pt. composite sample
- collected from grid area measuring approximately 135 sf. from Grunthal St. to west (same size as ROW sample grids located north of site) south side of tracks
  - see next page for sketch

BSC 2/29/12

Wednesday 2/29/12 Fairfax RI



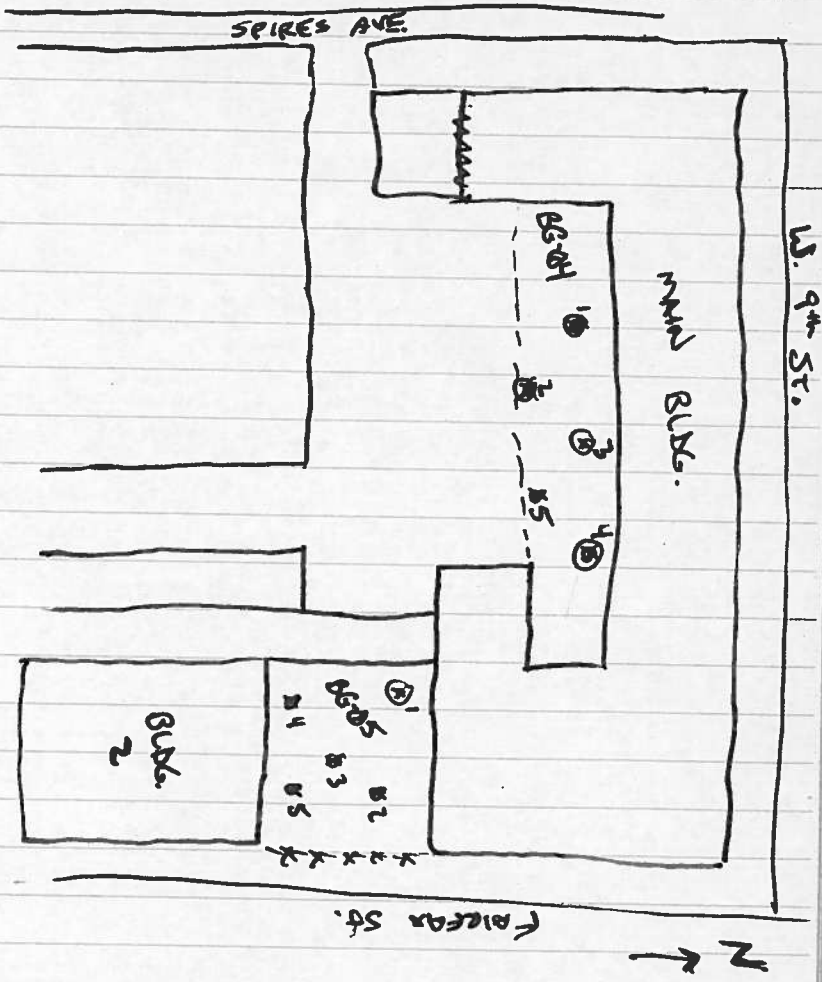
1500 START Croft & Jones meet @ James Weldon Johnson School for background soil sampling - sign in @ office
- meet w/ Bruce Ackerman, Duval Cty Public Schools Environmental Director

1515 START Jones collects WT-BG-04-SF
0-6 inches bgs, 5-pt. composite sample collected from area at "atrium" south of main bldg

1525 START Jones collects WT-BG-04-SB
18-24 inches bgs, 5-pt composite sample
same locations as BG-04-SF

BSC 2/29/12

Wednesday 2/29/12 Fairfax RI



1550 START Croft collects WT-BG-05-SF
0-6 inches bgs, 5-pt. composite sample
collected from area between main building and building 2

BSC 2/29/12

Wednesday 2/29/12 Fairfax RI

1600 START Croft collects WT-BG-05-SB
- 18-24 inches bgs, 5-pt. composite sample
- same aliquot locations as BG-05-SF

1615 START Croft & Jones arrive @ STES school to re-sample STES retention pond surface water & sediment (insufficient volume collected yesterday)

1620 START Croft collects WT-STRP-01-SW/SD
- southend of pond (east side)

1630 START Croft collects WT-STRP-02-SW/SD
- north end of pond (east side)

1645 return to site office for decon & sample prep

1830 START offsite

BSC 2/29/12

Thursday 3/1/12 Fairfax RI

0630 START Croft onsite

weather: partly cloudy, highs near 80

prepare for day's activities
- offsite soil sampling
- GW sampling
- SW/SD sampling

0705 morning safety meeting

0805 START Croft & Kelley collect Moncrief Creek samples at station WTMC15.

0815 START Croft collects Moncrief Creek samples at Station WTMC14.

0835 START Croft collects Moncrief Creek samples at station WTMC12 including a sediment duplicate at 0840.

0855 START Croft collects Moncrief Creek samples at station WTMC13.

0915 START Croft collects Moncrief Creek samples at station WTMC11.

0925 START Croft collects Moncrief Creek samples at station WTMC10.

NOTE: Samples collected for Station MC11 were collected South of the culvert.

@ Kelley 3/1/12

Thursday 3/1/12 Fairfax RI

0945 return to site office to process samples, decon equipment, and deal w/ sample cooler that was lost by FedEx (shipped 2/27)
- teams continue residential soil sampling, SW/SD sampling, and will begin GW sampling at inboard row.

1215 travel to FedEx to check on lost cooler status - rep stated that it was deliberately put on plane to Memphis - cannot be located

1320 onsite - GW sampling & SW/SD sampling continue

1850 START offsite

BSC 3/1/12

Friday, 3/2/12 Fairfax RI

0625 START Croft onsite
weather: partly cloudy, high near 83
prepare for days activities
- GW sampling
- onsite soil sampling (due to cooler lost by FedEx)

0715 START & NUS begin re-sampling on-site grids. START Shaver & NUS Weichert begin sampling Grid 01 while START Croft & NUS Krone begin sampling Grid 02.
0735 START collects ditch sample WT-G01-DD-SB.
0745 START collects ditch sample WT-G02-DD-SB.
0748 START collects perimeter sample WT-G01-PF-SB.
0750 START collects perimeter sample WT-G02-PF-SB.
0755 START & NUS begin sampling Grids 03 & 04.
0805 START collects ditch sample WT-G03-DD-SF
0812 START Collects perimeter sample WT-G04-PF-01-SF.

Quin Kelly 3/6/12

Friday 3/2/12 Fairfax RI

0815 START Collects perimeter sample WT-G04-PF-02-SF

0816 START Collects ditch sample WT-G03-DD-SF-DUP

0810 START Collects perimeter sample WT-G03-PF-SF

0825 START & NUS begin sampling Grids 05 & 06.

0835 START Collects ditch sample WT-G05-DD-SB

0852 START Collects ditch sample WT-G05-DD-SB-DUP

0845 START Collects ditch sample WT-G06-DD-SF

0853 START Collects perimeter sample WT-G06-PF-SB

0857 START Collects ditch sample WT-G06-DD-SB.

0900 START & NUS begin Sampling Grid 08.

0910 NUS collects ditch Sample WT-G08-DD-02-SF

0918 START Collects ditch sample WT-G08-DD-01-SB.

0920 START Collects perimeter sample WT-G08-PF-SB. ——— @Keely 3/2/12 ———

Friday 3/2/12 Fairfax RI

0925 START begins Sampling Grids 09 & 10.

0940 START Collects ditch Sample WT-G09-DD-SF.

0942 START Collects perimeter sample WT-G10-PF-SB.

0950 NUS collects ditch sample WT-G10-DD-03-SB.

1000 START & NUS begin sampling Grids 11 & 12.

1015 START Collects ditch sample WT-G11-DD-02-SB

1018 START Collects perimeter Sample WT-G12-PF-02-SF

1020 NUS Collects perimeter Sample WT-G12-PF-01-SF

1025 START Collects ditch Sample WT-G12-DD-02-SB.

1030 START Shaver & NUS Krone break away to begin decon ning.

1045 START Croft & NUS Weichert begin Sampling Grid 13.

1110 NUS Collects ditch sample WT-G13-DD-02-SB.

1120 START Collects ditch Sample WT-G13-DD-01-SB.

——— @ 3/2/12 ———

Friday 3/2/12 Fairfax RI

1135 NUS collects perimeter Sample WT-G14-PF-SB.
1145 START collects ditch sample WT-G14-DD-01-SB.
1155 NUS collects ditch Sample WT-G14-DD-02-SF
1200 START collects ditch Sample WT-G14-DD-02-SB.
1205 START & NUS break for lunch & decon.
1350 START & NUS begin sampling at Grid 15.
1400 NUS collects perimeter Sample WT-G15-PF-SF.
1405 START collects ditch Sample WT-G15-DD-SF.
1410 START collects ditch Sample WT-G15-DD-SB.
1415 NUS collects perimeter Sample WT-G15-PF-SB.
1420 START & NUS begin sampling Grids 16 & 17.
1435 NUS collects grid sample WT-G16-SF
1445 START collects grid duplicate sample WT-G16-SF-DUP — QKelly 3/2/12 —

Friday 3/2/12 Fairfax RI

1450 START collects grid sample WT-G17-SF.
1455 START collects grid duplicate Sample WT-G17-SF-DUP.
1500 START & NUS complete onsite re-sampling.
NOTE: All re-sampled sample IDs will be designated with an "R" at the end for "Re-sampled."
1510 return to site office for equipment decon, sample processing, and packing supplies and equipment in preparation for demobilization
1700 START offsite

BSC 3/2/12

8/14/12

1200 START Brian Croft and Quinn Kelley Mobilize to Site.

1730 START arrives onsite to check the copies of the site keys that were made per RPM Cathy Amoroso's request. The copies didn't work, so START plans to get more made tomorrow.

1800 START arrives at hotel. Done for the day.

Quinn Kelley 8/14/12

8/15/12

0740 START arrives onsite.

0745 START opens all of the wells. START observes standing water in wells PMW-01, PMW-02, and PMW-05.

0800 START checks the office. There is evidence of a breakin. The ceiling has been pulled down, insulation surrounding pipes has been stripped, the kitchen appliances have been taken. Two windows and one of the doors were open. START also observes that the former tank farm containment area is full of water, presumably rainwater.

0810 START guages all of the wells. See field sheets for depths.

0840 START calibrates the LaMotte turbidity meter: 0 NTU: -0.04, 1 NTU: 0.96, 10 NTU: 9.68. START calibrates the YSI 556 water quality meter: Sp. conductance: 1.045 mS/cm, pH: 4: 4.15, pH 7: 7.08, pH 10: 10.00.

0900 START begins well sampling. See field sheets for more information.

QKelley 8/15/12

8/15/12

1340 START breaks for lunch.

1400 START picks up ice & water.

1430 START resumes well sampling.

1530 The water level on well PMW-86D is 4.40 which is up from the level it was this morning (7.65). START calls geologist Chris Jones who suggests that START move to the last well and then return to sample 86D later.

1600 Bad weather comes in. Heavy rain, thunder, & lightning. START waits it out before continuing with sampling.

1640 LaMotte turbidity meter is reading negative numbers, so START recalibrates: 0NTU: 0.19, 1 NTU: 0.401, 10 NTU: 9.82.

1736 START collects filter blank sample WT-BF-02.

1739 START collects preservative blank sample WT-PB-03.

1741 START collects field blank sample WT-FB-04.

1750 START reseals & closes all of the wells.

1815 START locks gate & leaves site for the day.

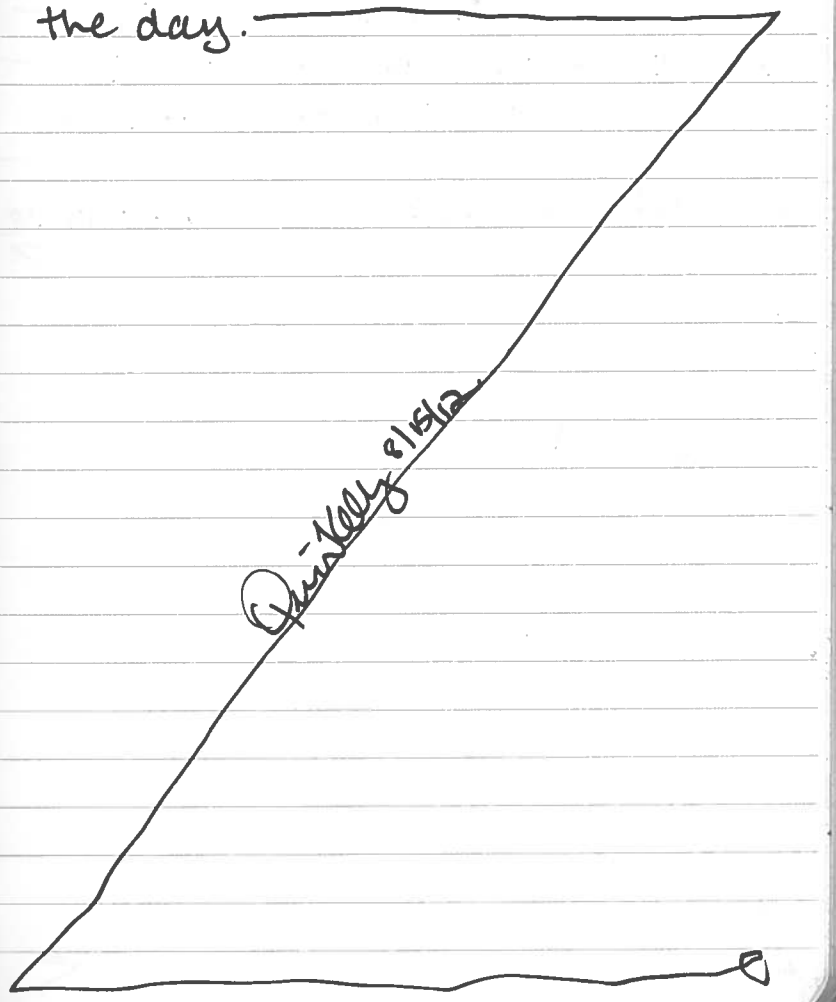
QKelly 8/15/12

8/15/12

1830 START goes to Lowes to copy keys for RPM

1850 START stops for ice and re-packs sample coolers.

1910 START back at hotel. Done for the day.



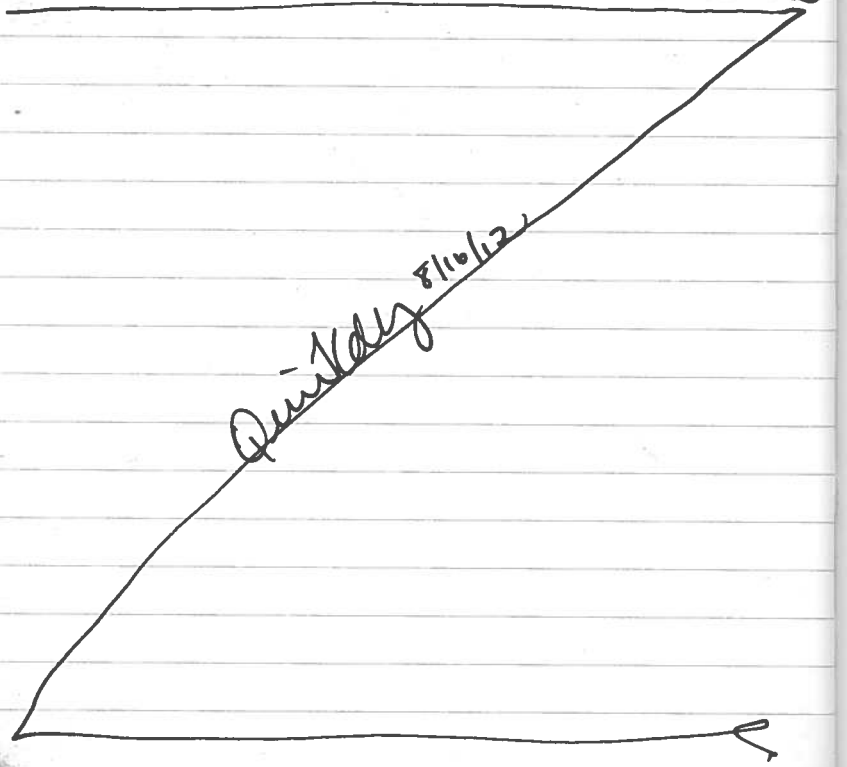
8/16/12

0810 START arrives on site to meet with RPM and USACE.

1030 USACE personnel arrive on site followed by RPM Amoroso. START & RPM Amoroso show USACE the site and describe the findings of the RI

1230 RPM Amoroso, START, and USACE go to USACE offices to discuss the site.

1430 START demobilizes from Jackson ville



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PAGE	REFERENCE	DATE
	Brian Croft, Site Manager (BC)	
	Quinn Kelley, Safety Coord. (QK)	
	Chris Jones, Scientist, Geologist (CJ)	
	John Snyder, Engineer, Geologist (JS)	
	START, Tetra Tech	
	1955 Evergreen Blvd	
	Bldg 200, Suite 300	
	Duluth, GA 30096	
	(678) 775-3100	

Feb 20 2012 FSWT RI

0700 - START Croft, Kelly, Jones, Snyder on-site, unload vehicles, discuss daily plans.

0720 - Snyder (JS) + Jones (CJ) Walk site to mark the locations of wells to be installed. Pre-marked utilities are noted on utility map and on ground surface.

0815 - Mike Merritt w/ Partridge Well Drilling arrive. All discuss plan -

0840 - Auger rig (Partridge) arrive - (David + Gary)

0845 - H+S meeting, CCA, Equipment Hospital route.
Weather; clear, cool, windy from West.

0850 - Set up on PMW-07.

0930 - PMW-07
0-4 = Gravely w/ black sand
4-6 - Black loamy sand -
water table → 6-7 - White, fine sand, wet
7-10 - Homogenous wet brown sand
10-12 - SAA w/ some clay
12-15 - SAA w/ some clay, less clay

0935 - Sample WT-PMW-07-SB-C from 8-10' bgs

0943 - Sample WT-PMW-07-SB-D from 18-20' bgs

Scale: 1 square=_____

cont'd Fairfax RI 2/20/12

PMW-07 - 15-18 - Wet gray sand w/ some clay

18-20 - Wet gray + yellow sand w/ very little clay

0950 - GeoProbe w/ JS move to PMW-01 CJ + QK stay w/ Drill rig @ 07 to install well

PMW-01 - (Hand Augered)
0-6" - Asphalt
6-18" - Dry white/yellow homog. sand
18"-30" - Grayish Brown fine dry sand
30"-48" - Yellow + White Bands, fine dry sand
48"-50" - Chalky white/gray fine dry sand small root encountered
50"-60" - Homog, damp, white, sugary sand
5'-7' - Wet, gray, fine sand
7'-8' - Yellowish gray fine sand
8'-9' - SAA w/ fine roots
9'-10' - saturated fine sugary white sand

1020 - Sample WT-PMW-07-SB-C from 8'-10'

10-13' - Sat. Gray sand, lots of orange + yellow inclusions + streaking

13-15' - Gray sand, sat. yellowish/orange streaking/bands

continued

Scale: 1 square=_____

2/20/12 Fairfax RI

PMW-01 cont'd

15'-17' - Damp gray + yellow sand layers alternating

17'-18' - SAA

18'-20' - Slightly coarser damp sand. Some yellow/gray banding layers

1035 - Sample WT-PMW-01-SB-D from 18'-20' bgs

1045 - Move to PMW-02

Hand Augered:
- 0-6" - gravel
- 6"-12" - dry loose blackish/gray sand
- 12"-48" - Lighter grey, dry, loose sand
- 48"-60" - Light gray w/ dark yellow sand inclusions

5'-7' - Mottled gray, yellow, + red coarse dry sand

7'-10' - Homog. wet gray coarse sand

1100 - Sample WT-PMW-02-SB-C collected from 8'-10' bgs

10'-15' - Homog. coarse light gray saturated sand. Small white band @ 12.5'

15'-20' - Homog coarse ligh gray saturated sand.

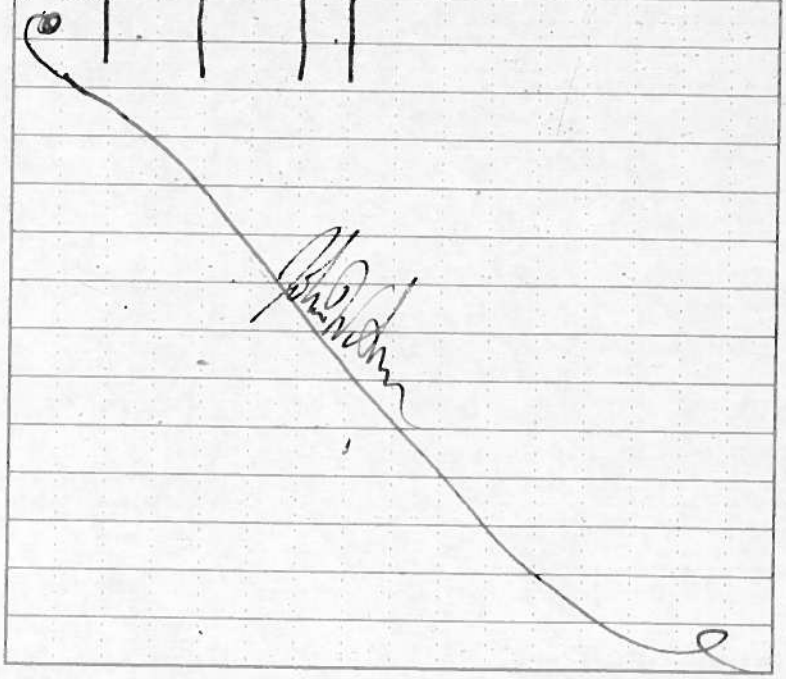
1120 - Sample WT-PMW-02-SB-D collected from 18'-20' bgs

John V Doyle

Scale: 1 square=_____

Photolog - Fairfax RI

Date	Time	Orient	Photo #	Subject
2/20/12	0900	S	JS	PMW-07, pre-drill
	0950	-		PMW-07 cores
	0950	-		↓ ↓
	1035	-		PMW-01 cores
	1115	-		PMW-02 cores
↓	1620	--	↓	PMW-03 cores
2/21/12	1011S	-	JS	PMW-06-S cores
2/22/12	1055	-	JS	PMW-06-D cores



Scale: 1 square=_____

2/20/12 Fairfax RI

1125 - Crew finishes up Geoprobing PMW-02. Geoprobe moves to Feed Building for sampling. Drill rig finishes up installing well @ PMW-07, moves to PMW-01 to install well

Late Entry from PMW-07

0955 Begin drilling

1012 Drilling complete

- 6 50-lb bags of 20/30 Sand filter pack used. Zone is 8-20 ft bls
- Well Plug (Bentonite) from 6-8 ft bls
- Well screened from 10-20 ft bls.

TD - 19.91

DTW - 8.74

1120 PMW-07 installation complete

1200 - Begin boring in Feed building

Begin boring @ grid-01

John D Sawyer

Scale: 1 square=

Fairfax RI 2/20/12

FB-01 A(i) 0'-2' - Void (* see note on p. 20) JWS 3/21/12

JWS 2-2.5' - Brick, gravel, disturbed

2.5'-3' - Black coarse sand

3 - 3.5' - Dark gray coarse dry sand

3.5 - 4 - Banded Yellow/gray sand

4 - 4.5 - Black moist, compact

4.5 - 5 - Coarse damp gray sand

5 - 5.5 - Coarse damp blackes

6 - 6.5 - Chalky white gravel

6.5 - 7' - Damp, coarse, very black slippery sand. Staining?

7 - 8 - Light brown, dry, coarse sand

JWS 8'-10' - Yellowish coarse damp sand

FB-01 B (ii)

0-2.5 - Void * (see note on pg 20 JWS 3/21/12)

2.5 - 3 - Gravel, white chalky

3 - 3.5 - Dark coarse dry mottled w/ yellow sand

3.5 4' - Light gray banding sand

4 - 4.5 - Yellowish / brown coarse sand

4.5 - 5 - Dark gray to light gray sand

5 - 5.5 - Layered Black, Yellow, gray sand

5.5 - 6 - chalky gravel

6 - 8 - damp coarse light yellow sand

John

Scale: 1 square=

2/20/12 Fairfax RI

FB-01 B (ii) cont'd

8-9 - SAA

9-10 - Yellow, gray, red coarse damp sand mottled color

FB-01 C (iii) (center point)

0-2' - Void (see note ★ on pg 20 - JVS 2/21/12)

2-3 - Dark Brown, light Brown, gray layers dry, fine to coarse

3-3.5 - chalky white fine sand, dry

3.5-4.5 - Dark Black coarse sand. Some lighter inclusions

4.5-5 - Light gray dry coarse sand

5-5.5' - Chalk white/black coarse dry sand

5.5-7 - Dark to light Yellow coarse dry sand

7-9' - Light yellow coarse damp sand

7-10' - Saturated yellow coarse sand)

Note: all depths are from feed building floor. floor is ≈ 2' above surrounding grade; therefore the first two feet are void space

2/20/12 Fairfax RI

EB FB-01 D (iv)

0-2' = Void (★ - see note on pg 20, JVS 2/21/12)

2-2.5' - gravel, concrete, fill

2.5-3.0 - Black, dark gray, coarse, dry, sand

3-3.5 - Gray, coarse dry sand

3.5-4.5 - Coarse, damp, dark yellow to black sand

4.5-5' - Bright yellow to black, dry, coarse sand

5-6' - Black coarse sand w/ some gravel

6-7 - Light yellow/gray homog. coarse sand

7-8 - Yellow to light gray coarse sand

8-9 - Light gray with bright Yellow inclusions, coarse damp sand

9-10 - Light gray to bright Yellow coarse damp sand, saturated @ bottom

---

FB-01 E JVS (v)

0-2 - Void (★ - see note on pg 20 - JVS 2/21/12)

2-2.5 - Gravel; loose

2.5-3.5 - Dark Gray coarse dry sand

3.5-4 - Dark Yellow, + ↓

4-4.5 - Mottled Black + white coarse sand

2/20/12 Fairfax RI

FB-01 (v) cont'd
4.5-5 - smooth fine light gray sand
5-6' - gravel, chalky white sand
6-7.5' - smooth damp, coarse white sand
7.5-8 - Dark yellow coarse damp sand
8-9 - Dark yellow to orange coarse damp sand
9-10 - Saturated orange to white coarse sand.

JWS 1300 - Break for lunch

Late Entry for PMW-01
1150 Begin drilling
1203 Drilling complete
- 6 50-lb bags of 20/30 sand - filter pack. Zone is from 8 to 20 ft bls.
- Well plug (Bentonite) from 6-8 ft bls
- Well screened from 10 to 20 ft bls

TD - 19.43
DTW - 6.56
1244 PMW-01 installation complete.

John W Doyle III

Scale: 1 square=_____

Fairfax RI 2/20/12

JWS 1415 - Crew back from lunch, move to Feed Barn Grid #02

FB-02 (ii)
0-2' - Void (* - see note on pg 20 - JWS 2/21/12
2-2.5' - Gravel on top, coarse dry black loose sand, dry
2.5-3' - Light brown/yellow, dry coarse sand
JWS 2.5 3-4' - Chalky JWS white loose dry sand
4-5' - Light gray, dry sand to dark brown fine dry sand
5-6' - Dry fine gravelly dark sand to light brown
6-8' - Light brown, moist, coarse, small black inclusions sand
8-9' - Brown, saturated, very coarse sand
9-10' - Light gray, saturated, very coarse sand

FB-02 (iii)
0-2' - void (* - see note on pg 20 - JWS 2/21/12)
2-3' - chalky gray fine dry sand
3-3.5' - Black fine dry sand
3.5-4.5' - moist, yellow/black mottled sand
4.5-5' - Coarse, moist dark gray/black sand

John W Doyle III

Scale: 1 square=_____

Fairfax RI 2/20/12

FB-02 (iii)

5-5.5' - Yellow coarse dry sand

5.5-6' - Black coarse dry sand

6' - layer of gravel

6'-7.5' - light ~~red~~ brown fine moist sand

7.5'-10' - light brown/orange mottled coarse wet/saturated sand

FB-02 (i)

0-5 - Void

5-7.5' Coarse dry black sand

7.5-9' - Light yellow to orange, coarse moist sand

9-10' - Light gray, saturated coarse sand

FB-02 (v)

0-2' - void (★ - see note on pg 20 JWS 2/21/12)

2-3' - length of ≈ 1" layers of dark gray, white, + yellow coarse dry sand

3'-4' - thin alternating layers of grey + black coarse dry sand

4-5' - moist black + gray mottled coarse sand

5-6' - moist black to dry gray sand

Scale: 1 square=_____

Fairfax RI 2/20/12

FB-02 (v) cont'd

6' - layer of gravel

6-8' - light gray to yellow moist coarse sand

8-9' - yellow moist coarse sand

9-10' - saturated gray coarse sand

FB-02 (iv)

0-2' - void (★ see note on pg 20 JWS 2/21/12)

2' - gravel

2'-3' - coarse chalky white dry sand to mottled black + brown

3-4' - coarse black dry to chalky moist white course sand

4-4.5' - chalky white to yellow coarse moist sand

4.5-5' - Black moist coarse sand

5-6' - Moist, chalky, fine white sand

6-8' - Dry coarse ~~black~~ black sand

8-9 - Mottled black + white dry coarse sand

9-10 - Saturated light brown coarse sand

1525 - Geoprobe crew off to PMW-03

1540 - Crew set up on PMW-03

Scale: 1 square=_____

2/20/12 Fairfax RI

PMW-03

Hand Augered

0-6" - gravel

6"-24" - moist light gray to brown sand

24"-30" - Black moist coarse sand

30"-36" - Dark brown, moist sand with hard white chalky inclusions

36"-40" - Moist dark brown sand

40"-50" - Moist dark brown sand with small amount of roots

50"-60" - light gray, dry, coarse sand

5'-6' - Moist fine light brown sand

6-10' - Saturated light brown coarse sand, small clay component

1610 - Sample WT-PMW-03-SB-C from 8-10' bgs

10'-15' - homog., saturated coarse light gray sand.

15'-20' - Saturated coarse light gray sand.

1620 - Sample WT-PMW-03-SB-D from 18-20' bgs

Late Entry for PMW-02

1422 Begin drilling

1433 Drilling complete

Scale: 1 square=

2/20/12 Fairfax RI

· 5.75 50-lb bags of 20/30 sand filter pack. Zone is 8-20 ft bls

· Well plug (bentonite) 6-8 ft bls

· Well screened from 10-20 ft bls

TD - 19.60

DTW - 6.85

1515 PMW-02 installation complete

1520 Mix Portland cement to complet PMW-07, 01, and 02.

· Wells grouted from 0 to 6 ft bls

1612 Wells PMW-07, 01, and 02 have been grouted.

1635 Begin drilling PMW-03

1643 Drilling complete

· 6.25 50-lb bags of 20/30 sand filter pack. Zone is 8 to 20 ft bls

· Well plug (bentonite) 6-8 ft bls

· Well screened from 10-20 ft bls

TD - 19.71

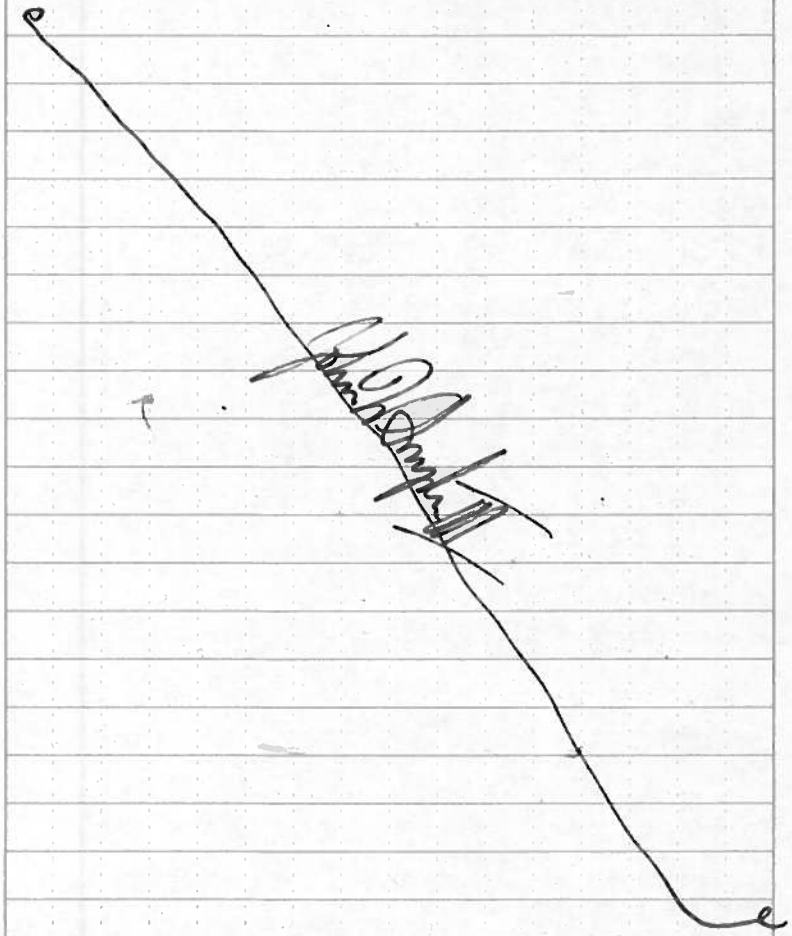
DTW - 7.92

Scale: 1 square=

Fairfax RI 2/20/12

1715 PMW-03 installation complete.

1730 - START offsite for day; hand deliver today's samples to FedEx for shipment to lab. Back @ hotel at 1800.



Scale: 1 square=_____

Fairfax RI 2/21/12

0700 - START BC, QK, CJ, + JS onsite
Team prepares sampling equipment for the day. CJ + JS examine wells installed yesterday

Well	Time	Water depth from TOC	TD
PMW-07	0737	8.74'	19.91
PMW-01	0742	6.56	19.43
PMW-02	0745	6.85	19.60
PMW-03	0748	7.92	19.71

All wells were uncapped and allowed to equilize for ≥ 10 minutes before reading

0800 - Mike + Merritt w/ Partridge on-site

0805 - H+S meeting, opening: acetate liners, heat, stray dogs + cats, CCA hydration.

0825 - Partridge moves Geoprobe to PMW-04

PMW-04 (western side of site)

0-6" - gravel

6-12" - dark brown loose coarse dry sand

12-16" - dark grey; fine dry loose sand

16"-18" - dark brown, loose dry sand

18"-20" - brown, loose coarse dry sand

20-24" - light brown " ↓ "

Scale: 1 square=_____

2/21/02 Fairfax RI

PMW-04 cont'd

24" - 36" - loose coarse dry light brown sand
36" - 48" - wet light brown, coarse sand
5' - 5.5' - brown coarse, moist sand
5.5 - 6' - light grey/brown, coarse sat. sand
6 - 7' - yellow/light grey mottled coarse sat sand
7 - 10' - light grey coarse, saturated sand
0843 - Sample WT-PMW-04-SB-C from 8-10' bgs
10 - 15' - Light gray saturated coarse sand very small black inclusions.
15 - 18' - fine gray saturated sand with smaller black inclusions
18 - 19' - fine light gray sat. sand with light yellow bands of fine sand
19 - 20' - fine saturated light grey sand
0852 - Sample WT-PMW-04-SB-D from 18-20' bgs
0855 - Move to PMW-05

PMW-05, south of NW retention pond

0 - 6" - gravel/fill
6 - 12" - black dry fine grain
12 - 24" - black/dark brown mottled fine sand/loam dry
24" - 36" - light gray fine dry sand
36 - 60" - yellow/light brown mottled fine sand

Scale: 1 square=_____

2/21/12 Fairfax RI

PMW-05 cont'd

5 - 5.5' - Bright yellow/orange coarse damp sand
5.5 - 7 - light yellow/ to gray, coarse saturated sand
7.5 - 10 - gray, fine to medium grained saturated sand
0918 - Sample WT-PMW-05-SB-C from 8-10' bgs
10 - 15' - Coarse at top turning to medium-grained at bottom. Small black fine inclusions; saturated throat.
15 - 20' - SAA
0932 - Sample WT-PMW-05-SB-D from 18-20' bgs
0940 - Geoprobe Crew to PMW-06S

PMW-06S, by NW retention pond

0 - 6" - Gravel, fill
6 - 12" - Dark brown/black, loose dry sand
12 - 48" - Loose black dry sand, coarse
48 - 60" - Moist dark brown coarse sand
5' - 6' - Dark Brown coarse sat. sand w/ fine silty component
6 - 8 - Uniform coarse saturated light brown sand
8 - 10' - fine saturated light brown sand w/clay

Scale: 1 square=_____

2/21/12 Fairfax RI

PMW-06S cont'd

1010 Sample WT-PMW-06S-SB-C from 8-10' bgs

10-11' - Dark to light gray coarse saturated sand

11-14' - Light gray fine saturated sand

14'-~~15~~ 14.5' - Dark brown medium-grain saturated sand

14.5-15' - Gray/white mottled coarse sat. sand

15-20' - Light Grey saturated coarse sand

1021 - Sample WT-PMW-06S-SB-D from 18-20'

Geoprobe Crew moves to Feed Building to commence boring/coring.

* Note regarding yesterday's Feed Building borings: Void space beneath floor was actual closer to 1', not the 2' as 2 feet assumed during core loggings. The core logs will not be corrected, but should reference this Note.

FB-03 (ii)

0-1' - Void

1-1.5' - loose crumbling gravel + coarse dark sand

1.5-2.5' - dark coarse sand, dry loose layers

3' - Bands of dark yellow coarse dry

3-4' - White/Black layers of coarse, dry sand

Scale: 1 square=_____

2/21/12 Fairfax RI

4' - 1" band

4-5' - coarse dry light grey sand

5-5.5 - SAT

5.5-8 - Light yellow, damp w/ mottled yellow coarse sand

8-9 - Bright yellow, coarse damp sand

9-10' - light grey coarse saturated

FB-03 (iii)

0-1' - void

1-1.5 - chalky fine fill, disturbed, dry

1.5-2.5 - Black coarse dry sand

2.5-3 - thin layers, yellow/white/black sand

3-3.5 - light brown coarse dry sand

3.5-4.5 - Black, asphalt odor, slick fine sand

4.5-5 - fine light grey moist sand

5-5.5 - Mottled yellow/black fine moist sand

5.5-6 - fine dry light grey w/ gravel

6-8' - Mottled dark yellow/brown moist coarse sand

8-10' - Light brown to light gray, moist to saturated coarse sand

Scale: 1 square=_____

Fairfax RI 2/21/12

FB-03 (v)

0-1' Void

1-1.5 - chunky gravel, fill

1.5-3 - layers of dry, coarse black/white/gray sand

3-4 - light yellow coarse moist sand

4-5 - black to dark gray fine moist sand

5-5.5 - Mottled light brown/black moist fine sand

5.5-6 - gravelly dry black fine sand

6-7 - med-grained light brown, moist sand

7-9 - light to bright yellow/orange med-grained sand.

9-10' light gray/brown coarse saturated sand

FB-03 (iv)

0-1' - void

1-1.5 - gravel/fill

1.5-3' - black/gray/orange layers, coarse dry sand

3-4' - dark/light brown mottled layers medium-grained, moist sand

4-4.5' - dark black, fine-grained moist sand

4.5-5 - gray, fine grained moist sand

Scale: 1 square=

2/21/12 Fairfax RI

FB-03 (iv) cont'd

5-6.5 - dark yellow to dark brown coarse moist sand

6.5-7.5 - light yellow to dark yellow moist coarse sand

7.5-8 - bright orange moist coarse sand

8-10' - moist coarse sand, yellow/light gray mottled

FB-03 (i)

0-1' void

1' - chunky asphalt/gravel

1-2' - gray/white/black layers of dry fine sand

2-3.5' - black/brown layers of dry fine sand

3.5-4 - dark yellow/brown thin layers of moist coarse sand

4-5' - slight asphalt odor, fine black moist sand

5-6' - chunky, loose fine dry, sand

6-6.5' - coarse moist black sand

6.5-8 - light yellow to dark yellow, mottled moist medium-grained sand

8-10' - Saturated light gray medium grained sand

Scale: 1 square=

m

2/21/12 Fairfax RT

FB-04 (i)

0-1' - void

1' - gravel, fill

1-2' - dark grey, coarse, sand

2-3' - SAA w/ darker, finer grains

3-4' - light yellow to dark grey moist med-grained sand

4-5' - black to light grey moist coarse sand

5-5.5' - dark brown, moist med-grain sand

5.5-6.5 - light yellow/grey fine-grained moist sand

6.5-10 - coarse, moist to saturated yellow/grey mottled.

1215 - Lunch

1315 - Back from lunch (Partridge)

FB-04 - (iii)

0-1' - void

1' - gravel, fill

1-1.5 - Light brown to dk brown, coarse dry sand

1.5-2.5 - Brown, coarse dry sand

2.5-3.5 - White/black layers mottled, medium grained sand, dry

3.5-4.5 - Black, clayey sand moist

Scale: 1 square=

2/21/12 Fairfax RT

4.5-6' - light grey, moist coarse sand

6-7' medium grained light brown moist sand

7-9.5' - brown, fine-grained moist sand

9.5-10 - light gray coarse, saturated sand

FB-04 (iv)

0-1' void

1' - gravel layer / fill

1-2' - brown/black/grey layers coarse dry sand

2-3' - moist coarse light grey sand

3-4' - light brown w/ black thin layers fine sand, moist

4-5' - gray, medium-grained moist sand

5-7' - Moist coarse sand, from light yellow to light grey

7-10' - Medium-grained saturated light gray sand

FB-04 (v)

0-1' void

1' - gravel / fill

1-2' - Black / dark brown layers, moist coarse sand

2-2.5' - Brown medium-grained, moist sand

Scale: 1 square=

Fairfax RI 2/21/12

FB-04 (v) cont'd

2.5-4' - white/gray mottled fine-grained sand, dry

4-4.5' - light brown - moist, medium-grained sand

4.5-6' - dark gray to black fine-grained moist sand

6-7.5' - light brown moist fine sand

7.5-9.5 - moist light grey/yellow mottled sand

9.5-10 - light gray coarse saturated sand

FB-04 (ii)

0-1' void

1-1.5 - gravel / fill (disturbed)

1.5-2.5 - dark gray, medium grained moist sand

2.5-3.5 - dark gray, some yellow mottled moist, med.-grained sand

3.5 - grey layer, coarse sand

3.5-4 - dark yellow/brown, fine moist sand

4-4.5 - light brown, fine-grained moist sand

4.5-6.5 - Dark gray

6.5-9 - Yellow/orange moist med-gram sand

9-10' - light gray coarse, saturated sand

Scale: 1 square=_____

Fairfax RI 2/21/12

FB-04 (ii) Duplicate

0-1 void

1 - gravel / fill

1-2.5 - gray to dark gray med-gram dry sand

2.5-3 - dark brown course dry sand

3 - 1 inch layer of black fine gram clayer sand

3-3.5 - white coarse moist sand

3.5-4 - light gray to dark gray med. moist sand

4-5 - Black moist med-grain sand

FB-04 (iii) duplicate

0-1 void

1' - gravel underlain with white sand

1-2.5 - Brown/black/gray mottled med to coarse grained dry sand

2.5-3' - Gray, fine, dry sand

3-4' - Gray to yellow med-gram dry w/ brown mottling

4-5 - Dark to light gray

Med to coarse gray, damp sand

Scale: 1 square=_____

Fairfax RI 2/21/12

FB-04 (i) duplicate

0-1 void

1' - gravel / fill underlain by brown fill

1-1.5' - light gray moist fine grained sand

1.5-2.5' - brown med-grain moist sand w/ yellow mottling

2.5-3' - Black clayey sand, moist

3-4 - light brown fine moist sand

4-5' - Grey moist coarse sand

FB-04 (iv) - duplicate

0-1' - void

1 - gravel

1-1.5' - dark brown, med. grained moist sand

1.5- light gray dry fine 1" layer sand

1.5-2.5' - dark brown, moist med-grain sand

2.5 - 2" layer light gray dry coarse sand

2.5-3.5 - light brown dry fine sand

3.5-5 - grey moist coarse sand

FB-04 (v) - dup

)-1' void

1-1.5 - chalky rock, concrete?

1.5-2 - dark gray, fine moist sand

2-3 - dark brown to light brown mottled med-grain dry sand

Scale: 1 square=_____

Fairfax RI 2/21/12

3-3.5 - alternating white/black layers fine white sand, clayey black sand

3.5-4.5 - light brown fine dry sand

4.5-5.0 - dark gray medium, moist sand

FB-05 (i)

0-1' - void

1' - chalky chunky gravel

1'-2' - light brown to brown med-grain moist sand

2-3' black moist clayey sand

3-4' - light brown medium moist sand

4-5' - gray coarse moist sand

5-6' - light to dark brown coarse moist sand

6-7' - dark to light brown medium to fine grained moist sand

7-8' - light to bright yellow/orange medium grain saturated sand

8-9' - orange medium saturated sand

9-10' - light gray coarse saturated sand

Scale: 1 square=_____

Fairfax RI 2/21/12

FB-05 (ii)

0-1 - void

1-1.5 - chalky dry white concrete

1.5-2.5 - Mottled brown + black dry medium-grained sand

2.5-4' - SAA

4-5 - Brown/black layers (2") of moist coarse sand

5-6' - light brown moist medium sand

6-7' - light brown to brown saturated fine sand

7'-10' - mottled coarse saturated orange/yellow/light brown sand

FB-05 (iii)

0-1' - void

1-1.5' - chalky white dry concrete

1.5-2.5' - dark gray dry coarse sand

2.5-3.0 - black clayey sand dry, asphalt odor

3.0-4.0' - light brown/dark brown mottled fine moist sand

4-5' - brown to dark brown, med-grain moist sand

5-7' - fine moist brown sand

Scale: 1 square=_____

Fairfax RI 2/21/12

FB-05 (iii) cont'd

7-8.5' - light brown to yellow moist to saturated coarse sand

8.5-10' - light grey coarse saturated sand

FB-05 (v)

0-1' void

1' - crushed concrete

1-2' - brown, dry medium sand

2-3 - dark brown medium dry sand

3-4' - light brown fine dry sand

4-5' - light brown to dark moist med. sand

5-6' - grey to light brown dry coarse sand

6-7' - light grey saturated med. sand

7-8' - SAA

8-10' - light grey saturated coarse sand

FB-05 (iv)

0-1 void

1' - gravel/concrete

1-2' - light brown consolidated rock/soil dry

2-3' - brown, dark, faint petro. odor, moist med grain

3-4' - light brown - dry fine sand

4-5' - black to gray dry fine sand

Scale: 1 square=_____

Fairfax RI 2/21/12

FB-05 (iv) cont'd
5-6' - Black to dark brown moist medium sand
6-7' - SAA
7-8' - light grey moist foam
8-10' - light grey saturated clayey coarse sand
1600 - Finished Geoprobing Feed Building

Late Entry for well install
0938 Begin drilling PMW-04
0948 Drilling complete
- 5 2/3 bags of 20/30 sand filter pack used. Zone is from 8 to 20 ft bls
- Well plug (Bentonite) 6-8 ft bls
- Well screened from 10-20 ft bls

TD - 19.56
DTW - 6.02
1015 PMW-04 installation complete.
1044 Begin drilling PMW-05
1054 Drilling complete
- 6 bags of 20/30 sand filter pack used. Zone is from

Scale: 1 square=

Fairfax RI 2/21/12

7.5 - 20 ft bls.
- Well plug (bentonite) 5.5 - 7.5 ft bls.
- Well screened from 10-20 ft bls.

TD - 19.62
DTW - 6.33
1118 PMW-05 installation complete.
1137 Begin drilling PMW-06 (shallow)
1150 Drilling complete
- 6 1/3 bags of 20/30 sand filter pack used. Zone from 8-20 ft bls.
- Well plug (bentonite) 6-8 ft bls
- Well screened from 10-20 ft bls.

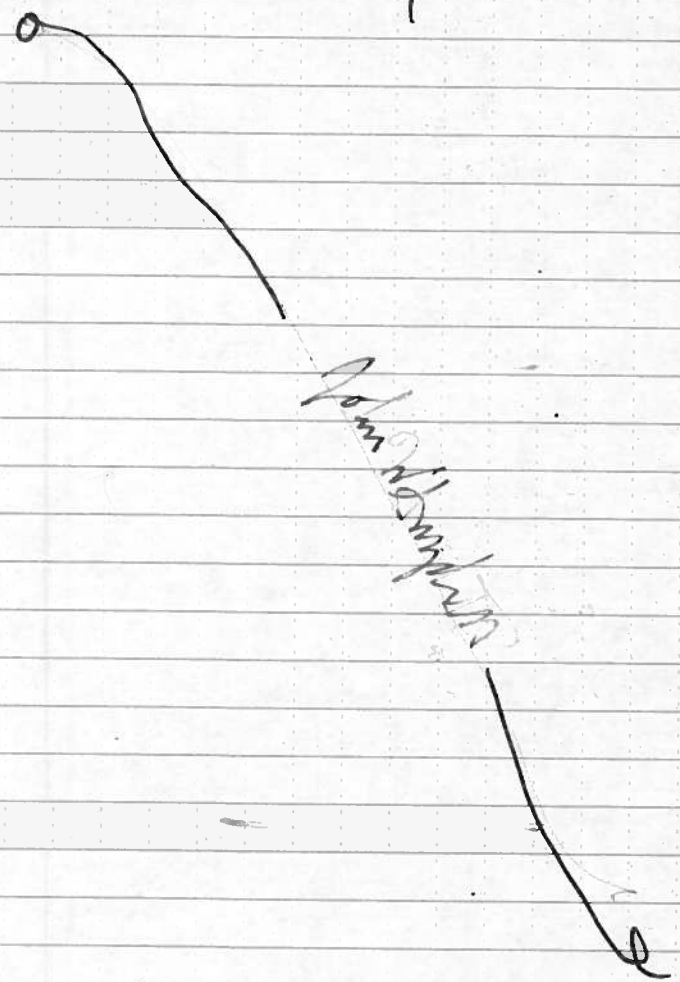
TD - 19.61
DTW - 6.82
1216 PMW-06 (shallow) installation complete.
1350 Begin to grout newly installed wells and top off wells grouted yesterday.
1520 All wells have been grouted.

Scale: 1 square=

Fairfax RI 2/21/12

1715 START Offsite, deliver coolers to FedEX, go to hotel.

1800 Done for day



Fairfax RI 2/22/12

0700- START QK, CJ, + JS arrive on site. BC has been here since 0630.

Weather; currently clear - cool (50's) high of 78°. Change of T-storms in late afternoon.

0725- CJ + JS off to gage wells

Well	Time	Depth of water from TOC	TD
PMW-06S	0732	6.82'	19.61'
PMW-05	0734	6.33'	19.62'
PMW-04	0737	6.02	19.56'

0830- Mike + Dave w/ Partridge arrive H+S meeting: CCA, heat, weather, heavy machinery

0900 - Geoprobe set up on PMW-06-D

PMW-06-D

0-6" - gravel / disturbed

6"-24" loose moist medium black sand

24-40" dark gray moist coarse sand

40"-60" - Grey to brown moist sandy clay

5-6.5' SAA

6.5-8.5 - Brown/Grey moist coarse sand

8.5-10' - Saturated sandy clay, gray. Wood in clay

Scale: 1 square=_____

Fairfax RI 2/22/12

PMW-06D cont'd

0935 - Sample WT-PMW-06D-SB-C from 8-10'bgs

10-12.5 - Grey, saturated, medium-grained sand

12.5-13' - Dark grey clayey sand, saturated

13-15' Saturated, ≈2" layers of grey coarse sand and darker clayey sand

15-16' - light grey, saturated, coarse sand

16-17' - Grey clayey saturated sand

17-18' - Grey saturated silty sandy clay

18-19 - Coarse saturated clayey gray sand

19-20' Coarse grey saturated sand

0948 - Sample WT-PMW-06D-SB-D from 18-20'bgs

20-21' - Coarse light grey sat sand

21-22' - Fine light grey sat. sand

22-22.5 - Coarse light grey sat. sand

22.5-23 - Coarse grey sat sand

23-24 - Grey silty saturated sand

24-24.5 - Grey silty clay, saturated

24.5-25 - Grey medium-grained saturated sand

25-30' - Poor recovery

25-27.5 - Slick saturated dark grey clay

27.5-30 - Moist saturated dark grey clay

1030 - Sample WT-PMW-06D-SB-E from 28-30'bgs

30-34' - Grey slide moist clay (silty)

Scale: 1 square=_____

Fairfax RI 2/22/12

PMW-06D cont'd

34-35' - Grey clayey sand moist

35-36' - Grey moist sandy clay

36-38 - Grey moist sandy clay with shells

38-38.5 - light grey saturated medium sand

38.5-40 - Grey clayey moist sand w/ shells

1057 - Sample WT-PMW-06D-SB-F from 38-40'bgs

1115 Begin drilling PMW-06 (Deep)

1145 Drilling complete

- 4 3/4 bags of 20/30 sand filter pack used, sand from 33 to 40 ft bls
- Well plug (bentonite) from 31 to 33 ft bls
- Well screened from 35 to 40 ft bls.

TD - 40.29'

DTW -

1215 Well installation activities complete. Well plug is hydrated and allowed to set for one hour before grouting well.

Crew off for lunch

Scale: 1 square=_____

Fairfax RI 2/22/12

1325 START Jones will assist Partridge Well Co w/ well development.
- Partridge Well Co attempted to develop PMW-05. Approx 40-45 gal were removed but well was not clearing up. A 2-in submersible pump was used and the flow was not restricted. START Jones contacted Scott Shaw, a Tetra Tech Senior Hydrogeologist for advice. Mr. Shaw recommended reducing the flow rate to approx 0.5 gal per min. and slowly raising the pump as the water clears.

1334 The above method is attempted on PMW-05.

Partridge continuing to withdraw auger from PMW-06D and grout

1420 - After purging ≈60 gals., PMW-05 is showing clear discharge.

1430 - PMW-06D grouting complete

1445 - Commence storm drain removal

Scale: 1 square=_____

Fairfax RI 2/22/12

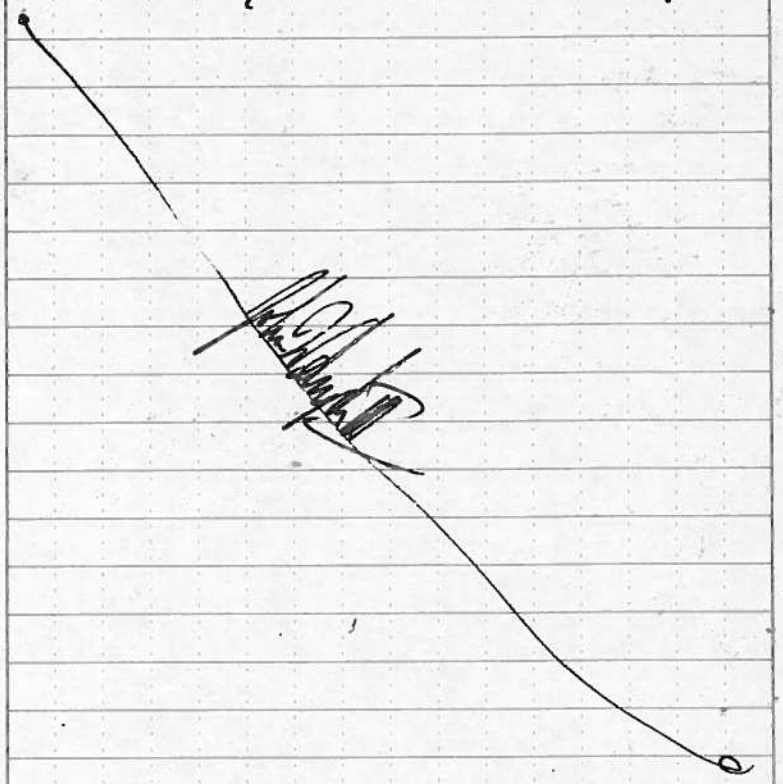
1445 - Begin purging PMW-07

1500 - Done pulling drum covers

1705 - Done purging PMW-07. 50 gals of groundwater removed.

1710 Clean up from site activities

1725 START Jones, Snyder, and Kelley off site for the day.



Scale: 1 square=_____

Fairfax RI 2/23/12

0700 - START JS CW + QK onsite BC arrived @ 0625

0715 - H+S meeting, storm drains, decon during on-site

Weather - possible showers/T-storms, high 80s

0720 - Keys locked in Tahoe, called Enterprise, On-Star unlocked vehicle.

0740 - ~~Gauge wells~~ began purging PMW-01

~ 800. Partridge on site; began setting concrete pads around wellheads

0910 - 30 gal. removed from PMW-01; discharge now clear + free of solids

0920 - Set up on PMW-02; development

1020 - Finished developing PMW-02 Discharge clear + free of solids

1030 - Set up to develop PMW-03

1315 - Discharge @ PMW-03 clear + free of solids

1325 - Set up on PMW-04 to develop

1500 - PMW-04 discharge clear + free of sediment ~~after~~ 20 gallons pumped

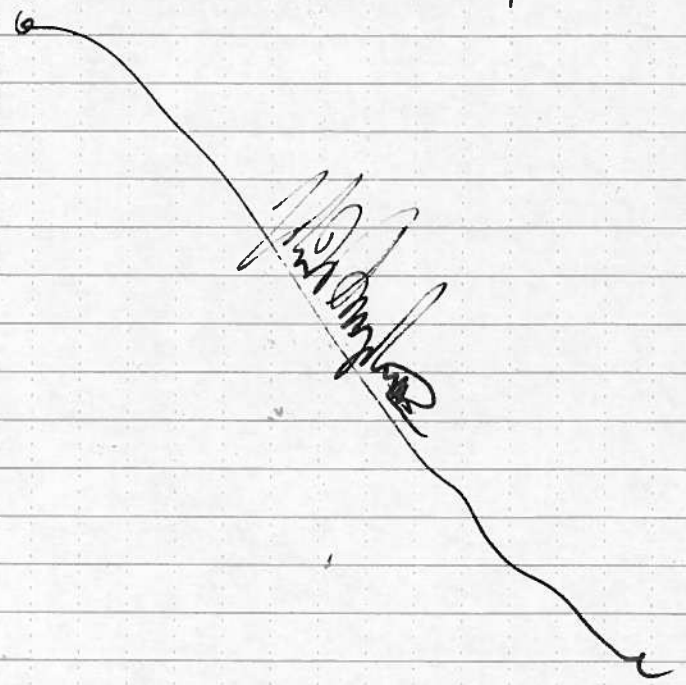
Scale: 1 square=_____

Fairfax RI 2/23/12

1510 - Set up on PMW-06S to develop

1715 - PMW-06S development abandoned for the day. Purged 35 gals, discharge still cloudy; will resume tomorrow.

1725 START offsite for day. Delivered coolers to FedEx; back to hotel by 1800. done for the day



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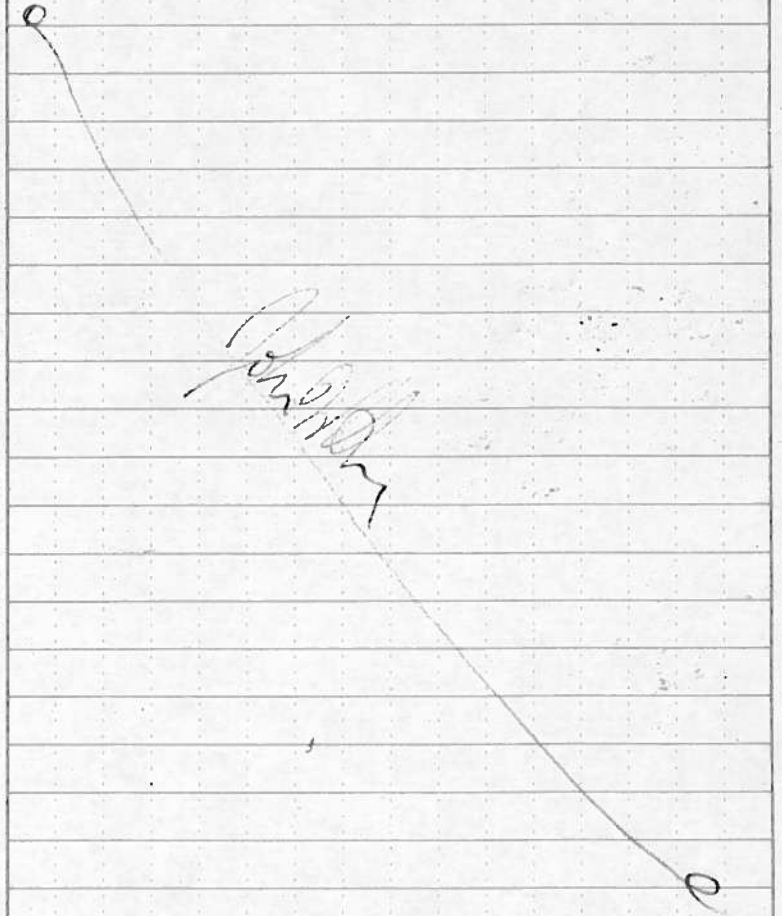
Fairfax RI 2/24/12

0700 START JS CJ and QK arrive on site. BC arrived @ 0630
Weather: 50% chance of T-storms, windy, high in mid 80s.
Objective: develop remaining wells on-site soil sampling.
H+S - heat, weather, slips, trips, falls
0720 - Set up on PMW-06S; continue to develop. Purged 35 gal. yesterday. Early discharge is still very cloudy with fine grey sediment load.
0845 - PMW-06S discharge clear + free of sediment. Appx. 25 gal pumped today for total of 60 gal.
0850. Set up on PMW-06D
0915 - well flows recharge too slow after ≈13 gal. Discharge reduced to allow recharge to catch up.
Water column was initially ≈32 ft. 3 well volumes ≈ 16 gals. Discharge is currently clear + free of sediment but will pump 20 gals for good measure.
1017 - Finished developing PMW-06D. Discharged ≈20 gal. Discharge free of sediment + clear.

Scale: 1 square=_____

Fairfax RI 2/24/12

Afternoon: decon equipment, conduct on-site sampling. See Logbook #1
1715: START JS CJ + QK offsite for day, back to hotel



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Logbook # 03

2/27/2012 through 3/2/2012

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	Wendy Robinson TTEMI	
	Brian Croft TTEMI	
	~~Jeff Krome TTNUS~~ WR	
	Jeff Krone TTNUS	
	Kevin Weichert TTNUS	
	All sampling conducted in accordance to Wok Plan (dated 1/27/12) unless otherwise noted.	

Monday, February 27, 2012

0700 START Robinson and Shaver arrive on-site. Attend safety mtg and briefing on activities.
0835 Tetra Tech NUS Jeff Krome and START Robinson arrive at 1825 W. 13th Street. Resident is home; begin placing pin flags.
0858 WT-RP-59-SF-FY collected by Krome, Robinson and Croft at 1825 W 13th Street. ——— ur
0916 WT-RP-59-SB-FY collected. Begin pulling aliquots for FY-DUP.
0927 WT-RP-59-SF-FY-DUP collected. ——— ur
0940 WT-RP-59-SF-BY collected.
0957 WT-RP-59-SB-BY collected.
1006 Holes backfilled and pin flags removed. Move on to next property.
1010 At 1824 W 14th Street. ——— ur
Only backyard to be sampled. — ur
1033 WT-RP-66-SF-BY collected. Soil is fine gray/black sand. ——— ur
1040 Unusual tan-orange-reddish sandy soil encountered

Wendy Robinson

Monday February 27, 2012

from 12"-18" in aliquots 2, 3+4.
1053 WT-RP-66-SB-BY collected.
1100 Arrive at 2316 Fairfax St. Begin placing pin flags, site sketch + photos. ——— ur
1124 WT-RP-55-SF-FY collected.
1138 WT-RP-55-SB-FY collected.
1142 Backfill all FY holes. ——— ur
1154 WT-RP-55-SF-BY collected.
1210 WT-RP-55-SB-BY collected.
1215 Backfilled all holes. ——— ur
1220 Back at Wood Treaters office START Jones, NUS Krome begin deconning augers + spoons. — ur
1245 Check in samples w/ START Kelley.
1250 Assit with decon. ——— ur
1330 Depart for lunch. ——— ur
1430 Return from lunch. ——— ur
~~Continue~~ ur Wrap augers and spoons post decon. ——— ur
1500 Arrive at 1756 W. 14th Street. No house on lot, empty; no buildings. Mid point will determine "front" and "back" yards.

Wendy Robinson

Monday, February 27, 2012

1516 WT-RP-54-SF-FY collected at 1756 West 14th Street. —WR
1524 WT-RP-54-SB-FY collected.
1536 WT-RP-54-SF-BY Collected.
1545 offset aliquot about 4 feet NE of aliquot #4 for subsurface BY sample. Brick encountered at 8" - 10". —WR
1550 WT-RP-54-SB-BY collected.
1552 Backfilled all holes. —WR
1555 Place pin flags at 2409 Fairfax st. Station WTRP52. —WR
1600 Krone and Jones begin collecting aliquots of WTRP52-FY + BY
1607 WT-RP-52-SF-FY Collected.
1608 WT-RP-52-SF-BY collected. Surface soil samples only. —WR
1616 Return to Wood Treaters office.
* Correction Jeff's last name is spelled K·R·O·N·E —WR
1620 Decon equipment. —WR
1715 Depart from site. —WR
—WR
—WR

Wendy Robinson

Scale: 1 square=

Tuesday, February 28, 2012

0800 START + NUS arrive onsite. Attend health + safety mtg. —WR
Discuss goals for today. —WR
0820 Load car and refill topsoil bucket.
0855 Robinson and Krone arrive at 1757 West 14th Street (WTRP53)
0913 WT-RP-53-SF-FY Collected. —WR
0917 Aliquot #3 of FY moved ~1' SW due to roots/refusal when collecting SB-FY sample. —WR
0921 Aliquot #5 of FY moved ~1' E due to roots/refusal when collecting SB-FY sample. —WR
0930 WT-RP-53-SB-FY collected. Krone begins augering in BY.
0946 WT-RP-53-SF-BY collected.
0958 WT-RP-53-SB-BY collected. Move to 1924 Pullman Ct (WTRP54) to met resident to open back gate at 1000
1006 Resident not home. Waiting for arrival.
1008 Resident on-site. Jones assisting with collection of SF + SB-BY only. Front previously sampled.
—WR

Wendy Robinson

Scale: 1 square=

6

Tuesday, February 28, 2012

1018 WT-RP-67-SF-BY collected.
1026 WT-RP-67-SB-BY collected.
1037 Arrive at 1831 W. 13th Street to collect access agreement, but no one was home. ——— WR
1040 Arrive at ~~1759 W~~ 1756 W 15th Street (WTRP51). Place pin flags. Backyard is ~~Majority~~ WR Mostly concrete patio with flower beds and storage shed. No locations adequate to collect sample. Per Croft, no backyard sample will be collected.
1058 WT-RP-51-SF-FY collected.
1109 WT-RP-51-SB-FY collected.
1112 Spoke with resident at 1745 W. 15th Street to unlock gate for — WR
1750 W. 15th St (WTRP70). No — WR
fence b/w two properties. — WR
1745 is owned by tenants — WR
godmother. Pitbull in backyard needs husband present to be chained up. ——— WR
WR

Wendy Robinson

Scale: 1 square=

7

Tuesday, February 28, 2012

1122 Arrive at 1753 W. 16th Street (WTRP47). Place pin flags and take photos. ——— WR
1135 WT-RP-47-SF-FY collected.
1140 WT-RP-47-SB-FY collected.
Krone and Jones move to backyard.
1156 WT-RP-47-SF-BY collected.
1206 WT-RP-47-SB-BY collected.
1211 WT-RP-47-SF-BY-DUP collected.
1215 Back at Wood Treater office; begin disconning equipment.
1240 Break for lunch. ——— WR
1320 Wrap equipment and load car for afternoon sampling
1415 Arrive at 1744 W. 17th Street.
1420 Neighbor at 1745 submitted access agreement to Robinson.
1435 Neighbor at 1739 (also owns 1736) W. 17th Street requesting access. Gave her EPA contacts. ——— WR
1435 WT-RP-22-SF-FY collected at 1744 W. 17th Street (WTRP22)
1448 WT-RP-22-SB-FY collected.
WR

Wendy Robinson

Scale: 1 square=

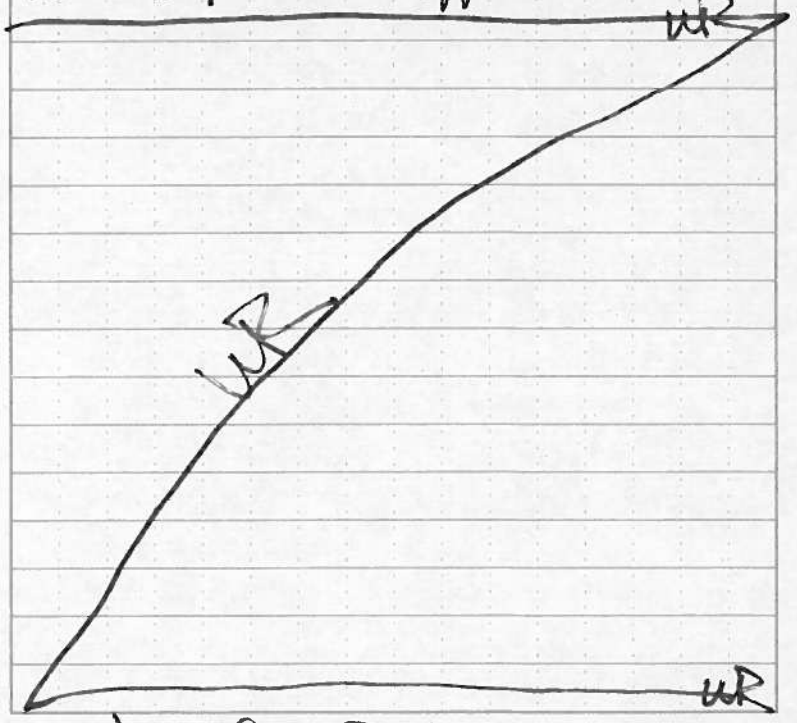
Tuesday, February 28, 2012

1454 WT-RP-22-SF-FY-DUP collected at 1744 W. 17th St.
1455 Krone begins augering BY. White powder (sevendust for fleas) covers entire backyard, ——— WR
According to owner (Krone asked)
1507 WT-RP-22-SF-BY collected.
1516 WT-RP-22-SB-BY collected.
All holes backfilled. ——— WR
1520 Move to 1745 West 17th Street (WTRP71). Pin flags placed. No fencing delineates backyard with rear parcel or side parcel (E). Used fenceline from 1751 W. 17th St to determine end of backyard. Numerous oats and large piles of debris located in backyard.
1550 WT-RP-71-SF-FY collected.
1558 WT-RP-71-SB-FY collected.
Move to backyard. ~~SF-BY~~ WR
1617 WT-RP-71-~~SB-BY~~ collected.
1632 WT-RP-71-SB-BY collected.
WR

Wendy Robinson

Tuesday, February 28, 2012

1643 All holes backfilled.
1650 Return to Wood Treater office. The location of 1750 W. 17th Street was not where we thought it was. It is across the street from 1745 W 17th St, whom we spoke with at 1112 today.
1700 Begin decon of equipment.
1825 Depart site office. ——— WR



Wendy Robinson

Wednesday, February 29, 2012

UR 0700 Arrive at site office. NUS and Craft wrapping cleaned equipment. Attend safety meeting; discuss today's goals and new properties.
0743 With Krone, arrive at 1851 W. 13th Street (WTRP68)
0745 Place pin flags, take photos, draw site sketch. ——— UR
0758 WT-RP-68-SF-BY collected. ——— UR
0809 WT-RP-68-SB-BY collected.
0817 WT-RP-68-SF-BY-DUP collected. All holes backfilled. ——— UR
0824 Move to 1839 West 13th Street (WTRP61). Duplex with 1841 W. 13th Street. Called property owner (Phillip Michael McKinley) to inform of sampling (per his request.) ——— UR
0826 Pin flags placed, site sketch drawn, photos taken.
0846 WT-RP-61-SF-FY collected.
0853 WT-RP-61-SB-FY collected.
0900 WT-RP-61-SF-BY collected.
——— UR

1 dup Wendy Robinson

Wednesday, February 29, 2012

0901 Pressure treated posts and lots of trash are located in the backyard. ——— UR
0910 WT-RP-61-SB-BY collected.
0915 Move to 1831 W. 13th Street (WTRP60); no answer at door or on phone; gate is "dummy" locked so access to backyard is available. ——— UR
0934 Pin flags placed; site sketch, and photo documentation complete.
0938 WT-RP-60-SF-FY collected.
0947 WT-RP-60-SB-FY collected.
1000 WT-RP-60-SF-BY collected.
1010 WT-RP-60-SB-BY collected.
1014 All holes backfilled. Return to site office to collect more spoons. ——— UR
1030 Retrieve spoons from Shaver.
1040 At 1828 W. 13th Street (WTRP63) Pin flags placed, site sketch drawn, photos taken. ——— UR
1054 WT-RP-63-SF-FY collected.
——— UR

Wendy Robinson

Scale: 1 square=

Wednesday, February 29, 2012

1100 WT-RP-63-SB-FY collected from 1828 W. 13th Street (WTRP63).
1106 WT-RP-63-SF-BY collected.
1115 WT-RP-63-SB-BY collected.
1122 All holes backfilled. ——— uR
1130 Return to site office, drop off samples, decon equipment.
1220 Break for lunch. ——— uR
1250 Begin wrapping cleaned equipment. Load car for afternoon sampling.
1339 Arrive at 1916 Pullman Court
1357 Pinflags place, site sketched, photos taken. (WTRP64)
1402 WT-RP-64-SF-FY collected.
1406 WT-RP-64-SB-FY collected.
1415 WT-RP-64-SF-BY collected.
1424 WT-RP-64-SB-BY collected.
1435 Arrive at 1811 W. 13th Street (WTRP57). Mr. Riley home and provides access to front and backyards. ——— uR
1450 Pin flags placed, site sketched photos taken.

Wendy Robinson

Wednesday, February 29, 2012

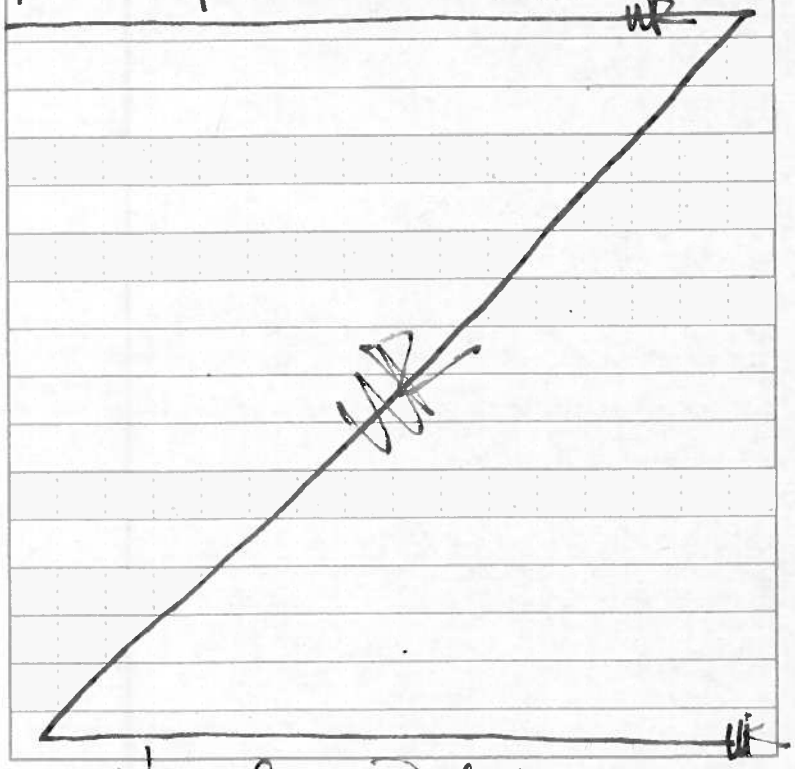
1456 WT-RP-57-SF-FY collected at 1811 W. 13th Street (WTRP57)
1501 WT-RP-57-SB-FY collected.
1513 WT-RP-57-SF-BY collected.
1521 WT-RP-57-SB-BY collected.
1530 All holes backfilled. ——— uR
1532 Arrive at 1750 West 14th St. (WTRP75). ——— uR
1557 WT-RP-75-SF-FY collected.
1601 WT-RP-75-SB-FY collected.
1606 WT-RP-75-SF-BY collected.
1620 WT-RP-75-SB-BY collected.
1625 All holes backfilled. ——— uR
1630 Arrive at 1750 W. 16th Street (WTRP49). ——— uR
1637 Pin flags placed in front yard. Backyard contains an unchained dog; owner not present; however, backyard is concrete/paved and no sampling points are available. No backyard collected. ——— uR
1646 Site sketched; photos taken.
1651 WT-RP-49-SF-FY collected. ——— uR

Wendy Robinson

Wednesday, February 29, 2012

1657 WT-RP-49-SB-FY collected at 1750 W. 16th Street.
1703 All holes backfilled. ——WR
1704 Arrive at site office; unload car and begin decon. ——WR
1719 Check in samples with START Kelley. Continue decon.
1830 Depart from site. ——WR

WR



Wendy Robinson

Thursday, March 1, 2012

0700 Arrive onsite. Attend health and safety meeting. Wrap equipment. Discuss goals for the day. ——WR
0748 Arrive at 1750 W. 15th Street, (WTRP 70). ——WR
0812 Pinflags placed, site sketched, photos taken. ——WR
0818 WT-RP-70-SF-FY collected.
0826 WT-RP-70-SB-FY collected.
0832 WT-RP-70-SF-FY-DUP collected.
0837 WT-RP-70-SF-BY collected.
0844 WT-RP-70-SB-BY collected.
0855 All holes backfilled. ——WR
0900 Arrive at 1757 West 15th Street (WT-RP50) ——WR
0906 Pin flags placed, site sketched, photos taken; timid unchained dog in backyard; sampling will continue anyway ——WR
0911 WT-RP-50-SF-FY collected.
0919 WT-RP-50-SB-FY collected.

WR

WR

Wendy Robinson

Scale: 1 square=

Thursday, March 1, 2012

0929 WT-RP-50-SF-BY collected at 1757 W. 15th Street (WTRP50)
0945 WT-RP-50-SB-BY collected.
0957 Arrive at 1725 W. 17th Street (WTRP74); backyard is locked and no one home. ——— WR
0958 At 1739 West 17th Street (WTRP72).
1012 Pin flags placed, site sketched, photos taken. ——— WR
1019 WT-RP-72-SF-FY collected.
1022 WT-RP-72-SB-FY collected.
1027 WT-RP-72-SF-BY collected.
1037 WT-RP-72-SB-BY collected.
1040 Shaver contacted owner of 1751 W. ~~15th~~ 17th Street (WTRP21) Side gate is unlocked. ——— WR
1045 Pin flags placed. No locations in backyard to sample. Site sketched. Photos taken. ——— WR
1050 WT-RP-21-SF-FY collected.
1055 WT-RP-21-SB-FY collected.
1109 All holes backfilled; return to site office. ——— WR
——— WR

Scale: 1 square=

Wendy

Thursday, March 1, 2012

1130 Break for lunch. ——— WR
1200 Continue sampling. Discuss surface water + sediment sampling
1245 Arrive at Moncrief Creek station WTMC09 ——— WR
1250 WT-MC-09-SW and WT-MC-09-SW-DUP collected by NUS ——— WR
Krone & Weichert ——— WR
1255 WT-MC-09-SD and WT-MC-09-SD-DUP collected by NUS. ——— WR
1307 Arrive at station ~~NC~~ WTMC08. Collection site not accesible from W 26th Street; move to new location to obtain ~~acc~~ access. ——— WR
1318 At dead end of West 24th Street. NUS Weichert walking upstream to station WTMC08 to collect surface water and sediment samples.
1325 WT-MC-08-SW collected. ——— WR
1330 WT-MC-08-SD collected. NUS Weichert returns to West 24th Street, which is also station ——— WR
~~NC~~ WTMC07. ——— WR
——— WR

Wendy Robinson

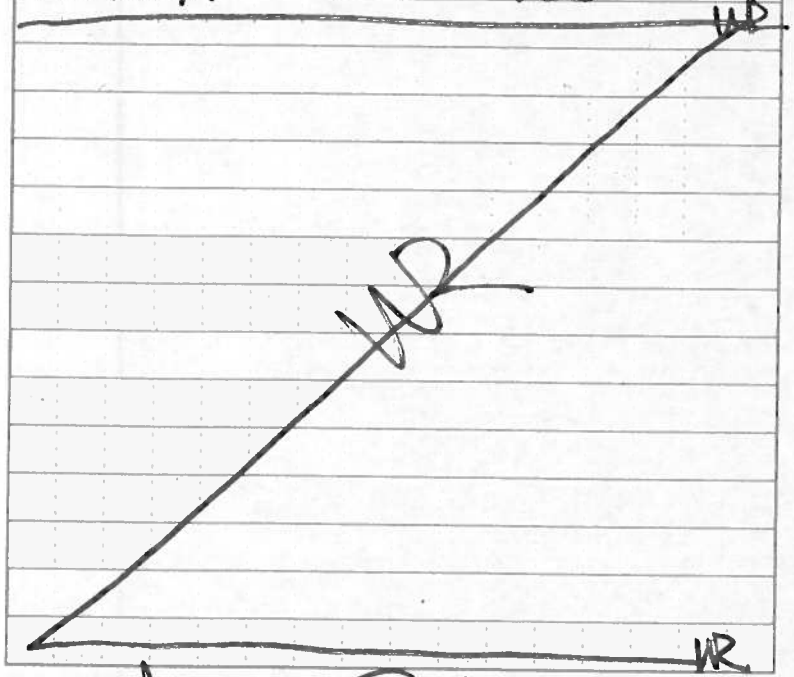
Scale: 1 square=

Thursday, March 1, 2012

Surface Water + Sediment Photos

WTMCØ9	427 - 430	WR
WTMCØ8	431 - 432	WR
WTMCØ7	433 - 435	WR
NTMCØ6	436 - 438	WR
WTMCØ5	439 - 443	WR
WTMCØ4	444 - 447	WR
WTMCØ3	448 - 450	WR
NTMCØ2	451 - 453	WR
NTMCØ1	454 - 456	WR

WR



Wendy Robinson

Thursday, March 1, 2012

1335 WTMCØ7SW collected. — WR
1340 WT-MC-07-SD collected. — WR
1355 Arrive at station WTMCØ6. — WR
1356 WT-MC-Ø6-SW collected — WR
1359 WT-MC-Ø6-SD collected. — WR
1405 Arrive at dead end of West 18th Street to access station WTMCØ5 — WR
1409 NT-MC-Ø5-SW collected. — WR
1418 WT-MC-Ø5-SD collected. — WR
1425 Arrive at dead end of West 17th Street; south side of bridge is station WTMCØ4. — WR
1427 WT-MC-Ø4-SW collected. — WR
1433 WT-MC-Ø4-SD collected.
1437 Arrive at station WTMCØ3, accessed from southside of West 15th Street. — WR
1439 WT-MC-Ø3-SW collected. — WR
1442 WT-MC-Ø3-SD collected. — WR
1450 Arrive at station WT-MCØ2, — WR accessed from sidewalk along southside of West 13th Street.

WR

Wendy Robinson

Scale: 1 square=

Thursday, March 1, 2012

1451 WT-MC-Ø2-SW collected.
1455 WT-MC-Ø2-SD collected.
1500 Arrive at station WT-MC-Ø1, south of W. 11th Street. —UR
1503 WT-MC-Ø1-SW collected. —UR
1507 WT-MC-Ø1-SD collected.
~~1507~~ —UR
1513 Arrive back at site office and drop off surface water and sediment samples. —UR
1527 Arrive at 1725 W. 17th Street (WTRP74). Place pin flags, sketch site, take photos. —UR
1535 WT-RP-74-SF-FY collected.
1541 WT-RP-74-SB-FY collected.
1550 WT-RP-74-SF-BY collected.
1609 WT-RP-74-SB-BY collected.
1615 All holes backfilled; return to site office; assist with decon of equipment. —UR
1730 Assist with sample processing.
—UR
—UR
—UR

Scale: 1 square=

Wendy Robinson

FRIDAY, MARCH 2, 2012

0630 Arrive onsite. Wrap decon'ed equipment.
0653 Attend health and safety mtg.
0655 Assist START Jones with groundwater sampling.
1030 Ground water sampling complete. Begin slug test. ~~foodbowls~~ —UR
1500 Slug testing complete; assist with last of soil sampling and cleanup of site office

BSC 3/2/12

Scale: 1 square=

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2/27/2012 through 3/2/2012

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PAGE	REFERENCE	DATE
	Fairfax Wood Treaters ITEMI: 05-003-0139	
	Tetra Tech EMI 1955 Evergreen Blvd. Ste 300 Duluth, GA. 30096	
	All sampling conducted in accordance with workplan dated: 1/27/12	

2

2/27/12

Fairfax: Residential Sampling — L. Shaver

0700 START to Fairfax site

0835 START Shaver, Jones, and Weichert to 1951 W19th St to collect 4 soil samples, 5 pt composite
WT-RP-45-SF-FY
WT-RP-45-SB-FY
WT-RP-45-SF-BY
WT-RP-45-SB-BY
- All samples will be collected with Stainless steel augers and spoons, homogenized in AL pans and placed into 4 oz glass jars and onto ice, unless otherwise noted

0935 START to 1945 W19th to collect soil samples: WT-RP-44-SF-FY, WT-RP-44-SF-BY, WT-RP-44-SB-FY, WT-RP-44-SB-BY, vacant lot

1025 START to 1937 W19th St, to collect soil samples: WT-RP-43-SF-FY, WT-RP-43-SB-FY, WT-RP-43,-SF-BY, and WT-RP-43-SB-BY

1100 START to vacant lot between 1937 & 1921 W19th St. gate or fence locked not sampled @ this time

L Shaver

Scale: 1 square=_____

3

Fairfax: Residential Sampling — L. Shaver

Photo log:

Date, time, subject, photo #

2/27/12, 0840, Front yard @ 1951 W19th, 100-0847
, 0841, NE part of Backyard @ 1951 W19th, 100-0848
0842, N/rear of Backyard @ 1951 W19th, 100-0849
2/27/12 0935, lot @ 1945 W 19th, 100-0850, facing N
2/27/12 1026, FY @ 1937 W19th, facing NE, 100-0851
1027, West side yard @ 1937 W19th, facing N, 100-0852
1028, BY @ 1937 W19th, facing W, 100-0853
2/27/12, 1119, FY @ 1921 W19th, facing NW, 100-0854
1120, West side yard @ 1921 W19th, facing N, 100-0855
1121, BY @ 1921 W19th, facing NE, 100-0856
2/27/12, 1506, FY @ 1911 W19th, facing NW, 100-0857
1511, BY @ 1911 W19th facing NW, 100-0858
2/27/12, 1549, lot @ 19th & Spires facing N, 100-0859

L Shaver

Scale: 1 square=_____

4 2/27/12 Fairfax: Residential Sampling L. Shaver

1105 START to 1921 W19th St to collect Soil samples: WT-RP-41-SF-FY, WT-RP-41-SF-BY, WT-RP-41-SB-FY, and WT-RP-41-SB-BY

1210 All to site office for decon

1330 to Lunch

1430 to Site

1450 START Shaver & Weichert to 1911 W19th St to collect soil samples WT-RP-40-SF-FY, WT-RP-40-SF-BY, WT-RP-40-SB-FY, WT-RP-40-SB-BY owners of 1911 W19th also ~~owns~~ own the vacant lot to the East known as vacant lot on the corner of W19th and Spives Ave

1550 START to 0 W19th St, vacant lot on corner of W19th St and Spives Ave to collect Soil samples: WT-RP-39-SF-FY, WT-RP-39-SF-BY, WT-RP-39-SB-FY, and WT-RP-39-SB-BY, owners are the same as of 1911 W19th St

1635 START to site office

1710 All off-site, end of day

L. Shaver

Scale: 1 square=_____

2/28/12 Fairfax: Residential Sampling L. Shaver 5

1800 Crew Meets at site, Health & Safety meeting

0845 START Shaver and Weichert to 2921 W 19th St to collect samples (soil): WT-RP-38-SF-FY, WT-RP-38-SF-BY, WT-RP-38-SB-FY, and WT-RP-38-SB-BY

- Frontyard and backyard division done to be similar to other samples collected on W19th St (frontyard to the South, Backyard to the North)

0935 START to 1851 W19th St to collect soil samples: WT-RP-37-SF-FY, WT-RP-37-SF-BY, WT-RP-37-SB-FY, and WT-RP-37-SB-BY

- mothballs seen all over yard,

1021 START to 1837 W19th St to collect soil samples: WT-RP-35-SF-FY, WT-RP-35-SB-FY WT-RP-35-SF-BY, WT-RP-55-SB-BY, and duplicate samples

1115 1245 START to Site office for decon

1245 START to lunch

1330 START to wrap decorned items

1400 START to 1831 W19th St to collect soil samples: WT-RP-34-SF-FY, WT-RP-34-SB-FY, WT-RP-34-SF-BY, WT-RP-34-SB-BY

L. Shaver

Scale: 1 square=_____

6 2/28/12 Fairfax: Residential Sampling L. Shaver

photolog: date, time, direction, subject, photo #

~~2/28/12, 0853, Backyard @ 1951 W19th, facing NW, 100-0860~~
~~0855, Backyard @ 2921 Spires Ave, facing NE, 100-0861~~
0958, Frontyard @ 1951 W19th facing N, 100-0862
0959, Backyard @ 1951 W19th facing S, 100-0863
2/28/12, 0853, frontyard @ 2921 Spires Ave, facing NW, 100-0860
0855, Backyard @ 2921 Spires Ave, facing NE, 100-0861
2/28/12, 1043, Frontyard @ 1837 W19th, facing N, 100-0864
1043, Backyard @ 1837 W19th, facing S, 100-0865
2/28/12, 1423, Frontyard @ 1831 W19th, facing N, 100-0866
1424, Backyard @ 1831 W19th, facing NW, 100-0867
2/28/12, 1505, Entire lot @ 1823 W19th, facing N, 100-0868
2/28/12 1556, Backyard @ 1819 W19th, facing W, 100-0869
1556, Frontyard @ 1819 W19th, facing SW, 100-0870
2/28/12, 1639, frontyard @ 1815 W19th, facing NW, 100-0871
1640, backyard @ 1815 W19th, facing WNW, 100-0872

J. Shaver

Scale: 1 square=_____ L. Shaver

7 2/28/12 Fairfax: Residential Sampling L. Shaver

1505 START to 1823 W 19th St to collect soil samples: WT-RP-33-SF-FY, WT-RP-33-SB-FY, WT-RP-33-SF-BY, and WT-RP-33-SB BY
1550 START to 1819 W 19th St to collect soil samples: WT-RP-32-SF-FY, WT-RP-32-SB-FY, WT-RP-32-SF-BY, and WT-RP-32-SB-BY
1637 START to 1815 W19th St to collect soil samples: WT-RP-31-SF-FY, WT-RP-31-SB-FY, WT-RP-31-SF-BY, and WT-RP-31-SB-BY
1710 1710 START to site office for decon
1830 All off-site, End of Day

J. Shaver

L. Shaver Scale: 1 square=_____

8

2/29/12 Fairfax: Residential Sampling L. Shaver

0700 START to open site office

0735 START Shaver and Weichert to 1804 W 19th St to collect soil samples: WT-RP-26-SF-FY, WT-RP-26-SF-FY-Dup, WT-RP-26-SB-FY, large vacant lot lot extends slightly beyond fence on East property boundary duplicate collected

0816 START to 1845 W19th St, to collect soil samples: ~~WT-RP~~ WT-RP-36-SF-BY, WT-RP-36-SF-BY-Dup, and ~~WT-RP~~ WT-RP-36-SB-BY

- NO front yard, backyard only samples, duplicate collected

0850 START to 1846 W19th St to collect soil samples: WT-RP-27-SF-FY, WT-RP-27-SF-BY WT-RP-27-SB-FY, and WT-RP-27-SB-BY

0945 START to 1858 W19th St to collect soil samples: WT-RP-29-SF-FY, WT-RP-29-SF-BY, WT-RP-29-SB-FY, WT-RP-29-SB-BY

1052 START to 2904 Fairfax St, to collect soil samples: WT-RP-30-SF-FY, WT-RP-30-SB-FY, WT-RP-30-SF-BY, and WT-RP-30-SB-BY

1140 START to site office to decon

L. Shaver

Scale: 1 square=

9

2/29/12 Fairfax Residential Sampling L. Shaver

photolog: Date, time, subject, direction, photo #

2/29/12, 0737, E-facing, lot @ 1804 W 19th St, 100-0873

2/29/12, 0823, S-facing, Backyard of 1845 W19th, 100-0874

2/29/12, 0853, facing W, Frontyard @ 1846 W19th, 100-0875

↓ 0853, facing W, Backyard @ 1846 W19th, 100-0876

2/29/12, 0954, facing W, Frontyard @ 1858 W19th, 100-0877

↓ 0955, facing W, Backyard @ 1858 W19th, 100-0878

2/29/12, 1053, facing SW, Frontyard @ 2904 Fairfax, 100-0879

↓ 1053, facing NW, Backyard @ 2904 Fairfax, 100-0880

2/29/12, 1343, facing SE, Frontyard @ 1758 W19th St, 100-0881

↓, 1343, facing SE, Backyard @ 1758 W19th St, 100-0882

2/29/12, 1432, facing N, lot b/w 1937 & 1921 W19th, 100-0883

2/29/12, 1555, facing N, frontyard @ 1757 W 17th, 100-0884

2/29/12 1600, facing NW, Eastside backyard @ 1757 W 17th, 100-0885

2/29/12, 1601, facing N, Westside backyard @ 1757 W 17th, 100-0886

J. Shaver

L. Shaver

Scale: 1 square=

10

2/29/12 Fairfax: Residential Sampling L. Shaver

1230 START to lunch

1300 START wraps equipment

1333 START Shaver and Weichert to 1758 W 19th St, to collect soil samples WT-RP-25-SF-FY, WT-RP-25-SF-FY-Dup, WT-RP-25-SB-FY, WT-RP-25-SF-BY WT-RP-25-SB-BY

1430 START to 1921 W 19th St, vacant lot b/w 1937 & 1921 W 19th St. to collect soil samples: WT-RP-42-SF-FY, WT-RP-42-SF-BY, WT-RP-42-SB-FY, WT-RP-42-SB-BY

1515 to site office to find out which properties to sample

1557 to 1757 W 17th to collect soil samples: WT-RP-20-SF-FY WT-RP-20-SF-BY WT-RP-SB-FY, WT-RP-SB-BY

auger holes 1, 2, 3 of SB-FY were offset due to auger refusal at 12 in BGS refer to field sheet, #3 not collected auger refusal

1650 START to site office for decon

1830 All off site, end of day

Scale: 1 square=_____

11

3/1/12 Fairfax: Residential Sampling L. Shaver

0700 START to site office, Health & Safety mtg

0740 START Shaver & Weichert to 1766 W 17th St, East of 1766 W 17th St to collect soil samples: WT-RP-69-SF-FY, WFRP-69-SB-FY, WT-RP-69-SF-BY, and WT-RP-69-SB-BY playground of school @ 766 W 17th St

- in WT-RP-69-SB-FY, old metal piece found ~12 in BGS in aliquot #5 (see field sheet sketch)
- aliquot #1 (see field sheet sketch) left a oily sheen on the bucket when collecting WT-RP-69-SB-BY

0835 START to 1745 W 16th St to collect soil samples WT-RP-48-SF-FY, ~~WT-RP-48-SF-BY~~ WT-RP-48-SB-FY, WT-RP-48-SF-BY, and WT-RP-48-SB-BY

0950 START to 1736 W 17th St to collect soil samples: WT-RP-73-SF-FY, WT-RP-73-SB-FY WT-RP-73-SF-BY, and ~~WT-RP-SB-BY~~ WT-RP-73-SB-BY

1045 START Shaver & Weichert to assist sampling other sampling team: refer to other logbook

Scale: 1 square=_____

12 3/1/12 Fairfax: Residential Sampling L. Shaver

photolog: date, time, direction, object, photo #

3/1/12, 0747, facing SE, Frontyard @ ~~0~~ W17th St — East of 1766 W17th St, 100-0887

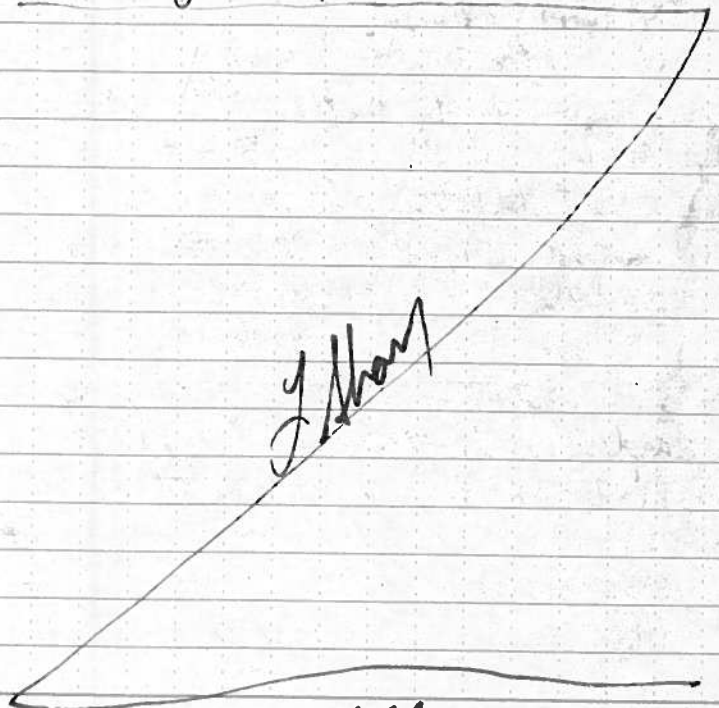
3/1/12, 0748, facing SE, Backyard @ ~~0~~ W17th St — East of 1766 W 17th St, 100-0888

3/1/12, 0838, facing WSW, Backyard @ 1745 W16th St, 100-0890

0838, facing W, Frontyard @ 1745 W16th St, 100-0891

3/1/12, 1009, facing SW, backyard @ 1736 W17th St, 100-0892

1010, facing S, frontyard @ 1736 W17th St, 100-0893



Scale: 1 square=_____

L. Shaver

13 3/1/12 Fairfax: ~~MW~~ PMW well sampling L Shaver

1209 1210 START Jones & Shaver start gauging wells

Well	depth to water	total depth
~~PMW01~~	~~6.55 in 6.55ft~~	~~19.52 SE into~~
~~PMW02~~	~~7.1 in 7.1ft~~	~~19.9 19.9ft~~
PMW01	6.55 ft	19.52 ft
PMW02	7.11 ft	19.9 ft
PMW03	8.14 ft	20.16 ft
PMW04	5.87ft	~~19.56ft~~ 19.56ft
PMW05	6.30ft	19.62ft
PMW06D	7.73ft	40.29ft
PMW06S	6.68ft	19.59ft
PMW07	8.45ft	~~19.99ft~~ 19.93ft

1230 Well gauging complete

1232 Set up for sampling of PMW01

- all parameters will be recorded on field data sheets
- Calibrated turbidity meter to 100NTU
- Horiba U-10 calibrated, bump test results ↓

pH =	4.00	4.00
Conductivity =	~~4.49~~ 4.50	4.49 mS/cm
results →	bump	solution

collect samples

L. Shaver

Scale: 1 square=_____

14

3/1/12 Fairfax: Monitoring Well Sampling L Slaven

1321 begin sample collection of WT-PMW-01-GW & WT-PMW-01-GW-F
1337 well case grey locked and covered
1342 Setup for well - PMW-02
re-calibrate turbidity meter to 10.0 NTU
1440 1440 begin sample collection of sample WT-PMW-02-GW and WT-PMW-02-GW-F
1450 1450 well case locked and closed
1455 Setup for well PMW-03
1602 begin sample collection of: WT-PMW-03-GW GW-F and WT-PMW-03-GW-F
1612 well case locked and closed
1615 Setup for sampling of well PMW-04
1653 begin sample collection of WT-PMW04-GW and WT-PMW-04-GW-F
1706 well case locked and closed
1707 Setup for sampling PMW-05
1741 Collect samples: WT-PMW-05-GW & WT-PMW-05-GW-F
1755 well locked and closed
to Skottie for decon

Scale: 1 square=

15

3/2/12 Fairfax: Monitoring Well Sampling

0700 Arrive at monitoring well PMW07.
Set up tubing and equipment.
0705 Begin purging well. Turbidity meter calibrated; bump test = 9.98 NTU
0749 Move to well PMW06S to begin set up equipment and begin purging.
0757 Begin purging PMW06S; letting PMW07 run until turbidity clears. — NR — NR
0819 WT-PMW-06S-GW and WT-PMW-06S-GW-F collected
0836 WT-PMW-06S-GW-DUP and WT-PMW-06S-GW-F-DUP collected
0900 Begin purging WT PMW06D
0935 WT-PMW-06D-GW collected and WT-PMW-06D-GW-F collected.
0958 Return to PMW07. — NR
1015 Purging complete; turbidity ~6.36 NTU
1015 WT-PMW-07-GW collected and WT-PMW-07-GW-F collected.
1030 Return to site office. Collect slug test equipment. — NR
1048 At PMW-05; depth to water is 6.3 feet. — NR

Wendy Robinson

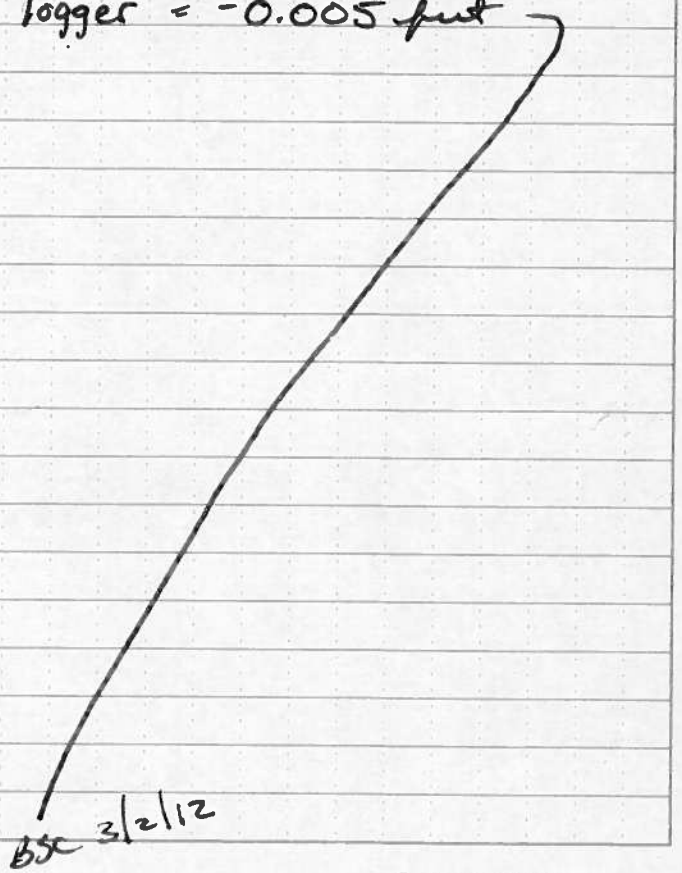
Scale: 1 square=

1107 At PMW-05; begin slug test IN
-9.973 ft (starting DTW) — WR
1119 -9.979 ft DTW; test complete
1128 Start slug test out, -0.008 ft ~~DTW starting~~. — WR
transducer zeroed at current depth; begin test. — WR
1133 End test; -0.002 ft from starting point. — WR
1142 Arrive at PMW-03. — WR
DTW = 8.15 feet. — WR
Data logger inserted. Starting DTW = 0.00 feet — WR
1303 Water has stabilized at — WR
8.15 feet below land surface (bls)
1307 Starting Slug Out test. — WR
DTW = -0.011 feet — WR
1346 End of Slug Out test. — WR
DTW = 8.2 feet bls — WR
Transducer reading stable at 0.048 feet — WR
1400 Arrive at PMW01. DTW = 6.55 'bls
Data logger inserted; starting DTW = 0.00 feet — WR

Wendy Robinson

Scale: 1 square=

1411 Water has stabilized at 6.55' bls
DTW on logger = -0.005
1415 Starting Slug ~~Test~~ Out Test
DTW = -0.001 feet
1429 End slug out test; water stable at 6.55 feet bls; DTW on logger = -0.005 feet



Scale: 1 square=

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TTEMI-05-003-0134
Fairfax Street Wood Treaters
Feb 2013

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CONTENTS

PAGE	REFERENCE	DATE
	Quinn Kelley (QK) Tt	
	Chris Jones (CJ) Tt	
	James Gooch (JG) Tt	
	Shanna Davis (SD) Tt	

All sampling conducted in accordance with the Work Plan Addendum dated January 23, 2013 unless otherwise noted.

2/25/13

0930 START Quinn Kelley and Shanna Davis mobilize to the site.

1600 START Kelley & Davis arrive onsite and meet START Chris Jones and James Gooch. START goes to the residential properties on the list to be sampled to try & obtain access to the properties that haven't signed access agreements yet. EPA CIC Tonya Spencer was delayed and won't be onsite until tomorrow. START obtains 3 access agreements.

1730 START done for the day. Tomorrow CIC Spencer will be onsite to try & get additional access agreements & START will begin sampling activities.

Quin Kelley 2/25/13

Scale: 1 square = _____

2/26/13

0830 START arrives onsite. Sampling activities are suspended due to heavy rain & wind. The area is under a tornado watch. Meanwhile, START organizes equipment between the two teams: START Kelley & Davis will collect soil samples from residential properties that granted access, START Jones & Gooch will conduct the 3rd round of GW monitoring & sampling. START calibrates GW monitoring equipment.

0930 CIC Spencer arrives onsite. START assists with phone calls to residents and owners.

1045 Rain stops. Weather is now sunny & warm. START begins sampling activities.

NOTE: See field sample collection sheets for sampling information.

Quin Kelley 2/26/13

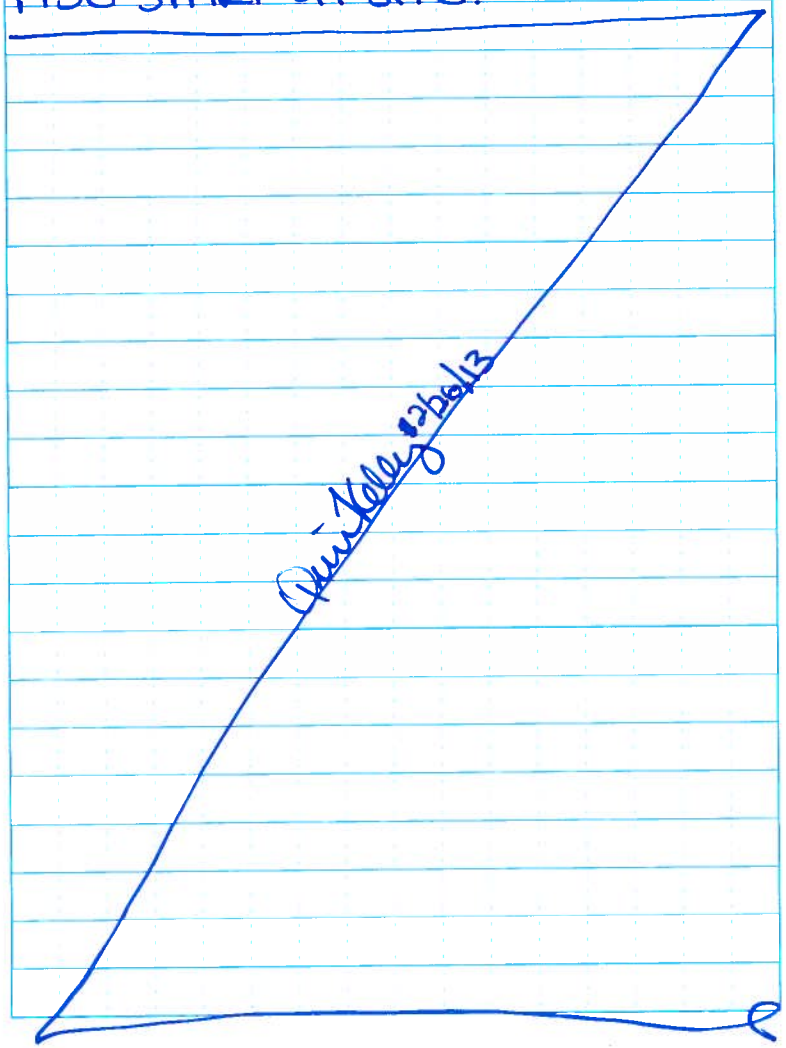
Scale: 1 square = _____

Rite in the Rain

2/26/13

1700 START knocks on doors to try to get additional access.

1730 START off site.



Scale: 1 square = _____

2/27/13

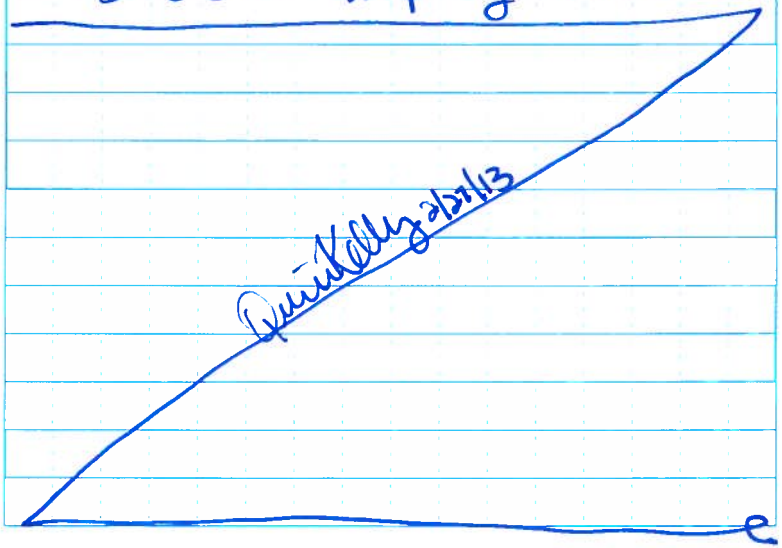
0800 START onsite to collect residential samples.

1200 START done with residential sampling. START enters sample information into Scribe for sample processing.

1600 START at hotel to collect QC samples. START completes Scribe entry and prints out labels & chain of custody.

1700 START done for the day.

NOTE: See field sample collection sheets for sampling information.



Scale: 1 square = _____

2/28/13

0800 START processes samples — puts labels & custody seals on sample containers & puts them into baggies.

0930 START packs coolers for — delivery to the Region 4 Lab.

1025 START Jones & Gooch demobilize from the Site. They will drop off the samples at the lab on their way back to the Office.

1030 RPM Cathy Amoroso, USACE, and FDEP personnel arrive on site for a tour. START Kelley & Davis answer questions about the Site.

1145 START & USACE offsite to — USACE office while RPM Amoroso give FDEP driving tour of the area.

1300 After lunch, EPA, START, — FDEP, & USACE discuss the RI & FS at USACE office.

1430 START demobilizes.

Quin Kelley 2/28/13

Scale: 1 square = _____

Scale: 1 square = _____

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2/25/13 J.V.Gooch

1005 START GOOCH + JONES DEPART TETRA TECH (TT) OFFICE FOR SITE. START DAVIS + KELLEY DEPARTED OFFICE AT 0911 EASTERN STANDARD TIME (EST)

1600 START ARRIVES ONSITE. CONDUCTS DOOR TO DOOR CANVASSING FOR OBTAINING ACCESS AGREEMENTS.

1715 START REMOBILIZED to HOTEL. WEATHER FOR DAY WAS CLOUDY AND DRIZZLING. TWO ACCESS AGREEMENTS SIGNED.

J.V.G. 05/16/13

Scale: 1 square=_____

2/26/13 J.Gooch.

0805 START LEAVES HOTEL FOR SITE.

0830 START ARRIVES ONSITE AND HAS MEETING on SAMPLING OBJECTIVES; HEALTH + SAFETY; AND WEATHER FORECAST WEATHER IS MODERATE RAIN, 73°F, 100% RH, AND OVERCAST HEAVY FRONTAL LINE OF RAIN AND WIND. WIND IS 5-12 mph FROM SOUTH.

0903 JG + CS ORGANIZE EQUIPMENT FOR WATER SAMPLING AND TRANSFER SOIL SAMPLING EQUIPMENT to QUAL + SD.

0915 YSI CALIBRATION

DATE AND TIME CORRECT, 2/26/13 0915

1.0 COND. = 1,075 CAL to 4.0 pH = 4.11, CAL to 4.0

Bump test for pH, ORP (JG) 7.0 pH = 6.86, CAL to 7.0

10.0 = 10.03 10.0 pH = 10.28, CAL to 10.0

7.0 = 6.93

4.0 = 4.04

COND. = 984 µS/cm Specific Cond. = 1086 µS/cm

0932 CALIBRATE TURBIDITY METER (LAMOTTE 2020)

10 SOL = 9.83, CALIBRATED to 10.00 NTU

100 SOL (JG)

1.0 SOL = 1.24, CALIBRATED to 1.06 NTU

Scale: 1 square=_____

2/26/13 J. Gooch

0940 Heavy rain starts. TT DK decides to wait on water sampling till rain subsides.

1038 Rain subsides and JG + CJ Begin opening wells to allow for equilibration. Many locks on wells are rusted and unable to be used, will need to cut locks for access

1144 Start ~~JG~~ + CJ Begin sampling at PMW-01

Well	DTW	TD
PMW-01	2.16	19.52 (JG)
PMW-02	~~3.92~~	~~19.52~~ (JG)
PMW-03	~~5.95~~	~~20.16~~ NOT COLLECTED AS INACCESSIBLE DUE TO LOCKS
PMW-04	~~3.30~~	~~19.56~~
PMW-05	3.64	
PMW-05S	4.88 (CJ)	19.59
PMW-06D	~~7.54~~ 6.59	40.29
PMW-07	6.11	19.93

1304 Start JG + CJ continue sampling and monitoring at PMW-05, PMW-06S, PMW-06D, and PMW-07.

1730 Start offsite to Hotel.

Scale: 1 square=_____

2/27/13 J. Gooch

0800 Start JG + CJ obtain bolt cutters and new locks, and then head to site.

0901 Start CJ opens wells and JG. Cuts locks. Water levels will be measured at all wells and samples taken at PMW-02, PMW-03, PMW-04.

0913 Sampling and monitoring start at PMW-02.

0915 Bump test water quality meter (YSI-556)

Parameter	solution	reading
pH	7.0	6.96
Conductivity	1,000 µS/cm	1,000 µS/cm

1035 Sampling and monitoring at PMW-03

1137 Sampling and monitoring at PMW-04

1230 Water levels on all remaining wells.

1301 Lunch break JG + CJ.

1410 JG + CJ soil sampling

1647 Field Blank

1648 Preservation Blank

1654 Equipment Blank

1706 Filter Blank

Scale: 1 square=_____

2/27/13 J. Gooch

~~Well DTW T.D.~~

Well	DTW	T.D.
~~PMW-01~~	~~3.03~~	~~19.52~~ NOT COLLECTED
PMW-03	5.95	20.16
PMW-04	3.30	19.56
PMW-05	3.77	19.62
PMW-06S	4.93	19.59
PMW-06D	6.56	40.29
PMW-07	6.00	19.93
PMW-02	3.92	19.52

SG 5.16.13

Scale: 1 square=_____

2/28/13 J. Gooch

0800 START CJ + JG Pick up ICE AND HEAD to SITE, WHILE QK + SD ~~PA~~ LABEL SAMPLES.

0903 START CJ + JG ARRIVE ONSITE to TAKE CONCRETE SAMPLES.

0916 CONCRETE SAMPLE COLLECTED 5 pt COMPOSITE DOWN MIDDLE OF BUILDING. LINED UP LATERALLY WITH ORANGE SPRAY PAINT MARKS ON EAST WALL AND LINED UP LONGITUDINALLY WITH CRACKED ON CARPORTS NEAR ARCHWAY.

0930 PACKED SAMPLES FOR LAB

1027 START CJ + JG LEAVE FOR Region 4 LAB AND ~~4~~ NEW OFFICE.

SG 05.16.13

Scale: 1 square=_____

BACKGROUND
~~RESIDENTIAL~~ SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

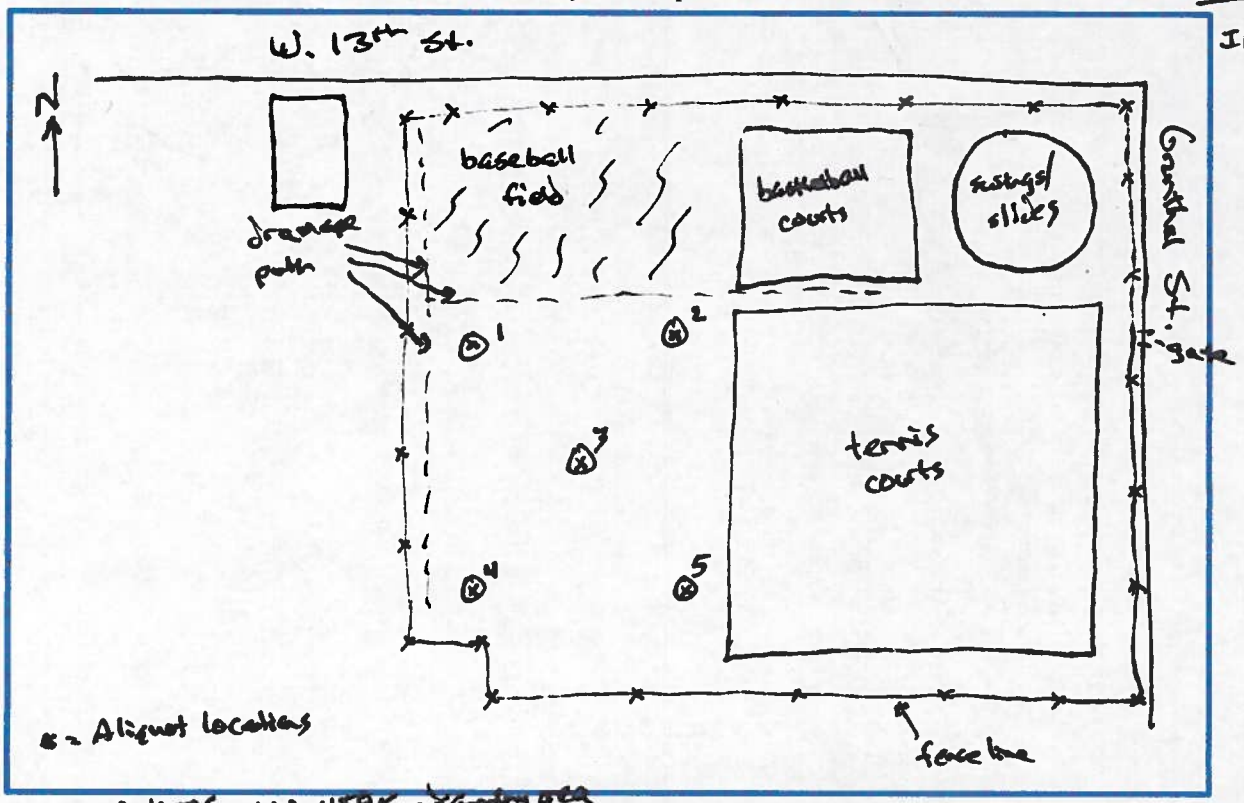
PROPERTY ADDRESS: Grunthal Park (W. 13th & Grunthal St.)	STATION ID: ~~WTRP-~~ WTBG03

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	~~WT-RP- -SF-FY~~ WT-BG-03-SF	~~WT-RP- -SF-BY~~	~~WT-RP- -SB-FY~~ WT-BG-03-SB	~~WT-RP- -SB-BY~~
Sample Date	2/29/12	NA	2/29/12	NA
Sample Time	0755	NA	0810	NA
Sample Name	C. Jones	NA	C. Jones	NA

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

PHOTOS
IMG_4585
-4586
-4587



PHOTOS 100-4585 -~~Sampling area~~
-4586 } park area
-4587

BACKGROUND
~~RESIDENTIAL~~ SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: JOHNSON MIDDLE SCHOOL	STATION ID: ~~WTRP-~~ WTBG04 & WTBG05

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	~~WT-RP- -SF-FY~~ WT-BG-04-SF	~~WT-RP- -SF-BY~~ WT-BG-05-SF	~~WT-RP- -SB-FY~~ WT-BG-04-SB	~~WT-RP- -SB-BY~~ WT-BG-05-SB
Sample Date	2/29/12	2/29/12	2/29/12	2/29/12
Sample Time	1515	1550	1525	1600
Sampler Name	C. Jones	B. Croft	C. Jones	B. Croft

SITE SKETCH (Scale is not important, but include the following whenever possible):

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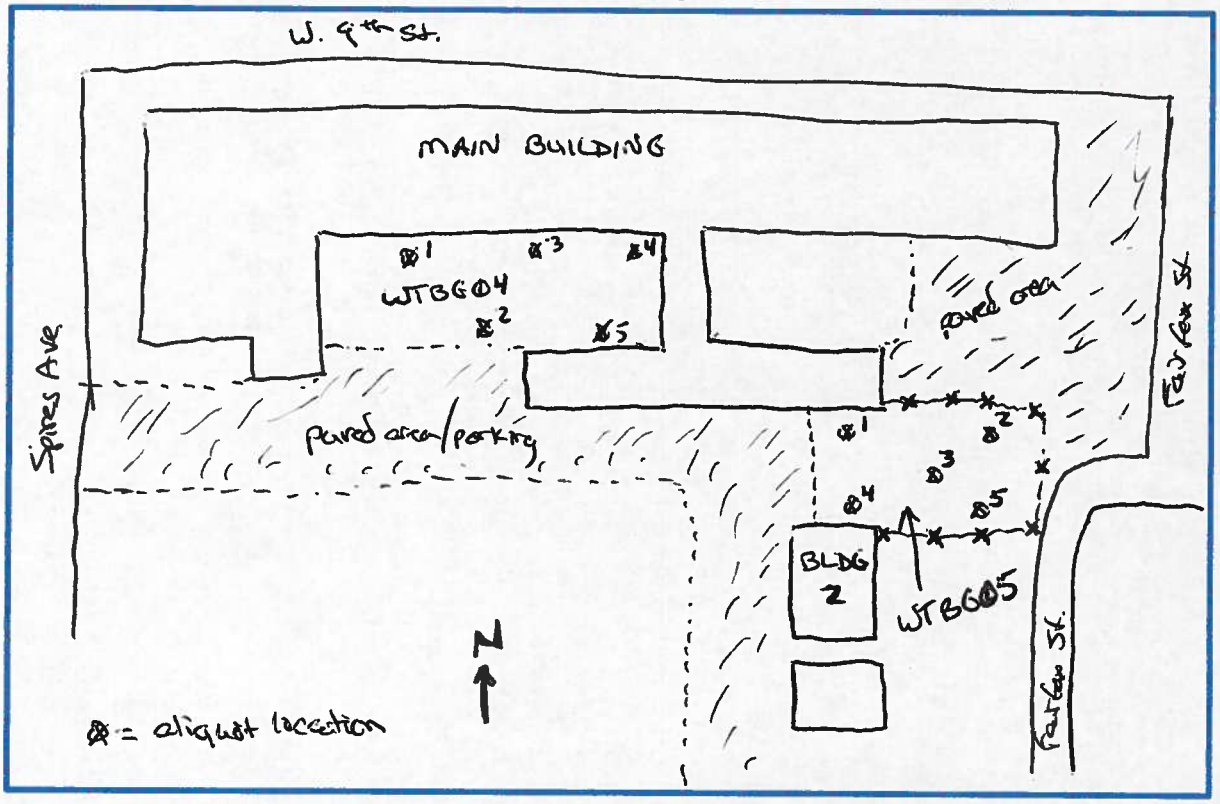


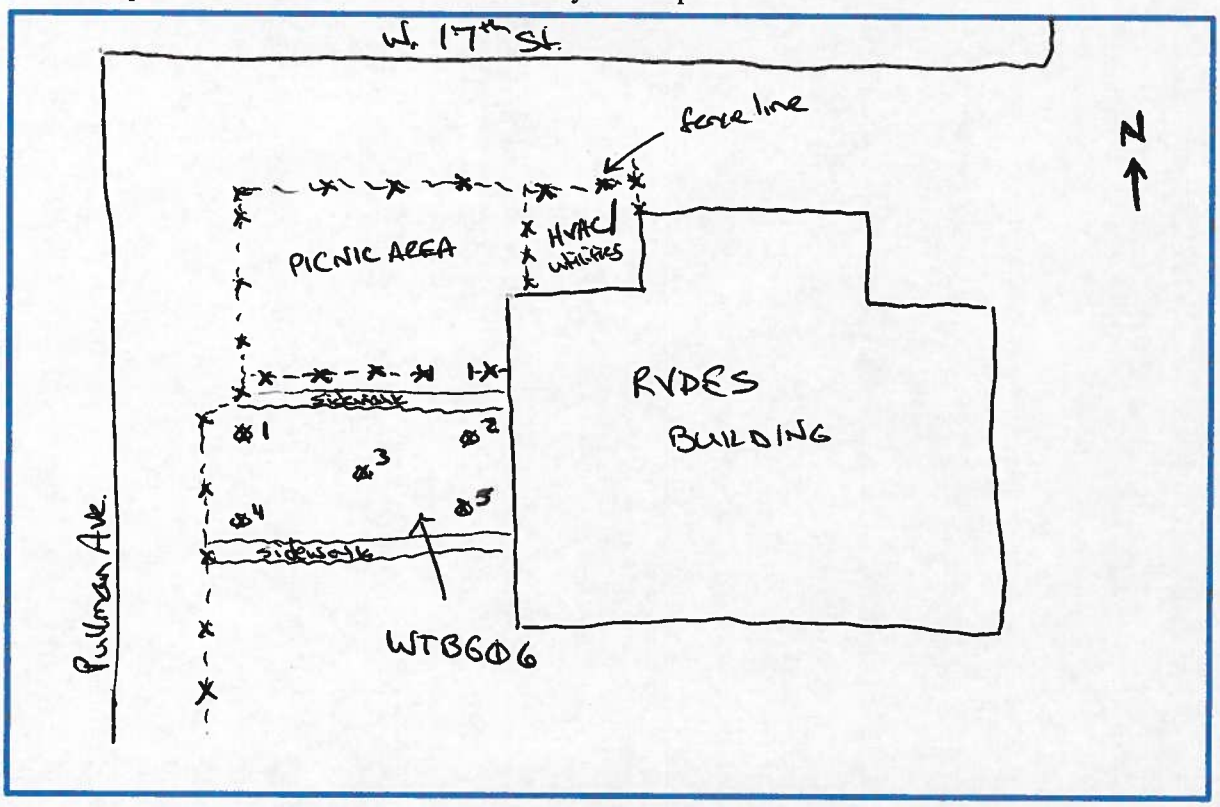
BACKGROUND
BSC ~~RESIDENTIAL~~ SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: RVDES Elementary School	STATION ID: ~~WTRP-BSC~~ WTBG06

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	~~WT-RP- -SF-FY~~ BSC	~~WT-RP- -SF-BY~~ BSC	BSC ~~WT-RP- -SB-FY~~	~~WT-RP- -SB-BY~~ BSC
	WT-BG-06-SF	NA	WT-BG-06-SB	NA
Sample Date	2/28/12	NA	2/28/12	NA
Sample Time	1515	NA	1530	NA
Sampler Name	B. Craft	NA	B. Craft	NA

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



BACKGROUND
BSC ~~RESIDENTIAL~~ SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: W. 11th St. & Mercier Creek	STATION ID: ~~WTRP-~~ BSC WT-BG-07

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	~~WT-RP- SF-FY~~ BSC WT-BG-07-SF	~~WT-RP- -SF-BY~~ BSC NA	~~WT-RP- -SB-FY~~ BSC WT-BG-07-SB	~~WT-RP- -SB-BY~~ BSC NA
Sample Date	2/29/12	~~2/29/12~~ NA BSC	2/29/12	NA
Sample Time	0930	NA	0940	NA
Sampler Name	B. Croft	NA	B. Croft	NA

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

PHOTO: IMG_4584

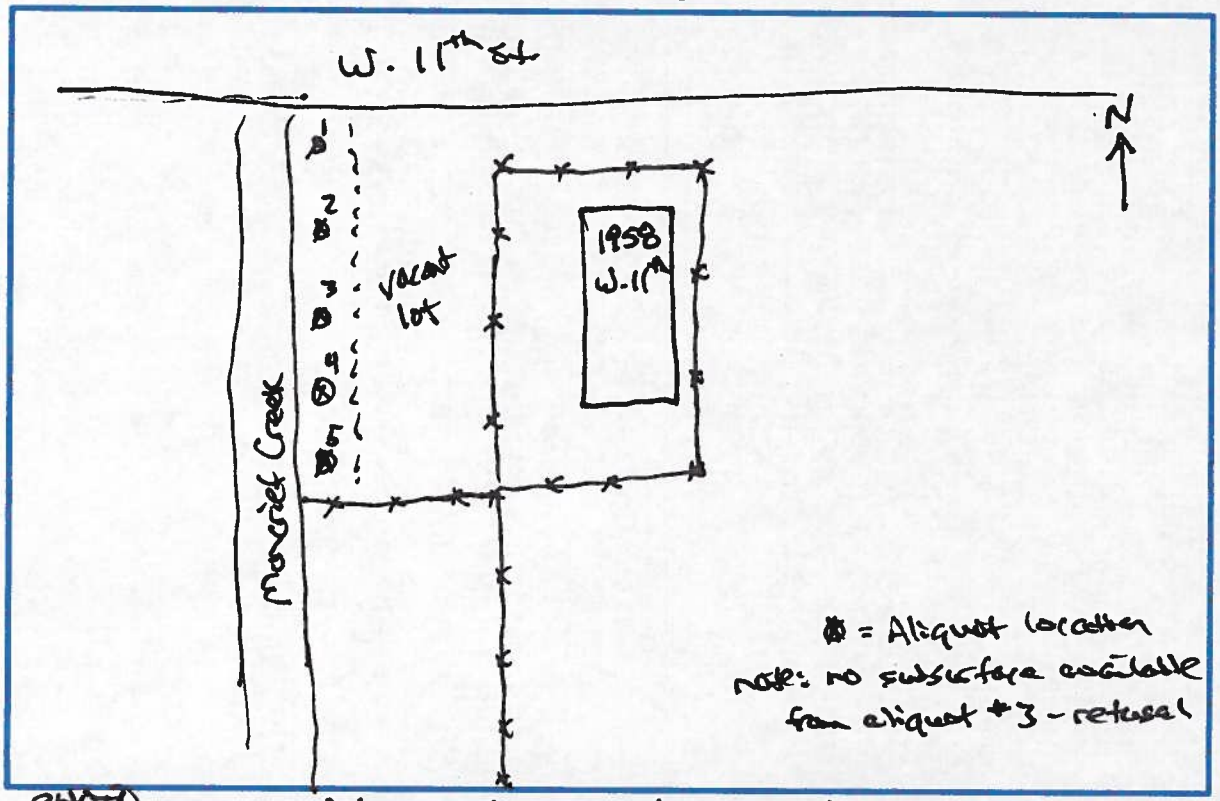


PHOTO 100-4584 - sampling area along east side of Mercier Creek

BACKGROUND
BSC ~~RESIDENTIAL~~ SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1620 W. 16th St.	STATION ID: BSC ~~WTRP-~~ WTBG08

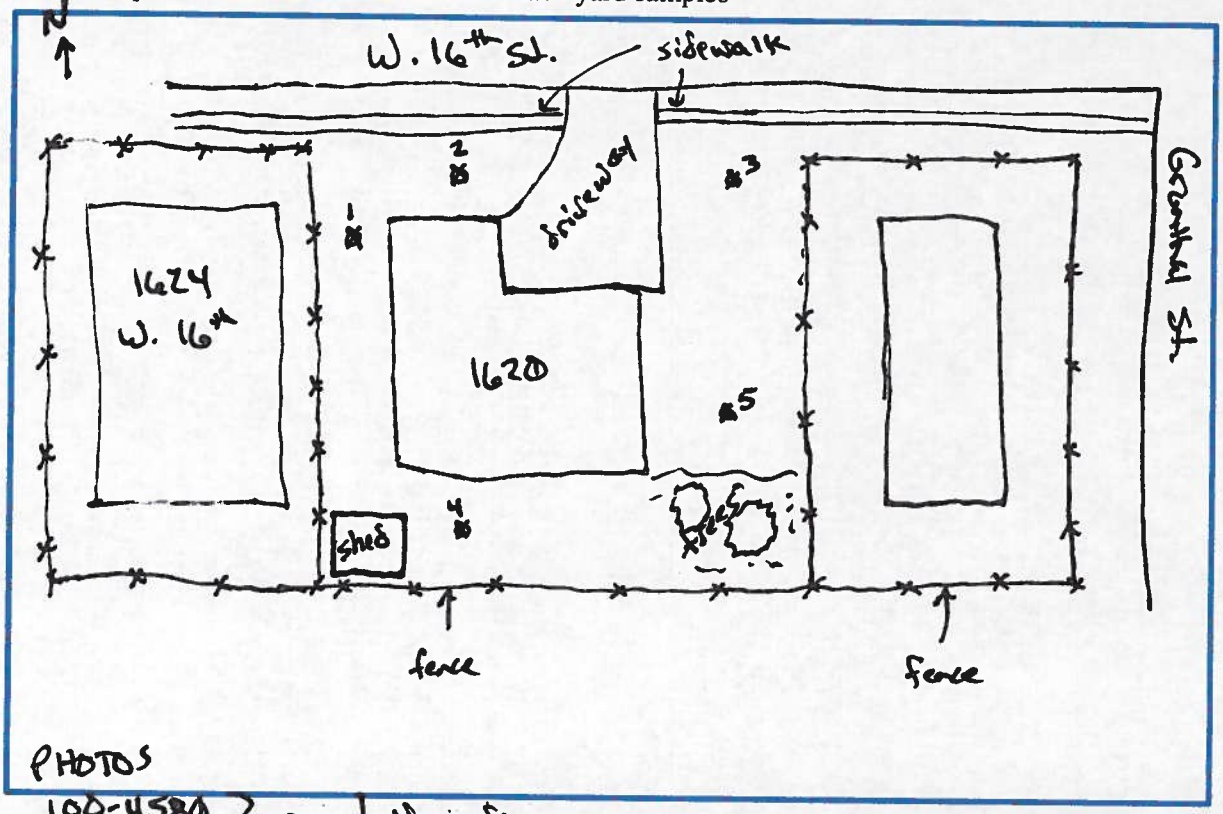
SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	~~WT-RP- -SF-FY~~ BSC WT-BG-08-SF	~~WT-RP- -SF-BY~~ BSC NA	~~WT-RP- -SB-FY~~ BSC WT-BG-08-SB	~~WT-RP- -SB-BY~~ BSC NA
Sample Date	2/29/12	NA	2/29/12	NA
Sample Time	0835	NA	0855	NA
Sampler Name	C. Jones	NA	C. Jones	NA

note: only one SF/SB composite sample collected for whole property (background location)

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

PHOTOS: BSC ~~100~~
IMG_4580
-4581
-4582
-4583



PHOTOS
100-4580
-4581
-4582 } front/side yards
-4583 - back yard

RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1757 W 17th St	STATION ID: WTRP-20

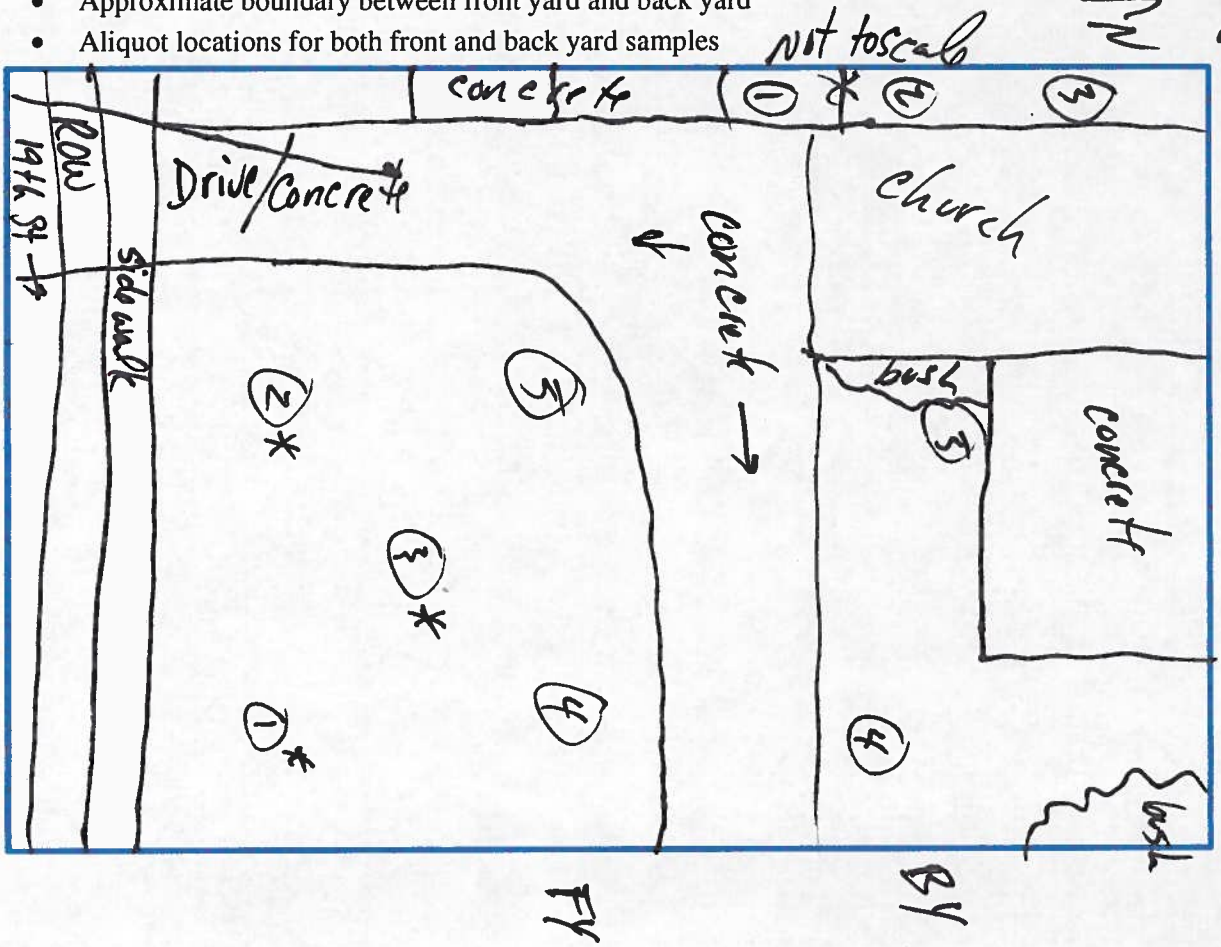
SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-20-SF-FY +hex	WT-RP-20-SF-BY +hex	WT-RP-20-SB-FY ~~+hex~~	WT-RP-20-SB-BY
Sample Date	2/29/12	2/29/12	2/29/12	2/29/12
Sample Time	1600	1625	1615	1635
Sampler Name	KW	KW	LS	KW

augerholes 1,2,&3 in FY were offset b/c of auger refusal @ ~12in BGS

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

b/c of bricks underground #3 SB-FY not collected auger refusal @ ~12in BGS



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

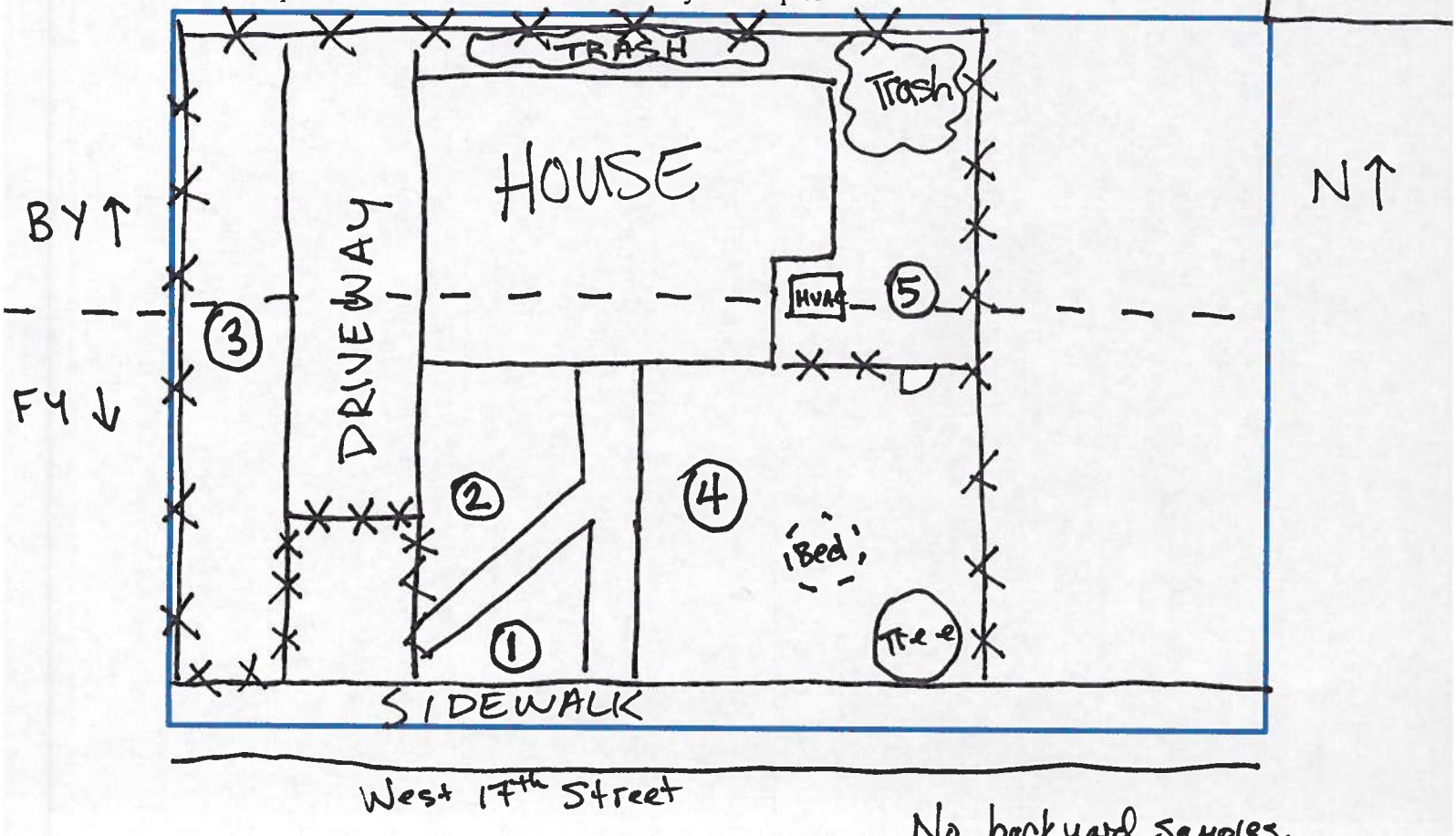
PROPERTY ADDRESS: 1751 West 17th Street	STATION ID: WTRP-21

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-21-SF-FY	WT-RP-21-SF-BY	WT-RP-21-SB-FY	WT-RP-21-SB-BY
Sample Date	3/01/12			
Sample Time	1050		1055	
Sampler Name	Shaver		Shaver	

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 417-426



No backyard samples.

RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

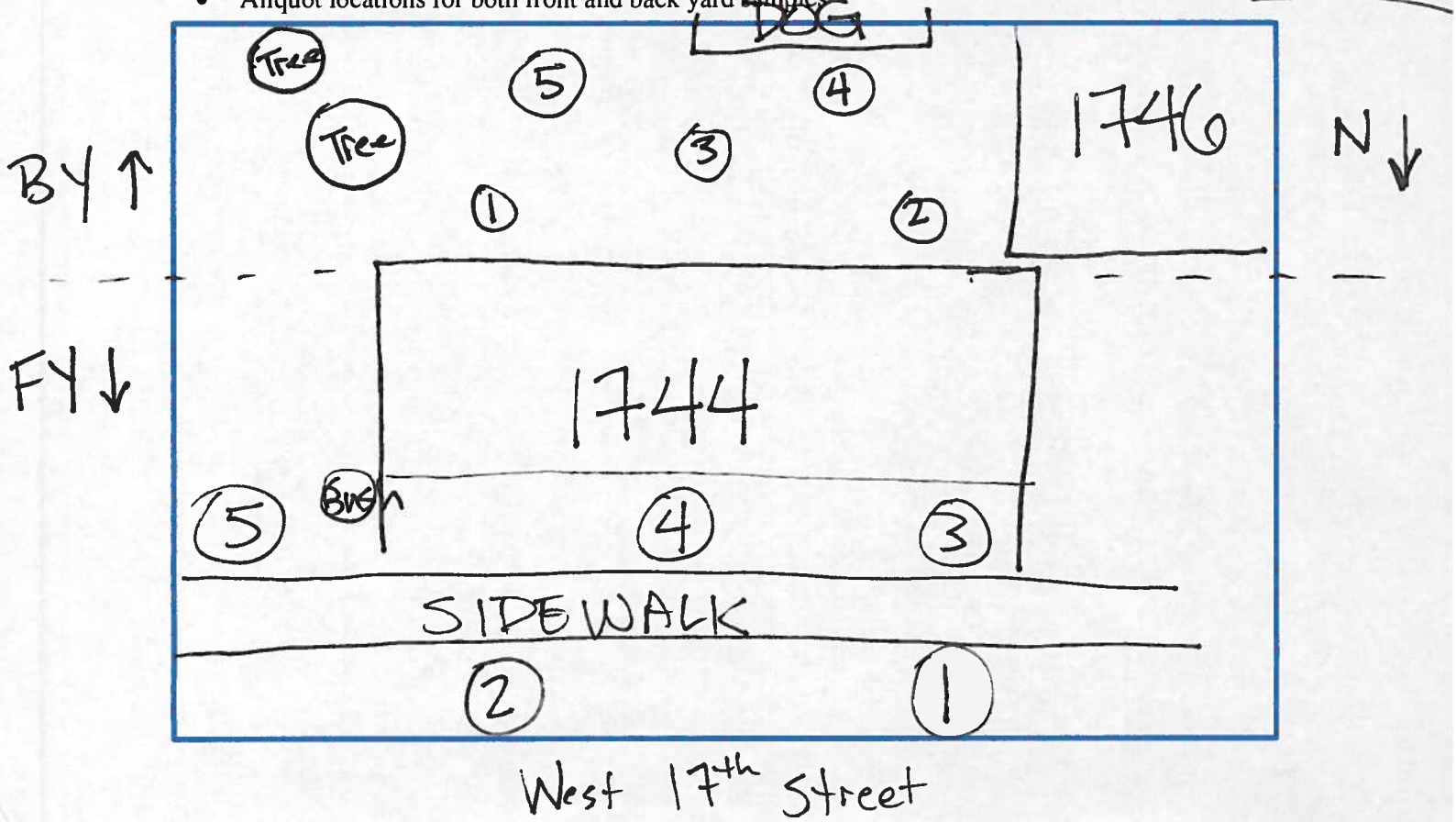
PROPERTY ADDRESS: 1744 W. 17th Street	**STATION ID:** WTRP- 22

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	WT-RP-22-SF-FY -DUP	WT-RP-22-SF-BY	WT-RP-22-SB-FY	WT-RP-22-SB-BY
Sample Date	2/28/12	1507	→	→
Sample Time	-22 / -DUP 1435 / 1454	~~1448~~ DUP	1448	1516
Sampler Name	Robinson Krone	Robinson	Robinson	Robinson

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 277-286



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

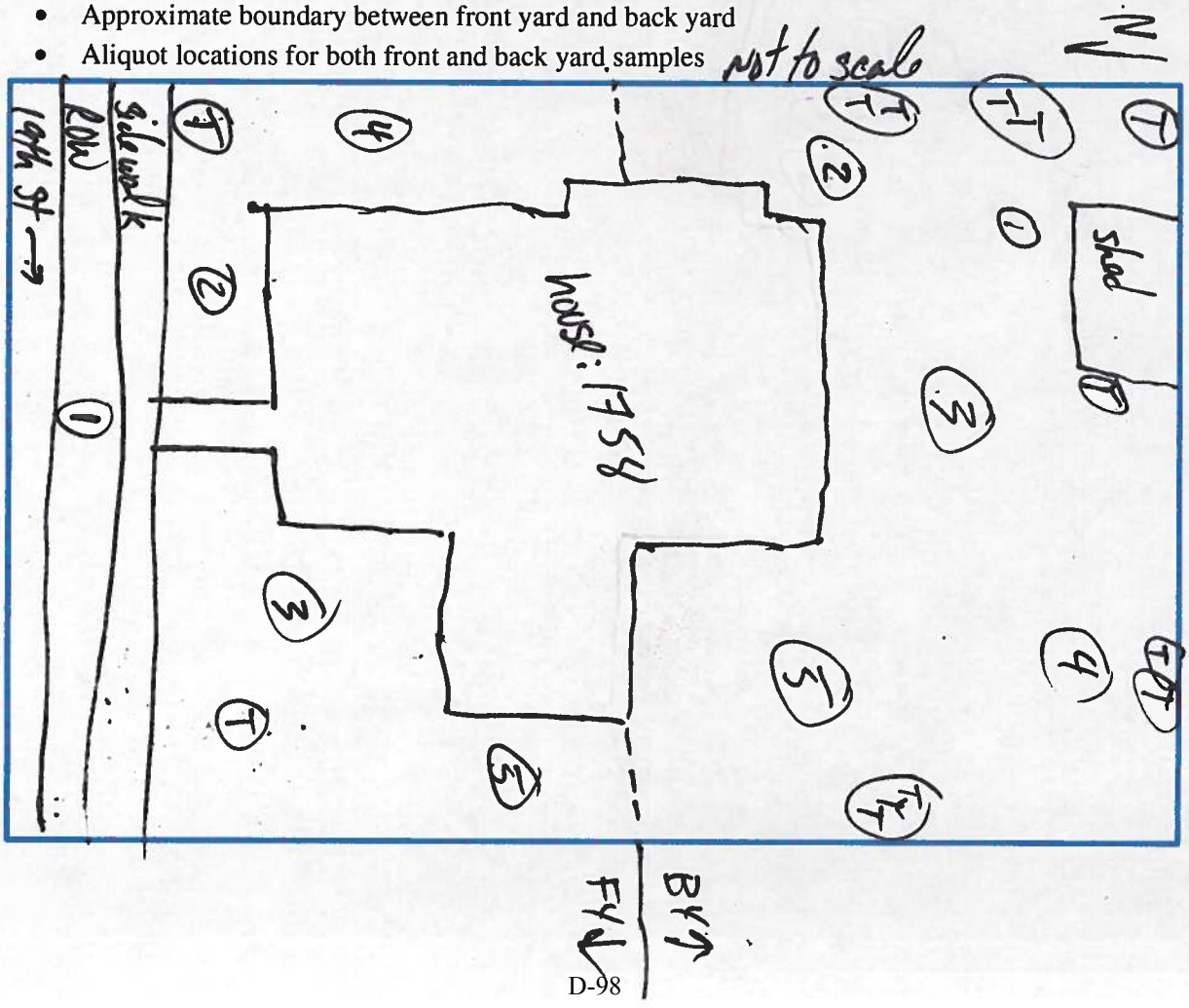
PROPERTY ADDRESS: 1758 W 19th St	STATION ID: WTRP- 25

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-25-SF-FY + hex	WT-RP-25-SF-BY + hex	WT-RP-25-SB-FY	WT-RP-25-SB-BY
Sample Date	2/29/12 (dup)	2/29/12	2/29/12	2/29/12
Sample Time	~~1340~~ 1400 (dup 1355)	1410	1355	1420
Sampler Name	KW (dup LS)	KW	KW	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

not to scale



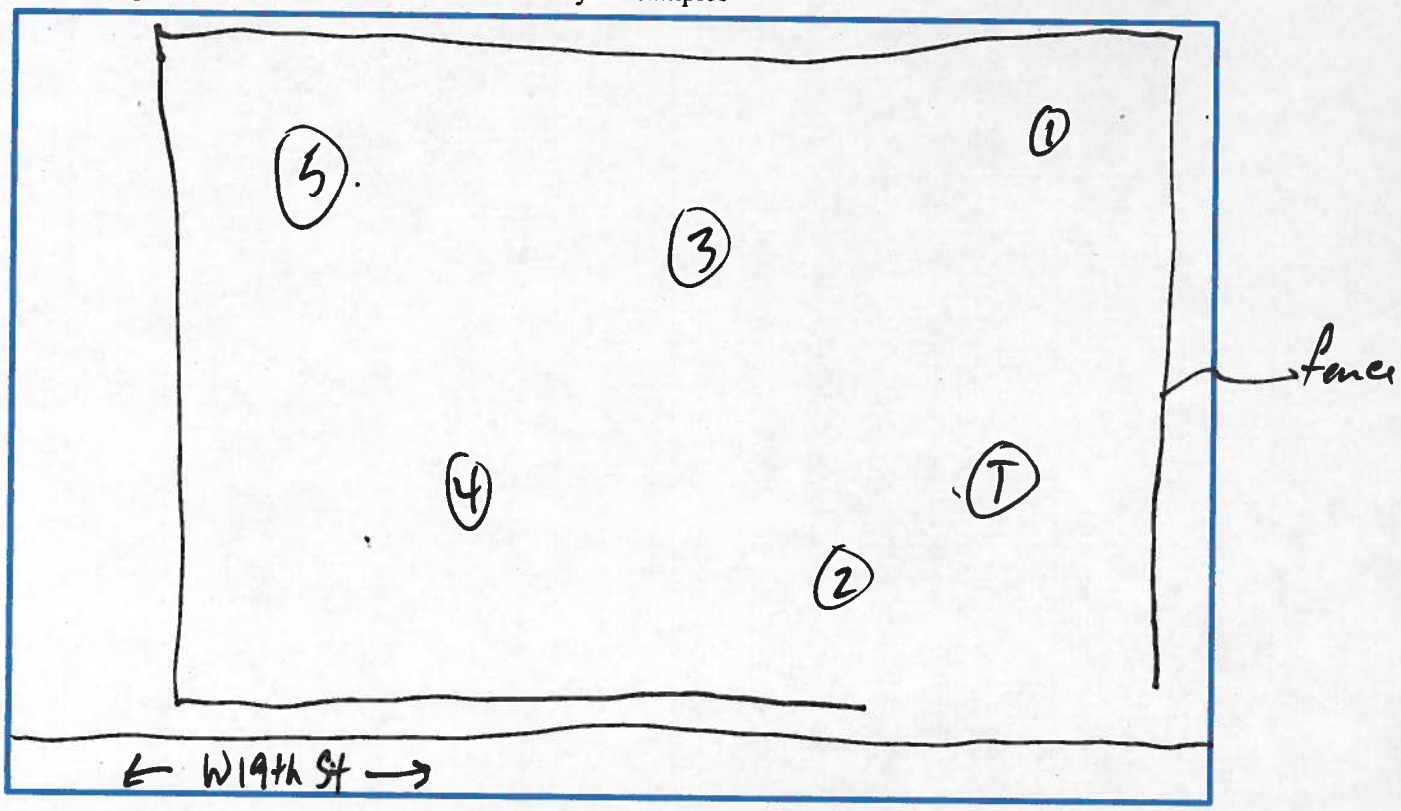
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1804 W 19th St	STATION ID: WTRP- 26

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-26-SF-FY	WT-RP-26-SF-BY	WT-RP-26-SB-FY	WT-RP-26SB-BY
	dup			
Sample Date	2/29/12 2/29/12	2/29/12	2/29/12	2/29/12
Sample Time	0745 0800		0805	
Sampler Name	KW CS		KW	

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



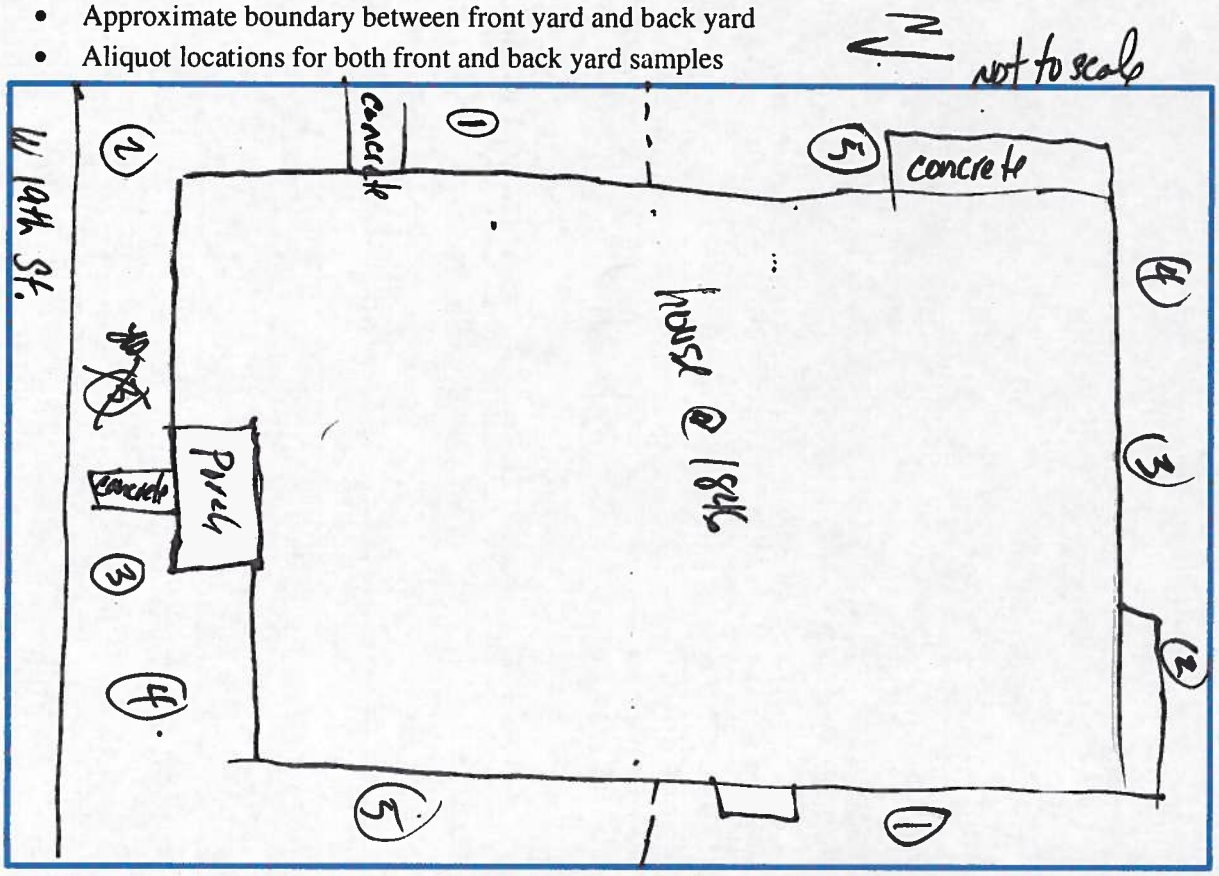
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1546 W 19th St	STATION ID: WTRP- 27

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-27-SF-FY	WT-RP-27-SF-BY	WT-RP-27-SB-FY	WT-RP-27-SB-BY
Sample Date	2/29/12	2/29/12	2/29/12	2/29/12
Sample Time	0855	0905	0905	0920
Sampler Name	KW	KW	KS	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



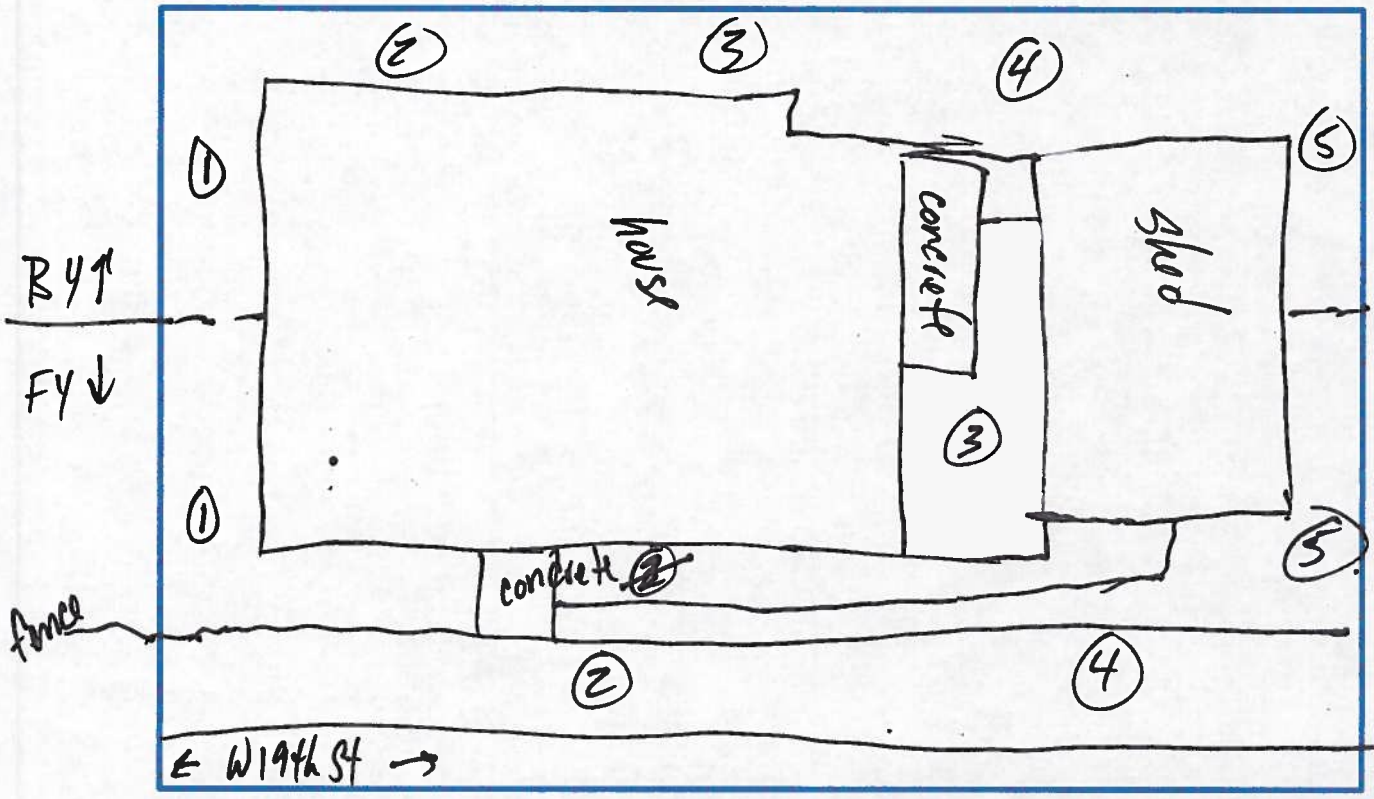
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1858 W19th St	STATION ID: WTRP-29

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-29-SF-FY	WT-RP-29-SF-BY	WT-RP-29-SB-FY	WT-RP-29-SB-BY
Sample Date	2/29/12	2/29/12	2/29/12	2/29/12
Sample Time	0955	1020	1015	1030
Sampler Name	KW	KW	LS	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

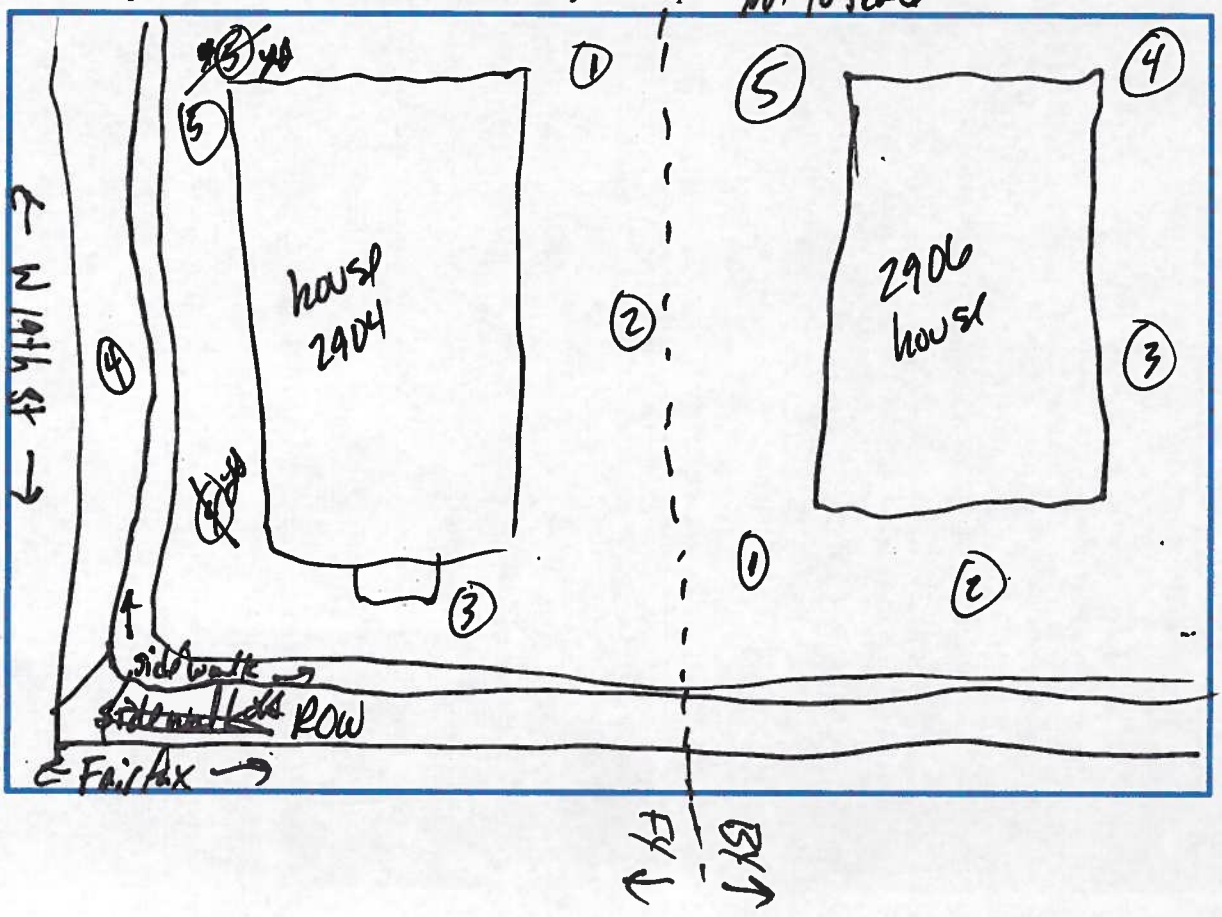
PROPERTY ADDRESS: 2904 Fairfax St.	STATION ID: WTRP- 30

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-30-SF-FY +Dup	WT-RP-30-SF-BY	WT-RP-30-SB-FY +Dup	WT-RP-30-SB-BY
Sample Date	2/29/12	2/29/12	2/29/12	2/29/12
Sample Time	1100	1115	1110	1125
Sampler Name	KW	KW	JS	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

not to scale



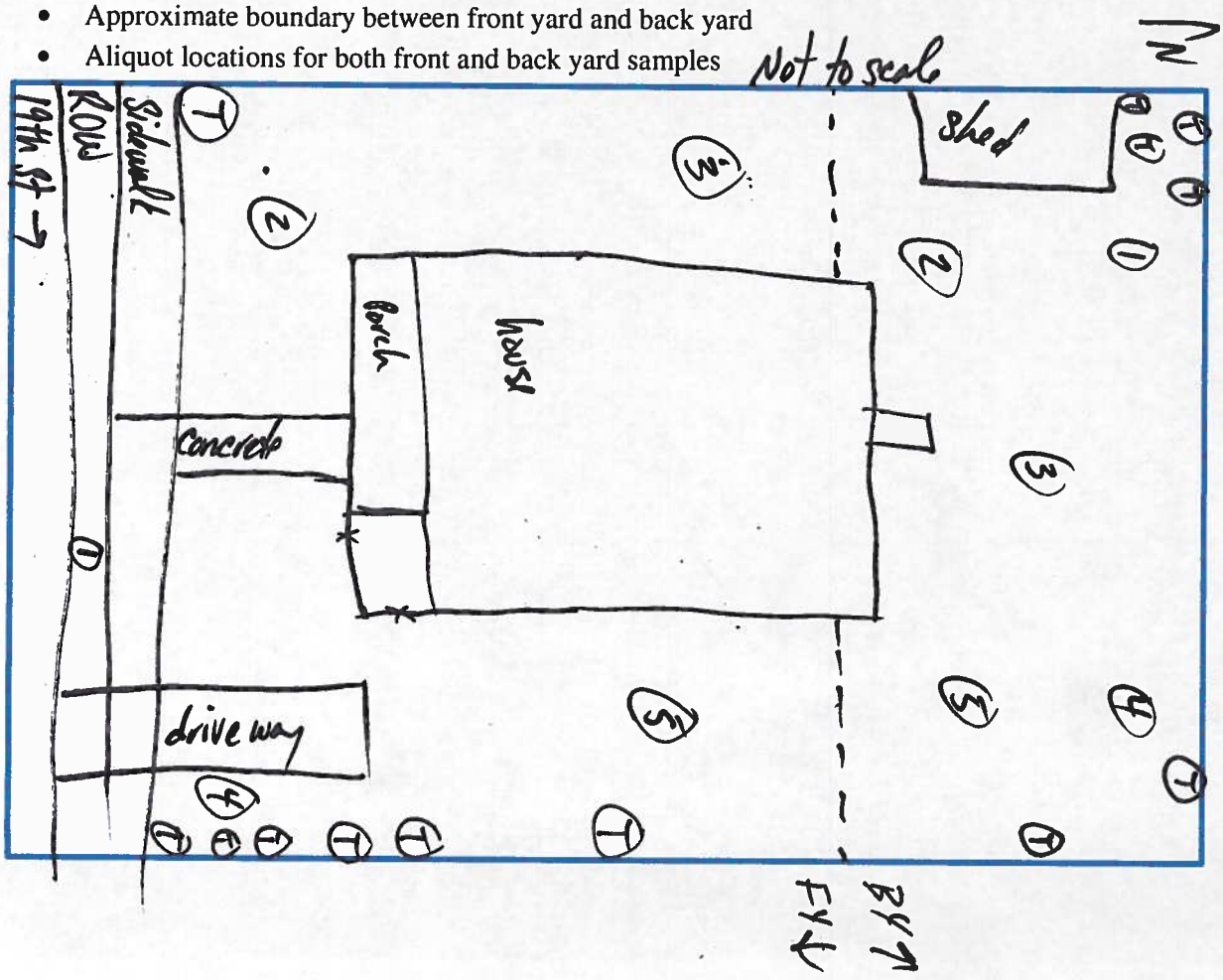
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1815 W 19th St	STATION ID: WTRP-31

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-31 -SF-FY	WT-RP-31 -SF-BY	WT-RP-31 -SB-FY	WT-RP-31 -SB-BY
Sample Date	2/28/12	2/28/12	2/28/12	2/28/12
Sample Time	1640	~~1650~~ 1655	1650	1700
Sampler Name	KW	~~KW~~ CJ	KW	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

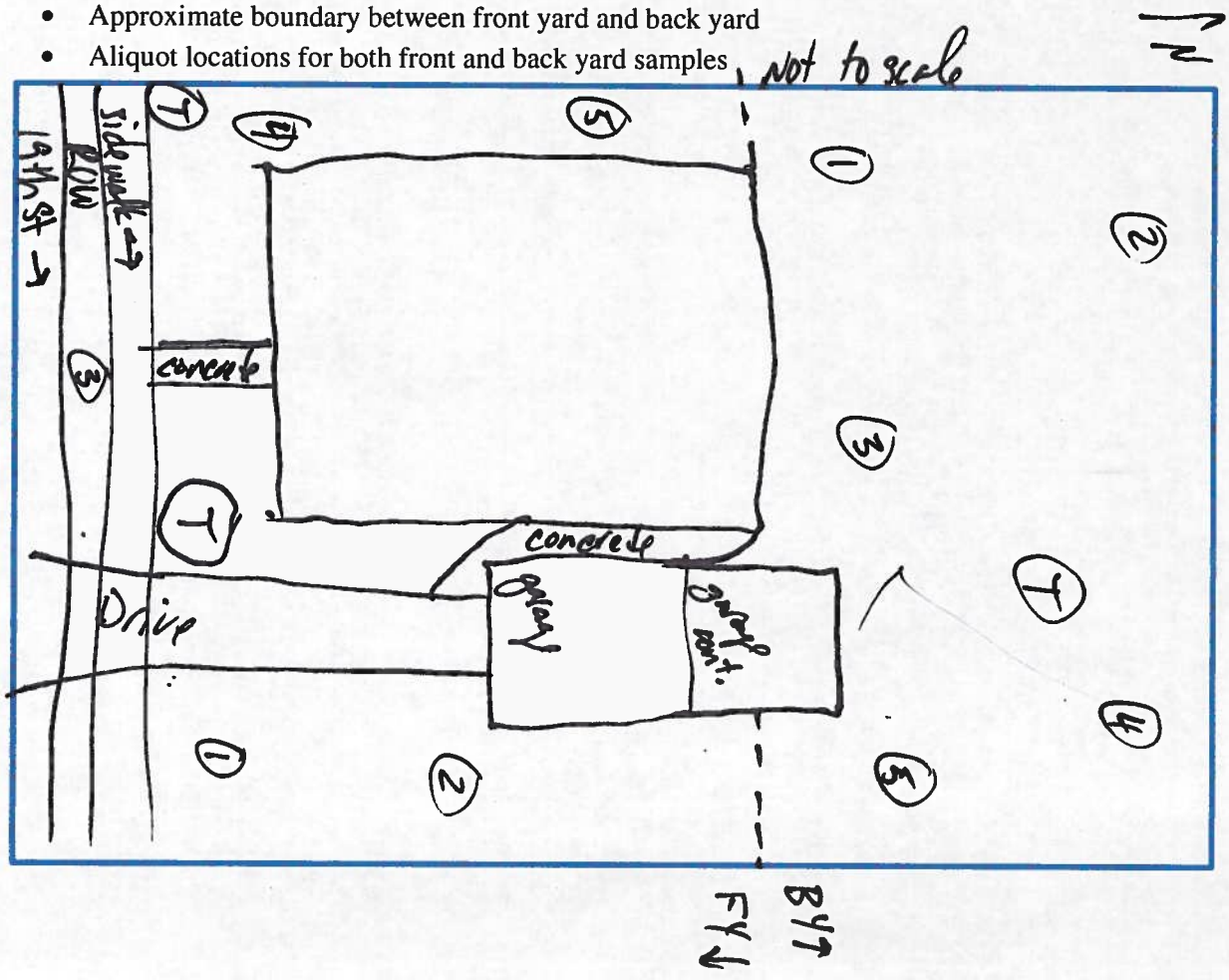
PROPERTY ADDRESS: 1819 W 19th St	STATION ID: WTRP- 32

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-32-SF-FY	WT-RP-32-SF-BY	WT-RP-32-SB-FY	WT-RP-32-SB-BY
Sample Date	2/28/12	2/29/12	2/28/12	2/28/12
Sample Time	1555	1615	1610	1625
Sampler Name	KW	KW	KW	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

(T): tree
(#): aliquot



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

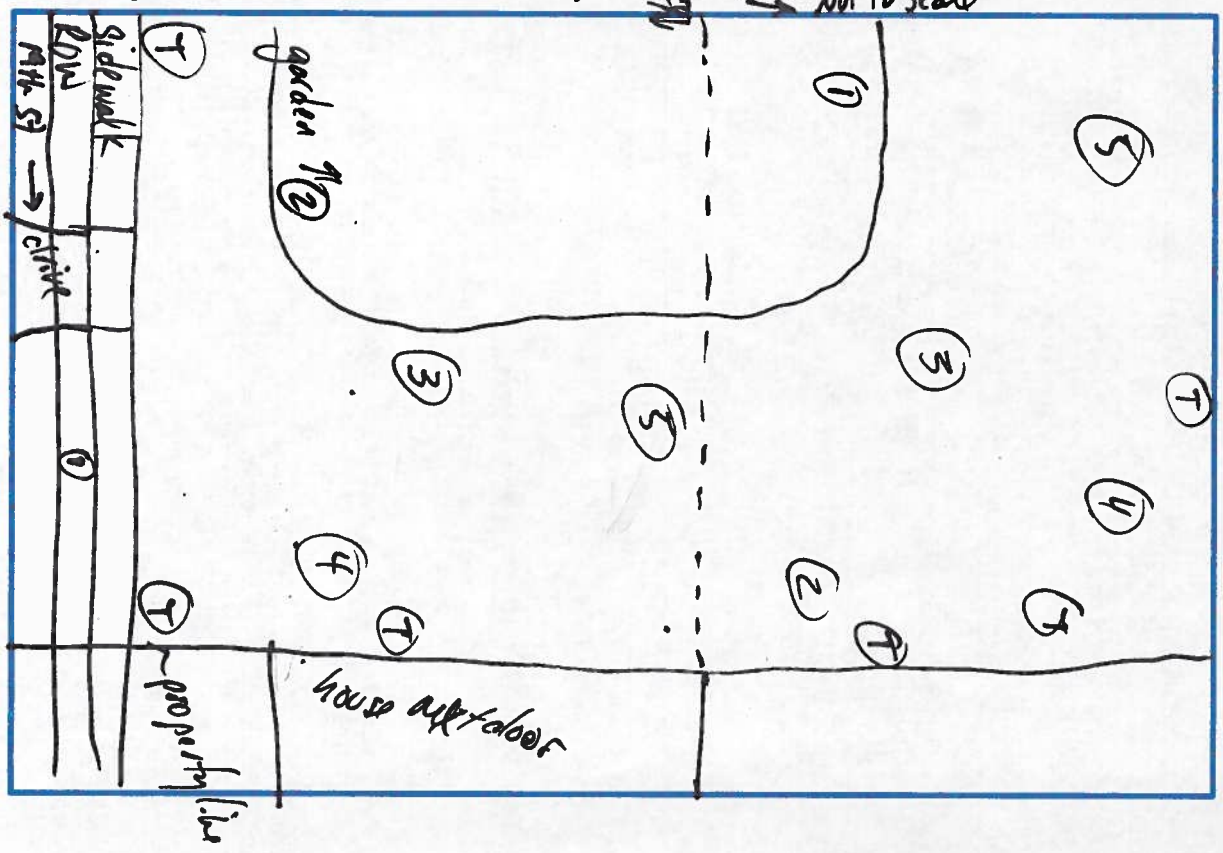
PROPERTY ADDRESS: 1823 W 19th St	STATION ID: WTRP-33

vacant lot, with garden

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-33-SF-FY	WT-RP-33-SF-BY	WT-RP-33-SB-FY	WT-RP-33-SB-BY
Sample Date	2/28/12	2/28/12	2/28/12	2/28/12
Sample Time	1515	1525	1520	1535
Sampler Name	KW	KW	KW	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1831 W19th St	STATION ID: WTRP-34

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-34-SF-FY	WT-RP-34-SF-BY	WT-RP-34-SB-FY	WT-RP-34-SB-BY
Sample Date	2/28/12	2/28/12	2/28/12	2/28/12
Sample Time	1415	1445	~~1425~~ 1430	1455
Sampler Name	KW	KW	KW	KW

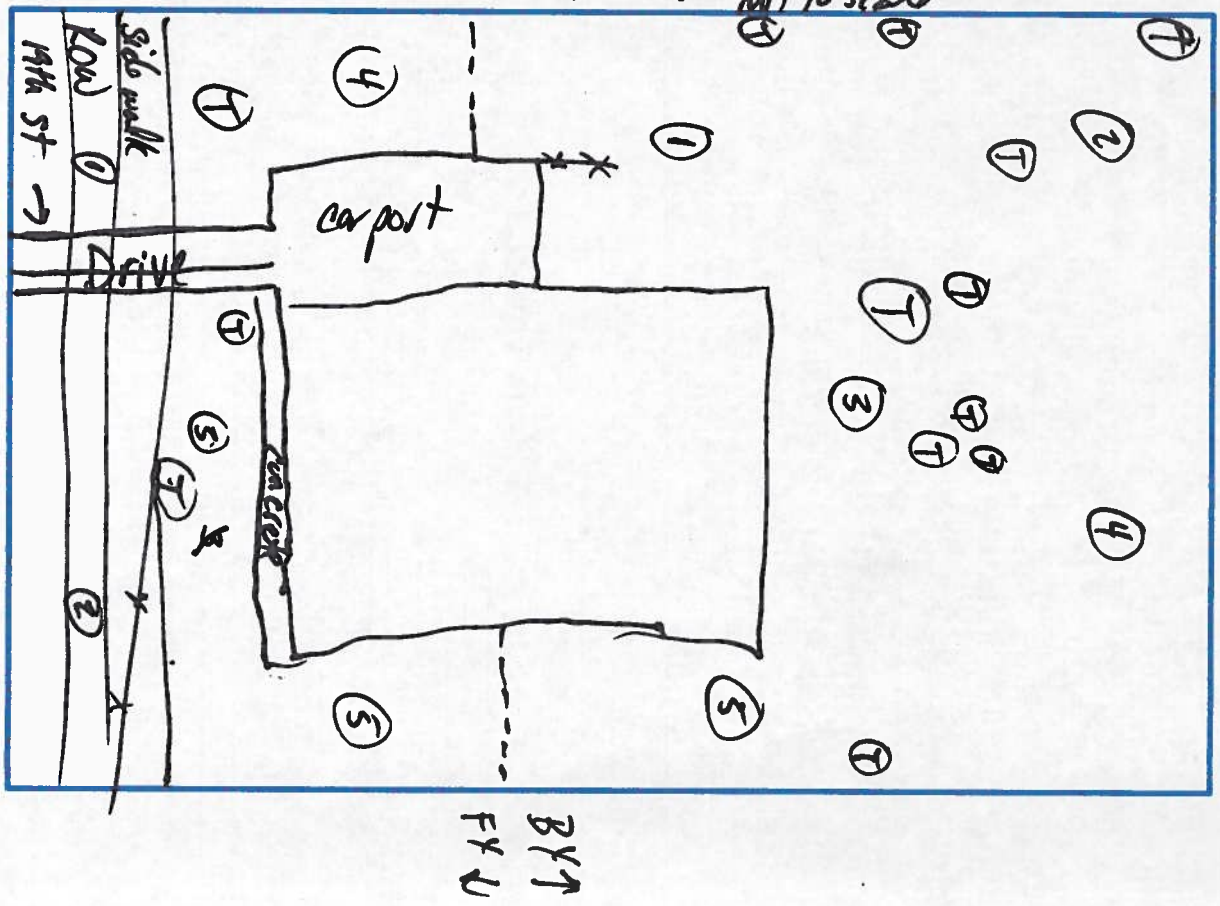
small, very landscaped front yard, fruit trees

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

(T) = tree
(#) = aliquot location

not to scale



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1837 W 19th St	STATION ID: WTRP-35

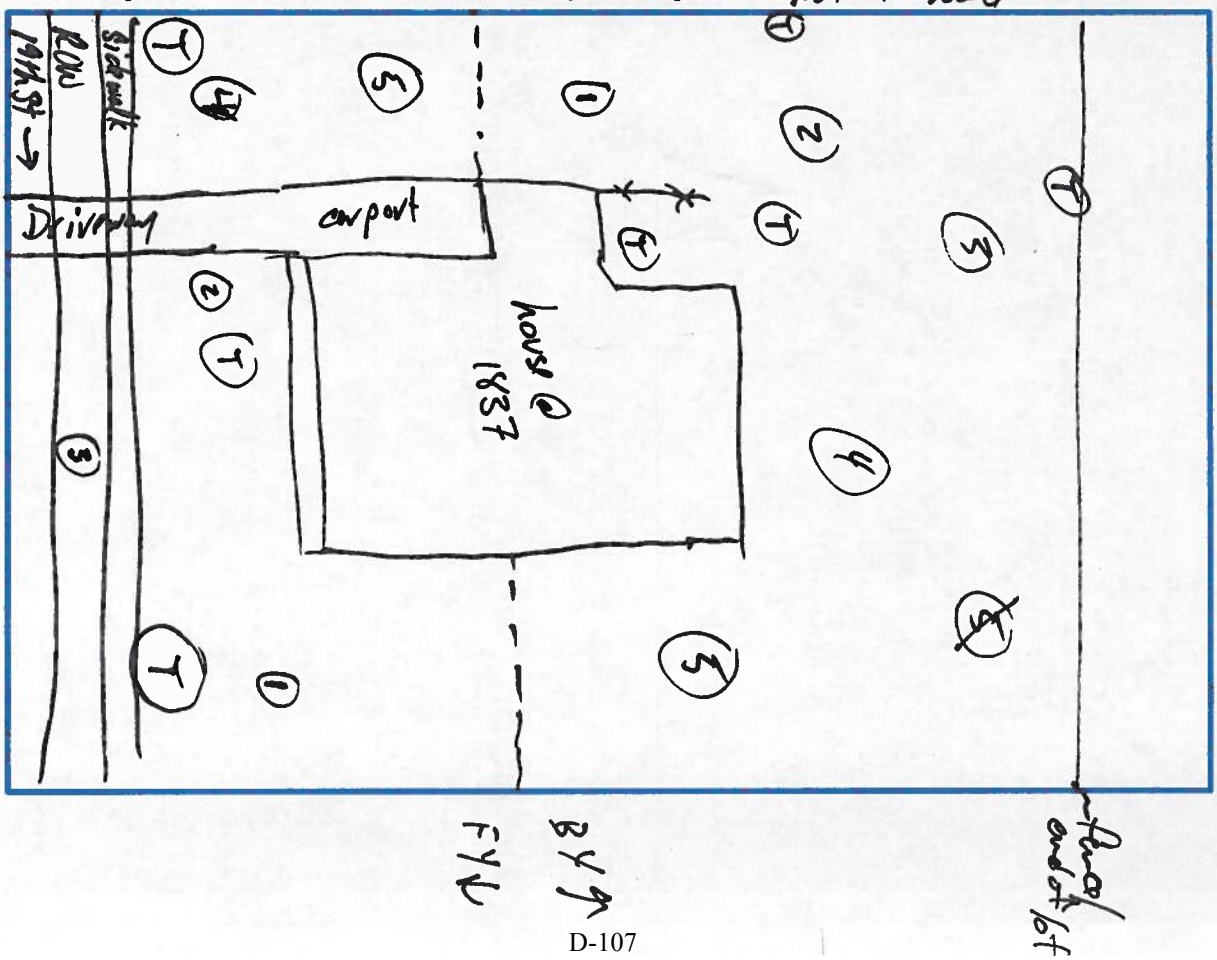
SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP35-SF-FY	WT-RP-~~35~~-SF-BY	WT-RP-~~35~~-SB-FY	WT-RP-~~35~~-SB-BY
Sample Date	2/28/12	2/28/12	2/28/12	2/28/12
Sample Time	1030 DUP 1050	~~1040~~ 1100 DUP 1115	1040	1110
Sampler Name	KW KW	KW KW	KW	KW

hex chrome & dup.

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

not to scale



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

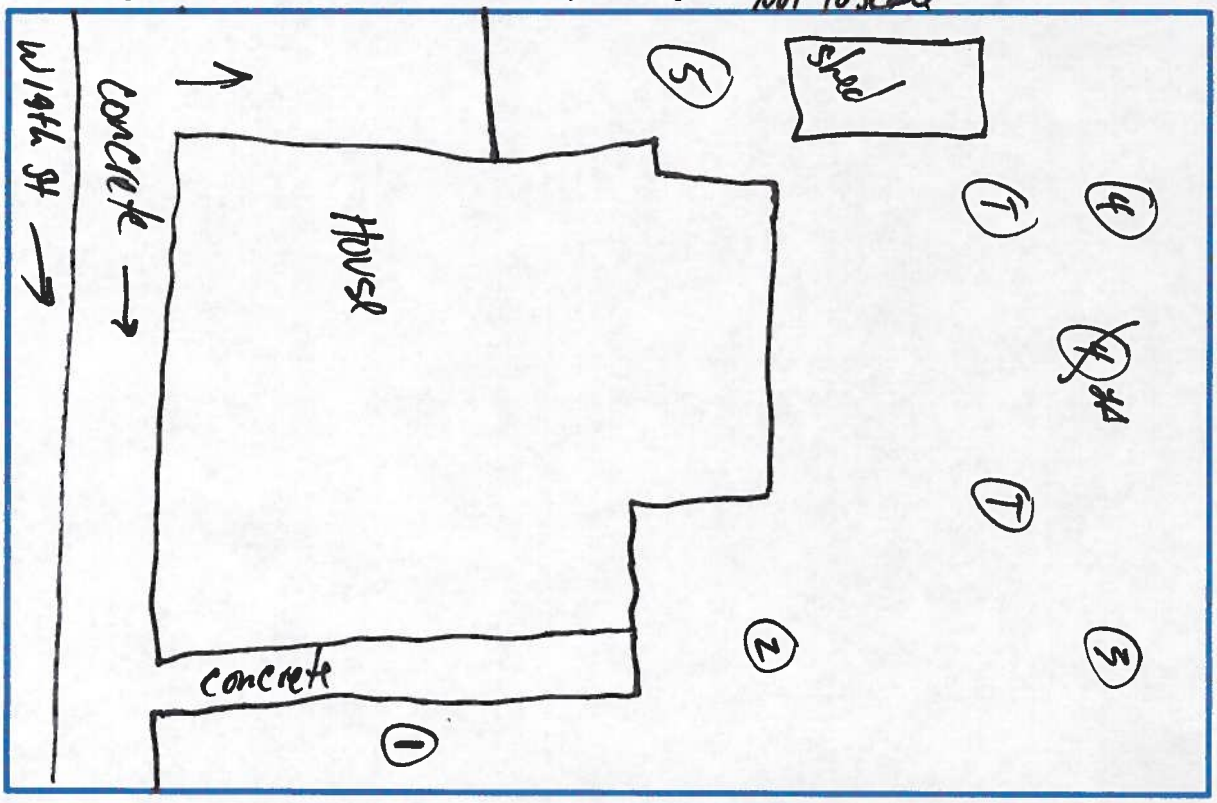
PROPERTY ADDRESS: 1845 W 19th St	STATION ID: WTRP-36

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-36-SF-FY	WT-RP-36-SF-BY / dup	WT-RP-36-SB-FY	WT-RP-36-SB-BY
Sample Date		2/29/12 / 2/29/12		2/29/12
Sample Time		0825 / 0835		~~0840~~ 0835
Sampler Name		KW / LS		KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

not to scale



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

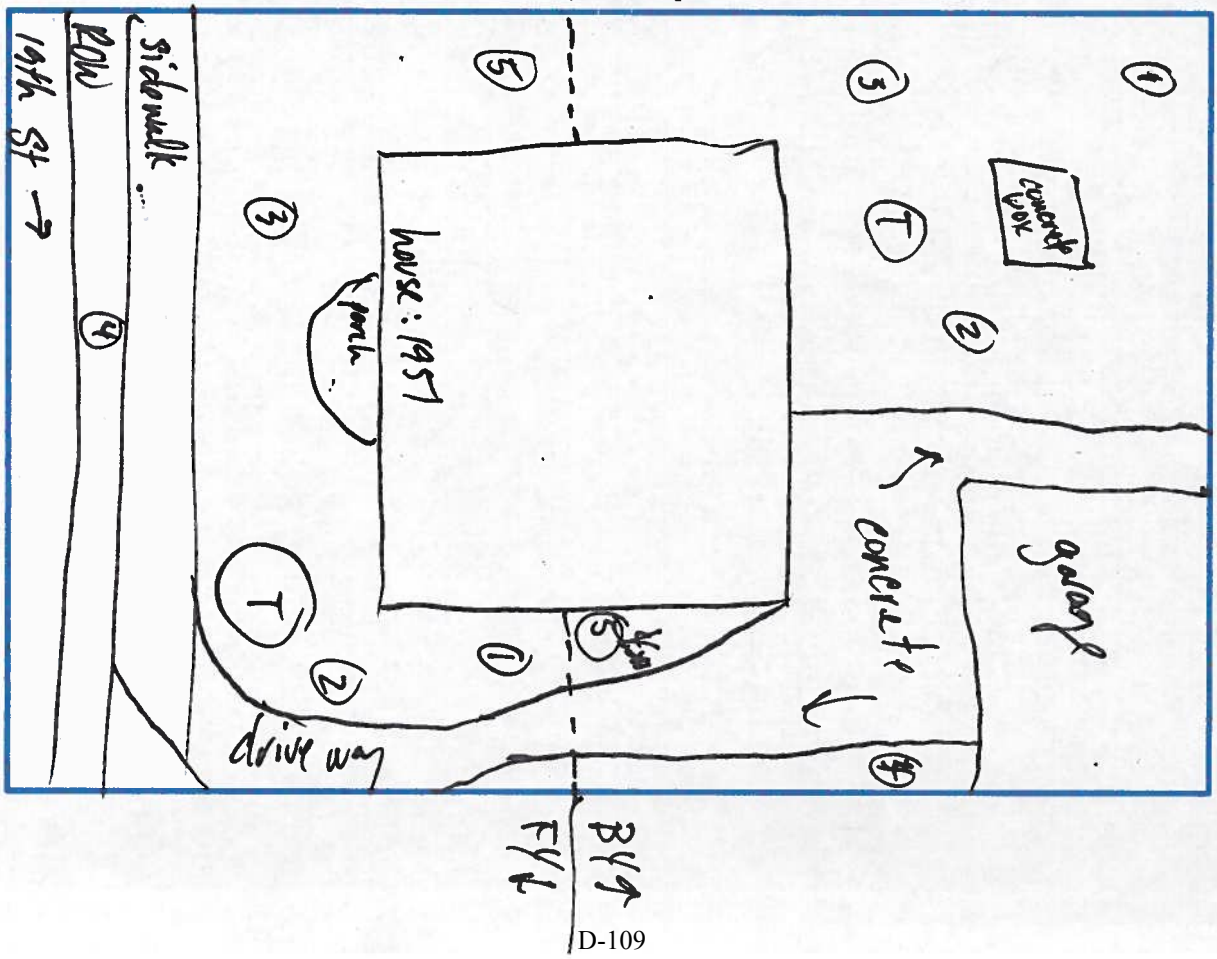
PROPERTY ADDRESS: 1857 W19th St	STATION ID: WTRP- 37

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-37-SF-FY	WT-RP-37-SF-BY	WT-RP-37-SB-FY	WT-RP-37-SB-BY
Sample Date	2/28/12	2/28/12	2/28/12	2/28/12
Sample Time	0940	0945	0950	1000
Sampler Name	KW	CJ	KW	KW

Moth balls seen all over yard

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 2921 W19th St	STATION ID: WTRP-38

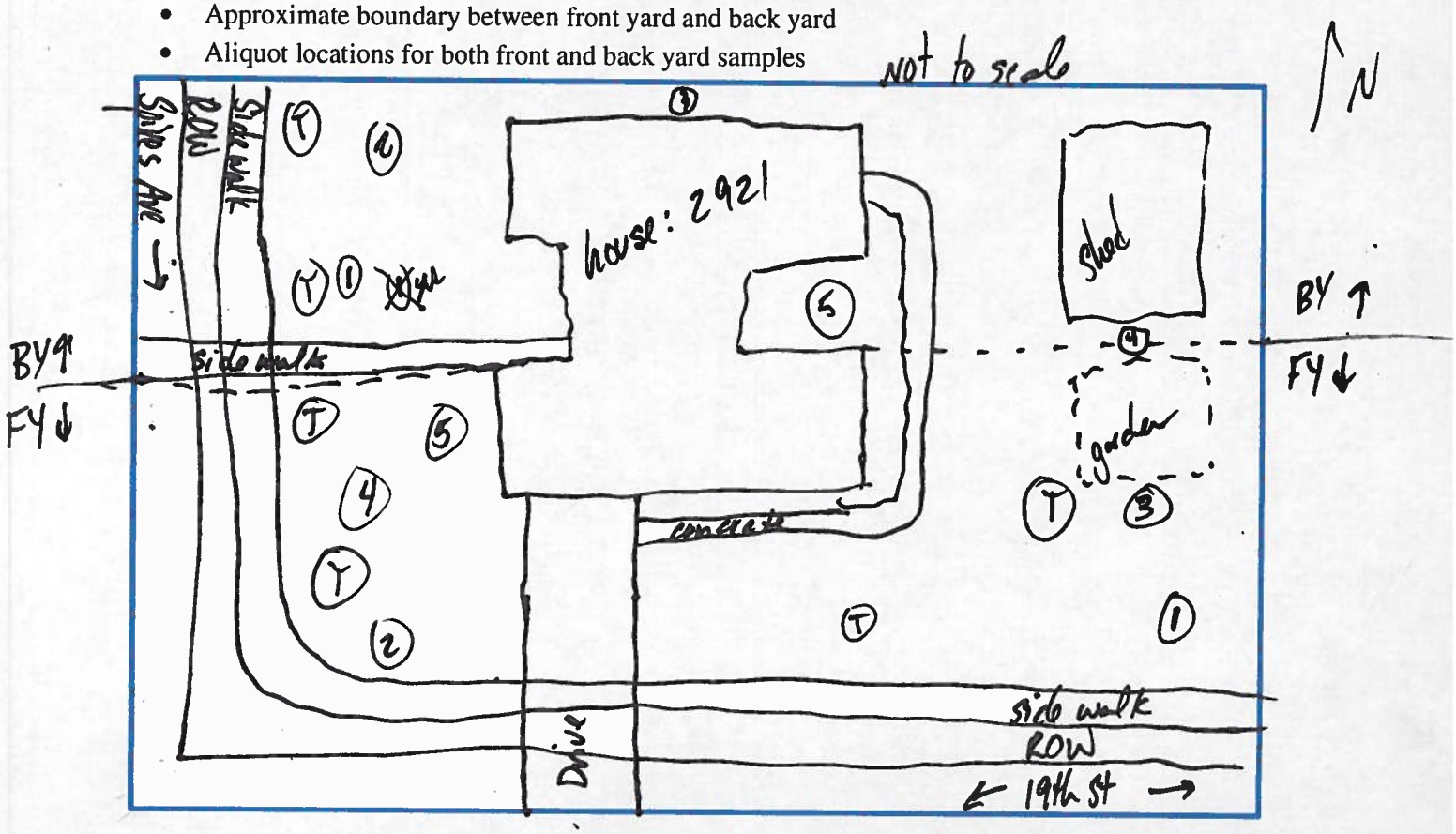
SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-38 -SF-FY	WT-RP-38 -SF-BY	WT-RP-38-SB-FY	WT-RP-38-SB-BY
Sample Date	2/28/12	2/28/12	2/28/12	2/28/12
Sample Time	0855	0915	0910	0930
Sampler Name	KW	KW	KW	KW

BY/FY ~~down~~ division done to match other properties on street

SITE SKETCH (Scale is not important, but include the following whenever possible):

(T) = tree

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: Ø W 19th St, vacant lot on corner of W19th and Spires Ave	STATION ID: WTRP-39

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-39 -SF-FY	WT-RP-39 -SF-BY	WT-RP-39-SB-FY	WT-RP-39-SB-BY
Sample Date	2/27/12	2/27/12	2/27/12	2/27/12
Sample Time	1555	1600 1610	1605 1610	1615
Sampler Name	KW	KW	KW	KW

* owners are the same as 1911 W 19th St, 2 lots/1 house

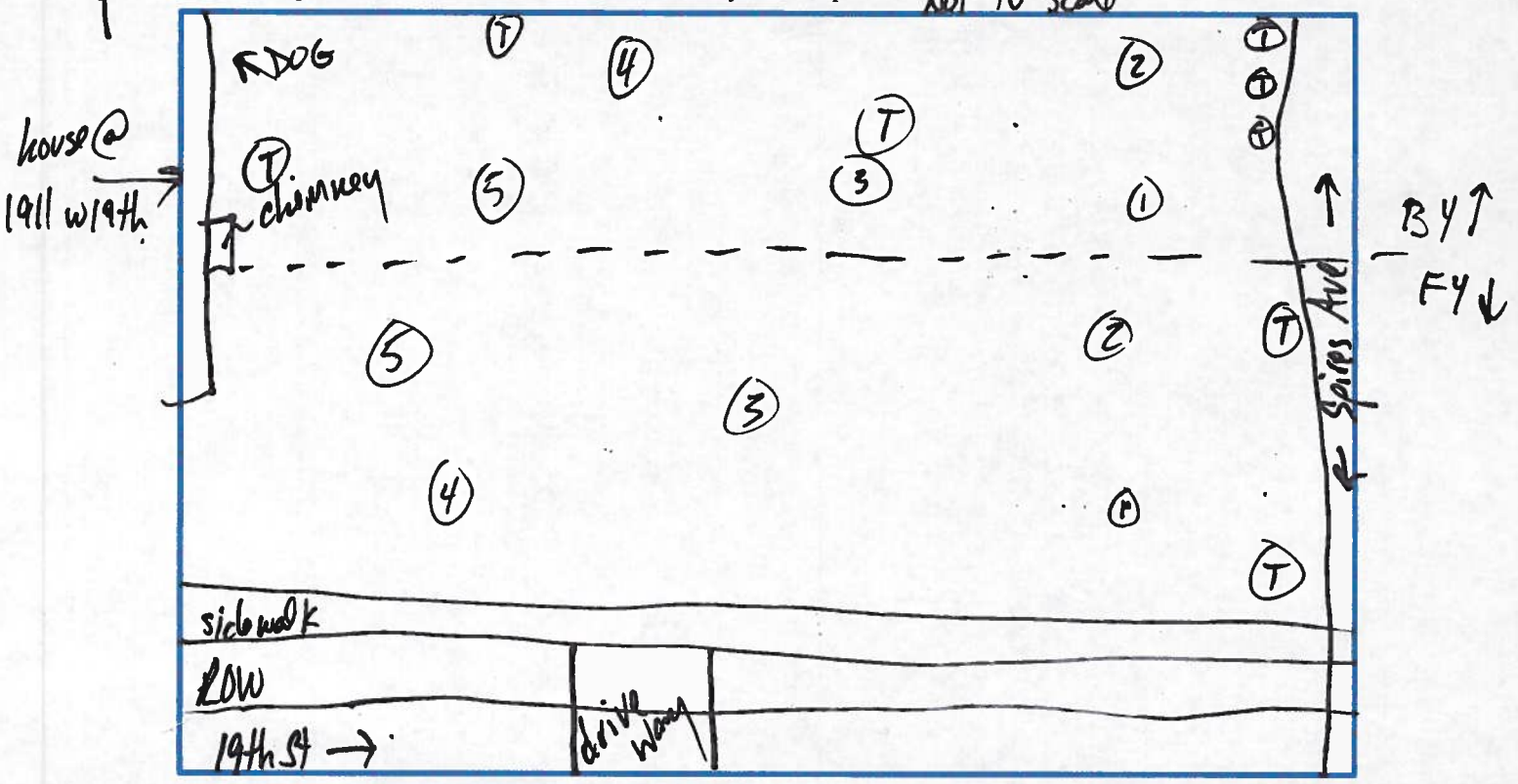
SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

T = tree

N

not to scale



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1911 W 19th St	STATION ID: WTRP- 40

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-40-SF-FY	WT-RP-40-SF-BY	WT-RP-40-SB-FY	WT-RP- 40SB-BY
Sample Date	2/27/12	2/27/12	2/27/12	2/27/12
Sample Time	1505	~~1515~~ 1525	1515	1540
Sampler Name	KW	KW	KW	KW

owners also own property/lot to the East

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

(T) = tree

N

not to scale

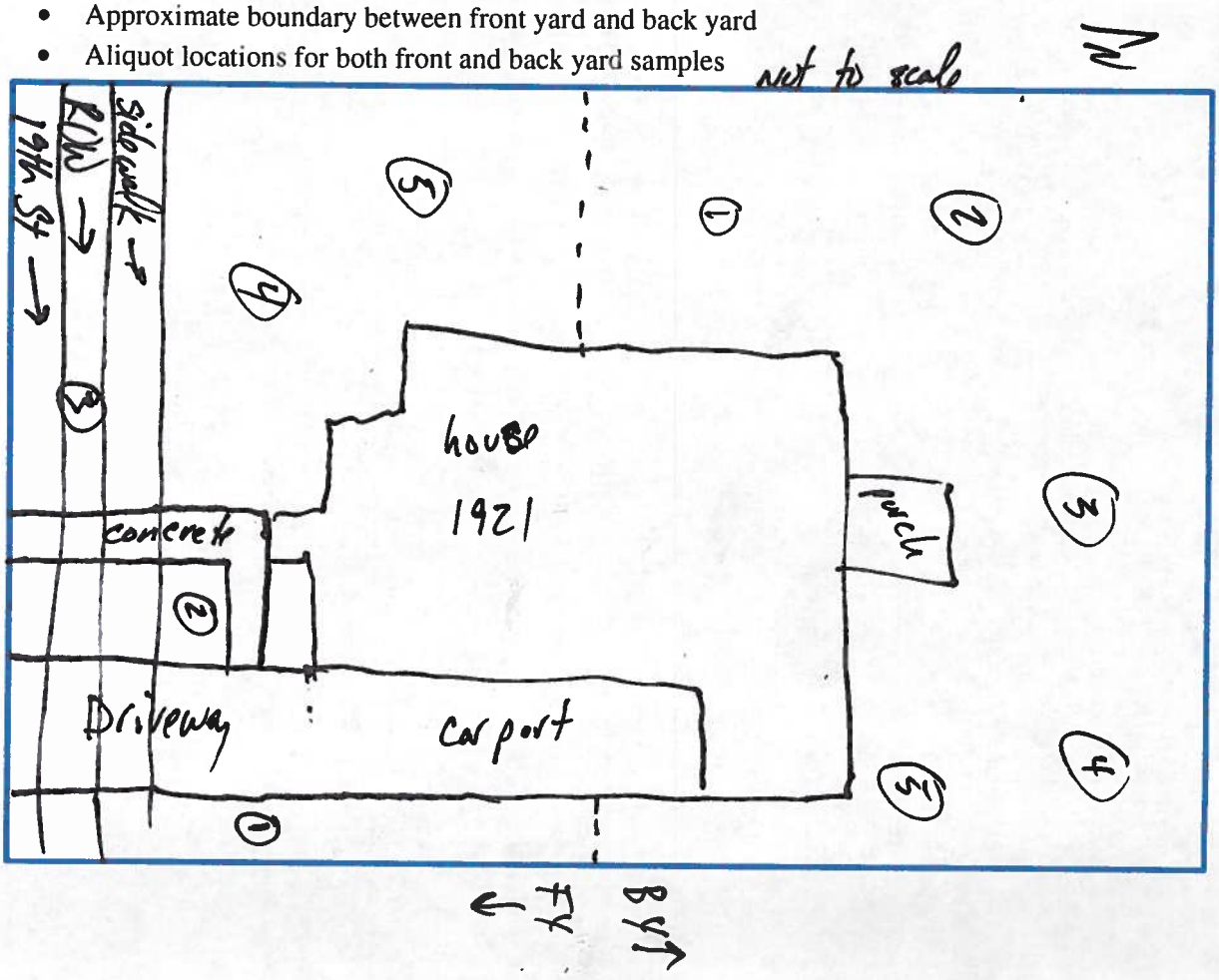
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1921 W 19th St	STATION ID: WTRP- 41

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-41-SF-FY	WT-RP-41-SF-BY	WT-RP-41-SB-FY	WT-RP-41-SB-BY
Sample Date	2/27/12	2/27/12	2/27/12	2/27/12
Sample Time	1115	1150	1130	1200
Sampler Name	KW	KW	KW	LS

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



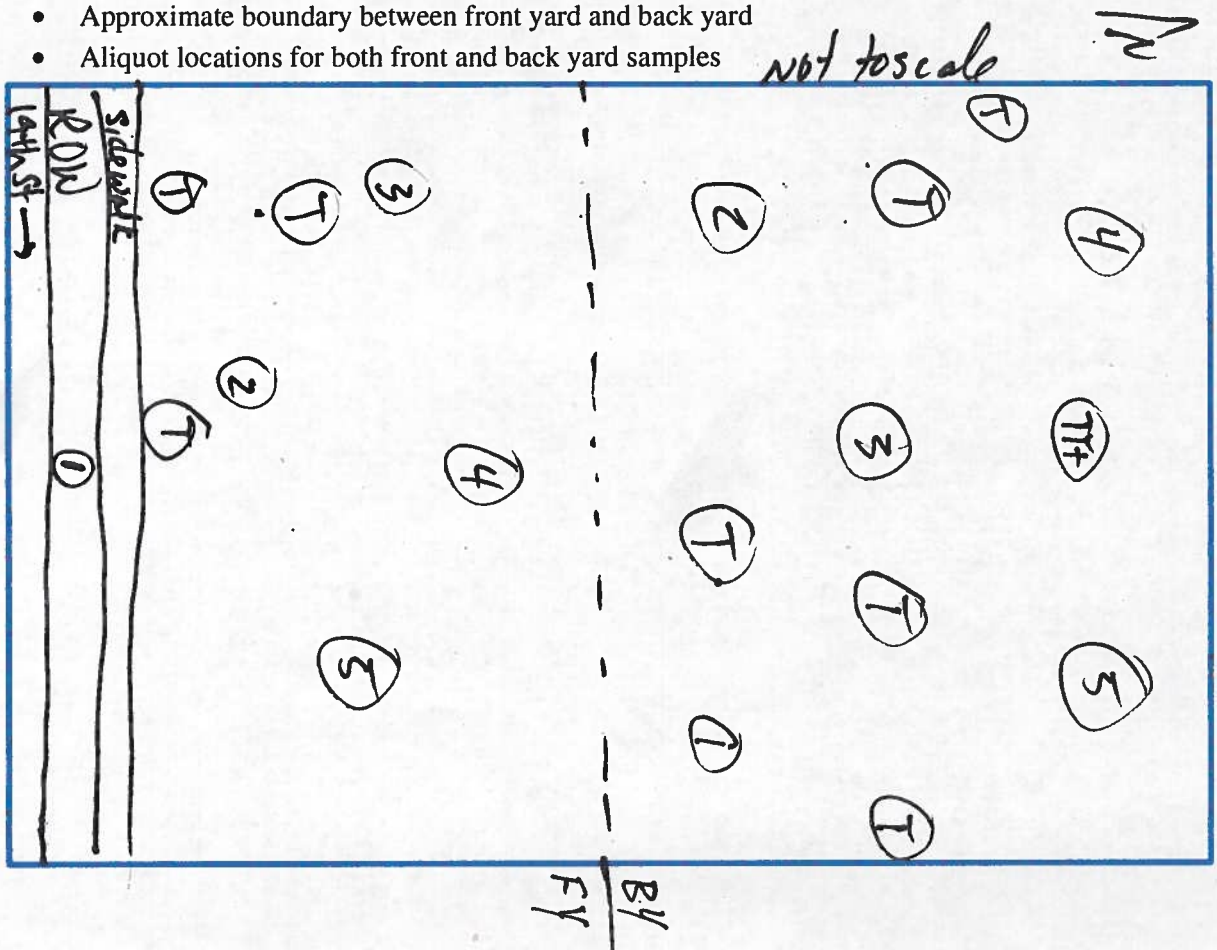
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 0 W 19th St vacant lot b/w 1937 & 1921 W 14th St	STATION ID: WTRP- 42

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-42-SF-FY	WT-RP-42-SF-BY	WT-RP-42-SB-FY	WT-RP-42-SB-BY
Sample Date	2/29/12	2/29/12	2/29/12	2/29/12
Sample Time	1440	1450	1445	1505
Sampler Name	KW	KW & LS	LS	LS

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

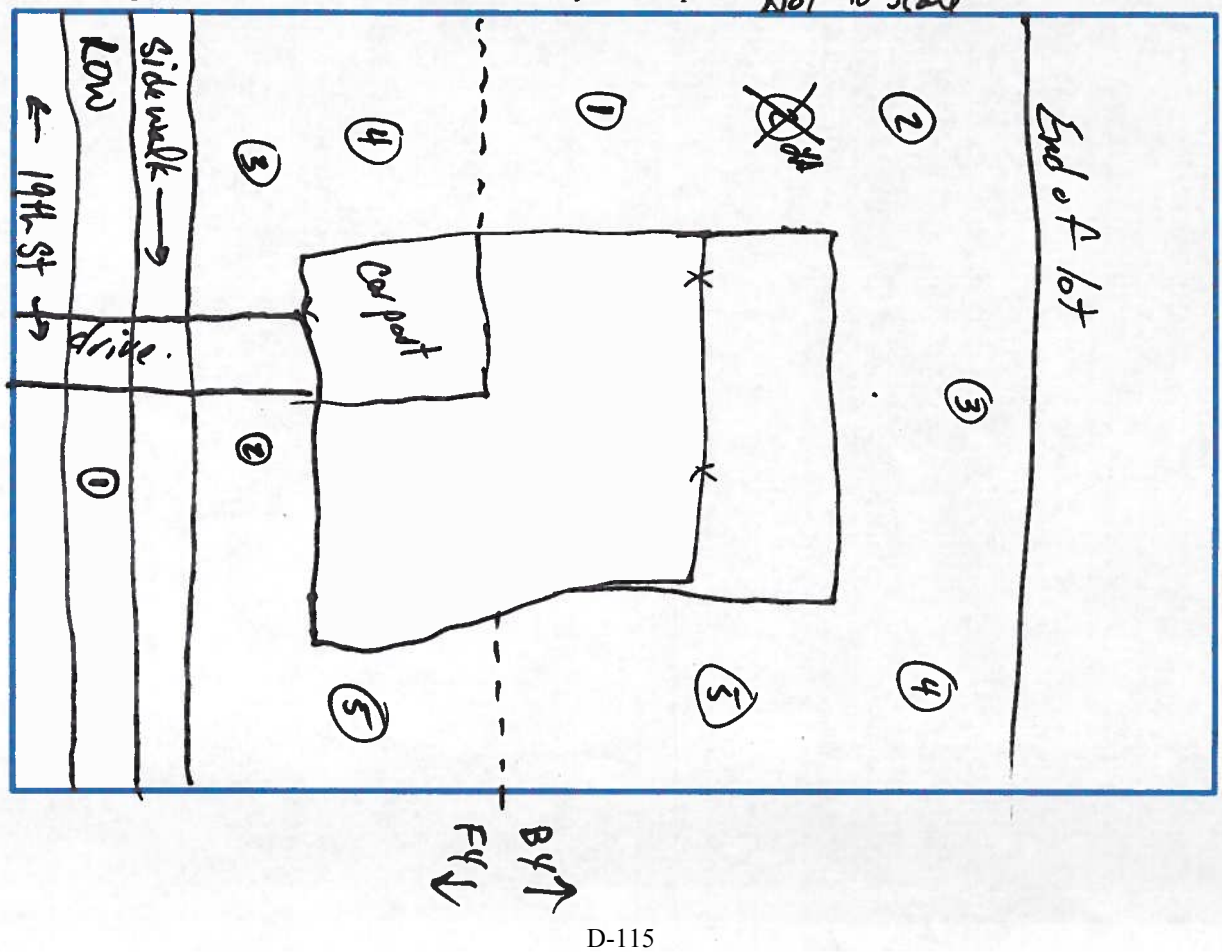
PROPERTY ADDRESS: 1937 W 19th St	STATION ID: WTRP-43

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-43-SF-FY	WT-RP-43-SF-BY	WT-RP-43-SB-FY	WT-RP-43-SB-BY
Sample Date	2/27/12	2/27/12	2/27/12	2/27/12
Sample Time	1030	~~1040~~ 1045	1040	1050
Sampler Name	KW	KW	LS	LS

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

not to scale



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1945 W 19th	STATION ID: WTRP- 44

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-44-SF-FY	WT-RP-44-SF-BY	WT-RP-44-SB-FY	WT-RP-44-SB-BY
Sample Date	2/27/12	2/27/12	2/27/12	2/27/12
Sample Time	0940	~~0950~~ 0955	0950	1010
Sampler Name	KW	LS/KW	LS	LS

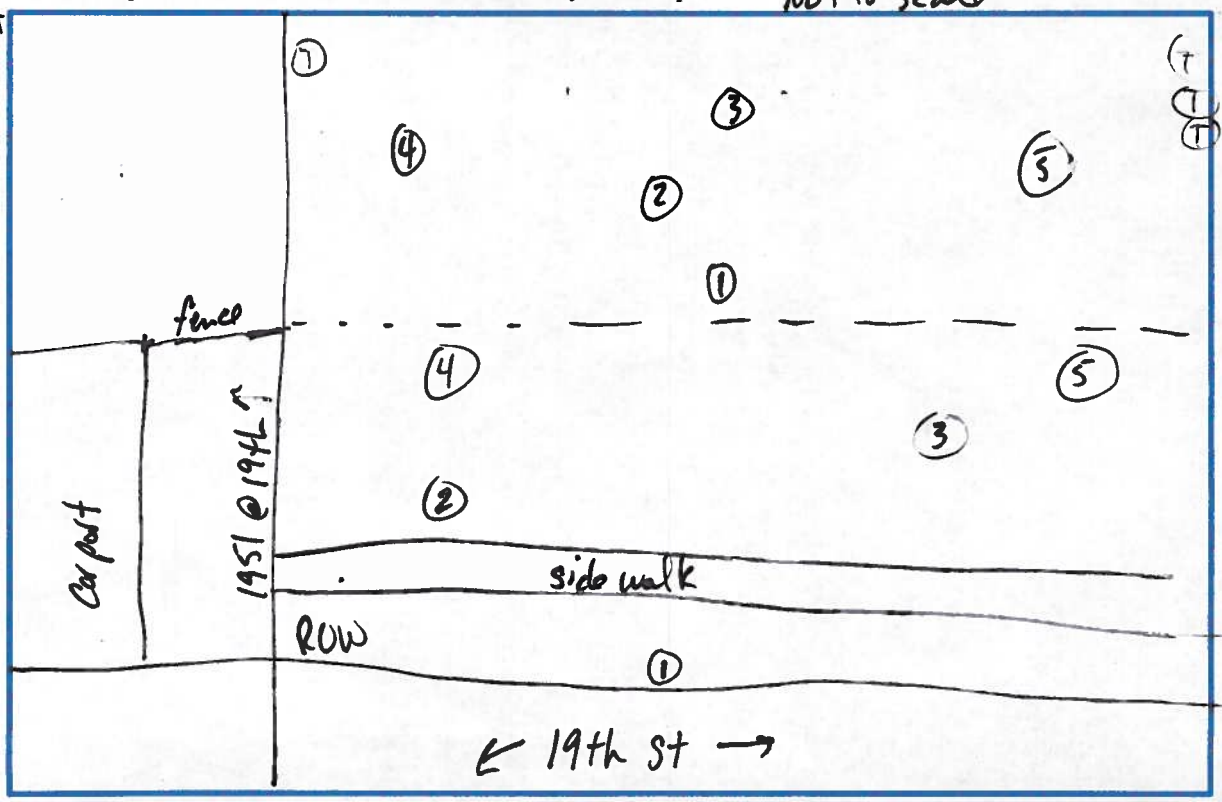
SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

(T) = tree

(#) = aliquot

not to scale



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1951 W 19th St	STATION ID: WTRP- 45

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-45-SF-FY	WT-RP-45-SF-BY	WT-RP-45-SB-FY	WT-RP-45-SB-BY
Sample Date	2/24/12	2/27/12	2/27/12	2/29/12
Sample Time	0850	~~0900~~ 0915	09 0900	0920
Sampler Name	KW ~~AES~~	LS	KW	LS

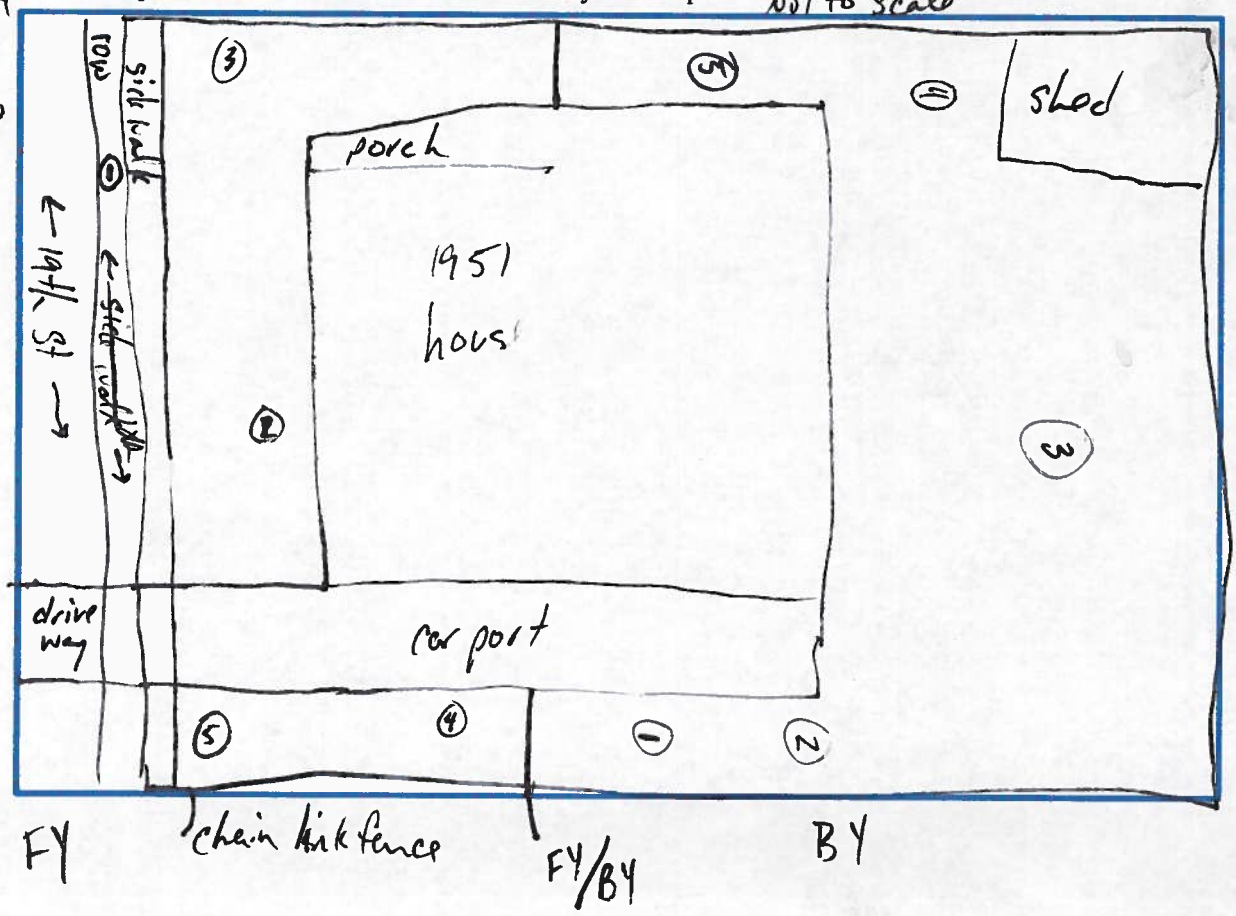
SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

① = aliquot

aliquot ① FY was offset for sub samp 6 auger refusal

not to scale



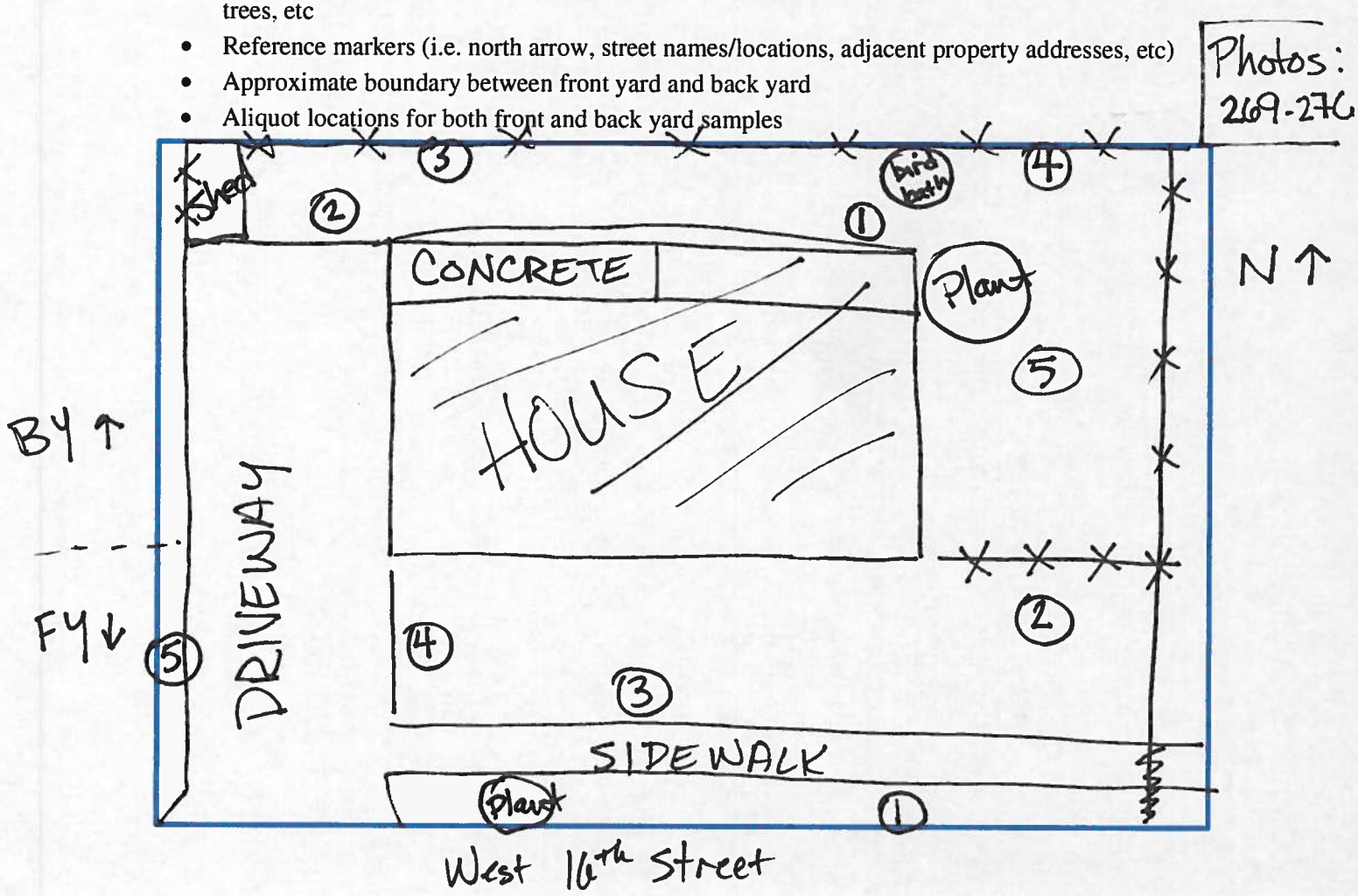
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 753 W. 16th Street	STATION ID: WTRP-47

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-47-SF-FY	WT-RP-47-SF-BY -DUP	WT-RP-47-SB-FY	WT-RP-47-SB-BY
Sample Date	2/28/12	→	→	→
Sample Time	1135	-47 1156 / -47-DUP 1211	1140	1206
Sampler Name	Jones	Jones/Krone	Krone	Robinson

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

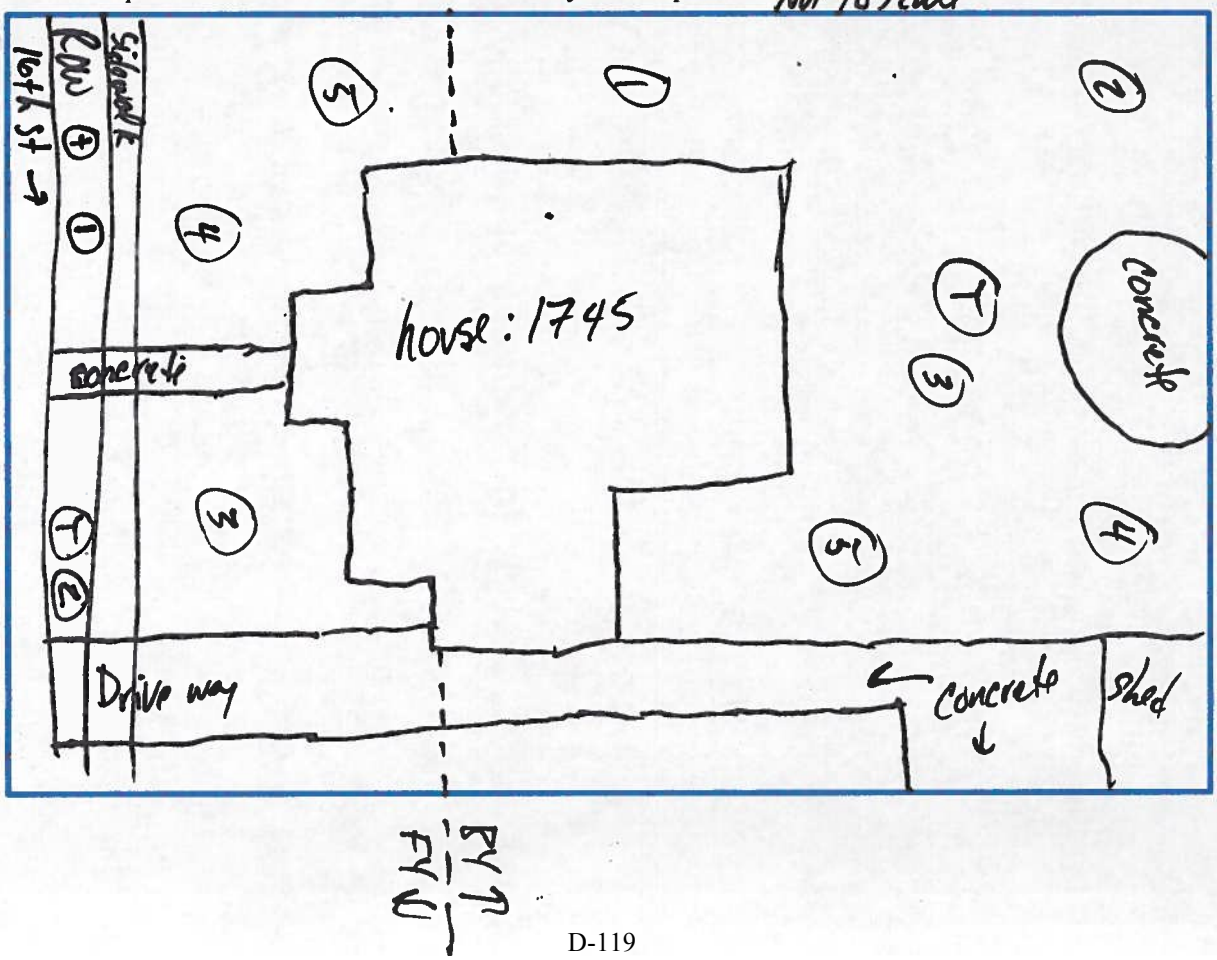
PROPERTY ADDRESS: 1745 W 16th St	STATION ID: WTRP-48

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-48-SF-FY	WT-RP-48-SF-BY	WT-RP-48-SB-FY	WT-RP-48-SB-BY
Sample Date	3/1/12	3/1/12	3/1/12	3/1/12
Sample Time	0845	0850	0850	0900
Sampler Name	KW	KW	LS	LS

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

(T) = tree
(#) = aliquot



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

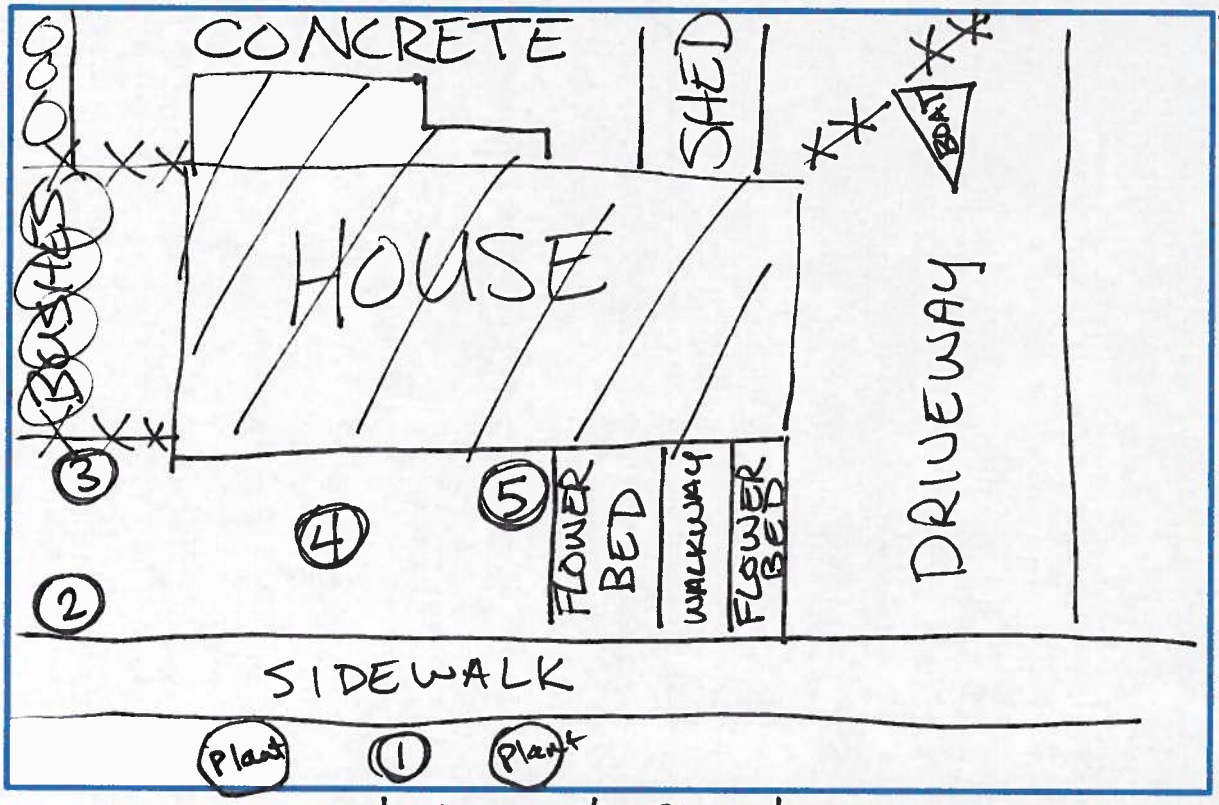
PROPERTY ADDRESS: 1750 West 16th Street	**STATION ID:** WTRP-49

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	WT-RP-49-SF-FY	WT-RP-49-SF-BY	WT-RP-49-SB-FY	WT-RP-49-SB-BY
Sample Date	2/29/12			
Sample Time	1651		1657	
Sampler Name	Robinson		Robinson	

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 369-377



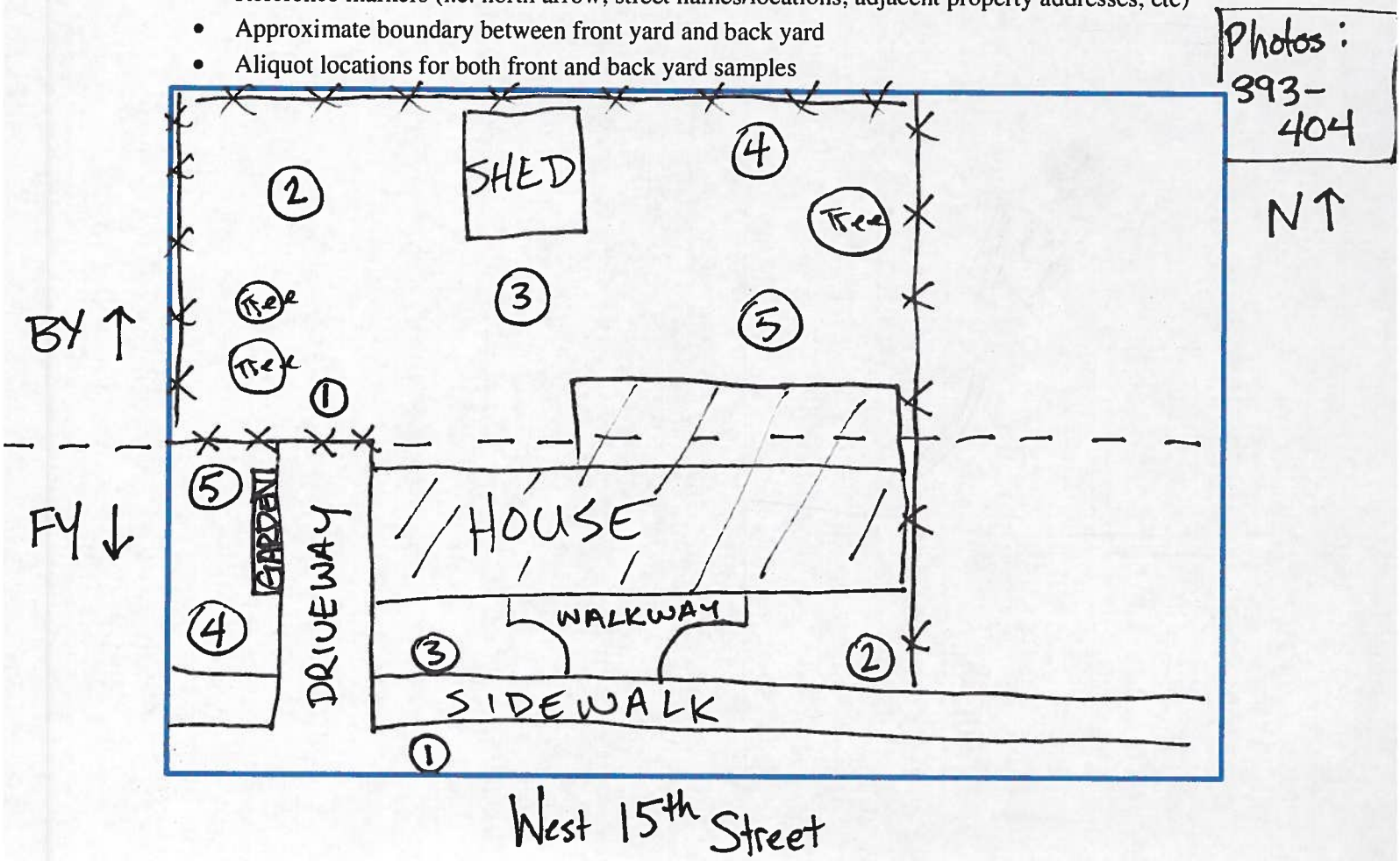
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1757 West 15th Street	**STATION ID:** WTRP-50

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	WT-RP-50-SF-FY	WT-RP-50-SF-BY	WT-RP-50-SB-FY	WT-RP-50-SB-BY
Sample Date	3/01/12 →			→
Sample Time	0911	0929	0919	0945
Sampler Name	Robinson →			→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1756 West 15th St.	STATION ID: WTRP- 51

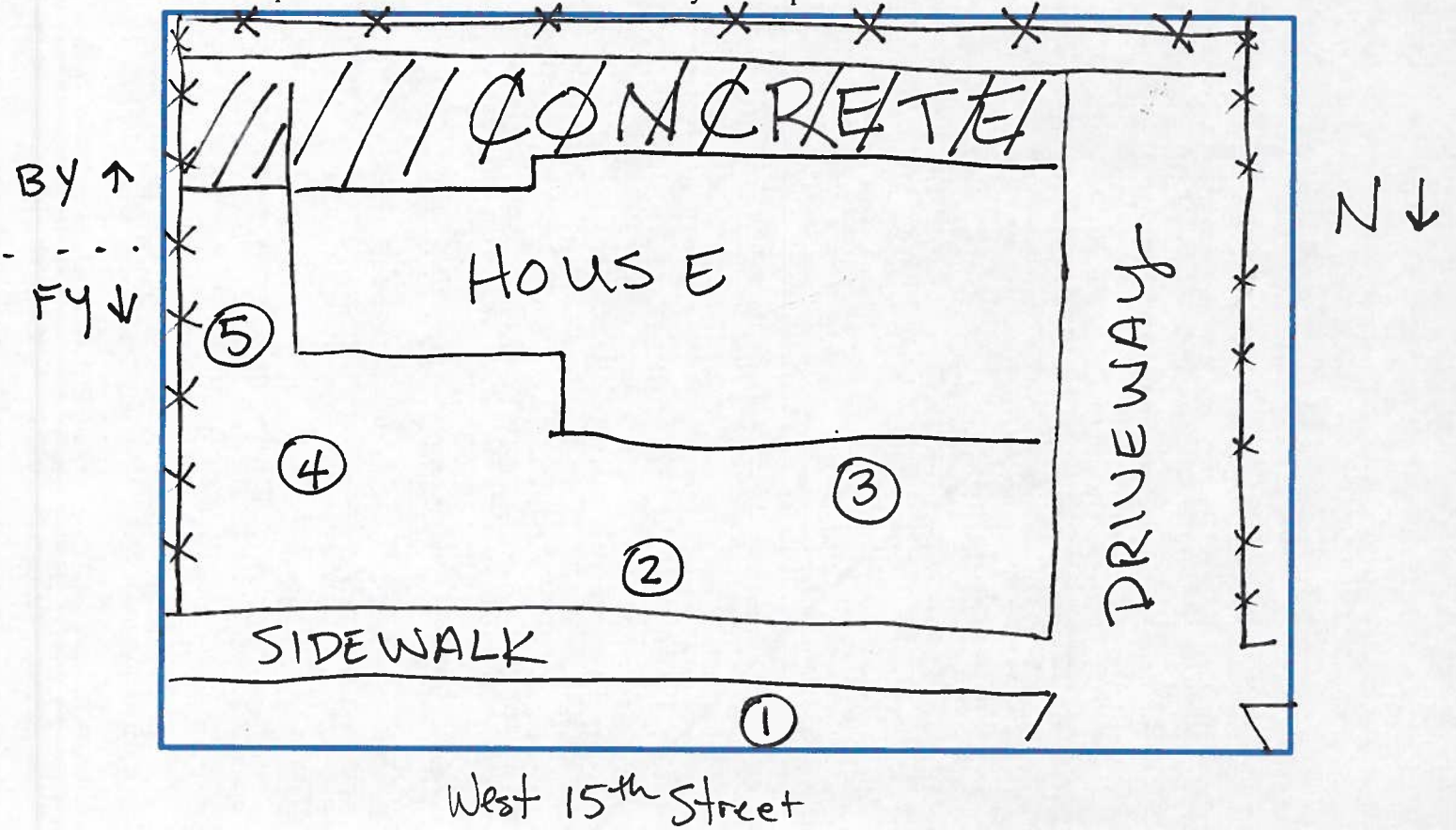
SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-51-SF-FY	WT-RP-51-SF-BY	WT-RP-51-SB-FY	WT-RP-51-SB-BY
Sample Date	2/28/12			
Sample Time	1058		1109	
Sampler Name	Robinson from Jones		Jones	

No place to collect BY sample

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 261-268



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

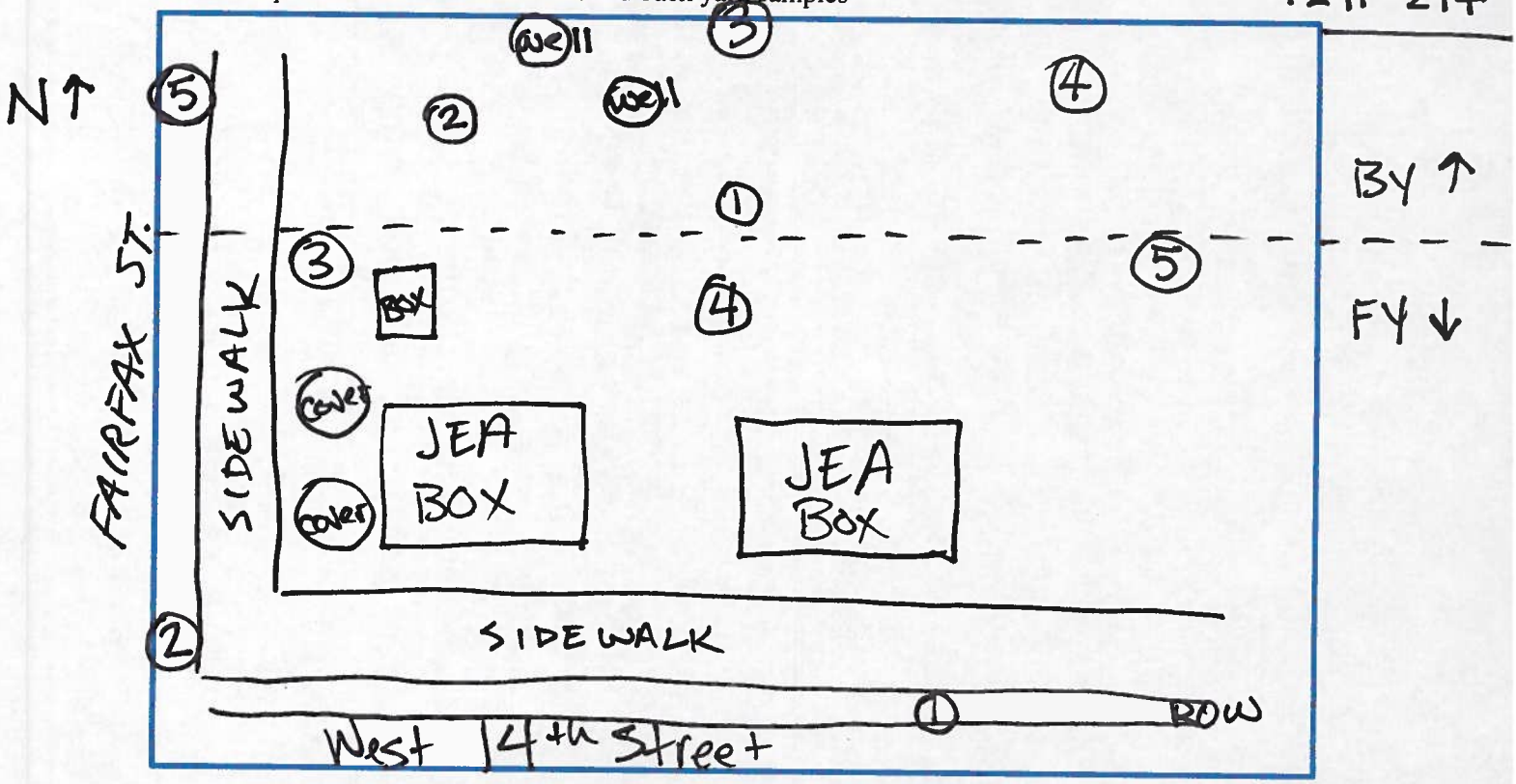
PROPERTY ADDRESS: 2409 Fairfax Street	STATION ID: WTRP- 52

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-52-SF-FY	WT-RP-52-SF-BY	WT-RP-52-SB-FY	WT-RP- -SB-BY
Sample Date	2/27/12	2/27/12		
Sample Time	1608	1607		
Sampler Name	Krome, Robinson, Jones →			

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 241 - 247



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

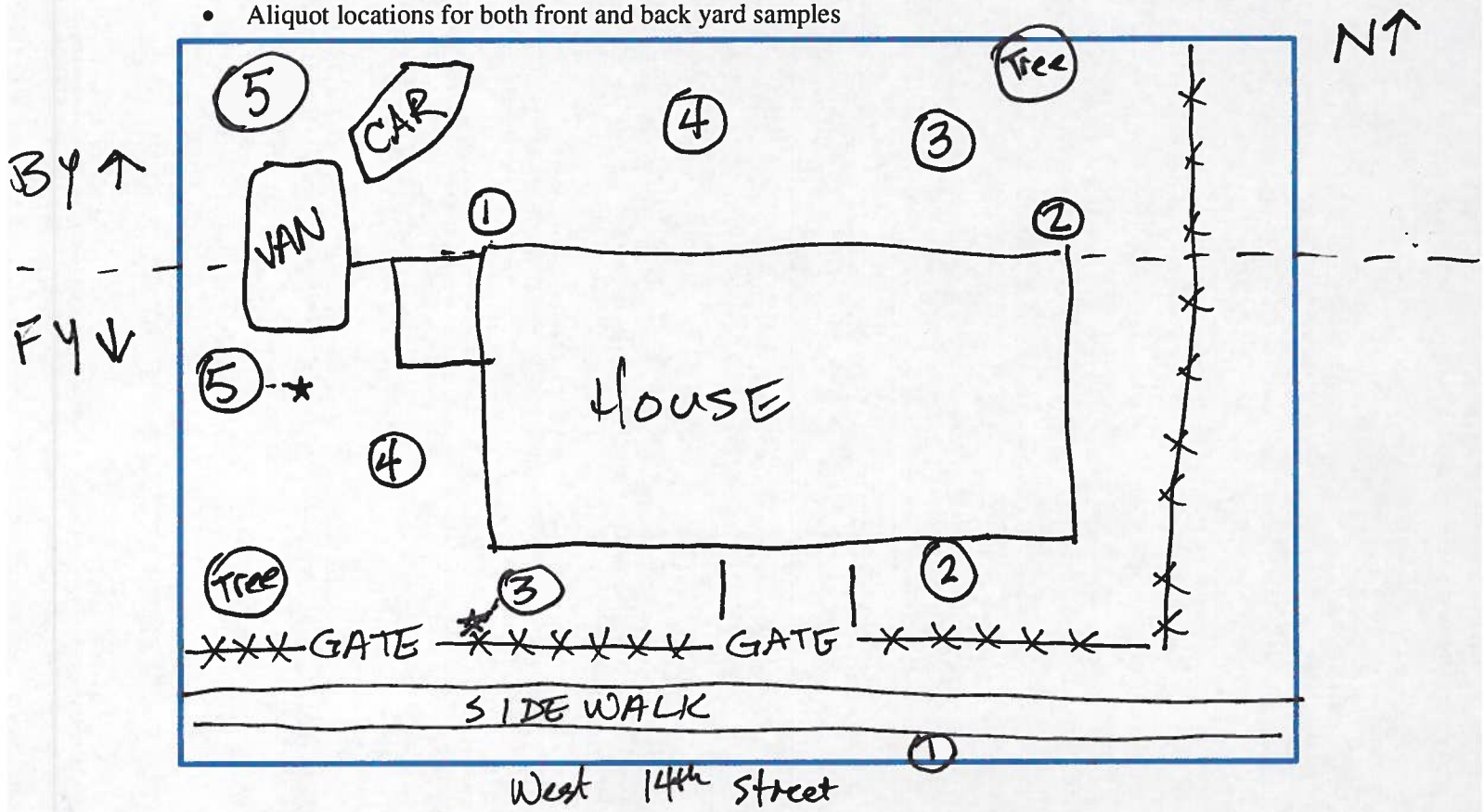
PROPERTY ADDRESS: 1757 W. 14th Street	STATION ID: WTRP- 53

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-53-SF-FY	WT-RP-53-SF-BY	WT-RP-53-SB-FY	WT-RP-53-SB-BY
Sample Date	2/28/2012	→	→	→
Sample Time	0913	0946	0930	0958
Sampler Name	Robinson Krone	→	→	→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 248-254



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

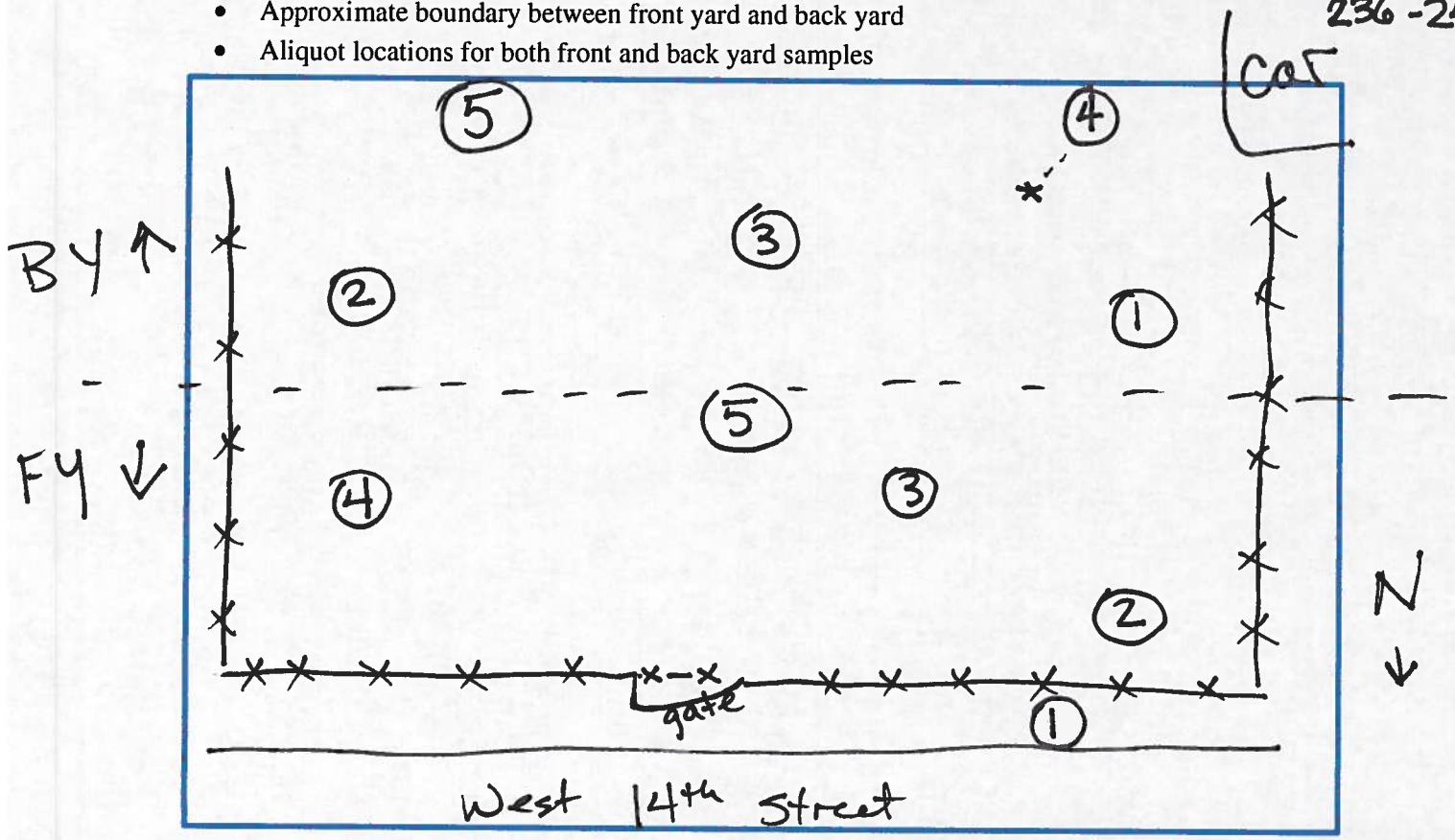
PROPERTY ADDRESS: 1756 W 14th Street	STATION ID: WTRP- 54

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-54-SF-FY	WT-RP-54-SF-BY	WT-RP-54-SB-FY	WT-RP-54-SB-BY
Sample Date	2/27/12	2/27/12	2/27/12	2/27/12
Sample Time	1516	1536	1524	1550
Sampler Name	Kromer Robinson Jones	→	→	→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

PHOTOS: 236-240



*: offset of SB-BY #4 aliquot, ~4 feet

RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

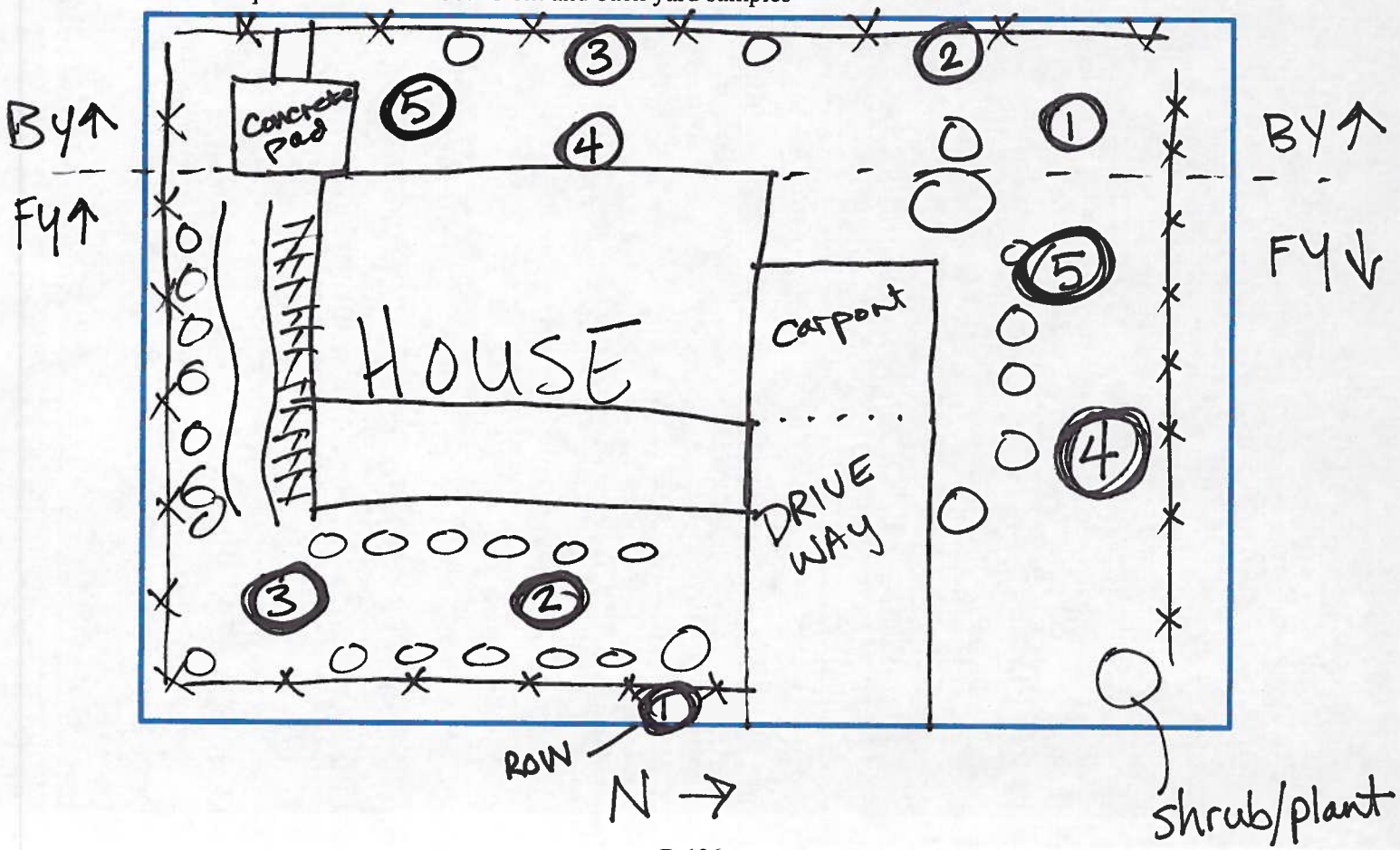
PROPERTY ADDRESS: 2316 Fairfax Street	STATION ID: WTRP-55

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-55SF-FY	WT-RP-55-SF-BY	WT-RP-55SB-FY	WT-RP-55-SB-BY
Sample Date	2/27/12	2/27/12	2/27/12	2/27/12
Sample Time	1124	1154	1138	1210
Sampler Name	Krome/Robnison	→	→	→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 222 - 231



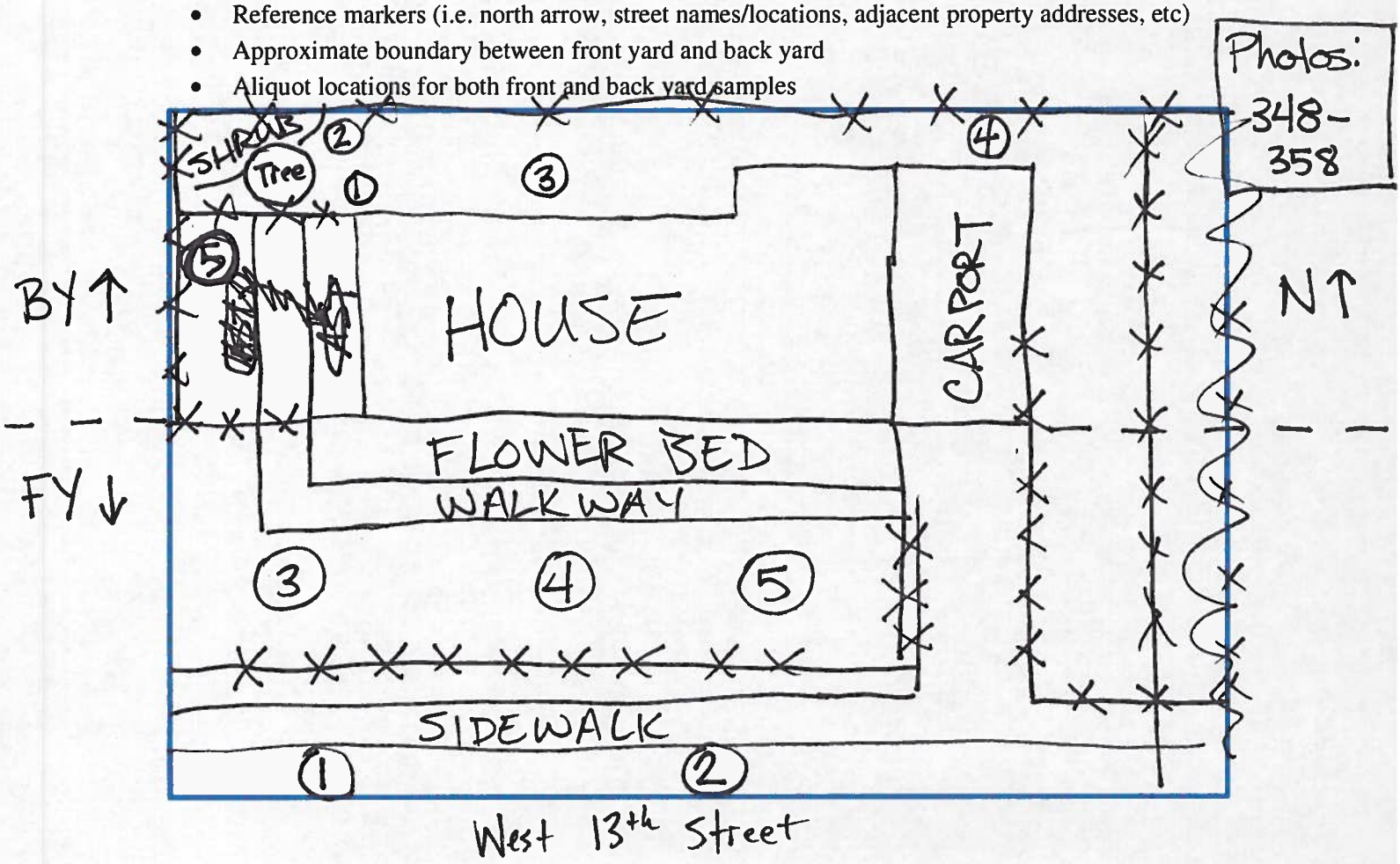
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1811 West 13th Street	STATION ID: WTRP-57

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-57-SF-FY	WT-RP-57-SF-BY	WT-RP-57-SB-FY	WT-RP-57-SB-BY
Sample Date	2/29/12 →			
Sample Time	1456	1513	1501	1521
Sampler Name	Robinson →			

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

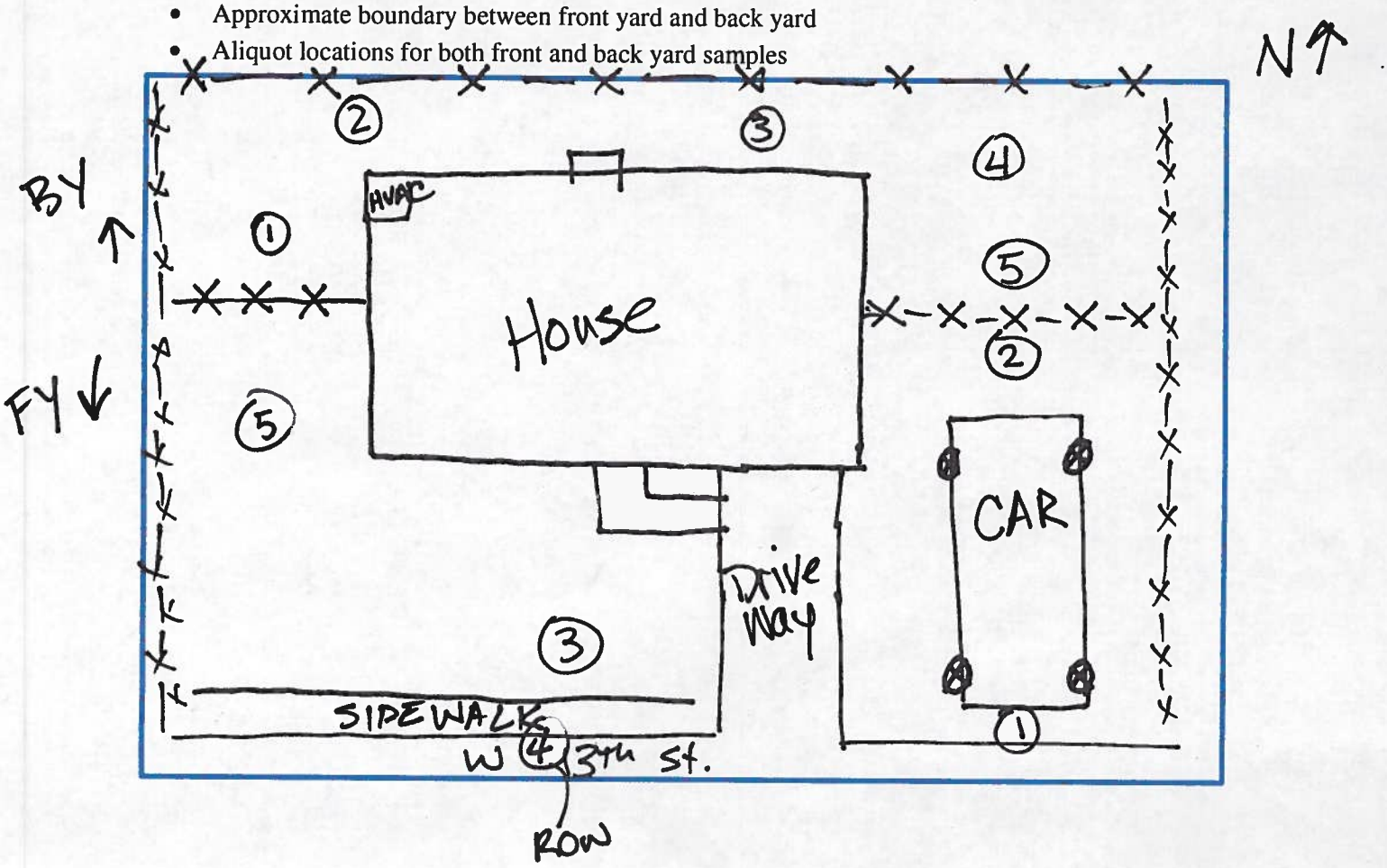
PROPERTY ADDRESS: 1825 W 13th St.	STATION ID: WTRP-59

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-59-SF-FY	WT-RP-59-SF-BY	WT-RP-59-SB-FY	WT-RP-59-SB-BY
Sample Date	2/27	2/27	2/27	2/27 2012
Sample Time	-FY 0858 / -FY-DUP 0927	0940 ~~0941~~	0916	0957
Sampler Name	Krome Croft	Krome/Croft ~~Croft~~ Robinson	Krome/Robinson ~~HR~~ Croft	Krome/Robinson

Photos 207 - 213

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries. driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

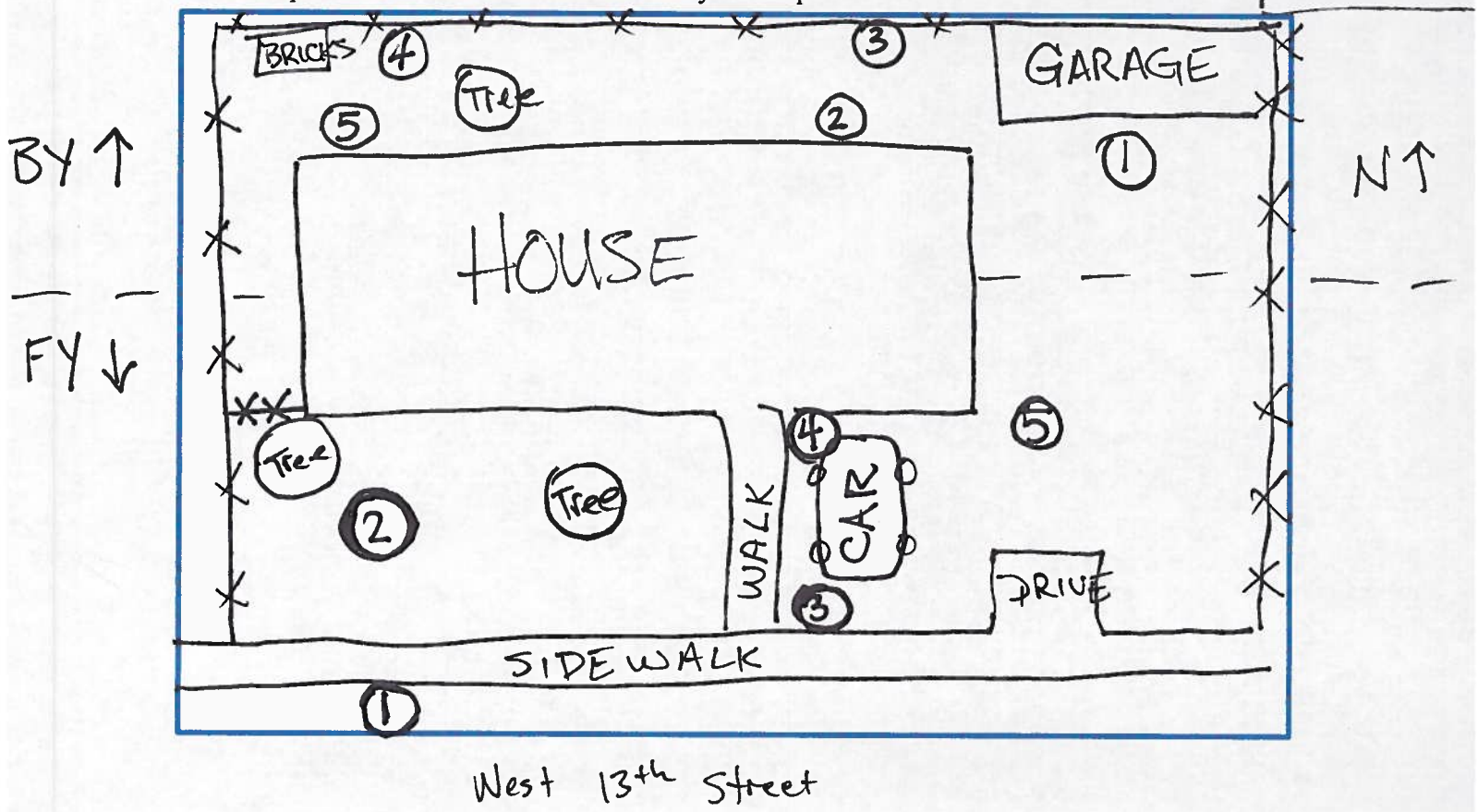
PROPERTY ADDRESS: 1831 West 13th Street	STATION ID: WTRP-60

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-60-SF-FY	WT-RP-60-SF-BY	WT-RP-60-SB-FY	WT-RP-60-SB-BY
Sample Date	2/29	→	→	→
Sample Time	0938	1000	0947	1010
Sampler Name	Robinson	→	→	→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 317-325



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

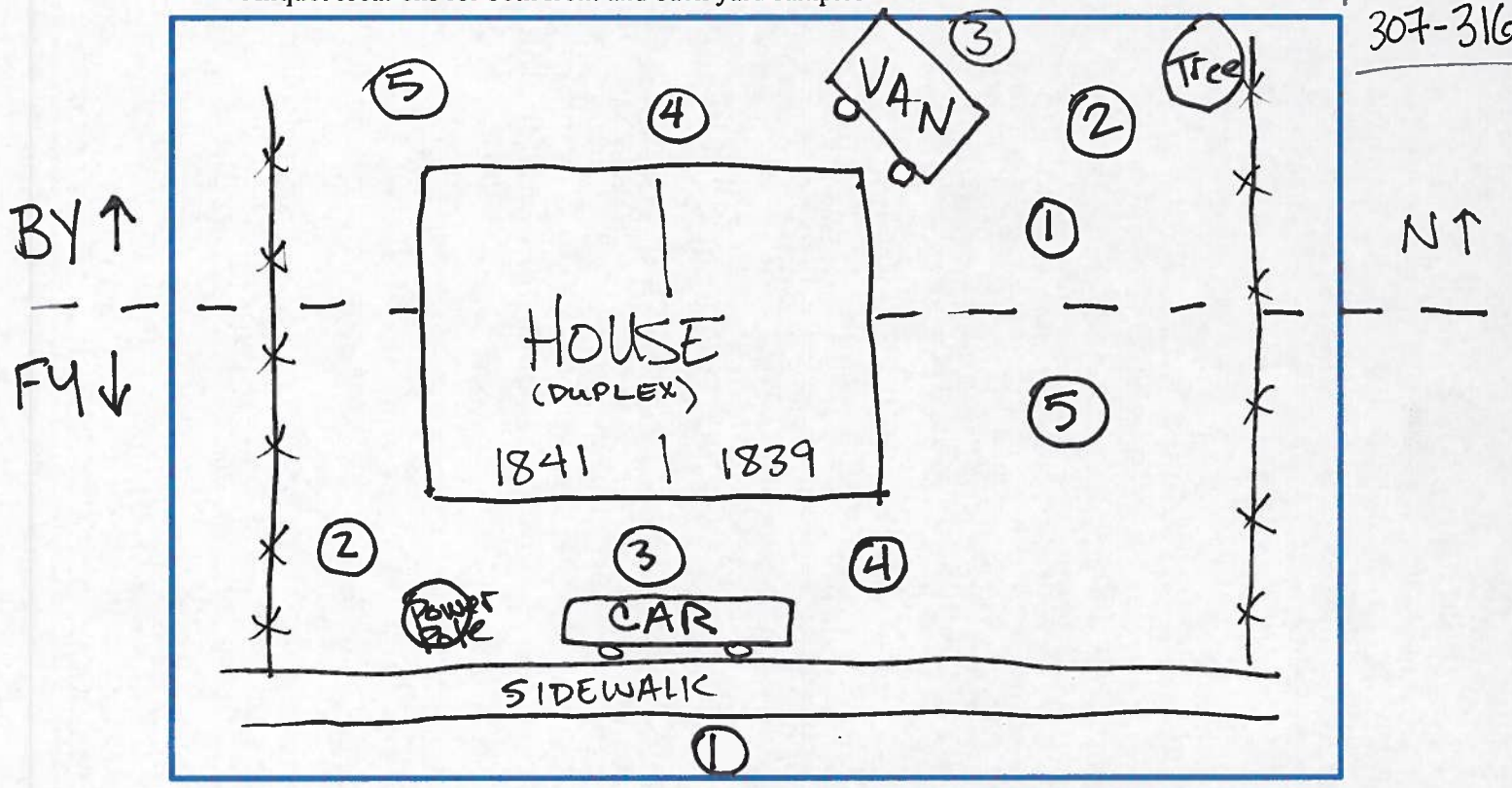
PROPERTY ADDRESS: 1839 West 13th Street	STATION ID: WTRP- 61

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-61-SF-FY	WT-RP-61-SF-BY	WT-RP-61-SB-FY	WT-RP-61-SB-BY
Sample Date	2/29/12	→	→	→
Sample Time	0846	0900	0853	0910
Sampler Name	Robinson	Robinson	Robinson	Robinson

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 307-316



West 13th Street

RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

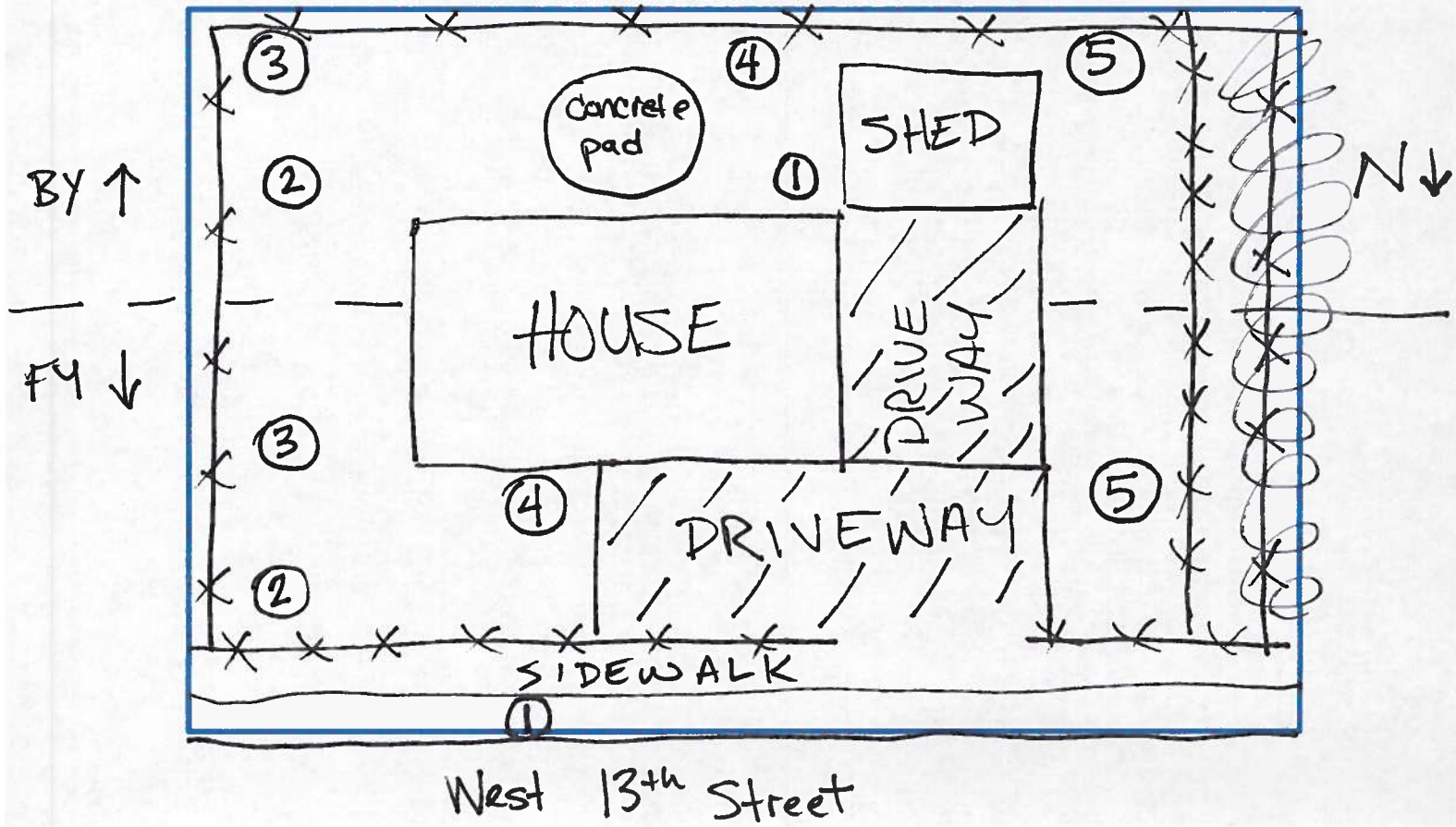
PROPERTY ADDRESS: 1828 N. 13th Street	STATION ID: WTRP- 63

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-63-SF-FY	WT-RP-63-SF-BY	WT-RP-63-SB-FY	WT-RP-63-SB-BY
Sample Date	2/29 →			→
Sample Time	1054	1106	1100	1115
Sampler Name	Robinson	→	→	→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 326-337



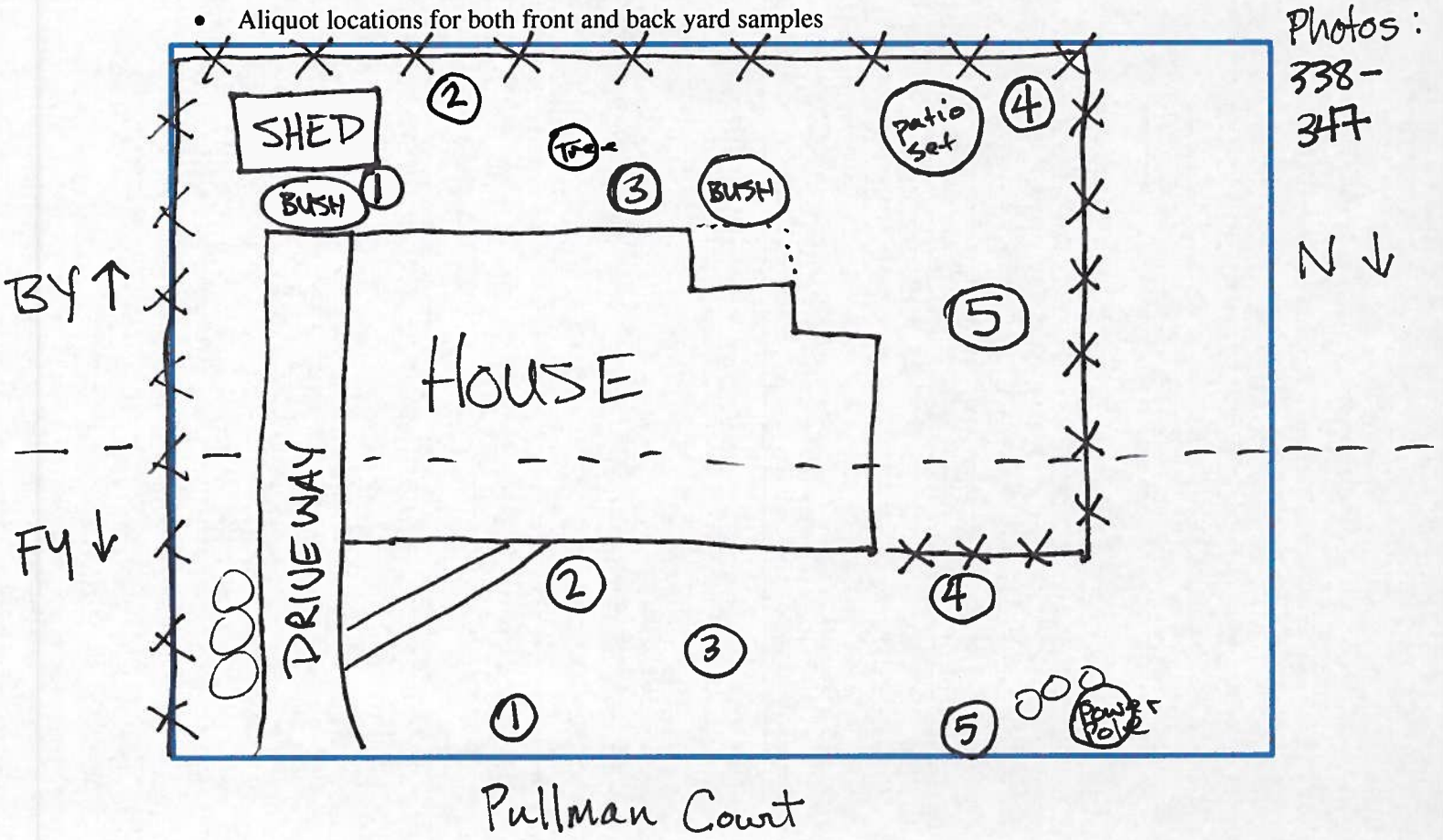
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1916 Pullman Court	STATION ID: WTRP-64

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-64-SF-FY	WT-RP-64-SF-BY	WT-RP-64-SB-FY	WT-RP-64-SB-BY
Sample Date	2/29 →			
Sample Time	1402	1415	1406	1424
Sampler Name	Robinson →			

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

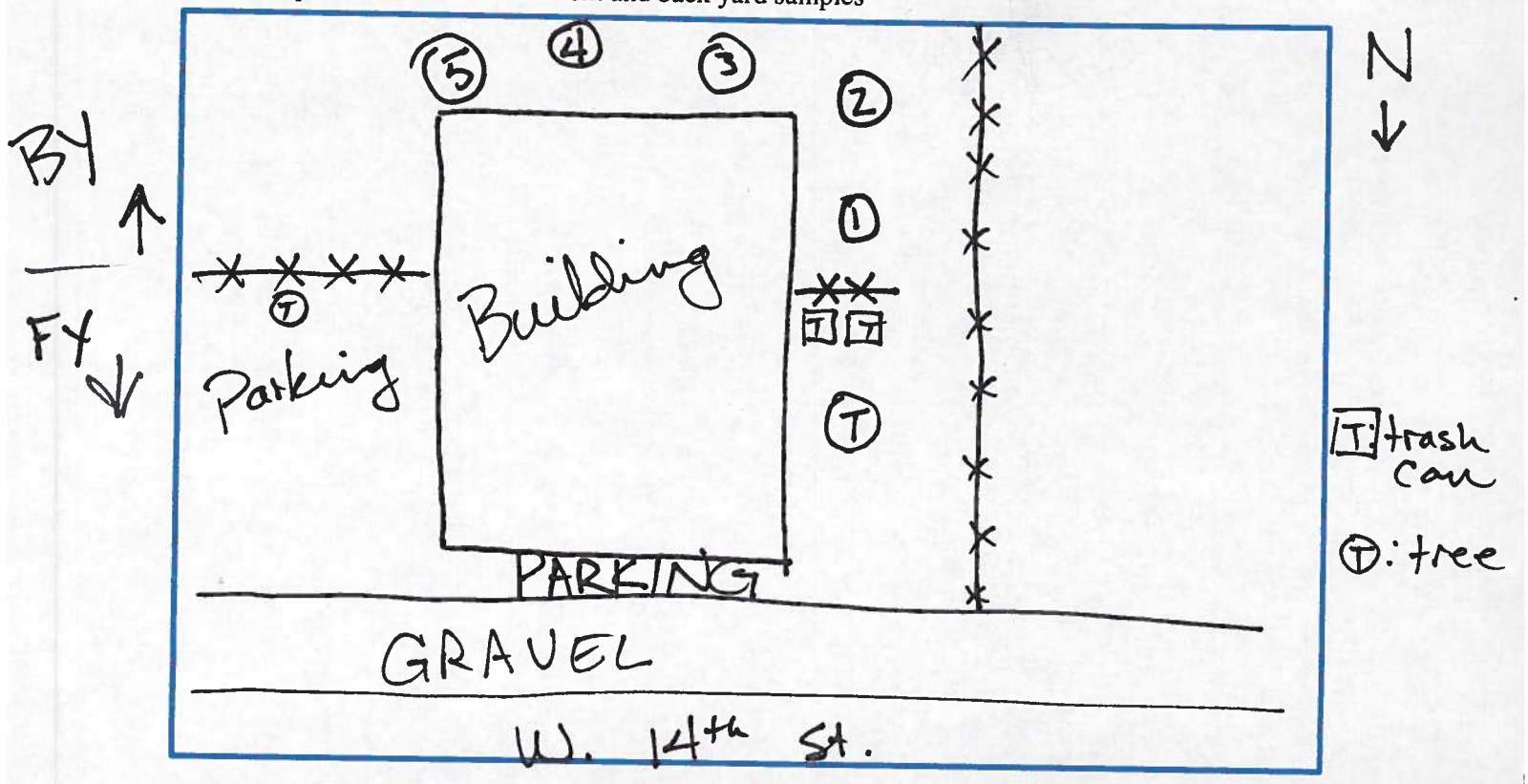
PROPERTY ADDRESS: 1824 W. 14th Street	**STATION ID:** WTRP-66

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	WT-RP- -SF-FY	WT-RP-66-SF-BY	WT-RP- -SB-FY	WT-RP-66-SB-BY
Sample Date		2/27/12		2/27/12
Sample Time		1033		1053
Sampler Name		Krome/Robinson		Krome/Robinson

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos 214-221



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

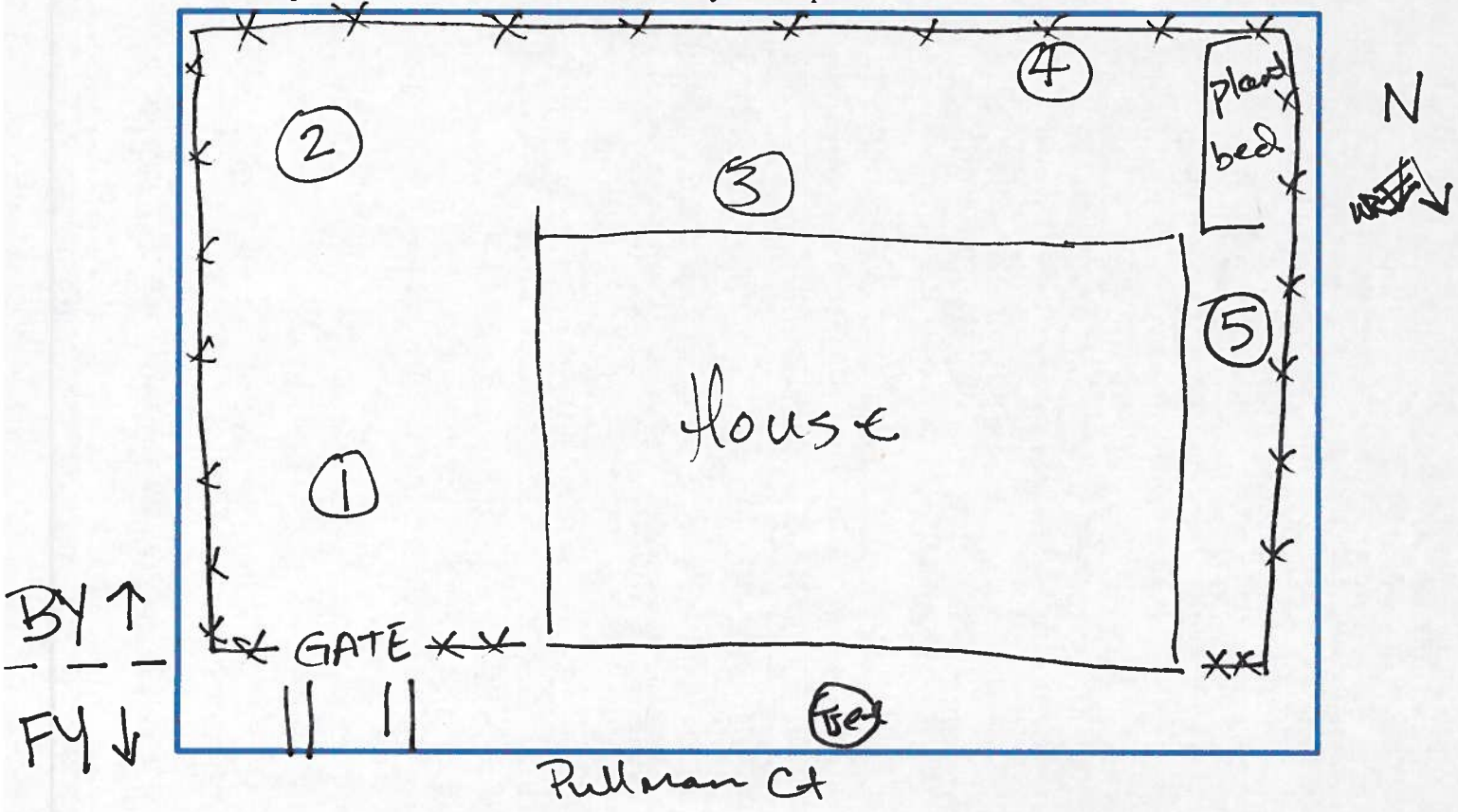
PROPERTY ADDRESS: 1924 Pullman Ct.	STATION ID: WTRP- 67

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP- -SF-FY	WT-RP-67-SF-BY	WT-RP- -SB-FY	WT-RP-67-SB-BY
Sample Date		2/28/12		2/28/12
Sample Time		1018		1026
Sampler Name		Robinson Klone Jones		Robinson Klone Jones

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 255-260



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

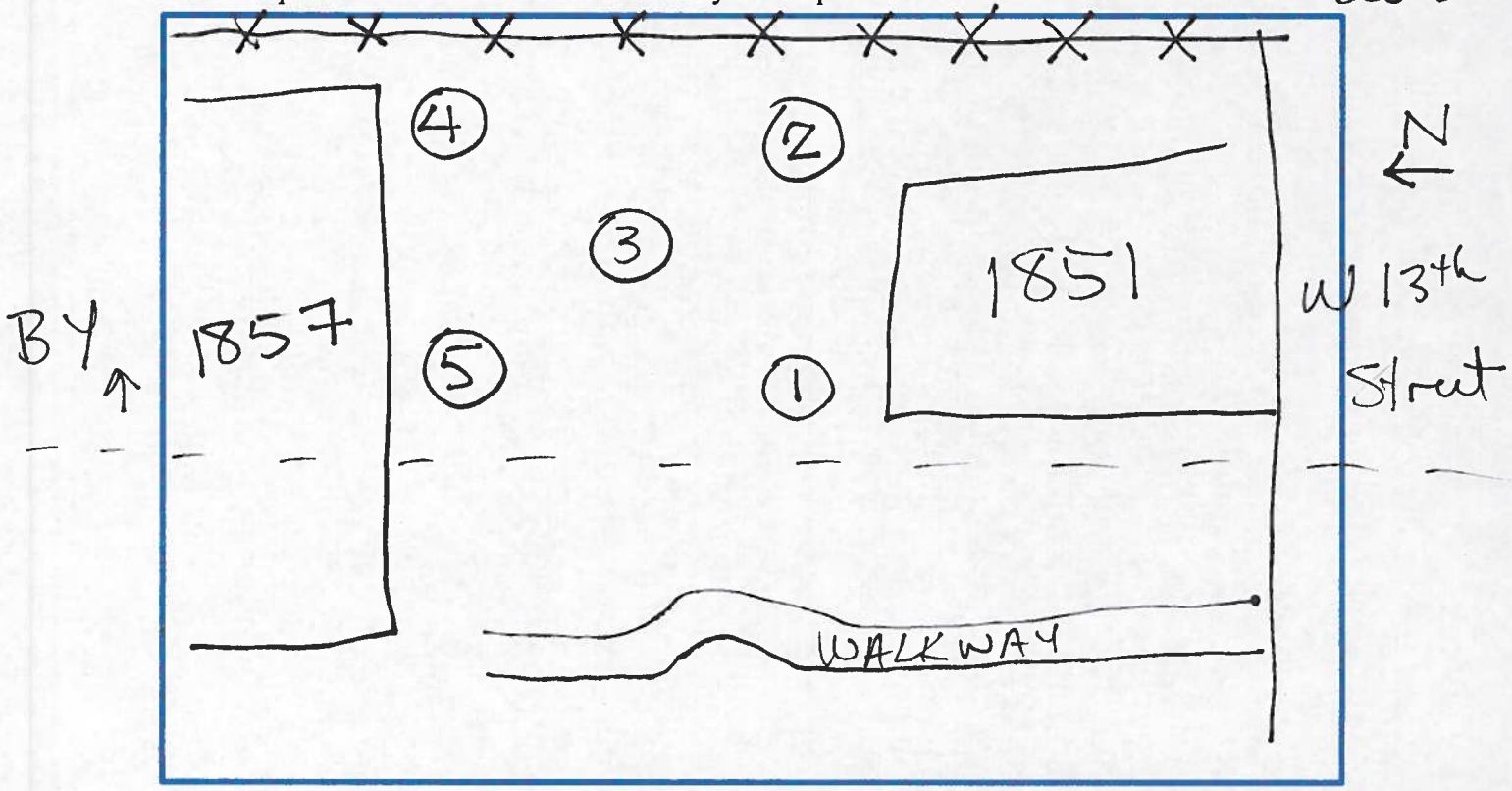
PROPERTY ADDRESS: 1851 W. 13th Street	**STATION ID:** WTRP-68

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	WT-RP- -SF-FY	WT-RP-68 -SF-BY -DUP	WT-RP- -SB-FY	WT-RP-68 -SB-BY
Sample Date		2/29		2/29
Sample Time		-68 / -DUP 0758 / 0817		0809
Sampler Name		-68 / -DUP Robinson / Robinson		Robinson

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos 300-306



Backyard samples only

RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

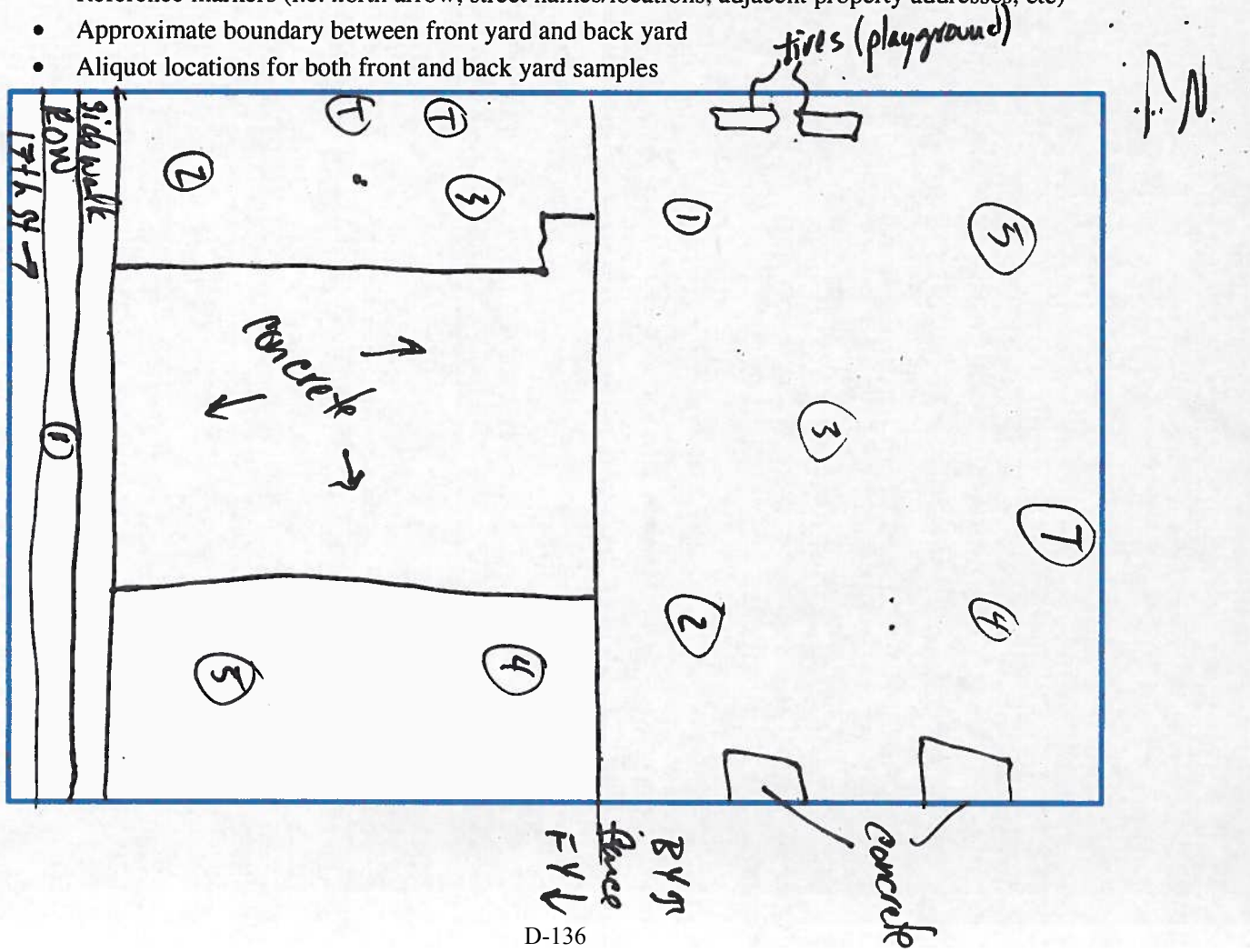
PROPERTY ADDRESS: 0 W17th St East of 1766 W 17th St	STATION ID: WTRP- 69

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-69-SF-FY	WT-RP-69-SF-BY	WT-RP-69-SB-FY	WT-RP-69-SB-BY
Sample Date	3/1/12	3/1/12	3/1/12	3/1/12
Sample Time	0755	0805	0805	0815
Sampler Name	KW	KW	LS	LS

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

(T)=tree



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

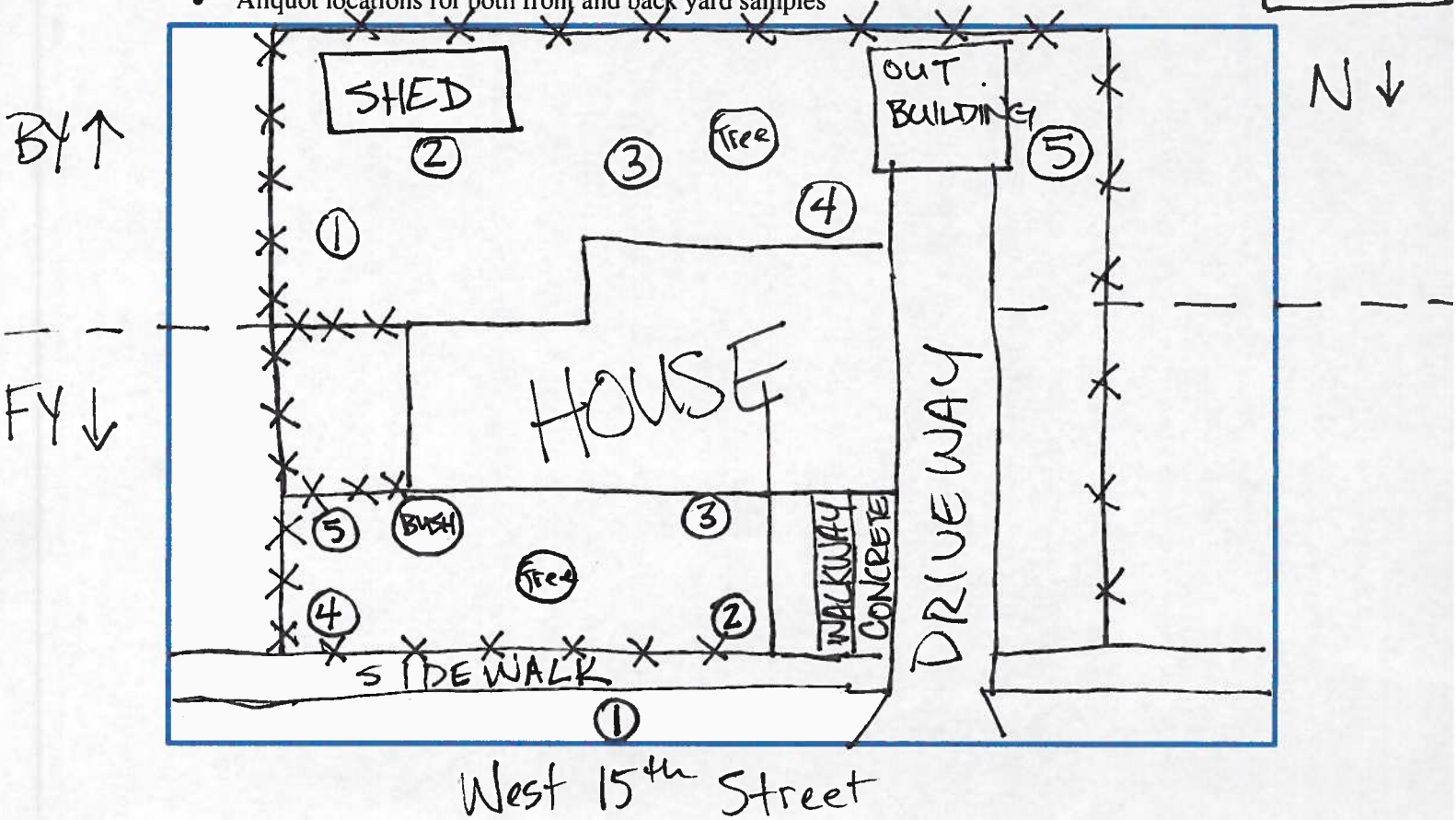
PROPERTY ADDRESS: 1750 West 15th Street	STATION ID: WTRP-70

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-~~70~~SF-FY -DUP	WT-RP-~~70~~SF-BY	WT-RP-~~70~~SB-FY	WT-RP-~~70~~-SB-BY
Sample Date	~~WR-70~~ 3/1/12 →			→
Sample Time	-70 0818 / -DUP 0832	0837	0826	0844
Sampler Name	-70 Robinson / -DUP →			→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 378-392



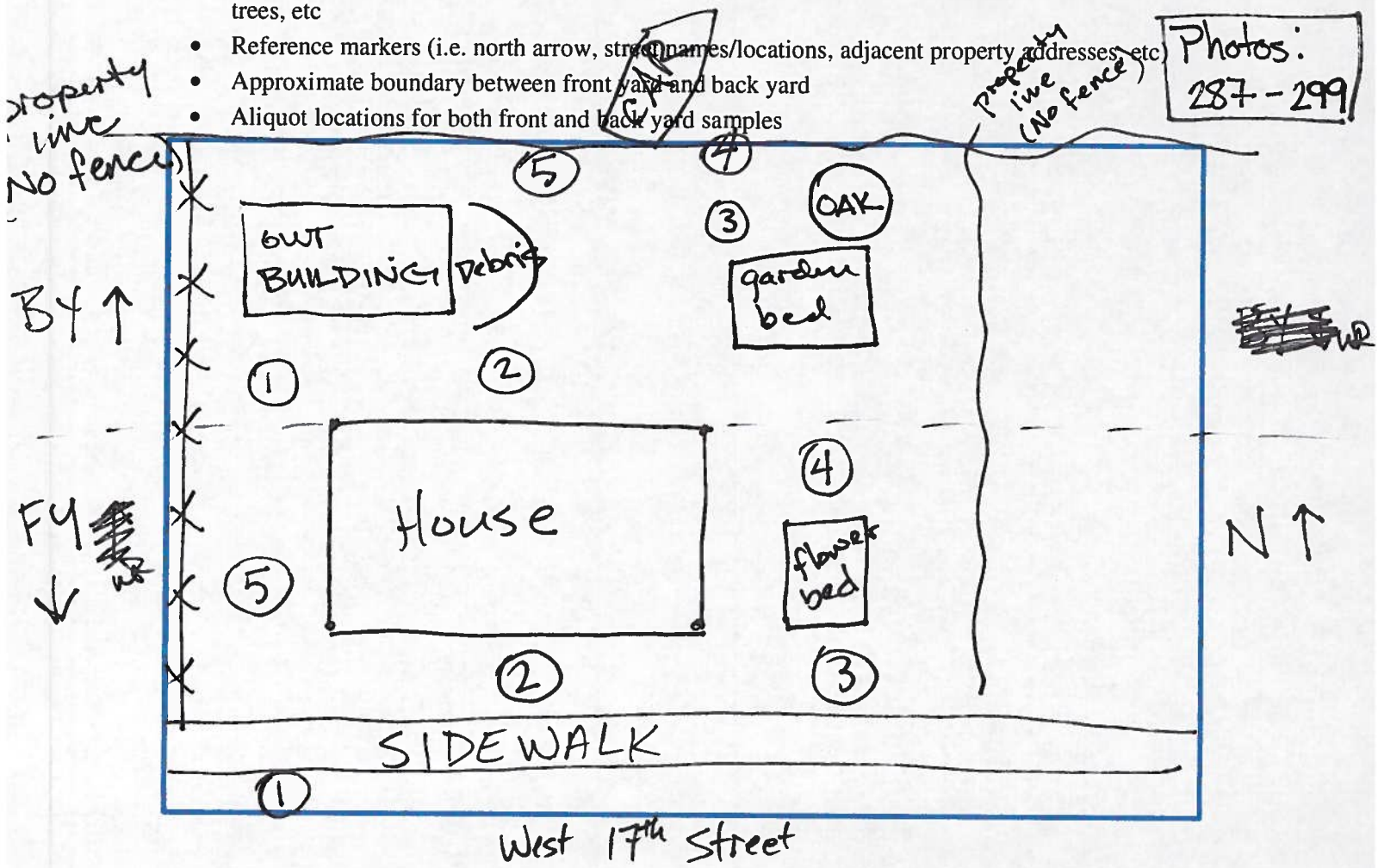
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1745 West 17th St.	STATION ID: WTRP- 71

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-71-SF-FY	WT-RP-71-SF-BY	WT-RP-71-SB-FY	WT-RP-71-SB-BY
Sample Date	2/28/12	→	→	→
Sample Time	1550	1617	1558	1632
Sampler Name	Robinson	Robinson	Robinson	Robinson

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

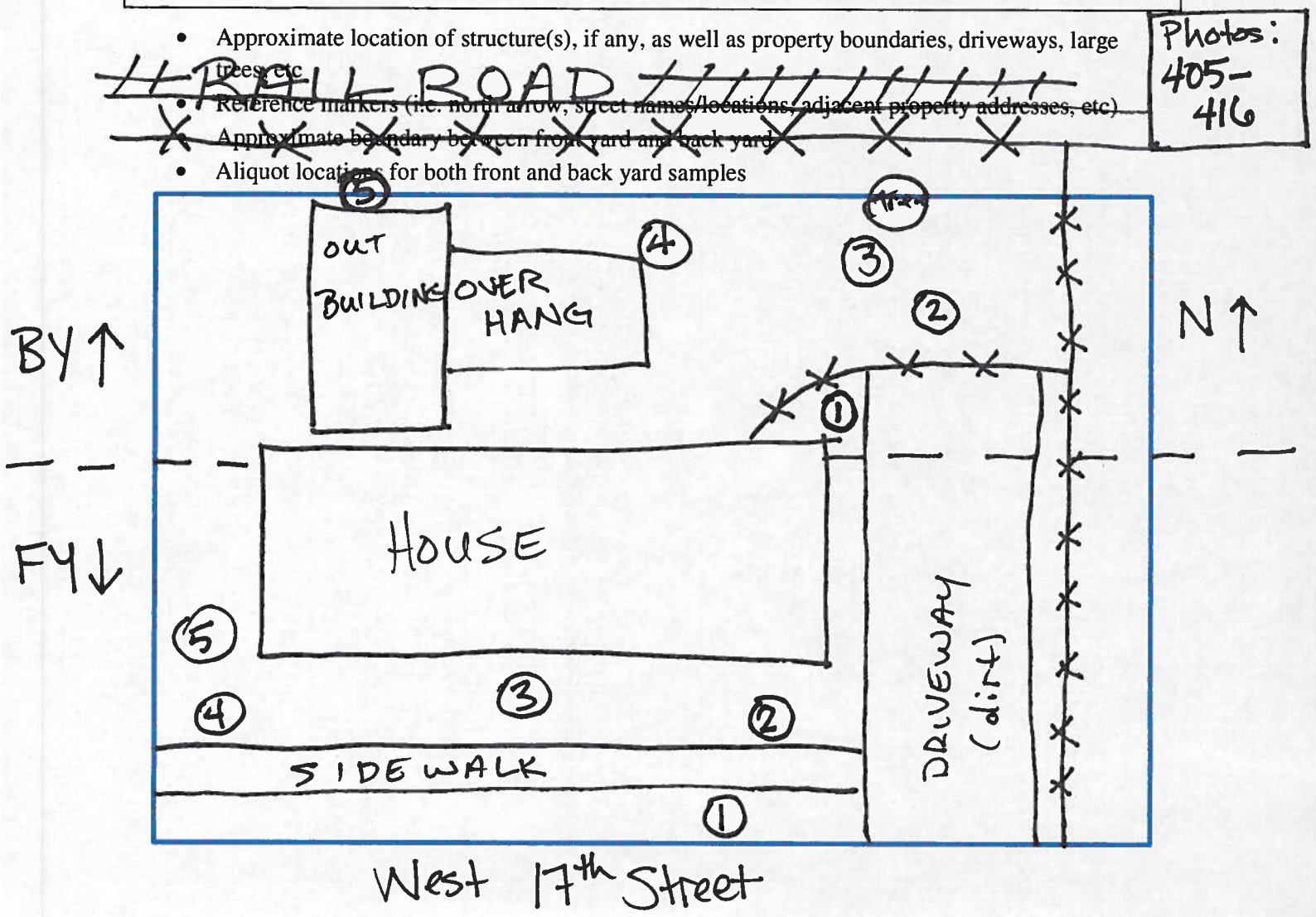
PROPERTY ADDRESS: 1739 West 17th Street	STATION ID: WTRP- 72

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-72-SF-FY	WT-RP-72-SF-BY	WT-RP-72-SB-FY	WT-RP-72-SB-BY
Sample Date	3/01/12 →			→
Sample Time	1019	1027	1022	1037
Sampler Name	Robinson →			→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc.
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 405-416



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

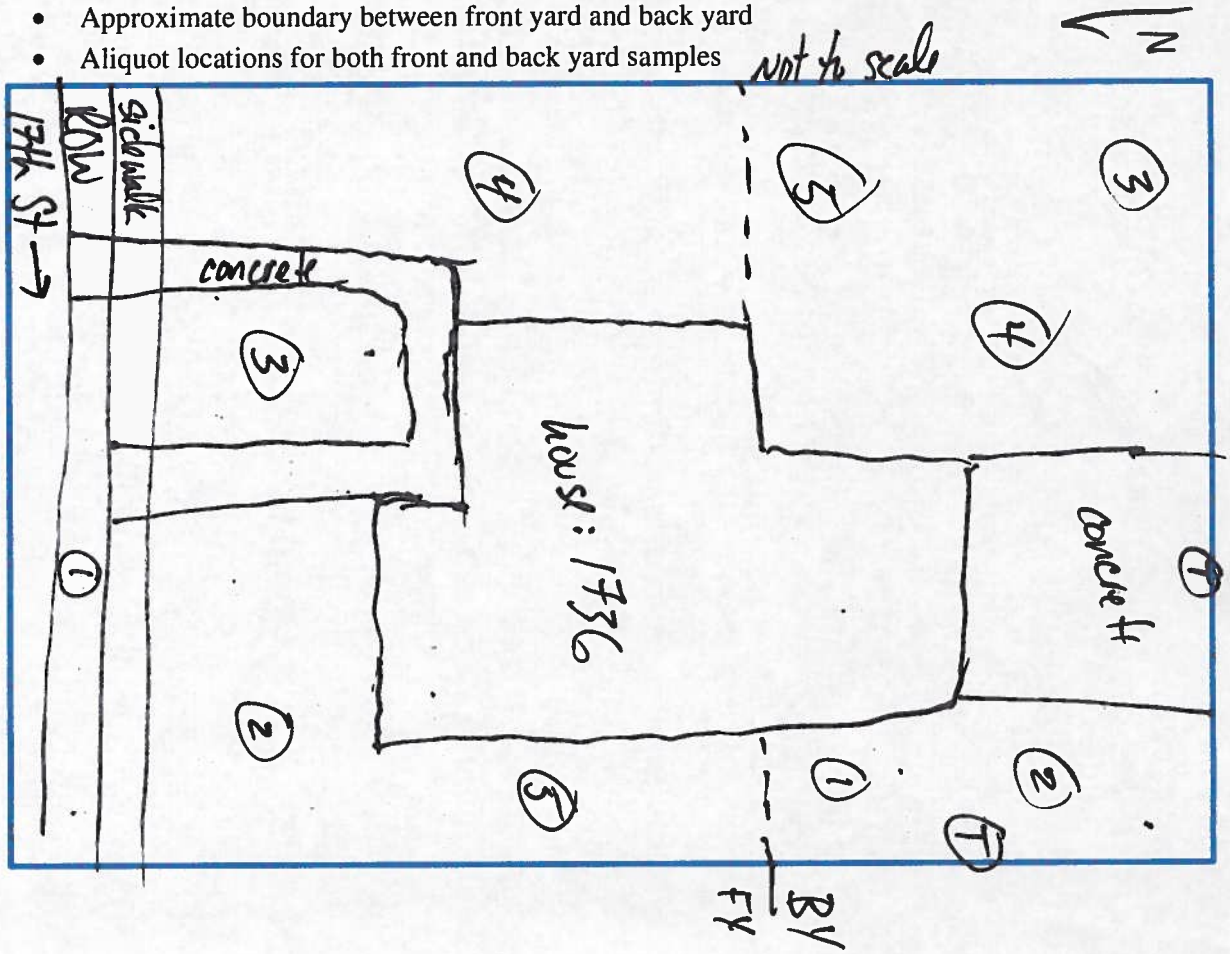
PROPERTY ADDRESS: 1736 W 17th St	STATION ID: WTRP- 73

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-~~73~~-SF-FY	WT-RP-~~73~~-SF-BY	WT-RP-~~73~~-SB-FY	WT-RP-~~73~~-SB-BY
Sample Date	3/1/12	3/1/12	3/1/12	3/1/12
Sample Time	1001	1015	1010	1020
Sampler Name	KW	KW	KW	KW

SITE SKETCH (Scale is not important, but include the following whenever possible):

T:tree
#:aliquot

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

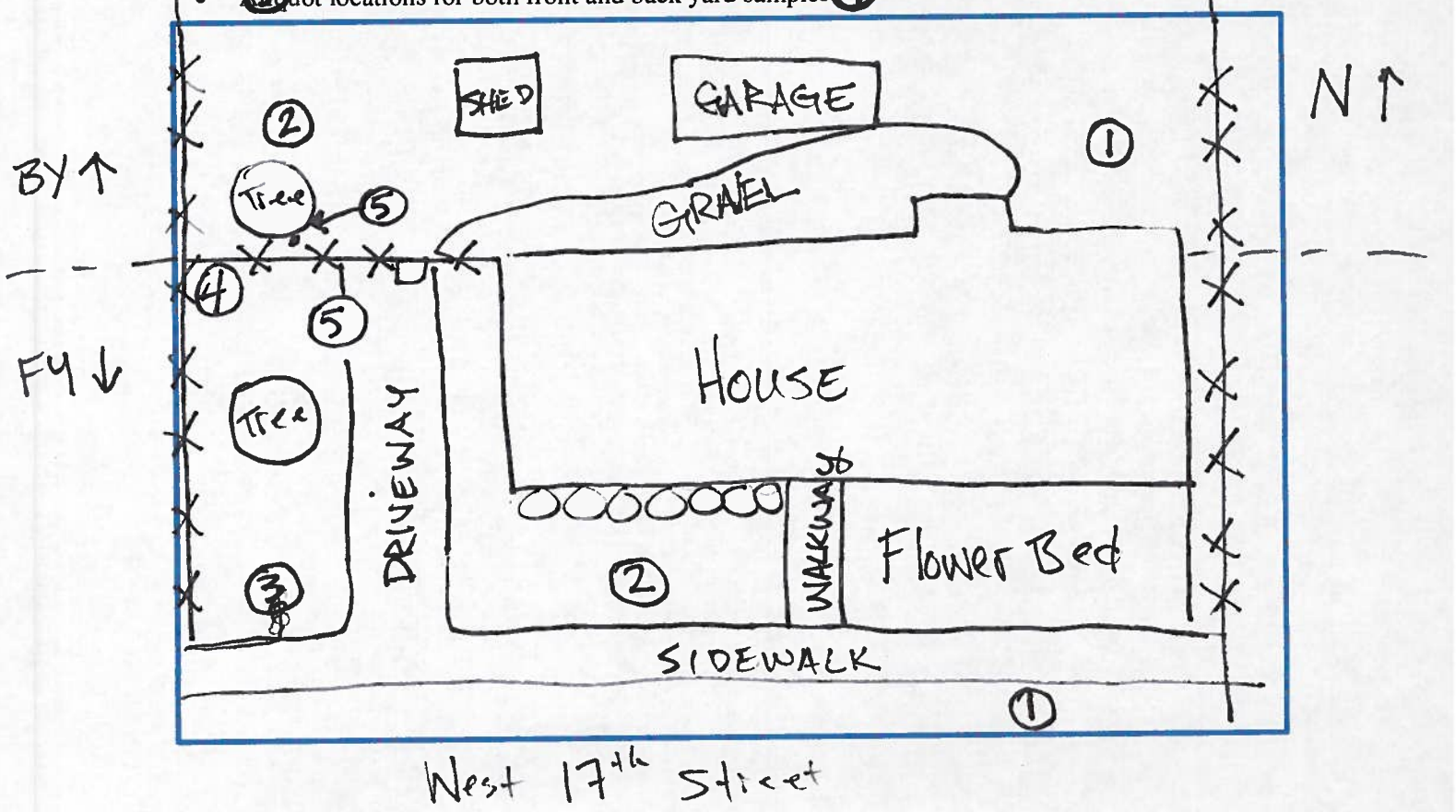
PROPERTY ADDRESS: 1725 W. 17th Street	STATION ID: WTRP-74

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-74-SF-FY	WT-RP-74-SF-BY	WT-RP-74-SB-FY	WT-RP-74-SB-BY
Sample Date	3/01/12	→	→	→
Sample Time	1535	1550	1541	1609
Sampler Name	WR Robinson KRONE	Krone	Krone	→ Krone

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 457-471



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

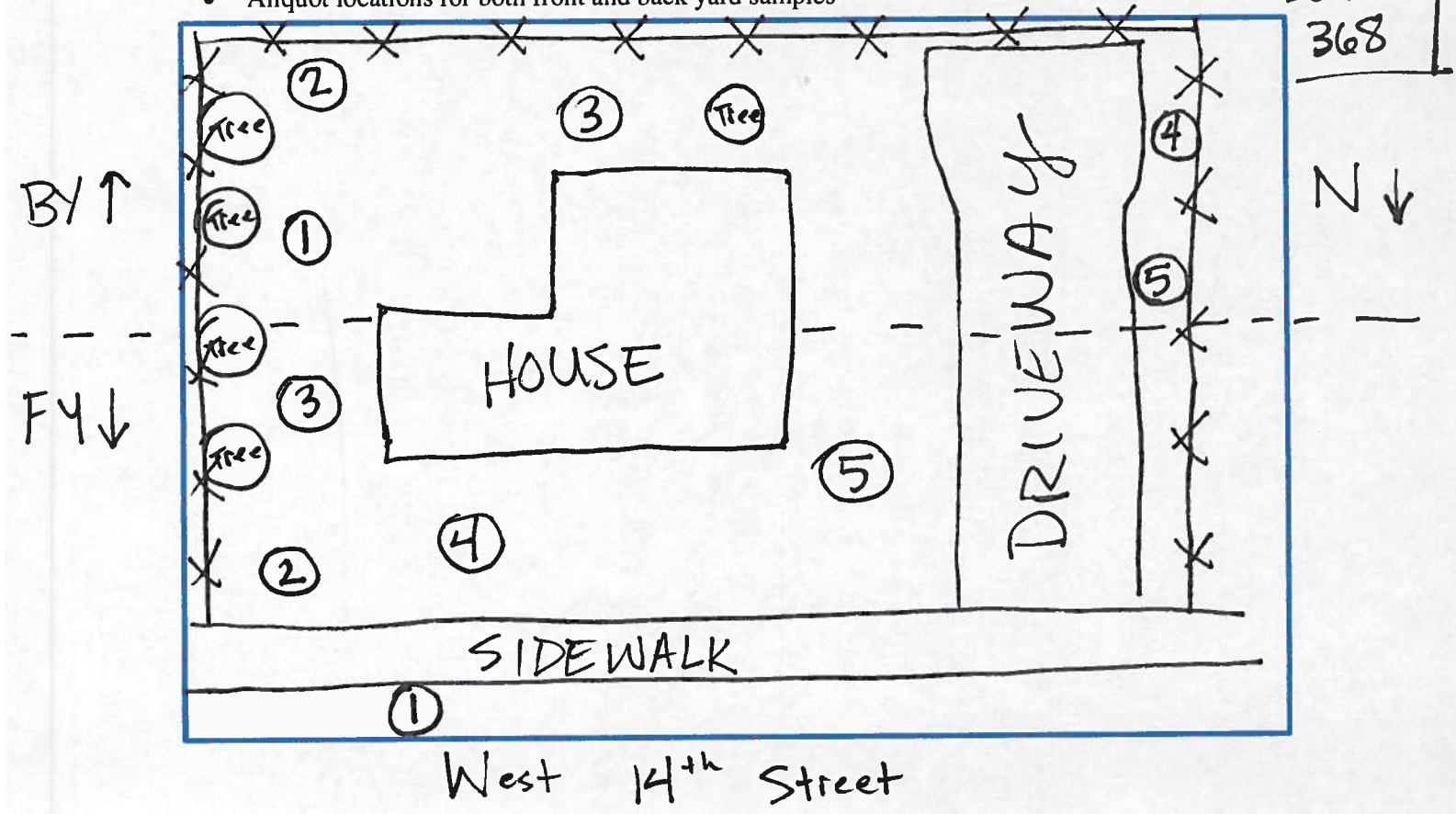
PROPERTY ADDRESS: 1750 West 14th Street	STATION ID: WTRP- 75

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-75-SF-FY	WT-RP-75-SF-BY	WT-RP-75-SB-FY	WT-RP-75-SB-BY
Sample Date	2/29/12 →			→
Sample Time	1557	1606	1601	1620
Sampler Name	Robinson →			→

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

Photos: 359 - 368



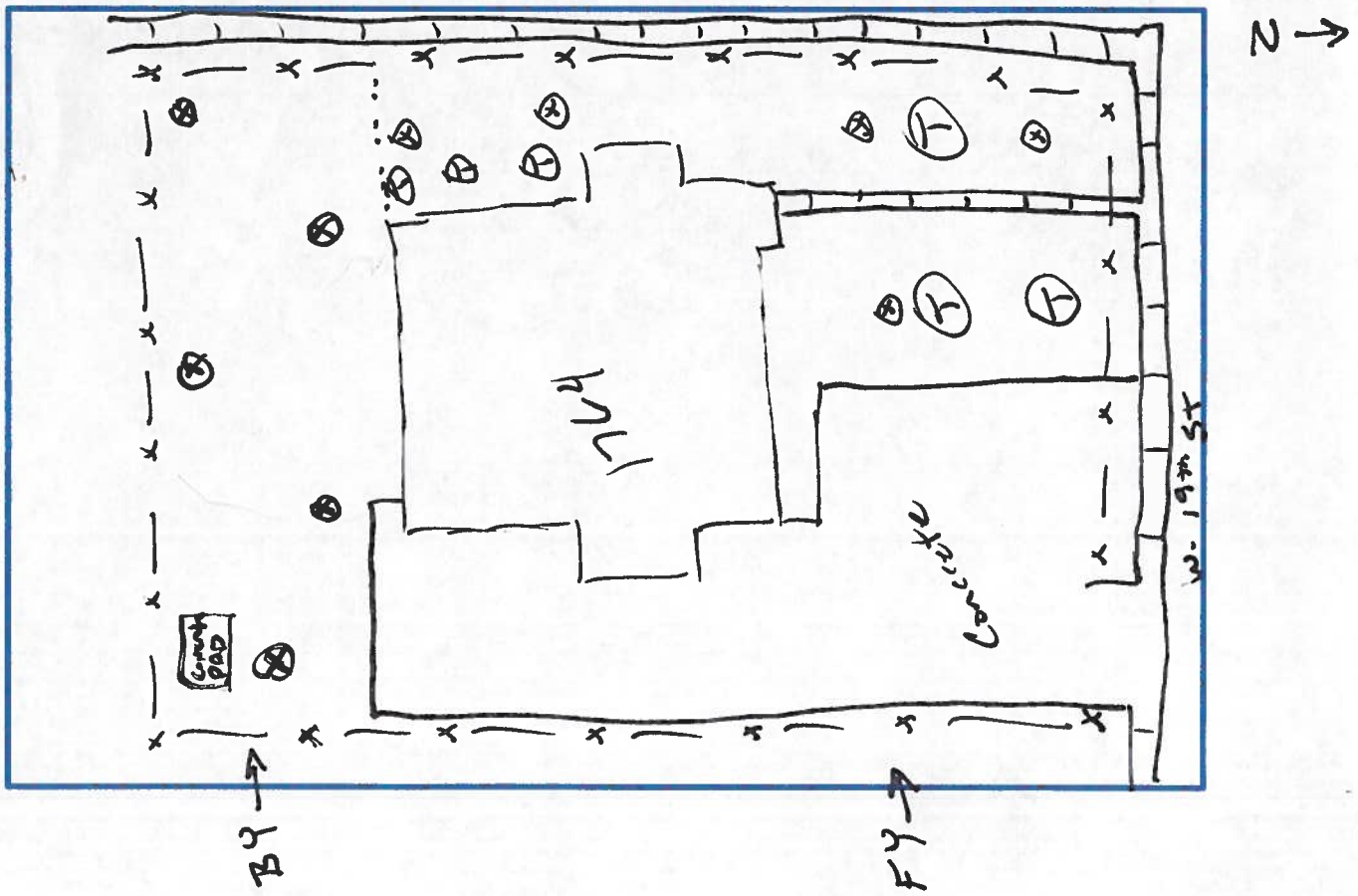
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1764 W. 19th St	STATION ID: WTRP-24

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-24-SF-FY	WT-RP-24SF-BY	WT-RP-24SB-FY	WT-RP-24-SB-BY
Sample Date	2/27/13	2/27/13	2/27/13	2/27/13
Sample Time	1522	1553	1535	1607
Sampler Name	J. Gooch	J. Gooch	J. Gooch	J. Gooch

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



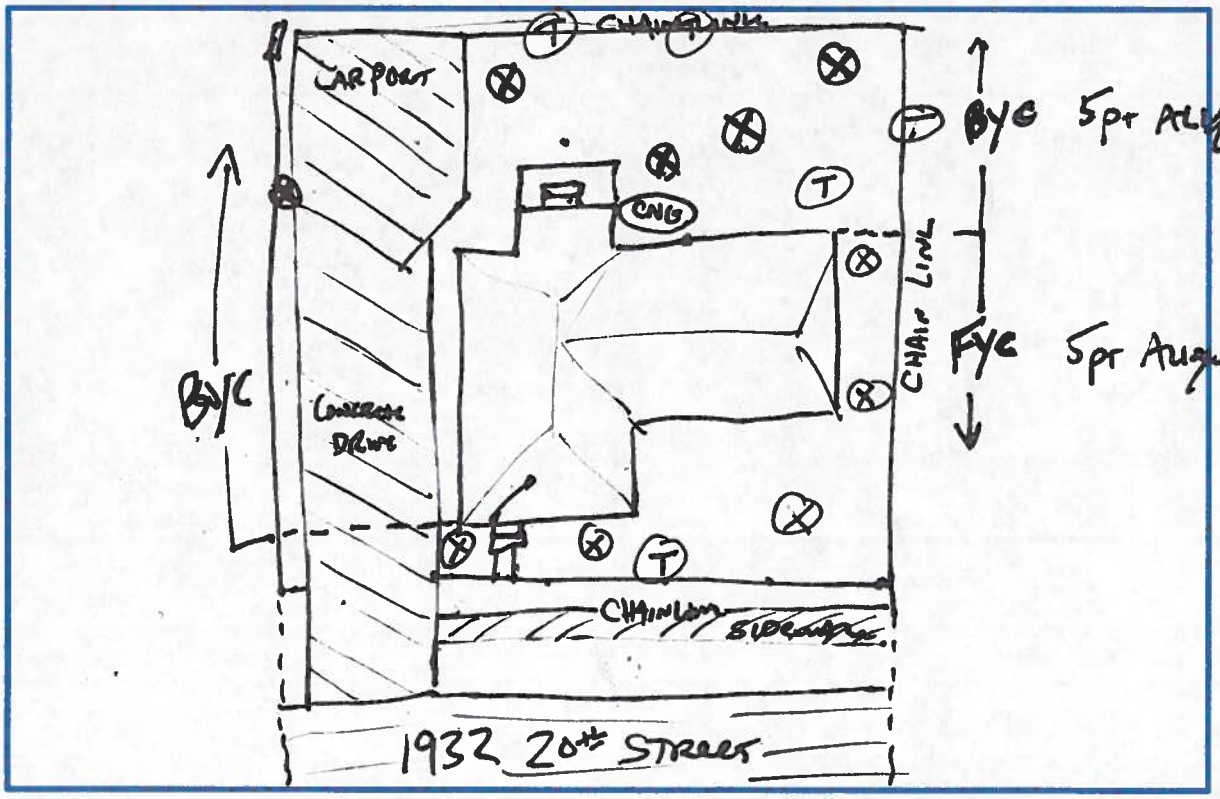
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1932 West 20th Street	STATION ID: WTRP- 76

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-76-SF-FY	WT-RP-76-SF-BY	WT-RP- -SB-FY	WT-RP- -SB-BY
Sample Date	2/27/13	2/27/13		
Sample Time	1439	1454		
Sampler Name	C. Jones	C. Jones		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



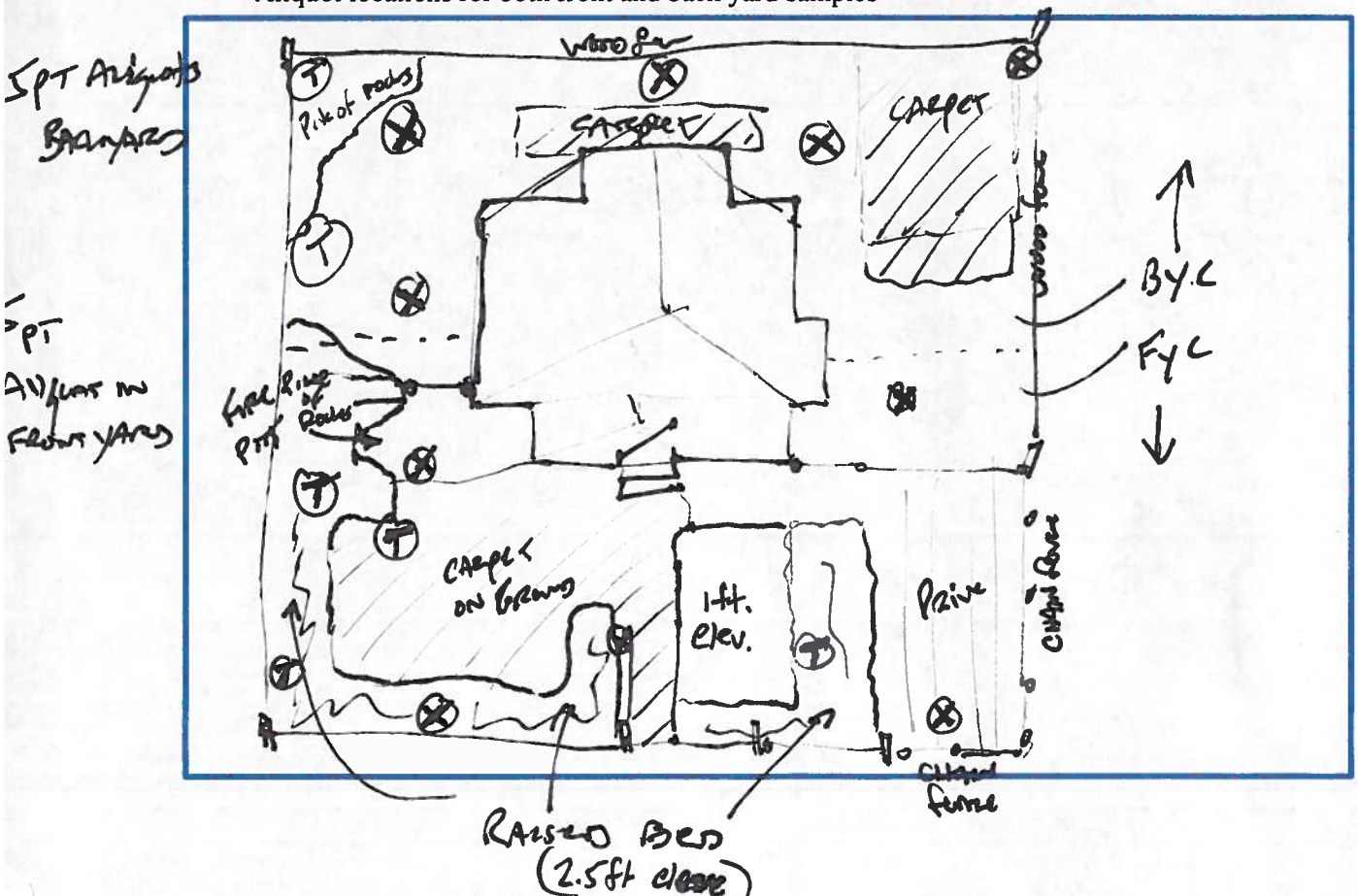
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1922 WEST 20th STREET	**STATION ID:** WTRP- 77

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	**WT-RP- 77 -SF-FY**	**WT-RP- 77 -SF-BY**	**WT-RP- -SB-FY**	**WT-RP- -SB-BY**
Sample Date	02/27/13	02/27/13		
Sample Time	1413	1427		
Sampler Name	C. JONES	C. JONES		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



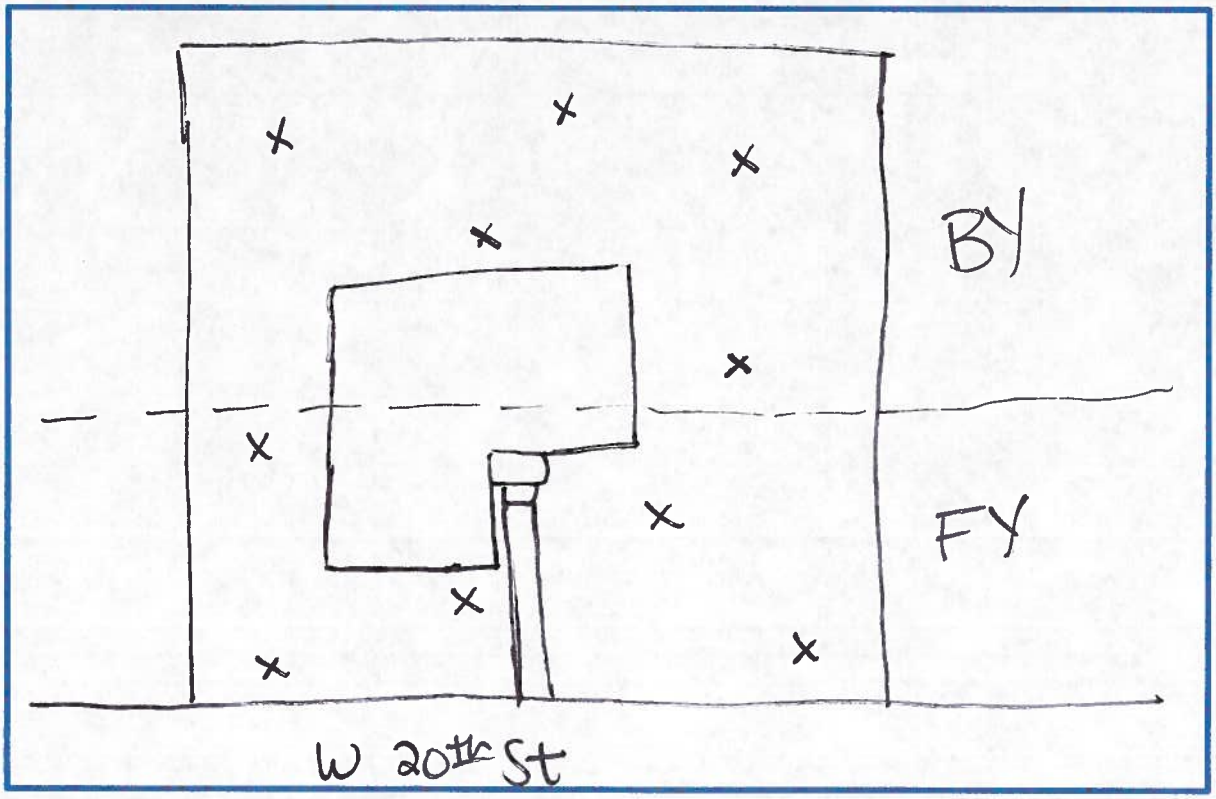
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1910 W 20th St	STATION ID: WTRP-79

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-79-SF-FY	WT-RP-79-SF-BY	WT-RP- -SB-FY	WT-RP- -SB-BY
Sample Date	2/27/13	2/27/13		
Sample Time	1129	1130		
Sampler Name	SD	GK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



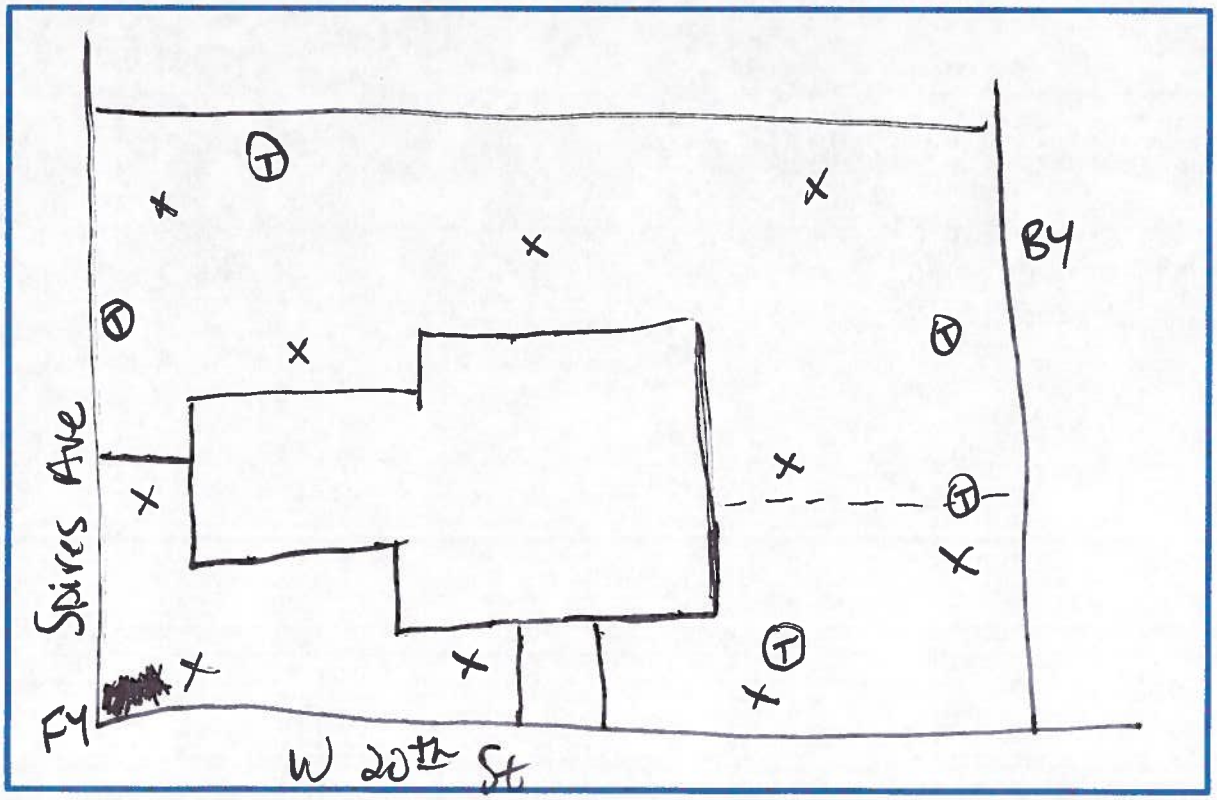
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1902 W 20th St	**STATION ID:** WTRP-80

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	**WT-RP-80-SF-FY**	**WT-RP-80-SF-BY**	**WT-RP- -SB-FY**	**WT-RP- -SB-BY**
Sample Date	2/27/13	2/27/13		
Sample Time	1105	1108		
Sample Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



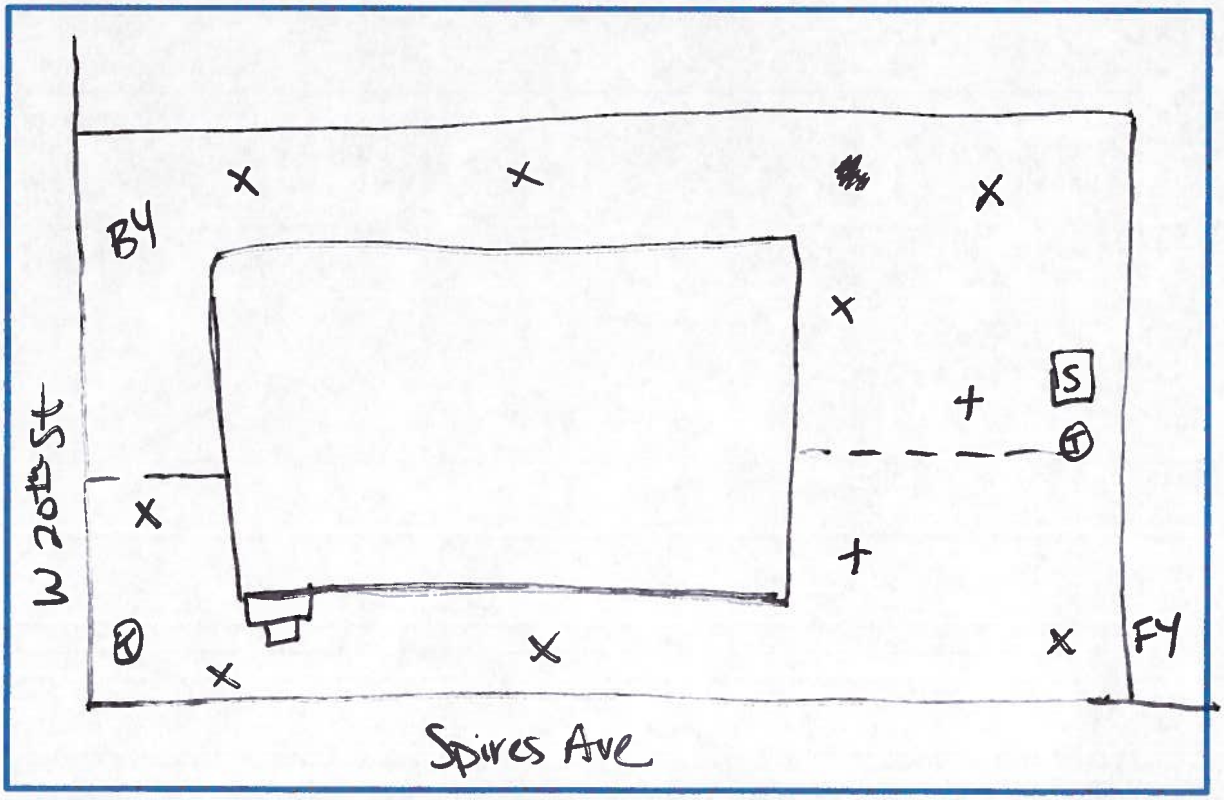
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 2925 Spires Ave	STATION ID: WTRP-81

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-81 -SF-FY	WT-RP-81 -SF-BY	WT-RP- -SB-FY	WT-RP- -SB-BY
Sample Date	2/27/13	2/27/13		
Sample Time	1045	1047		
Sampler Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



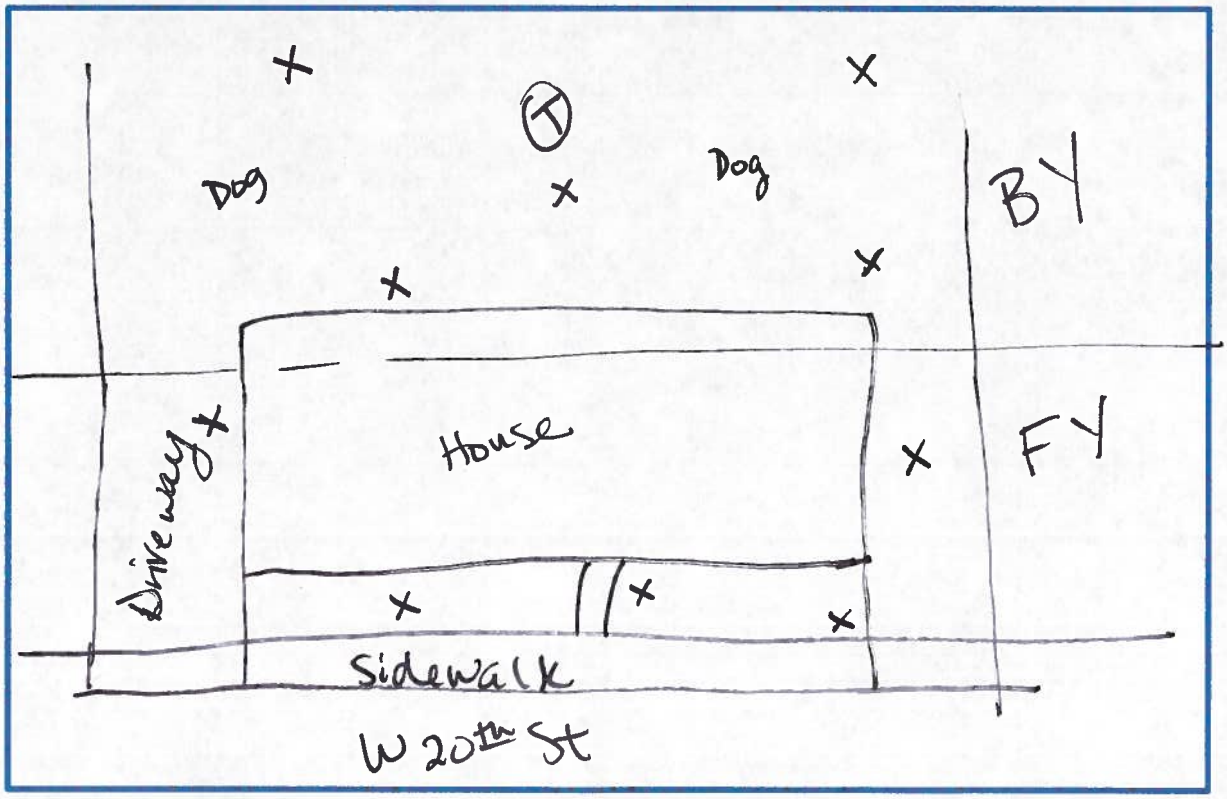
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1844 W 20th St	**STATION ID:** WTRP-83

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	**WT-RP-83-SF-FY**	**WT-RP-83-SF-BY**	**WT-RP- -SB-FY**	**WT-RP- -SB-BY**
Sample Date	2/27/13	2/27/13		
Sample Time	1015	1020		
Sampler Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1802 W 20th St	**STATION ID:** WTRP-89

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	**WT-RP-89-SF-FY**	**WT-RP-89-SF-BY**	**WT-RP- -SB-FY**	**WT-RP- -SB-BY**
Sample Date	2/27/13	2/27/13		
Sample Time	0952	0955		
Sampler Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples

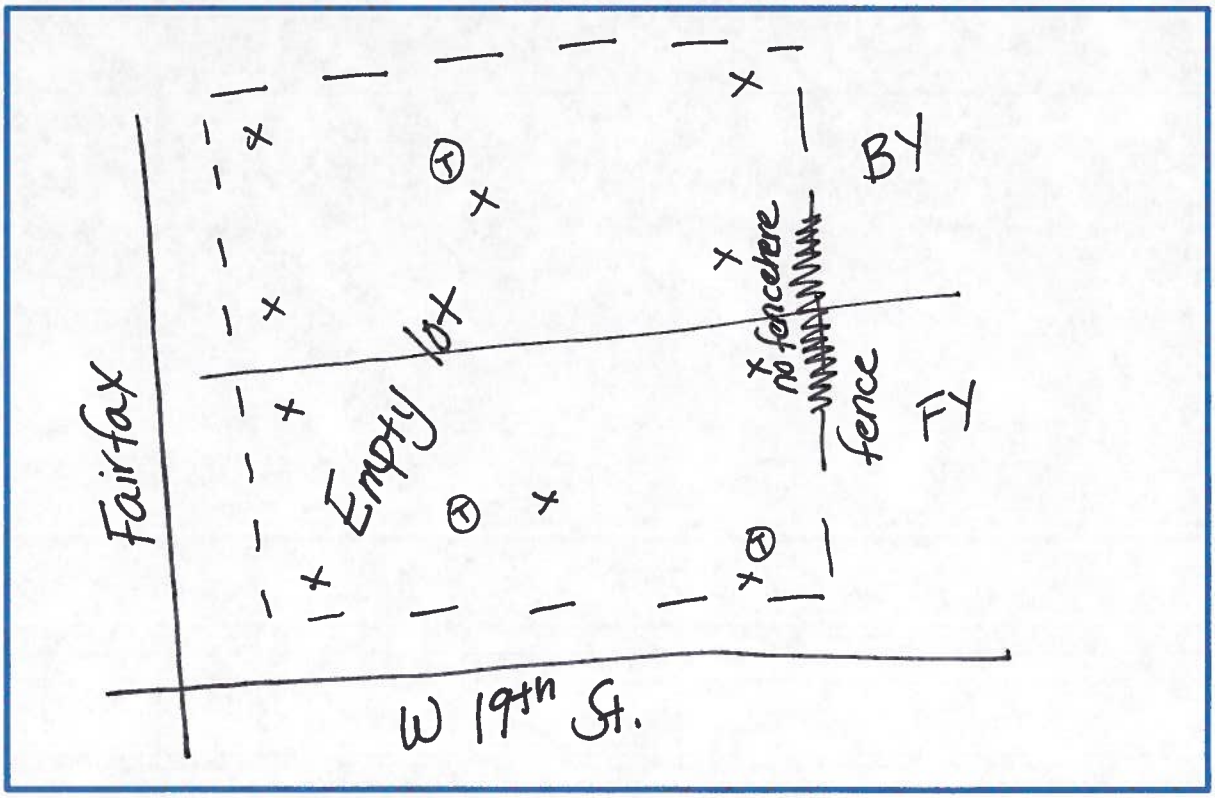
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1765 W 19th St.	**STATION ID:** WTRP- 90

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	**WT-RP-90-SF-FY**	**WT-RP-90-SF-BY**	**WT-RP- -SB-FY**	**WT-RP- -SB-BY**
Sample Date	2/27/13	2/27/13		
Sample Time	0910	0912		
Sampler Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



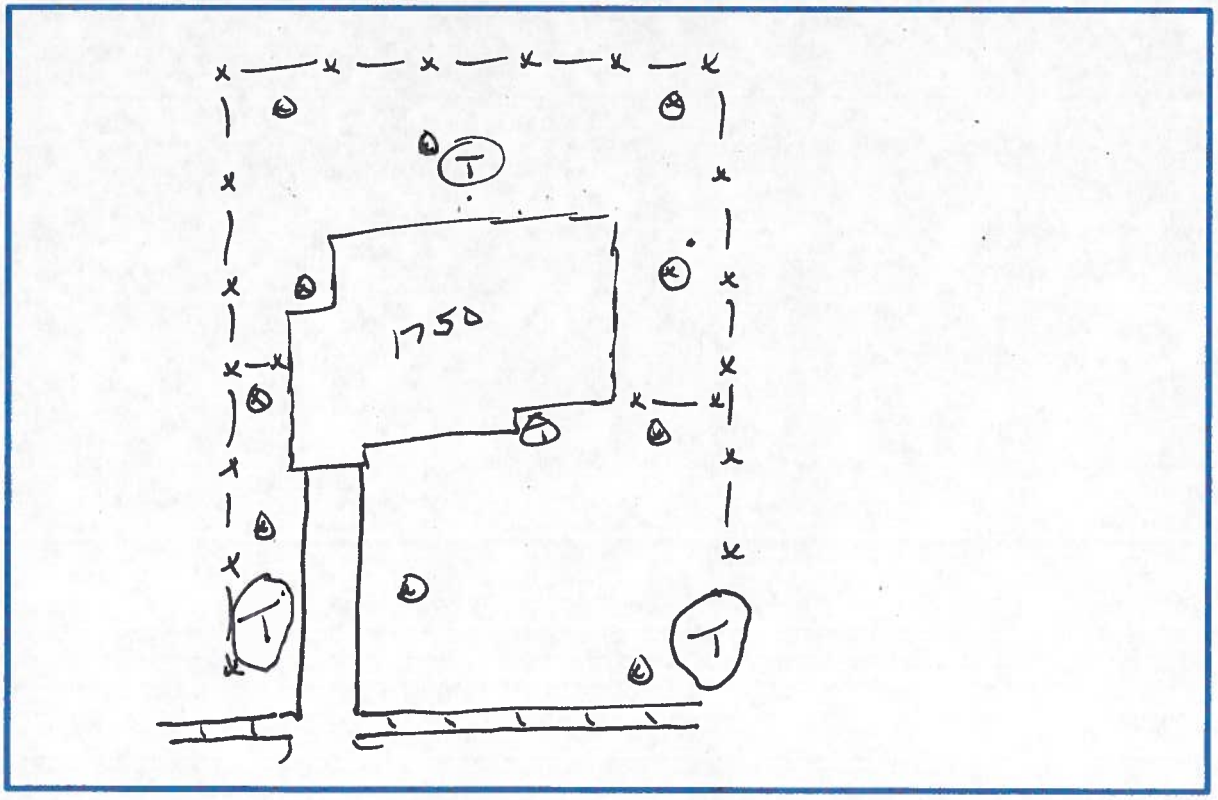
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1750 W. 19th St.	**STATION ID:** WTRP- 92

SAMPLE INFORMATION				
	SURFACE SAMPLES		**SUBSURFACE SAMPLES**	
Sample ID	**WT-RP-92-SF-FY**	**WT-RP-92-SF-BY**	**WT-RP- -SB-FY**	**WT-RP- -SB-BY**
Sample Date	2/27/13	2/27/13		
Sample Time	1556	1607		
Sampler Name	C. Jones	C. Jones		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



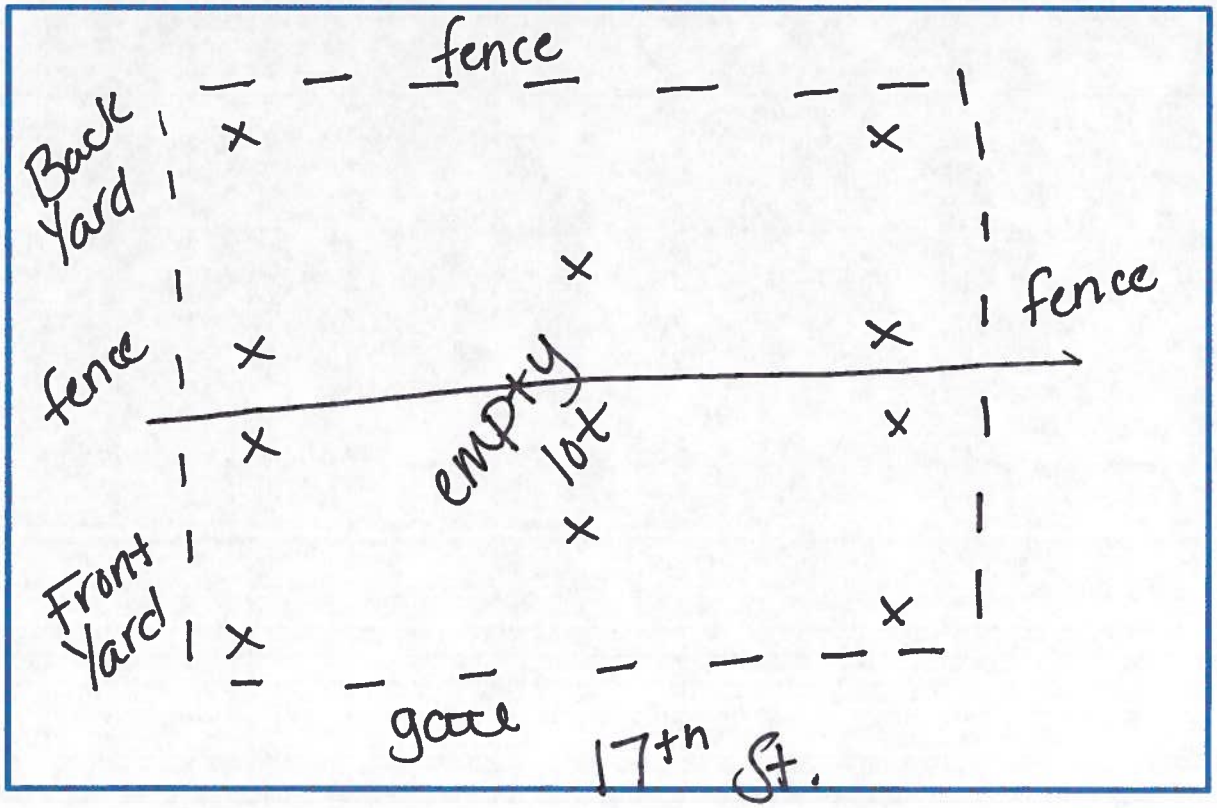
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1730 W 17th Street	STATION ID: WTRP- 93

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-93-SF-FY	WT-RP-93-SF-BY	WT-RP-93-SB-FY SF DUP	WT-RP-93-SB-BY-DUP SF
Sample Date	2/26/13	2/26/13	2/26/13	2/26/13
Sample Time	1340 1350 SD	SD 1345	1350	1353
Sampler Name	SD	QK	SD	QK

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



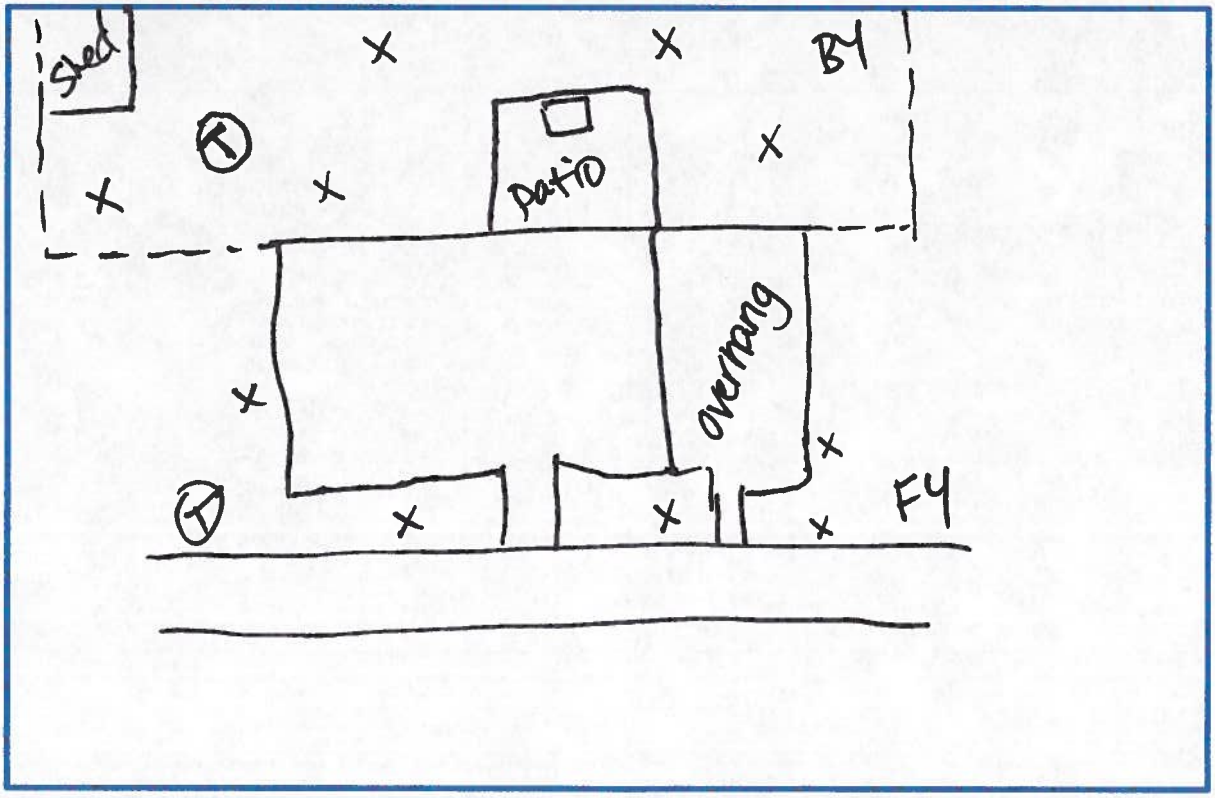
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1739 W 16th St.	STATION ID: WTRP-94-SF

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-94-SF-FY	WT-RP-94-SF-BY	WT-RP- -SB-FY	WT-RP- -SB-BY
Sample Date	2/26/13	2/26/13		
Sample Time	1110	1115		
Sampler Name	S. Davis	Q. Kelley		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



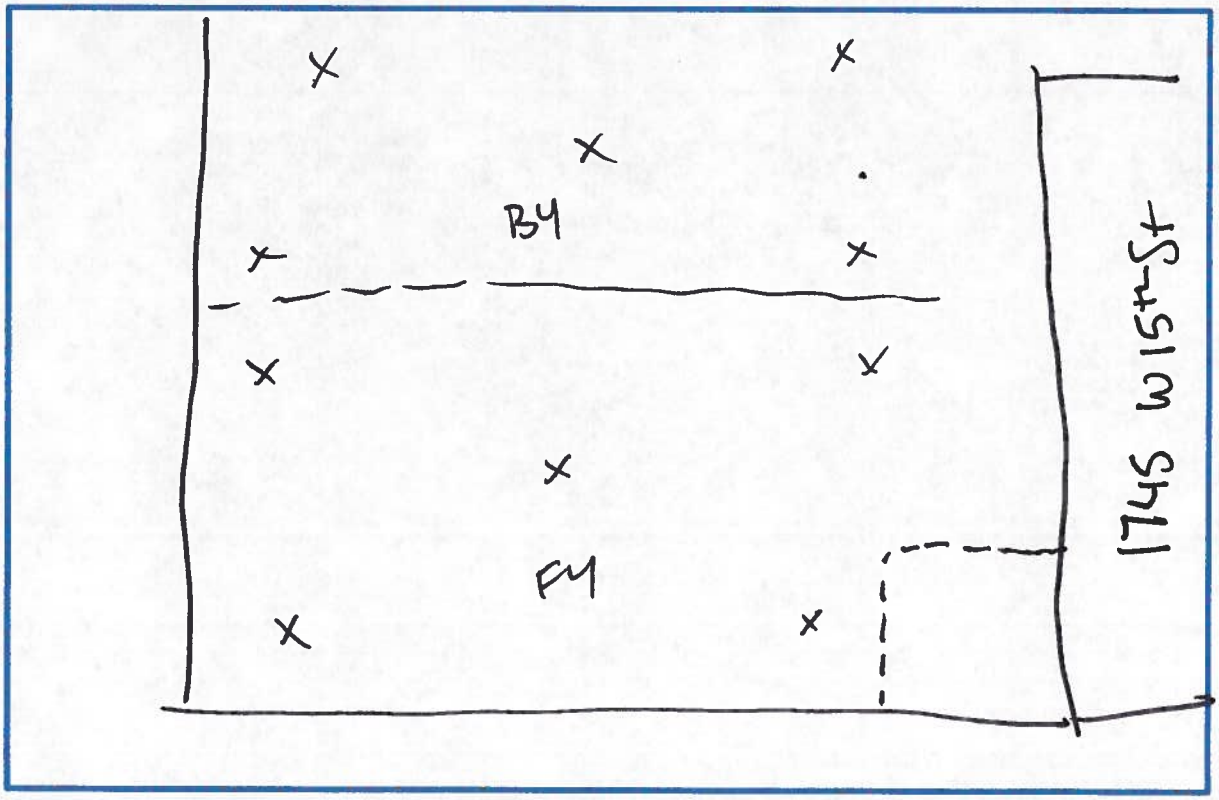
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: Vacant lot btw 1757 & 1745 W 15th St	STATION ID: WTRP-95

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-95-SF-FY	WT-RP-95-SF-BY	WT-RP-95-SB-FY-SF DUP	WT-RP- -SB-BY
Sample Date	2/26/13	2/26/13	2/26/13	
Sample Time	1435	1440	1450	
Sampler Name	SD	QK	SD	

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



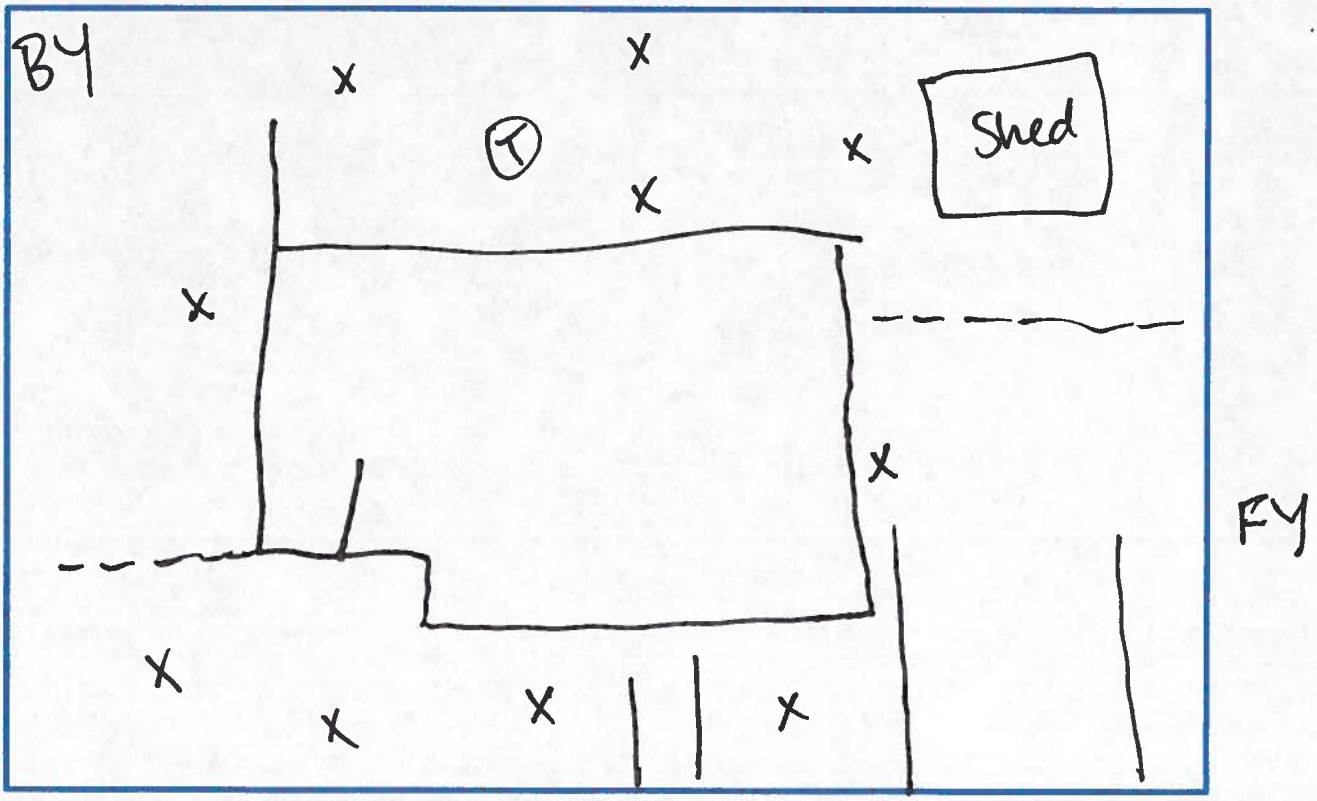
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1745 W 15th St	STATION ID: WTRP-96

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-96-SF-FY	WT-RP-96-SF-BY	WT-RP- -SB-FY	WT-RP- -SB-BY
Sample Date	2/26/13	2/26/13		
Sample Time	1422	1427		
Sampler Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



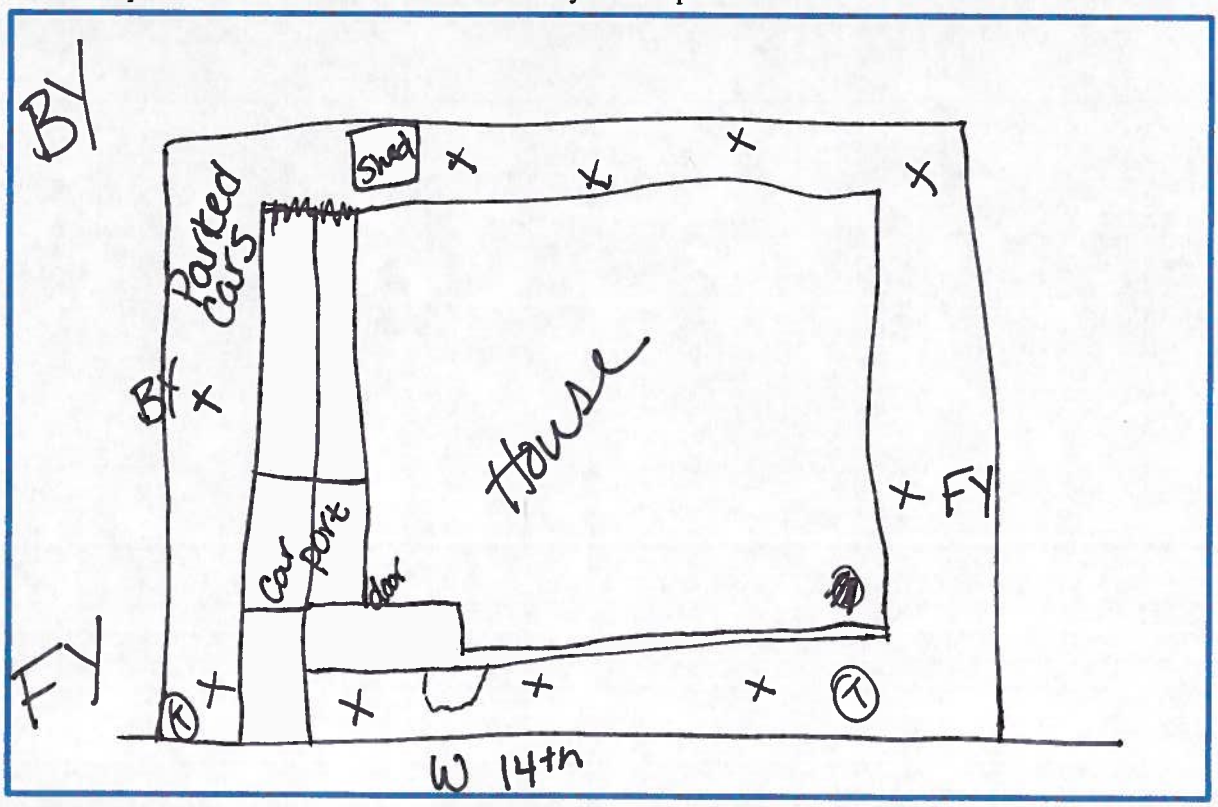
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1755 W 14th St	STATION ID: WTRP-97

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-97-SF-FY	WT-RP-97-SF-BY	WT-RP- -SB-FY	WT-RP- -SB-BY
Sample Date	2/26/13	2/26/13		
Sample Time	1555	1600		
Sampler Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



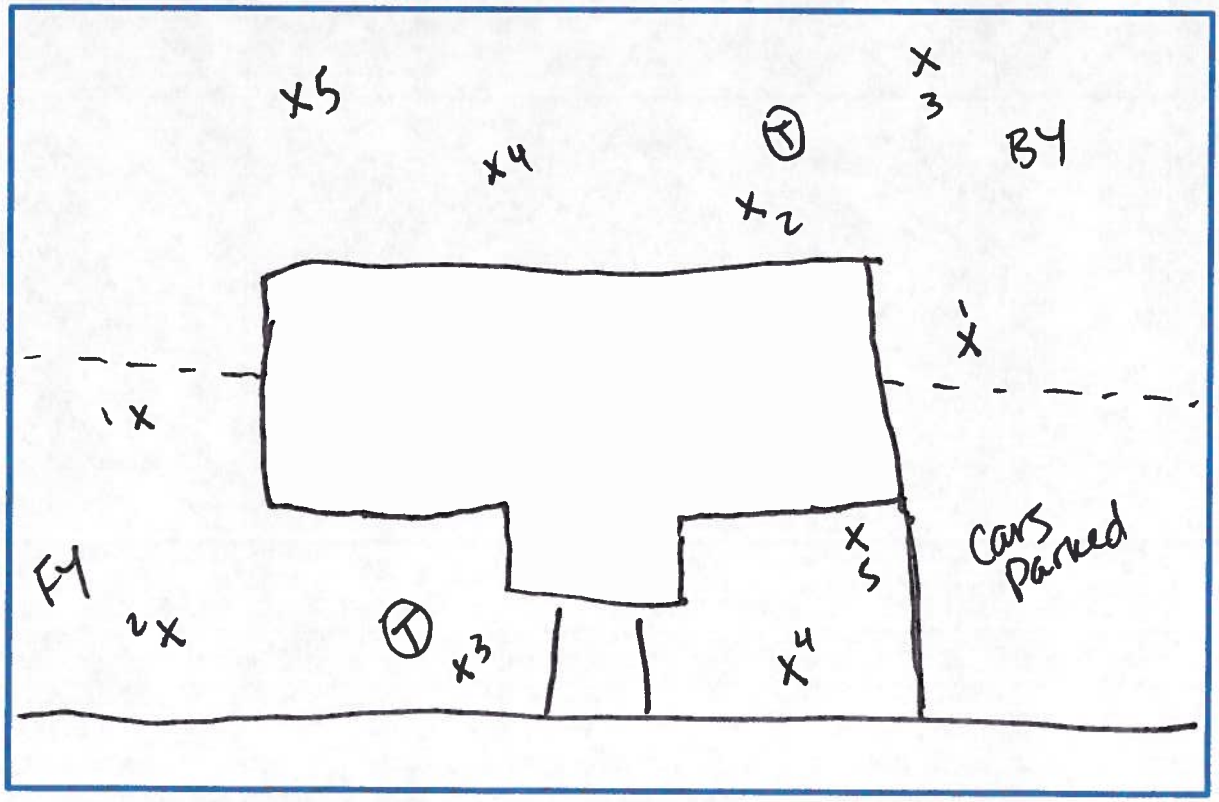
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1744 W 16th St	STATION ID: WTRP- 98

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-~~98~~-SF-FY	WT-RP-~~98~~-SF-BY	WT-RP-~~98~~-SB-FY	WT-RP-~~98~~-SB-BY
Sample Date	2/26/13 ~~2/16/13~~ (QD)	2/26/13 ~~2/16/13~~ (QD)	2/26/13	2/26/13
Sample Time	1145	1205	1155	1225
Sampler Name	QK	QK	QK	(QK) ~~QK~~ SD

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



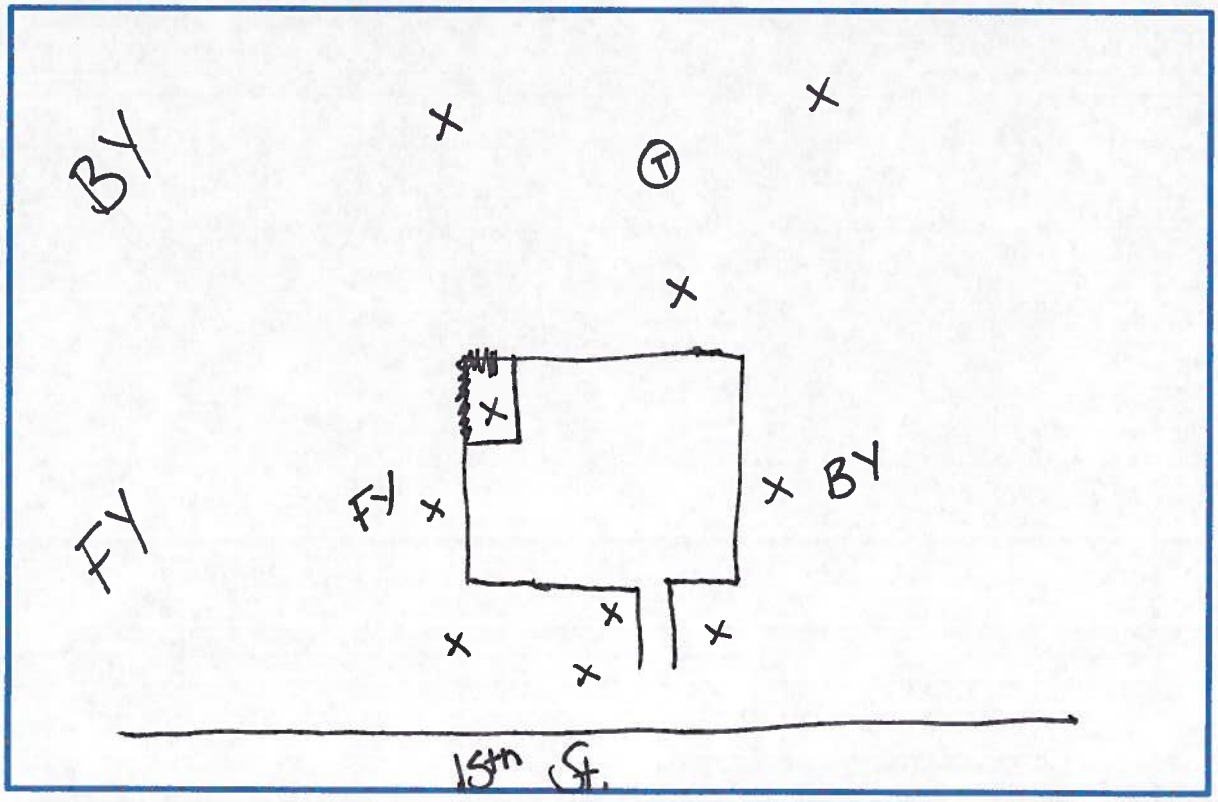
RESIDENTIAL SOIL SAMPLE COLLECTION LOG
FAIRFAX STREET WOOD TREATERS REMEDIAL INVESTIGATION

PROPERTY ADDRESS: 1744 W 15th St.	STATION ID: WTRP- 99

SAMPLE INFORMATION				
	SURFACE SAMPLES		SUBSURFACE SAMPLES	
Sample ID	WT-RP-99-SF-FY	WT-RP-99-SF-BY	WT-RP- -SB-FY	WT-RP- -SB-BY
Sample Date	2/26/13	2/26/13		
Sample Time	1505	1515		
Sampler Name	SD	QK		

SITE SKETCH (Scale is not important, but include the following whenever possible):

- Approximate location of structure(s), if any, as well as property boundaries, driveways, large trees, etc
- Reference markers (i.e. north arrow, street names/locations, adjacent property addresses, etc)
- Approximate boundary between front yard and back yard
- Aliquot locations for both front and back yard samples



FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WT PM W01 **Well No.:** PMW-01

Sample ID: WT-PMW-01-GW & WT-PMW-01-GW-F **Sample Date:** 3/1/12

Collected by: Jones/Shaver **Sample Time:** 1321

Analyses:

☑ As, Cr, Cu ☑ Cr, Cr (VI)

Quality Control:

☑ MS/MSD ☐ Duplicate

Total Depth of Well: 19.52 ft

Depth to Water: 6.55 ft

Water Column 12.97 ft

Well Diameter 2 in

Well Volume: 2.11 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1300	1307	1312	1319					
Vol. Purged (gal)	0.75	1	1.3	1.9					
Water Level (ft)	6.87	6.83	6.83	6.84					
pH (std. Units)	6.16	6.15	6.15	6.13					+/- 0.1
Sp. Conductivity ~~(uS/cm)~~ S/cm	~~0.327~~ 0.328	0.321	0.320	0.322					+/- 3%
Temperature ~~°F~~ °C	23.6	23.6	23.7	23.7					None
Turbidity (NTU)	5.28	4.68	3.23	2.84					+/- 10%

Purge Start Time: 1249

Purge End Time: 1333

Total Vol. Purged: ~~2.24~~ 2.75 gal

Purged Dry? (Y/N) N

Method of Purging:

☑ Pump Type: geopump/peristaltic

☐ Bailer Type:

Comments: Sampling depth 15ft BLS

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW02 **Well No.:** PMW-02

Sample ID: WT-PMW-02-GW & WT-PMW-02-GW F **Sample Date:** 3/1/12

Collected by: Jones & Shaver **Sample Time:** 1440

Analyses:
- [x] As, Cr, Cu
- [ ] Cr, Cr (VI)

Quality Control:
- [ ] MS/MSD
- [ ] Duplicate

Total Depth of Well:	19.52 ft	ft
Depth to Water:	7.11 ft	ft
Water Column	12.47	ft
Well Diameter	2	in
Well Volume:	2.03	gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1359	1408	1418	1426	1431	1436			
Vol. Purged (gal)	0.60 ~~0.75 yd~~	1.2	1.8	2.5	3.1	3.6			
Water Level (ft)	7.41 ~~5.44 yd~~	7.42	7.39	7.42	7.41	7.39			
pH (std. Units)	5.44	5.45	5.48	5.49	5.49	5.50			+/- 0.1
Sp. Conductivity (~~uS/cm~~ mS/cm)	0.312	0.315	0.317	0.315	0.319	0.316			+/- 3%
Temperature (~~°F~~ °C)	22.5	22.4	22.4	22.5	22.5	22.4			None
Turbidity (NTU)	36.1	27.8	16.5	11.7	9.32	8.51			+/- 10%

Purge Start Time: 1347

Purge End Time: 1445

Total Vol. Purged: 3.6

Purged Dry? (Y/N) N

Method of Purging:
- [x] Pump Type: peristaltic
- [ ] Bailer Type:

Comments: Sampling depth ~15 ft BLS
- recalibrated turbidity meter after 1st reading

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW03 **Well No.:** PMW-03

Sample ID: WT-PMW-03-GW & WT-PMW-03-GW-F **Sample Date:** 3/1/12

Collected by: Jones/Shaver **Sample Time:** 1602

Analyses:
- ☑ As, Cr, Cu
- ☐ Cr, Cr (VI)

Quality Control:
- ☐ MS/MSD
- ☐ Duplicate

Total Depth of Well: 20.16 ft

Depth to Water: 8.14 ft

Water Column 12.02 ft

Well Diameter 2 in

Well Volume: 1.96 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	~~1407~~ 1507	1515	1522	1527	1532	1537	1542	1547	
Vol. Purged (gal)	0.4	0.75	1.3	1.5	1.7	2	2.25	2.5	
Water Level (ft)	8.93	8.96	9.00	9.04	9.05	9.08	9.11	9.14	
pH (std. Units)	5.72	5.71	5.72	5.72	5.72	5.73	5.73	5.74	+/- 0.1
Sp. Conductivity ~~(uS/cm)~~ mS/cm	0.855	0.858	0.858	0.858	0.857	0.857	0.857	0.856	+/- 3%
Temperature °C ~~(°F)~~	20.7	20.6	20.7	20.6	20.7	20.7	20.7	20.7	None
Turbidity (NTU)	36.0	28.0	22.6	19.4	18.3	15.9	13.7	11.4	+/- 10%

Purge Start Time: 1457

Purge End Time: 1602

Total Vol. Purged: 3 gal

Purged Dry? (Y/N) N

Method of Purging:
- ☒ Pump Type: peristaltic
- ☐ Bailer Type:

Comments: parameters continued on pg 2

(1)

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WT PMW03 **Well No.:** PMW-03

Sample ID: WT-PMW-03-GW & WT-PMW-03-GW-F **Sample Date:** 3/1/12

Collected by: Jones & Shaver **Sample Time:** 1602

Analyses:

☑ As, Cr, Cu ☐ Cr, Cr (VI)

Quality Control:

☐ MS/MSD ☐ Duplicate

Total Depth of Well: See previous sheet ft

Depth to Water: _____ ft

Water Column _____ ft

Well Diameter _____ in

Well Volume: _____ gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1555	1601							
Vol. Purged (gal)	2.7	2.9							
Water Level (ft)	9.19	9.21							
pH (std. Units)	5.74	5.74							+/- 0.1
Sp. Conductivity (~~uS/cm~~ mS/cm)	0.856	0.856							+/- 3%
Temperature (°C ~~°F~~)	20.7	20.7							None
Turbidity (NTU)	11.4	9.59							+/- 10%

Purge Start Time: 1457

Purge End Time: _____

Total Vol. Purged: _____

Purged Dry? (Y/N) _____

Method of Purging:

☒ Pump Type: peristaltic

☐ Bailer Type: _____

Comments: continued from pg 1

(2)

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW04 **Well No.:** PMW-04

Sample ID: WT-PMW-04-GW-F WT-PMW-04-GW-F **Sample Date:** 3/1/12

Collected by: Jones & Shaver **Sample Time:** 1653

Analyses:

☒ As, Cr, Cu ☐ Cr, Cr (VI)

Quality Control:

☐ MS/MSD ☐ Duplicate

Total Depth of Well: 19.56 ft

Depth to Water: 5.87 ft

Water Column 13.69 ft

Well Diameter 2 in

Well Volume: 2.23 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1630	1637	1642	1647	1652				
Vol. Purged (gal)	0.5	0.8	1	1.3	1.8				
Water Level (ft)	6.00	6.1	6.1	6.01	6.01				
pH (std. Units)	5.67	5.63	5.59	5.57	5.55				+/- 0.1
Sp. Conductivity (uS/cm)	0.390	0.374	0.365	0.360	0.359				+/- 3%
Temperature °C ~~(°F)~~	22.6	22.6	22.6	22.7	22.8				None
Turbidity (NTU)	11.0	9.38	7.21	7.19	6.66				+/- 10%

mS/cm

Purge Start Time: 1620

Purge End Time: 1653

Total Vol. Purged: 1.8

Purged Dry? (Y/N) N

Method of Purging:

☒ Pump Type: peristaltic

☐ Bailer Type:

Comments: Sample depth 15ft BLS

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW05 **Well No.:** PMW05

Sample ID: WT-PMW-05-GW & WT-AMW-05-GW-F **Sample Date:** 3/1/12

Collected by: Jones/Shaver **Sample Time:** 1741

Analyses:

- [X] As, Cr, Cu
- [ ] Cr, Cr (VI)

Quality Control:

- [ ] MS/MSD
- [ ] Duplicate

Total Depth of Well: 19.62 ft

Depth to Water: 6.30 ft

Water Column 13.32 ft

Well Diameter 2 in

Well Volume: 2.17 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1722	1727	1732	1737					
Vol. Purged (gal)	0.5	0.75	1.0	1.2					
Water Level (ft)	6.42	6.44	6.45	6.45					
pH (std. Units)	5.47	5.47	5.49	5.50					+/- 0.1
Sp. Conductivity (~~uS/cm~~ mS/cm)	0.442	0.446	0.449	0.452					+/- 3%
Temperature (~~°F~~ °C)	22.5	22.4	22.4	22.4					None
Turbidity (NTU)	18.3	16.8	13.4	9.7					+/- 10%

Purge Start Time: 1712

Purge End Time: 1741

Total Vol. Purged: 1.2 gal

Purged Dry? (Y/N) N

Method of Purging:

- [X] Pump Type: peristaltic
- [ ] Bailer Type:

Comments: sample depth @ 15A BLS

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMWØ6S **Well No.:** PMWØ6S

Sample ID: WT-PMW-Ø6S-GW(-DUP) **Sample Date:** 3/2/12

Collected by: Jones / Robinson **Sample Time:** 0819 (-DUP: 0836)

Analyses:

☑ As, Cr, Cu ☑ Cr, Cr (VI)

Quality Control:

☐ MS/MSD ☑ Duplicate

Total Depth of Well: 19.59 ft

Depth to Water: 6.68 ft

Water Column 12.91 ft

Well Diameter 2 in

Well Volume: 2.10 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	0808	0813	0818						
Vol. Purged (gal)	0.4	0.6	0.9						
Water Level (ft)	6.81	6.82	6.83						
pH (std. Units)	5.10	5.11	5.10						+/- 0.1
Sp. Conductivity (mS/cm)	0.801	0.798	0.797						+/- 3%
Temperature °C ~~(°F)~~	22.5	22.5	22.6						None
Turbidity (NTU)	4.13	3.18	3.18						+/- 10%

Purge Start Time: 0757

Purge End Time: 0819

Total Vol. Purged: 0.9 gal

Purged Dry? (Y/N) No

Method of Purging:

☑ Pump Type: peristaltic

☐ Bailer Type:

Comments:

Sampling depth = 15 feet

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WT-PMW06D **Well No.:** PMW06D

Sample ID: WT-PMW-06D-GW(-F) **Sample Date:** 3/2/12

Collected by: Jones/Robinson **Sample Time:** 0935

Analyses:
- ☑ As, Cr, Cu
- ☑ Cr, Cr (VI)

Quality Control:
- ☐ MS/MSD
- ☐ Duplicate

Total Depth of Well:	40.29	ft
Depth to Water:	7.73	ft
Water Column	32.56	ft
Well Diameter	2	in
Well Volume:	5.31	gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	0910	0915	0920	0925					
Vol. Purged (gal)	0.4	0.6	0.8	1.1					
Water Level (ft)	9.93	10.45	11.08	11.48					
pH (std. Units)	6.95	6.95	6.95	6.95					+/- 0.1
Sp. Conductivity (mS/cm)	0.673	0.670	0.667	0.665					+/- 3%
Temperature °C ~~(°F)~~	23.6	23.7	23.8	23.8					None
Turbidity (NTU)	0.27	4.68	4.47	6.37					+/- 10%

Purge Start Time: 0900

Purge End Time: 0935

Total Vol. Purged: 1.1 gal

Purged Dry? (Y/N) N

Method of Purging:
- ☑ Pump Type: peristalic
- ☐ Bailer Type:

Comments:

Sampling depth = 37 feet

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: NTPMW07 **Well No.:** PMW07

Sample ID: WT-PMW-07-GW **Sample Date:** 3/2/12

Collected by: WT-PMW-07-GW-F Jones | Robinson **Sample Time:** 1015

Analyses:

☑ As, Cr, Cu ☐ Cr, Cr (VI)

Quality Control:

☐ MS/MSD ☐ Duplicate

Total Depth of Well: 19.93 ft

Depth to Water: 8.45 ft

Water Column 11.48 ft

Well Diameter 2 in

Well Volume: 1.87 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1002	1007	1012						
Vol. Purged (gal)	8	8.25	8.5						
Water Level (ft)	9.2	9.2	9.2						
pH (std. Units)	6.23	6.22	6.21						+/- 0.1
Sp. Conductivity (mS/cm)	0.773	0.774	0.774						+/- 3%
Temperature °C, ~~(°F)~~	23.5	23.3	23.3						None
Turbidity (NTU)	6.32	6.02	6.36						+/- 10%

Purge Start Time: 0705

Purge End Time: 1015

Total Vol. Purged: 8.5

Purged Dry? (Y/N) N

Method of Purging:

☑ Pump Type: peristaltic

☐ Bailer Type:

Comments:

Sampling depth = 15 feet

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW01 **Well No.:** PMW-01

Sample ID: WT-PMW-01-GW-0812 **Sample Date:** 8/15/12

Collected by: WT-PMW-01-GW-0812-F **Sample Time:** 1012 F: 1017
↳ START Croft & Kelley

Analyses:
- [X] As, Cr, Cu
- [X] Cr, Cr (VI)

Quality Control:
- [X] MS/MSD
- [ ] Duplicate

Total Depth of Well: 19.35 ft
Depth to Water: 2.35 ft
Water Column 17 ft
Well Diameter 2 in
Well Volume: 2.77 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	0935	0940	0945	0950	0955	1000	1005	1010	
Vol. Purged (gal)	~~0.4~~ ~~0.54~~	~~0.75~~ ~~0.35~~	~~1.05~~ ~~0.3~~	1.35 0.3	~~1.65~~ ~~0.3~~	~~1.95~~ ~~0.3~~	~~2.25~~ ~~0.3~~	2.55	
Water Level (ft)	2.54	2.59	2.60	2.60	2.60	2.60	2.60	2.60	
pH (std. Units)	5.88	5.83	5.81	5.80	5.8	5.81	5.80	5.81	+/- 0.1
Sp. Conductivity mS ~~(uS/cm)~~	0.176	0.168	0.166	0.165	0.164	0.165	0.164	0.165	+/- 3%
Temperature ~~(°F)~~ °C	27.91	27.71	27.69	27.59	27.55	27.52	27.54	27.57	None
Turbidity (NTU)	41.5	29.5	24.4	20.8	15.9	14.2	12.6	9.85	+/- 10%

Purge Start Time: 0930
Purge End Time: 1011
Total Vol. Purged: 2.5 gal
Purged Dry? (Y/N) N

Method of Purging:
- [X] Pump Type: Peristaltic
- [ ] Bailer Type:

Comments:

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW02 **Well No.:** PMW-02

Sample ID: WT-PMW-02-GW-0812 **Sample Date:** 8/15/12

Collected by: WT-PMW-02-GW-08D-F **Sample Time:** 1112 F: 1118
↳ START Croft and Kelley

Analyses:
- [X] As, Cr, Cu
- [X] Cr, Cr (VI)

Quality Control:
- [ ] MS/MSD
- [ ] Duplicate

Total Depth of Well: 19.75 ft
Depth to Water: 3.08 ft
Water Column 16.67 ft
Well Diameter 2 in
Well Volume: 2.71 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1040	1045	1060	1055	1100	1105	1110		
Vol. Purged (gal)	0.35	~~0.6~~ 0.7	~~0.95~~ 1.05	1.4	1.75	2.1	2.45		
Water Level (ft)	3.27	3.32	3.33	3.33	3.33	3.34	3.34		
pH (std. Units)	5.76	5.8	5.63	5.63	5.63	5.64	5.62		+/- 0.1
Sp. Conductivity ms ~~(uS/cm)~~	0.252	0.219	0.204	0.204	0.202	0.200	0.195		+/- 3%
Temperature ~~(°F)~~ C	27.06	26.88	26.83	26.69	26.59	26.74	26.66		None
Turbidity (NTU)	31.0	25.9	20.2	18.7	15.6	13.3	9.56		+/- 10%

Purge Start Time: 1035
Purge End Time: 1111
Total Vol. Purged: 2.5 gal
Purged Dry? (Y/N) N

Method of Purging:
- [X] Pump Type: Peristaltic
- [ ] Bailer Type:

Comments:

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW03 **Well No.:** PMW-03

Sample ID: WT-PMW-03-GW-0812 **Sample Date:** 8/15/12

Collected by: WT-PMW-03-GW-0812-F **Sample Time:** 1202 F:1205
↳ START Croft & Kelley

Analyses:
- [X] As, Cr, Cu
- [X] Cr, Cr (VI)

Quality Control:
- [ ] MS/MSD
- [ ] Duplicate

Total Depth of Well: 20.01 ft
Depth to Water: 5.43 ft
Water Column 14.58 ft
Well Diameter 2 in
Well Volume: 2.37 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1140	1145	1150	1155	1200				
Vol. Purged (gal)	0.4	0.8	1.2	1.6	2				
Water Level (ft)	6.39	6.48	6.50	6.53	6.55				
pH (std. Units)	5.79	5.79	5.79	5.78	5.77				+/- 0.1
Sp. Conductivity MS (uS/cm)	0.311	0.304	0.294	0.285	0.278				+/- 3%
Temperature (°F) C	26.25	26.04	25.84	25.63	25.64				None
Turbidity (NTU)	1.34	3.72	4.87	3.77	3.21				+/- 10%

Purge Start Time: 1132
Purge End Time: 1201
Total Vol. Purged: 2 gal
Purged Dry? (Y/N) N

Method of Purging:
- [X] Pump Type: Peristaltic
- [ ] Bailer Type:

Comments:

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW04 **Well No.:** PMW-04

Sample ID: WT-PMW-04-GW-0812 **Sample Date:** 8/15/12

Collected by: WT-PMW-04-GW-0812-F (START Croft & Kelley) **Sample Time:** 1243 F: 1246

Analyses:

☒ As, Cr, Cu ☒ Cr, Cr (VI)

Quality Control:

☐ MS/MSD ☐ Duplicate

Total Depth of Well: 19.37 ft

Depth to Water: 3.02 ft

Water Column 16.35 ft

Well Diameter 2 in

Well Volume: 2.66 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1230	1235	1240						
Vol. Purged (gal)	0.5	1	1.5						
Water Level (ft)	3.20	3.20	3.20						
pH (std. Units)	~~5.02~~ 5.02	~~5.05~~ 5.05	5.06						+/- 0.1
Sp. Conductivity (mS/cm)	0.149	0.148	0.147						+/- 3%
Temperature (°F) C	26.17	26.13	26.02						None
Turbidity (NTU)	7.37	4.29	4.13						+/- 10%

Purge Start Time: 1226

Purge End Time: 1242

Total Vol. Purged: 1.5 gal

Purged Dry? (Y/N) N

Method of Purging:

☒ Pump Type: Peristaltic

☐ Bailer Type: _____

Comments:

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WT PMW 05 **Well No.:** PMW-05

Sample ID: WT-PMW-05-GW-0812 **Sample Date:** 8/15/12

Collected by: WT-PMW-05-GW-0812-F **Sample Time:** 1322 F: 1326
↳ START Croft & Kelley DUP: 1330 FDUP: 1334

Analyses:
- [X] As, Cr, Cu
- [X] Cr, Cr (VI)

Quality Control:
- [ ] MS/MSD
- [X] Duplicate

Total Depth of Well: 19.48 ft
Depth to Water: 3.11 ft
Water Column 16.37 ft
Well Diameter 2 in
Well Volume: 2.666 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1310	1315	1320						
Vol. Purged (gal)	0.5	1	1.5						
Water Level (ft)	3.29	3.29	3.29						
pH (std. Units)	5.07	5.09	5.10						+/- 0.1
Sp. Conductivity ~~(uS~~ mS/cm)	0.190	0.189	0.189						+/- 3%
Temperature ~~(°F)~~ °C	26.08	26.07	26.09						None
Turbidity (NTU)	6.15	5.31	4.47						+/- 10%

Purge Start Time: 1305
Purge End Time: 1321
Total Vol. Purged: 1.5
Purged Dry? (Y/N) N

Method of Purging:
- [X] Pump Type: Peristaltic
- [ ] Bailer Type:

Comments:

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW065 **Well No.:** PMW-065

Sample ID: WT-PMW-065-GW-0812- **Sample Date:** 8/15/12

Collected by: WT-PMW-065-GW-0812-F **Sample Time:** 1512 F:1516
↳ START Croft & Kelley

Analyses:

☒ As, Cr, Cu ☒ Cr, Cr (VI)

Quality Control:

☐ MS/MSD ☐ Duplicate

Total Depth of Well: 19.42 ft

Depth to Water: 4.10 ft

Water Column 15.32 ft

Well Diameter 2 in

Well Volume: 2.49 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1455	1500	1505	1510					
Vol. Purged (gal)	0.375	0.75	1.125	1.5					
Water Level (ft)	4.22	4.22	4.24	4.24					
pH (std. Units)	5.06	5.04	5.03	5.02					+/- 0.1
Sp. Conductivity ~~(uS/cm)~~ mS/cm	0.411	0.402	0.395	03.88					+/- 3%
Temperature (°~~F~~C)	27.09	27.08	27.07	26.89					None
Turbidity (NTU)	10.13	4.57	8.94	8.69					+/- 10%

Purge Start Time: 1450

Purge End Time: 1511

Total Vol. Purged: 1.5

Purged Dry? (Y/N) N

Method of Purging:

☒ Pump Type: Peristaltic

☐ Bailer Type:

Comments:

FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW06D **Well No.:** PMW-06D

Sample ID: WT-PMW-06D-GW-0812 **Sample Date:** 8/15/12

Collected by: WT-PMW-06D-GW-0812-F **Sample Time:** 1718 F:1721
↳ START Croft & Kelley

Analyses:
☒ As, Cr, Cu ☒ Cr, Cr (VI)

Quality Control:
☐ MS/MSD ☐ Duplicate

Total Depth of Well: 40.12 ft
Depth to Water: 7.65 ft
Water Column 32.47 ft
Well Diameter 2 in
Well Volume: 5.29 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

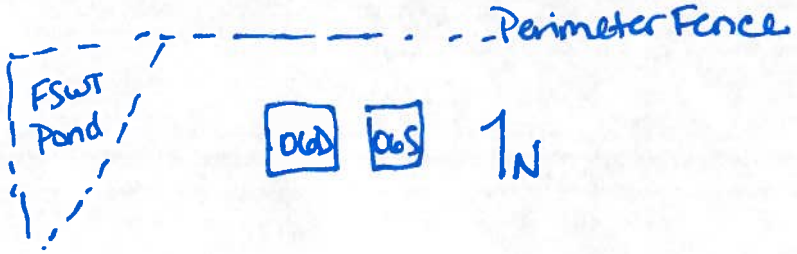
Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1635	1640	1650	1655	1700	1705	1710	1715	
Vol. Purged (gal)	0.5	1	1.5	2	2.5	3	3.5	4	
Water Level (ft)	6.13	8.75	10.27	11.30	12.23	13.02	13.67	14.16	
pH (std. Units)	7.09	7.10	7.11	7.11	7.11	7.11	7.11	7.11	+/- 0.1
Sp. Conductivity mS (µS/cm)	0.624	0.610	0.592	0.582	0.572	0.563	0.552	0.555	+/- 3%
Temperature (°F) C	25.14	24.93	24.91	24.86	24.91	24.88	24.87	24.74	None
Turbidity (NTU)	0.96	0.07	0.52	0.05	0.00	0.61	0.14	2.13	+/- 10%

Purge Start Time: 1632
Purge End Time: 1716
Total Vol. Purged: 4 gal
Purged Dry? (Y/N) N

Method of Purging:
☒ Pump Type: Peristaltic
☐ Bailer Type:

Comments:

Looking North, PMW-06D is to the left & PMW-06S is to the right.



FIELD GROUND WATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW07 **Well No.:** PMW-07

Sample ID: WT-PMW-07-GW-0812 **Sample Date:** 8/15/12

Collected by: WT-PMW-07-GW-0812-F → START Croft & Kelley **Sample Time:** 1607 F:1611

Analyses:

☒ As, Cr, Cu ☒ Cr, Cr (VI)

Quality Control:

☐ MS/MSD ☐ Duplicate

Total Depth of Well: 19.77 ft

Depth to Water: 4.44 ft

Water Column 15.33 ft

Well Diameter 2 in

Well Volume: 2.49 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1550	1555	1605 ~~1600~~						
Vol. Purged (gal)									
Water Level (ft)	5.49	5.50	5.49						
pH (std. Units)	6.29	6.30	6.30						+/- 0.1
Sp. Conductivity mS ~~(uS/cm)~~	0.740	0.734	0.724						+/- 3%
Temperature ~~(°F)~~ C	26.13	26.34	26.03						None
Turbidity (NTU)	~~1.89~~ 1.89	3.11	1.75						+/- 10%

Purge Start Time: 1543

Purge End Time: 1606

Total Vol. Purged: 2 gal

Purged Dry? (Y/N) N

Method of Purging:

☒ Pump Type: Peristaltic

☐ Bailer Type: _____

Comments:

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW01 **Well No.:** PMW-01

Sample ID: WT-PMW-01-GW-0213-F / WT-PMW-01-GW-0213 **Sample Date:** 02/26/13

Collected by: J. Gooch **Sample Time:** 1227

Analyses: **Quality Control:**

☑ As, Cr, Cu ☑ Cr (VI) ☐ MS/MSD ☐ Duplicate Time: 1227 (JG)

ID: WT-PMW-01-GW-0213 / WT-PMW-01-GW-0213-F

Total Depth of Well: 19.52 ft

Depth to Water: 2.16 ft

Water Column 17.36 ft

Well Diameter 2 in

Well Volume: 2.83 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1214	1219	1224						
Vol. Purged (gal)	1.25	1.75	2.25						
Water Level (ft)	2.50	2.52	2.52						
pH (std. Units)	5.54	5.50	5.47						+/- 0.1
Sp. Conductivity (uS/cm)	200	194	191						+/- 3%
Temperature (°F)	22.99	22.91	22.95						None
Turbidity (NTU)	4.36	4.26	1.75						+/- 10%

Purge Start Time: 1159

Purge End Time: 1226

Total Vol. Purged: 2.25 GAL

Purged Dry? (Y/N) N

Method of Purging:

☑ Pump Type: PERISTALTIC

☐ Bailer Type:

Comments:

WATER INTAKE 14.52 ft.

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW02 **Well No.:** PMW-02

Sample ID: WT-PMW-02-GW-0213-F **Sample Date:** 02/27/13

Collected by: J. Goach / C. Davis **Sample Time:** 1018

Analyses:
☑ As, Cr, Cu ☑ Cr (VI)

Quality Control:
☐ MS/MSD ☐ Duplicate Time: 1018

ID: WT-PMW-02-GW-0213
WT-PMW-02-GW-0213-F

Total Depth of Well:	19.52	ft
Depth to Water:	3.92	ft
Water Column	15.60	ft
Well Diameter	2	in
Well Volume:	2.54	gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	0951	1001	1008	1017					
Vol. Purged (gal)	1.00	1.50	2.00	2.50					
Water Level (ft)	4.12	4.13	4.13	4.13					
pH (std. Units)	4.70	4.70	4.70	4.70					+/- 0.1
Sp. Conductivity (uS/cm)	124	123	123	123					+/- 3%
Temperature ~~(°F)~~ °C	21.60	21.91	21.83	21.78					None
Turbidity (NTU)	20.1	~~21.~~ 13.7	12.3	7.75					+/- 10%

Purge Start Time: 0933
Purge End Time: 1029
Total Vol. Purged: 2.50
Purged Dry? (Y/N) N

Method of Purging:
☑ Pump Type: Peristaltic
☐ Bailer Type:

Comments:

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: ~~WTPMW02~~ WTPMW03 (56) **Well No.:** PMW-03

Sample ID: WT-PMW-03-GW-0213 **Sample Date:** 02/27/13

Collected by: J.Gooch / G.Jones **Sample Time:** 1119

Analyses: **Quality Control:**

☑ As, Cr, Cu ☑ Cr (VI) ☐ MS/MSD ☐ Duplicate Time: 1119 (80) 3

ID: WT-PMW-03-GW-0213
WT-PMW-03-GW-0213-F
360

Total Depth of Well: 20.16 ft

Depth to Water: 5.95 ft

Water Column ~~(4) 14.21~~ 14.21 ft

Well Diameter 2 in

Well Volume: 2.31 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1102	1109	1116						
Vol. Purged (gal)	0.75	1.25	1.75						
Water Level (ft)	6.78	6.84	6.85						
pH (std. Units)	5.59	5.59	5.59						+/- 0.1
Sp. Conductivity (uS/cm)	440	439	437						+/- 3%
Temperature (°F)	20.31	20.40	20.44						None
Turbidity (NTU)	0.10	0.48	0.30						+/- 10%

Purge Start Time: 1046

Purge End Time: 1122

Total Vol. Purged: 2.30

Purged Dry? (Y/N) N

Method of Purging:

☑ Pump Type: Peristaltic

☐ Bailer Type:

Comments:

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW04 **Well No.:** PMW-04

Sample ID: WT-PMW-04-GW-0213 **Sample Date:** 2/27/13

Collected by: C. Somes / J. Gooch **Sample Time:** 1210

Analyses: **Quality Control:**

☑ As, Cr, Cu ☑ Cr (VI) ☐ MS/MSD ☐ Duplicate Time: 1210

ID: WT-PMW-04-GW-0213
WT-PMW-04-GW-0213-F

Total Depth of Well:	19.56	ft
Depth to Water:	3.30	ft
Water Column	16.26	ft
Well Diameter	2	in
Well Volume:	2.65	gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1156	1202	1208						
Vol. Purged (gal)	0.75	1.00	1.50						
Water Level (ft)	3.42	3.43	3.43						
pH (std. Units)	4.64	4.64	4.63						+/- 0.1
Sp. Conductivity (uS/cm)	156	156	155						+/- 3%
Temperature ~~(°F)~~ °C	22.33	22.31	22.35						None
Turbidity (NTU)	15.40	9.44	6.92						+/- 10%

Purge Start Time: 1141

Purge End Time: 1220

Total Vol. Purged: ~~2.2~~ 1.50

Purged Dry? (Y/N) N

Method of Purging:

☑ Pump Type: Peristaltic

☐ Bailer Type:

Comments:

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW-05 **Well No.:** PMW-05

Sample ID: WT-PMW-05-GW-0213 **Sample Date:** 02/26/13

Collected by: C. Jones **Sample Time:**

Analyses: **Quality Control:**

☑ As, Cr, Cu ☑ Cr (VI) ☐ MS/MSD ☐ Duplicate Time: 1347

ID: WT-PMW-05-GW-0213
WT-PMW-05-GW-0213-F

Total Depth of Well: 19.62 ft

Depth to Water: 3.64 ft

Water Column 15.98 ft

Well Diameter 2 in

Well Volume: 2.6 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1333	1339	1343						
Vol. Purged (gal)	1.25	1.75	2.25						
Water Level (ft)	3.91	3.92	3.92						
pH (std. Units)	4.57	4.56	~~4.58~~ 4.53						+/- 0.1
Sp. Conductivity (uS/cm)	213	214	213						+/- 3%
Temperature (°F)	22.43	22.40	22.46						None
Turbidity (NTU)	1.44	0.54	0.31						+/- 10%

Purge Start Time: 1318

Purge End Time: 1345

Total Vol. Purged: 2.25 gal

Purged Dry? (Y/N) No

Method of Purging:

☑ Pump Type: Peristaltic

☐ Bailer Type:

Comments:

Water intake @ 14.5 ft bls

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW06S **Well No.:** PMW-06S

Sample ID: WT-PMW-065-GW-0213 **Sample Date:** 02/26/13
~~WT-PMW-065-GW-0213-F~~

Collected by: C. Jones **Sample Time:** 1444

Analyses: **Quality Control:**

☑ As, Cr, Cu ☑ Cr (VI) ☐ MS/MSD ☐ Duplicate Time: 1444

ID: WT-PMW-065-GW-0213
WT-PMW-065-GW-0213-F

Total Depth of Well:	19.59	ft
Depth to Water:	4.88	ft
Water Column	14.71	ft
Well Diameter	2	in
Well Volume:	2.39	gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1432	1437	1442						
Vol. Purged (gal)	1.5	2.0	2.65						
Water Level (ft)	5.18	5.19	5.19						
pH (std. Units)	4.65	4.62	4.59						+/- 0.1
Sp. Conductivity (uS/cm)	4.16	4.05	3.97						+/- 3%
Temperature (°F)	22.62	22.73	22.80						None
Turbidity (NTU)	1.31	1.25	1.18						+/- 10%

Purge Start Time: 1417

Purge End Time: 1444

Total Vol. Purged: 2.65

Purged Dry? (Y/N) N

Method of Purging:

☑ Pump Type: PERISTALTIC

☐ Bailer Type:

Comments:

WATER INTAKE 14.52 ft.

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW06D **Well No.:** PMW-06D

Sample ID: WT-PMW-06D-GW-0213 **Sample Date:** 02/26/13

Collected by: C. Jones **Sample Time:** 1550

Analyses:
☑ As, Cr, Cu ☑ Cr (VI)

Quality Control:
☐ MS/MSD ☐ Duplicate Time: 1550
ID: WT-PMW-06D-GW-0213
WT-PMW-06D-GW-0213-F

Total Depth of Well: 40.29 ft

Depth to Water: (SG) ~~7.59~~ 6.59 ft

Water Column 33.70 ft

Well Diameter 2 in

Well Volume: (SG) ~~5.53~~ 5.49 gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr) (SG)	1520 ~~1516~~	1525	1531	1541					
Vol. Purged (gal)	1.25	1.60	1.95	2.25					
Water Level (ft)	10.47	11.15	11.71	12.59					
pH (std. Units)	6.85	6.86	6.85	6.85					+/- 0.1
Sp. Conductivity (uS/cm)	~~682~~ ~~682~~	680	683	~~667~~ 683 (SG)					+/- 3%
Temperature (°F)	23.74	23.77	23.81	23.80					None
Turbidity (NTU)	0.28	2.30	0.84	1.07					+/- 10%

Purge Start Time: 1501

Purge End Time: 1548

Total Vol. Purged: 2.5

Purged Dry? (Y/N) No

Method of Purging:
☑ Pump Type: PERISTALTIC
☐ Bailer Type:

Comments:
Intake @ 35.0 ft bls

FIELD GROUNDWATER SAMPLE COLLECTION SHEET
FAIRFAX STREET WOOD TREATER REMEDIAL INVESTIGATION

Station ID: WTPMW07 **Well No.:** PMW-07

Sample ID: WT-PMW-07-GW-0213 +-Dup **Sample Date:** 02/26/13

Collected by: C. Jones / J. Gooch **Sample Time:** 1648 / 1705

Analyses: **Quality Control:**

☑ As, Cr, Cu ☑ Cr (VI) ☐ MS/MSD ☑ Duplicate (1705) Time: 1648 / 1705

ID: WT-PMW-07-GW-0213 / WT-PMW-07-GW-0213-Dup

WT-PMW-07-GW-0213-F / WT-PMW-07-GW-0213-F-Dup

Total Depth of Well:	19.93	ft
Depth to Water:	6.11	ft
Water Column	13.82	ft
Well Diameter	2	in
Well Volume:	2.25	gal

Well Volume:
1-inch well = water column (ft) x 0.041 gal/ft
2-inch well = water column (ft) x 0.163 gal/ft
3-inch well = water column (ft) x 0.367 gal/ft
4-inch well = water column (ft) x 0.653 gal/ft

Ground Water Quality Parameter Measurements for Stabilization

Parameter	1	2	3	4	5	6	7	8	Stabilization Criteria
Time (24 hr)	1632	1639	16:46						
Vol. Purged (gal)	1.19	1.70	2.15						
Water Level (ft)	7.05	6.95	6.93						
pH (std. Units)	6.10	6.11	6.11						+/- 0.1
Sp. Conductivity (uS/cm)	875	870	867						+/- 3%
Temperature (°F)	22.56	22.56	22.61						None
Turbidity (NTU)	2.56	3.06	1.93						+/- 10%

Purge Start Time: 1617

Purge End Time: 1647

Total Vol. Purged: 2.15

Purged Dry? (Y/N) No

Method of Purging:

☑ Pump Type: PERISTALTIC

☐ Bailer Type:

Comments:

Intake @ 15.0 ft bls

APPENDIX E

PERMANENT MONITORING WELL SOIL BORING LOGS

(Nine Pages)

TETRA TECH

BORING ID: NA
WELL ID: PMW-01
TOTAL FOOTAGE: 19.43
PROJECT No.: TTEMI-05-003-0134

Project:	Fairfax Street Remedial Investigation	Drilling Co.:	Partridge Well Drilling
Address:	2610 Fairfax Street	Drill Method:	Hollow Stem Auger
	Jacksonville, Florida	Driller:	Michael
		Rig Type:	Geoprobe
		Start Date:	2/20/2012
		Finish Date:	2/20/2012

Casing		Sampler		Groundwater		Survey	
Type:	PVC	Type:	Continuous	Date:	3/1/2012	Lat. North	30.35344807
Size:	2-inch	Size:	1.5-inch	WL (ref.):	N/A	Long. East	81.68642123
				WL (bTOC):	6.55	TOC Elev.	26.11
				GW Elev.:	19.56	Elevations based on NAVD 1988 Datum	

▽ Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-Augered	0.5		9:50			Asphalt		Flush mounted
	1					Dry, whitish-yellow homogenous sand		set in concrete
	1.5							
	2					Grayish-brown, fine, dry sand		2-inch ID sch.
	2.5							40 PVC casing
	3					Yellow and white bands, fine, dry sand		
	4							Portland
	4.2					Chalky, white/gray, fine, dry sand; small root encountered		Cement
	5					Homogenous, damp, white, sugary sand		(Grout)
(5-10)	6					Wet, gray, fine sand	▽	
	7							Bentonite
	8					Yellowish-gray, fine sand		
	9		10:20		WT-PMW-07-SB-C	Yellowish-gray, fine sand with fine (small) roots		
	10					Saturated, fine, sugary, white sand		
(10-15)	11					Saturated, gray sand; lots of orange and yellow inclusions and streaking		
	12							
	13							
	14					Grey sand, saturated; yellowish and orange streaking/banding		Sand Pack
	15							
(15-20)	16					Damp gray and yellow sand layers alternating		10 feet of
	17							2-inch ID sch
	18							40 PVC 0.010-
	19		10:35		WT-PMW-07-SB-D	Slightly coarser, damp sand; same yellow/orange banding as above.		slotted screen
	20							

TETRA TECH

BORING ID: NA
WELL ID: PMW-02
TOTAL FOOTAGE: 19.6
PROJECT No.: TTEMI-05-003-0134

Project: Fairfax Street Remedial Investigation
Address: 2610 Fairfax Street
Jacksonville, Florida

Drilling Co.: Partridge Well Drilling
Drill Method: Hollow Stem Auger
Driller: Michael
Rig Type: Geoprobe
Start Date: 2/20/2012
Finish Date: 2/20/2012

Casing
Type: PVC
Size: 2-inch

Sampler
Type: Continuous
Size: 1.5-inch

Groundwater
Date: 3/1/2012
WL (ref.): N/A
WL (bgs): 7.11
GW Elev.: 19.76

Survey
Lat. North 30.35220838
Long. East 81.68654266
TOC Elev. 26.87
Elevations based on NAVD 1988 Datum

Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-Augered	0.5		10:45			Gravel		Flush mounted
	1					Dry, loose, blackish-gray sand		set in concrete
	2					Lighter gray, dry, loose sand		2-inch ID sch. 40 PVC casing
	3							
	4					Light gray sand with dark yellow inclusions		Portland Cement (grout)
	5							
(5-10)	6					Mottled gray, yellow, and red, coarse, dry sand		
	7							Bentonite
	8							
	9		11:00		WT-PMW-02-SB-C	Homogenous, wet, gray, coarse sand		Sand Pack
	10							
(10-15)	11					Homogenous, coarse, light-gray, saturated sand with small white band at 12.5 ft bgs		
	12							
	13							
	14							
	15							10 feet of
(15-20)	16					Homogenous, coarse, light-gray, saturated sand		2-inch ID sch
	17							40 PVC 0.010-
	18							slotted screen
	19		11:20		WT-PMW-02-SB-D			
	20							

TETRA TECH

BORING ID: NA
WELL ID: PMW-03
TOTAL FOOTAGE: 19.71
PROJECT No.: TTEMI-05-003-0134

Project:	Fairfax Street Remedial Investigation	Drilling Co.:	Partridge Well Drilling
Address:	2610 Fairfax Street	Drill Method:	Hollow Stem Auger
	Jacksonville, Florida	Driller:	Michael
Casing Type:	PVC	Sampler Type:	Continuous
Casing Size:	2-inch	Sampler Size:	1.5-inch
Groundwater Date:	3/1/2012	Rig Type:	Geoprobe
WL (ref.):	N/A	Start Date:	2/20/2012
WL (bgs):	8.14	Finish Date:	2/20/2012
GW Elev.:	18.92	Survey Lat. North	30.35214922
		Long. East	81.68777979
		TOC Elev.	27.06
		Elevations based on NAVD 1988 Datum	

▽ Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-augered	0.5		15:40			Gravel		Flush mounted
	1					Moist, light gray to brown sand		set in concrete
	2							
	2.5					Black, moist, coarse sand		2-inch ID sch.
	3					Dark brown, moist sand, with hard, white, chalky inclusions		40 PVC casing
	3.3					Moist, dark brown sand		
	4					Moist, dark brown sand with small amount of roots		Portland
	4.2							Cement
	5					Light gray, dry, coarse sand		(Grout)
(5-10)	6					Moist, fine, light brown sand		
	7					Saturated, light brown, coarse sand with a small clay component		Bentonite
	8						▽	
	9		16:10		WT-PMW-03-SB-C			
	10							Sand Pack
(10-15)	11					Homogenous, saturated, coarse, light gray sand		
	12							
	13							
	14							
	15							10 feet of
(15-20)	16					Saturated, coarse, light gray sand		2-inch ID sch
	17							40 PVC 0.010-
	18							slotted screen
	19		16:20		WT-PMW-03-SB-D			
	20							

TETRA TECH

BORING ID: NA
WELL ID: PMW-04
TOTAL FOOTAGE: 19.56
PROJECT No.: TTEMI-05-003-0134

Project:	Fairfax Street Remedial Investigation	Drilling Co.:	Partridge Well Drilling
Address:	2610 Fairfax Street	Drill Method:	Hollow Stem Auger
	Jacksonville, Florida	Driller:	Michael
Casing Type:	PVC	Rig Type:	Geoprobe
Casing Size:	2-inch	Start Date:	2/21/2012
Sampler Type:	Continuous	Finish Date:	2/21/2012
Sampler Size:	1.5-inch	▽	Water level during drilling.
Groundwater Date:	3/1/2012		
WL (ref.):	N/A		
WL (bgs):	5.87		
GW Elev.:	19.99		
Survey Lat. North	30.3531654		
Long. East	81.68773286		
TOC Elev.	25.86		
Elevations based on NAVD 1988 Datum			

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-augered	0.5		8:25			Gravel		Flush mounted
	1					Dark brown, loose, coarse, dry sand		set in concrete
	1.3					Dark gray, fine, dry, loose sand		
	1.5					Dark brown, loose, dry sand		2-inch ID sch.
	1.7					Brown, loose, coarse, dry sand		40 PVC casing
	2					Light brown, loose, coarse, dry sand		
	3					Loose, coarse, dry, light brown sand		Portland
	4					Wet, light brown, coarse sand		Cement
	5					-missing-		(Grout)
(5-10)	5.5					Brown, coarse, moist sand		
	6					Light gray/brown, coarse saturated sand	▽	
	7					Yellow/light gray, mottled, coarse, saturated sand		Bentonite
	8		8:43		WT-PMW-04-SB-C	Light gray, coarse, saturated sand		
	9							
	10							
(10-15)	11					Light gray, saturated, coarse sand with very small black inclusions		Sand Pack
	12							
	13							
	14							10 feet of
	15							2-inch ID sch
(15-20)	16					Fine gray, saturated sand with small black inclusions		40 PVC 0.010-
	17							slotted screen
	18							
	19		8:52		WT-PMW-04-SB-D	Fine, gray, saturated sand with light yellow bands of fine sand		
	20					Fine, saturated, light gray sand		

TETRA TECH

BORING ID: NA
WELL ID: PMW-05
TOTAL FOOTAGE: 19.62
PROJECT No.: TTEMI-05-003-0134

Project: Fairfax Street Remedial Investigation
Address: 2610 Fairfax Street
Jacksonville, Florida

Drilling Co.: Partridge Well Drilling
Drill Method: Hollow Stem Auger
Driller: Michael
Rig Type: Geoprobe
Start Date: 2/21/2012
Finish Date: 2/21/2012

Casing: Type: PVC; Size: 2-inch
Sampler: Type: Continuous; Size: 1.5-inch
Groundwater: Date: 3/1/2012; WL (ref.): N/A; WL (bgs): 6.3; GW Elev.: 19.27
Survey: Lat. North 30.354051; Long. East 81.687729; TOC Elev. 25.57
Elevations based on NAVD 1988 Datum

▽ Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-augered	0.5		8:55			Gravel		Flush mounted
	1					Black, dry, fine sand		set in concrete
	2					Black/dark brown, mottled, fine sand/loam, dry		2-inch ID sch. 40 PVC casing
	3					Light gray, fine dry sand		
	4					Yellow/light brown, mottled, fine sand		
	5							Portland Cement (Grout)
(5-10)	5.5					Bright yellow/orange, coarse, damp sand		
	6					Light yellow to gray, coarse, saturated sand	▽	Bentonite
	7							
	7.5					-missing-		
	8					Gray, fine- to medium-grained, saturated sand		
	9		9:18		WT-PMW-05-SB-C			Sand Pack
	10							
(10-15)	11					Coarse- turning to medium-grained at bottom, gray sand; small black inclusions, saturated throughout		
	12							
	13							
	14							10 feet of
	15							2-inch ID sch
(15-20)	16							40 PVC 0.010-
	17							slotted screen
	18							
	19		9:32		WT-PMW-05-SB-D			
	20							

TETRA TECH

BORING ID: NA
WELL ID: PMW-06S
TOTAL FOOTAGE: 19.61
PROJECT No.: TTEMI-05-003-0134

Project:	Fairfax Street Remedial Investigation	Drilling Co.:	Partridge Well Drilling
Address:	2610 Fairfax Street	Drill Method:	Hollow Stem Auger
	Jacksonville, Florida	Driller:	Michael
Casing Type:	PVC	Sampler Type:	Continuous
Casing Size:	2-inch	Sampler Size:	1.5-inch
Groundwater Date:	3/1/2012	Rig Type:	Geoprobe
WL (ref.):	N/A	Start Date:	2/21/2012
WL (bgs):	6.68	Finish Date:	2/21/2012
GW Elev.:	19.21	Survey Lat. North	30.35456974
		Long. East	81.68746258
		TOC Elev.	25.89
		Elevations based on NAVD 1988 Datum	

▽ Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-augered	0.5		9:40			Gravel		Flush mounted set in concrete
	1					Dark brown/black, loose, dry sand		
	2					Loose, black, dry sand; coarse		2-inch ID sch. 40 PVC casing
	3							
	4							
	5					Moist, dark brown, coarse sand		Portland Cement (grout)
(5-10)	6					Dark brown, coarse, saturated sand with fine silty component		
	7					Uniform, coarse, saturated, light brown sand	▽	Bentonite
	8							
	9		10:10		WT-PMW-06S-SB-C	Fine, saturated, light brown sand with clay		Sand Pack
	10							
(10-15)	11					Dark to light gray, coarse, saturated sand		
	12					Light gray, fine, saturated sand		
	13							
	14							10 feet of
	14.5					Dark brown, medium-grained, saturated sand		2-inch ID sch
	15					Gray/white mottled, coarse, saturated sand		40 PVC 0.010-
(15-20)	16					Light gray, saturated, coarse sand		slotted screen
	17							
	18							
	19		10:21		WT-PMW-06S-SB-D			
	20							

TETRA TECH

BORING ID: NA
WELL ID: PMW-06D
TOTAL FOOTAGE: 40.29
PROJECT No.: TTEMI-05-003-0134

Project:	Fairfax Street Remedial Investigation	Drilling Co.:	Partridge Well Drilling
Address:	2610 Fairfax Street	Drill Method:	Hollow Stem Auger
	Jacksonville, Florida	Driller:	Michael
Casing Type:	PVC	Sampler Type:	Continuous
Casing Size:	2-inch	Sampler Size:	1.5-inch
Groundwater Date:	3/1/2012	Rig Type:	Geoprobe
WL (ref.):	N/A	Start Date:	2/22/2012
WL (bgs):	7.73	Finish Date:	2/22/2012
GW Elev.:	17.7	Survey Lat. North	30.35457013
		Long. East	81.68744352
		TOC Elev.	25.43
		Elevations based on NAVD 1988 Datum	

▽ Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-augered	0.5		9:00			Gravel		Flush mounted set in concrete
	1					Moist, medium-grained, black sand		
	2							
	3					Dark gray, moist, coarse sand		
	3.3							
	4					Gray to brown, moist, sandy clay		
	5							
(5-10)	6							2-inch ID sch.
	6.5							
	7					Brown/gray, moist, coarse sand	▽	40 PVC casing
	8							
	8.5		9:35		WT-PMW-06D-SB-C			
	9					Saturated, sandy clay; grey; wood inclusions		
	10							
(10-15)	11					Gray, saturated, medium-grained sand		
	12							
	12.5							
	13					Dark gray, clayey sand; saturated		
	14					Saturated, approx. 2" layers of gray, coarse sand and darker clayey sand		
	15							Portland
(15-20)	16					Light gray, saturated, coarse sand		Cement
	17					Gray, clayey, saturated sand		(Grout)
	18					Gray, saturated, sandy clay		
	19		9:48		WT-PMW-06D-SB-D	Coarse, saturated, clayey, gray sand		
	20					Coarse, gray, saturated sand		

TETRA TECH

BORING ID: NA
WELL ID: PMW-06D
TOTAL FOOTAGE: 40.29
PROJECT No.: TTEMI-05-003-0134

Project:	Fairfax Street Remedial Investigation	Drilling Co.:	Partridge Well Drilling
Address:	2610 Fairfax Street	Drill Method:	Hollow Stem Auger
	Jacksonville, Florida	Driller:	Michael
Casing Type:	PVC	Sampler Type:	Continuous
Casing Size:	2-inch	Sampler Size:	1.5-inch
Groundwater Date:	3/1/2012	Rig Type:	Geoprobe
WL (ref.):	N/A	Start Date:	2/22/2012
WL (bgs):	7.73	Finish Date:	2/22/2012
GW Elev.:	17.7	Survey Lat. North	30.35457013
Elevations based on NAVD 1988 Datum		Long. East	81.68744352
		TOC Elev.	25.43
		▽	Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(20-25)	21					Coarse, light gray, saturated sand		
	22					Fine, light gray, saturated sand		
	22.5					Coarse, light gray, saturated sand		
	23					Coarse, gray, saturated sand		
	24					Gray, silty, saturated sand		
	24.5					Gray, silty clay, saturated		
	25					Gray, medium-grained, saturated sand		
(25-30)	26	Poor Reconvery				Slick, saturated, dark gray clay		
	27							
	27.5							
	28							
	29		10:30		WT-PMW-06D-SB-E	Moist, dark gray clay		
	30							
(30-35)	31					Gray, slick, moist, silty clay		Bentonite
	32							
	33							
	34							Sand Pack
	35					Gray, clayey, moist sand		
(35-40)	36					Gray, moist, sandy clay		
	37					Gray, moist, sandy clay with shells		5 feet of
	38							2-inch ID sch
	38.5		10:57		WT-PMW-06D-SB-F	Light gray, saturated, medium sand		40 PVC 0.010-
	39					Grey, clayey, moist sand with shells		slotted screen
	40							

TETRA TECH

BORING ID: NA
WELL ID: PMW-07
TOTAL FOOTAGE: 19.91
PROJECT No.: TTEMI-05-003-0134

Project:	Fairfax Street Remedial Investigation	Drilling Co.:	Partridge Well Drilling
Address:	2610 Fairfax Street	Drill Method:	Hollow Stem Auger
	Jacksonville, Florida	Driller:	Michael
Casing Type:	PVC	Sampler Type:	Continuous
Casing Size:	2-inch	Sampler Size:	1.5-inch
Groundwater Date:	3/1/2012	Rig Type:	Geoprobe
WL (ref.):	N/A	Start Date:	2/20/2012
WL (bgs):	8.45	Finish Date:	2/20/2012
GW Elev.:	18.27	Survey Lat. North	30.35433175
		Long. East	81.68651886
		TOC Elev.	26.72
		Elevations based on NAVD 1988 Datum	

▽ Water level during drilling.

Core Interval (ft.)	Depth (ft)	Percent Recovery	Time	PID (ppmv)	Samples sent to Lab	Soil Description	Well Completion	Well Completion Notes
(0-5) Hand-augered	0.5		8:50			Gravel		Flush mounted set in concrete
	1					Gravely with black sand		2-inch ID sch. 40 PVC casing
	2							
	3							
	4							Portland Cement (grout)
	5					Black, loamy sand		
(5-10)	6							
	7					White, fine sand; wet		Bentonite
	8					Homogenous, wet, brown sand	▽	
	9		9:35		WT-PMW-07-SB-C			
	10							
(10-15)	11					Homogenous, wet, brown sand with some clay		
	12							
	13					Homogenous, wet, brown sand with less clay		Sand Pack
	14							
	15							
(15-20)	16					Wet, gray sand with some clay		
	17							10 feet of
	18							2-inch ID sch
	19		9:43		WT-PMW-07-SB-D	Wet, gray and yellow sand with very little clay		40 PVC 0.010-
	20							slotted screen

APPENDIX F

FIELD QUALITY CONTROL REVIEW

(21 Pages)

Review of Field Quality Control Samples

Date:	May 21, 2012	**Project No.:**	TTEMI-05-003-0134
		Project Name:	Fairfax Street Wood Treaters RI
Name:	Jessica Vickers		
Signature:			

The following is a summary of the review performed by Tetra Tech for the Contract Laboratory Program and Regional Laboratory analytical data packages for samples collected in February through March 2012 at the Fairfax Street Wood Treaters site for the Remedial Investigation (RI). This review was performed on all field duplicate and quality control (QC) blank (trip, equipment, field, etc.) samples. This review was performed because the U.S. Environmental Protection Agency, Region 4, Science and Ecosystem Support Division, Office of Quality Assurance does not review field QC samples as part of their validation effort. This policy was stated during a data validation webinar held on February 17, 2011. The webinar was attended by personnel from all 10 EPA Regions as well as personnel from various agencies that utilize the EPA CLP and Regional Laboratories for analytical support.

QC Blank Samples: The only QC blanks with detections were field blank WT-FB-02 and equipment rinsate blank WT-RB-03. Sample WT-FB-02 contained volatile organic compound (VOC) methylene chloride and semivolatile organic compound (SVOC) benzaldehyde at concentrations below the minimum reporting limits (MRL). Sample WT-RB-03 contained VOC methylene chloride; SVOCs acetophenone, benzaldehyde, and naphthalene; and pesticides beta-BHC and heptachlor epoxide at concentrations below the MRLs. Based on these detections, the methylene chloride and benzaldehyde results for sample WT-RB-03 were elevated to the MRL and qualified as non-detect (flagged "U").

Field Duplicate Samples: A field duplicate samples were submitted for fourteen surface soil samples (WT-G03-DD-SF-R, WT-G12-DD-01-SF, WT-G16-SF-R, WT-G17-SF-R, WT-RP-22-SF-FY, WT-RP-25-SF-FY, WT-RP-26-SF-FY, WT-RP-35-SF-BY, WT-RP-35-SF-FY, WT-RP-36-SF-BY, WT-RP-47-SF-BY, WT-RP-59-SF-FY, WT-RP-68-SF-BY, and WT-RP-70-SF-FY), two subsurface soil samples (WT-FB-G04SB-A and WT-G05-DD-SB-R), two sediment samples (WT-MC-09-SD and WT-MC-12-SD), one surface water sample (WT-MC-09-SW), and one groundwater sample (WT-PMW-06S-GW). The results listed for the pairs below displayed comparisons that exceeded the 50 percent relative percent difference for soil samples, or the difference between the results exceeded the QC limit of the MRL value for results less than five times the RL. The listed results were qualified as estimated (flagged "J") with an unknown bias for both of the indicated samples.

WT-FB-G04-SB-A: Calcium, lead, strontium, and zinc
WT-G05-DD-SB-R: Arsenic and copper
WT-G12-DD-01-SF: Chromium and copper
WT-G17-SF-R: Arsenic and copper
WT-RP-35-SF-FY: Arsenic and chromium
WT-RP-70-SF-FY: Arsenic

The attached Form I's have been annotated to indicate any additional qualifications that were required due to the exceedances discussed above.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-RB-03 **Lab ID:** E120809-02
Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, QC-1	ug/L	2.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-09-2	Methylene Chloride	~~0.29 J, Q-2~~	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C

QAW 05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-RB-03 **Lab ID: C121119-02** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 6NJ9 DATAC**

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	0.83	J, CLP01	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	~~1.4~~	~~J, CLP01~~ U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1, CLP16	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A **Lab ID:** E120805-04
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.6	U	mg/kg dry	4.6	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	800		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-38-2	Arsenic	0.30		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-39-3	Barium	5.2		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-70-2	Calcium	120	J	mg/kg dry	25	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-47-3	Chromium	0.74		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-89-6	Iron	630		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-92-1	Lead	2.4	J	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7439-95-4	Magnesium	25	U	mg/kg dry	25	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-96-5	Manganese	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-02-0	Nickel	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-09-7	Potassium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-24-6	Strontium	1.9	J	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-32-6	Titanium	5.4		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-62-2	Vanadium	1.2		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A
Lab ID: E120805-04
Station ID: WTFBG04
Matrix: Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-65-5	Yttrium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-66-6	Zinc	7.7	J	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.2	U	mg/kg dry	5.2	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	1100		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-38-2	Arsenic	0.28		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-39-3	Barium	6.8		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-70-2	Calcium	230	J	mg/kg dry	25	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-47-3	Chromium	0.99		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-48-4	Cobalt	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-89-6	Iron	620		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-92-1	Lead	6.3	J	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7439-95-4	Magnesium	31		mg/kg dry	25	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-96-5	Manganese	2.3		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-02-0	Nickel	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-09-7	Potassium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7782-49-2	Selenium	0.49	U, J, QR-1	mg/kg dry	0.49	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-22-4	Silver	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-24-6	Strontium	3.8	J	mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-32-6	Titanium	5.5		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-62-2	Vanadium	1.1		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010

QAW 05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-65-5	Yttrium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-66-6	Zinc	1.1	J	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-DD-SB-R
Lab ID: E121010-12
Station ID: WTG05
Matrix: Subsurface Soil

Date Collected: 3/2/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.6	J	mg/kg dry	0.25	3/28/12 13:19	4/12/12 17:29	EPA 200.8
7440-47-3	Chromium	29		mg/kg dry	0.50	3/28/12 13:13	4/11/12 19:10	EPA 6010
7440-50-8	Copper	1.9	J	mg/kg dry	1.0	3/28/12 13:13	4/11/12 19:10	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-DD-SB-DUP-R **Lab ID:** E121010-11
Station ID: WTG05 **Matrix:** Subsurface Soil

Date Collected: 3/2/12 8:52

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.1	J	mg/kg dry	0.25	3/28/12 13:19	4/12/12 17:05	EPA 200.8
7440-47-3	Chromium	43		mg/kg dry	0.50	3/28/12 13:13	4/11/12 18:07	EPA 6010
7440-50-8	Copper	4.7	J	mg/kg dry	1.0	3/28/12 13:13	4/11/12 18:07	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SF
Lab ID: E121006-56
Station ID: WTG12
Matrix: Surface Soil

Date Collected: 2/25/12 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	16		mg/kg dry	0.99	3/20/12 10:46	3/22/12 20:04	EPA 200.8
7440-47-3	Chromium	30	J	mg/kg dry	0.50	3/20/12 10:39	3/26/12 15:10	EPA 6010
7440-50-8	Copper	15	J	mg/kg dry	0.99	3/20/12 10:39	3/26/12 15:10	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SF-DUP **Lab ID:** E121006-57
Station ID: WTG12 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	26		mg/kg dry	1.0	3/20/12 10:46	3/22/12 20:09	EPA 200.8
7440-47-3	Chromium	54	J	mg/kg dry	0.50	3/20/12 10:39	3/26/12 15:15	EPA 6010
7440-50-8	Copper	27	J	mg/kg dry	1.0	3/20/12 10:39	3/26/12 15:15	EPA 6010

qaw
05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G17-SF-R
Lab ID: E121010-39
Station ID: WTG17
Matrix: Surface Soil

Date Collected: 3/2/12 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.6	U	mg/kg dry	5.6	3/21/12 9:06	3/22/12 15:08	SM 3500 Cr
7440-38-2	Arsenic	440	J	mg/kg dry	15	3/28/12 13:22	4/09/12 19:01	EPA 6010
7440-47-3	Chromium	620		mg/kg dry	1.5	3/28/12 13:22	4/09/12 19:01	EPA 6010
7440-50-8	Copper	330	J	mg/kg dry	3.0	3/28/12 13:22	4/09/12 19:01	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G17-SF-DUP-R **Lab ID:** E121010-38
Station ID: WTG17 **Matrix:** Surface Soil

Date Collected: 3/2/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.7	U	mg/kg dry	4.7	3/21/12 9:06	3/22/12 15:07	SM 3500 Cr
7440-38-2	Arsenic	120	J	mg/kg dry	20	3/28/12 13:22	4/09/12 18:54	EPA 6010
7440-47-3	Chromium	390		mg/kg dry	2.0	3/28/12 13:22	4/09/12 18:54	EPA 6010
7440-50-8	Copper	100	J	mg/kg dry	4.0	3/28/12 13:22	4/09/12 18:54	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-FY
Lab ID: E120904-09
Station ID: WTRP35
Matrix: Surface Soil

Date Collected: 2/28/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.4	U	mg/kg dry	5.4	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	1.4	J	mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:34	EPA 200.8
7440-47-3	Chromium	4.3	J	mg/kg dry	0.50	3/15/12 14:42	3/17/12 14:06	EPA 6010
7440-50-8	Copper	9.7		mg/kg dry	0.99	3/15/12 14:42	3/17/12 14:06	EPA 6010

qaw
05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-FY-DUP **Lab ID:** E120904-10
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.3	U	mg/kg dry	5.3	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	2.6	J	mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:39	EPA 200.8
7440-47-3	Chromium	7.7	J	mg/kg dry	0.50	3/15/12 14:42	3/17/12 14:12	EPA 6010
7440-50-8	Copper	12		mg/kg dry	1.0	3/15/12 14:42	3/17/12 14:12	EPA 6010

gaw
05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-70-SF-FY
Station ID: WTRP70
Lab ID: E121009-45
Matrix: Surface Soil

Date Collected: 3/1/12 8:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.3	J	mg/kg dry	0.25	3/27/12 14:13	4/06/12 13:51	EPA 200.8
7440-47-3	Chromium	11		mg/kg dry	0.49	3/27/12 14:08	4/06/12 14:10	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.98	3/27/12 14:08	4/06/12 14:10	EPA 6010

05/18/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

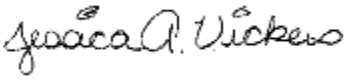
Sample ID: WT-RP-70-SF-FY-DUP
Lab ID: E121009-46
Station ID: WTRP70
Matrix: Surface Soil

Date Collected: 3/1/12 8:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.9	J	mg/kg dry	0.25	3/27/12 14:13	4/06/12 14:06	EPA 200.8
7440-47-3	Chromium	13		mg/kg dry	0.50	3/27/12 14:08	4/06/12 14:18	EPA 6010
7440-50-8	Copper	10		mg/kg dry	0.99	3/27/12 14:08	4/06/12 14:18	EPA 6010

qaw
05/18/12

Review of Field Quality Control Samples

Date:	September 24, 2012	**Project No.:**	TTEMI-05-003-0134
		Project Name:	Fairfax Street Wood Treaters RI
Name:	Jessica Vickers		
Signature:			

The following is a summary of the review performed by Tetra Tech for the Regional Laboratory analytical data package for groundwater samples collected in August 2012 at the Fairfax Street Wood Treaters site for the Remedial Investigation (RI). This review was performed on all field duplicate and quality control (QC) blank (trip, equipment, field, etc.) samples. This review was performed because the U.S. Environmental Protection Agency, Region 4, Science and Ecosystem Support Division, Office of Quality Assurance does not review field QC samples as part of their validation effort. This policy was stated during a data validation webinar held on February 17, 2011. The webinar was attended by personnel from all 10 EPA Regions as well as personnel from various agencies that utilize the EPA CLP and Regional Laboratories for analytical support.

QC Blank Samples: There were no detections for field blank WT-FB-04, filter blank WT-BF-02, or preservative blank WT-PB-03.

Field Duplicate Samples: A field duplicate sample was submitted for groundwater sample WT-PMW-05-GW-0812. The results for the pair were within the QC criteria of 25 percent relative percent difference or less than one times the minimum reporting limit (MRL) if at least one result was below the MRL.

Total Versus Dissolved Results: For sample WT-PMW-05-GW-0812-DUP, the total copper result was not detected at the MRL of 1.0 micrograms per liter (µg/L) and the dissolved copper result was 2.2 µg/L. Using the MRL in the calculation, these results exceed the acceptance criteria of either less than 10 percent difference or a difference of less than the MRL. Therefore, the copper results were qualified as estimated with an unknown bias (flagged "UJ" for the total result and "J" for the dissolved result).

The attached Form I's have been annotated to indicate any additional qualifications that were required due to the exceedances discussed above.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0579, Fairfax Street Wood Treaters - Reported by Terri White

Total Metals

Project: 12-0579, Fairfax Street Wood Treaters

Sample ID: WT-PMW-05-GW-0812-DUP **Lab ID:** E123402-13
Station ID: WTPMW05 **Matrix:** Groundwater

Date Collected: 8/15/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.1		ug/L	1.0	9/05/12 12:54	9/12/12 18:23	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	9/05/12 12:54	9/12/12 18:23	EPA 200.8
7440-50-8	Copper	1.0	UJ	ug/L	1.0	9/05/12 12:54	9/12/12 18:23	EPA 200.8

09/24/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0579, Fairfax Street Wood Treaters - Reported by Terri White

Total Metals

Project: 12-0579, Fairfax Street Wood Treaters

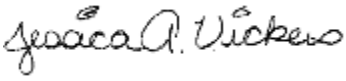
Sample ID: WT-PMW-05-GW-0812-F-DUP **Lab ID:** E123402-15
Station ID: WTPMW05 **Matrix:** Groundwater

Date Collected: 8/15/12 13:34

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.8		ug/L	1.0	9/05/12 12:54	9/12/12 18:31	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	9/05/12 12:54	9/12/12 18:31	EPA 200.8
7440-50-8	Copper	2.2	J	ug/L	1.0	9/05/12 12:54	9/12/12 18:31	EPA 200.8

09/24/12

Review of Field Quality Control Samples

Date:	April 16, 2013	**Project No.:**	TTEMI-05-003-0134
		Project Name:	Fairfax Street Wood Treaters RI
Name:	Jessica Vickers		
Signature:			

The following is a summary of the review performed by Tetra Tech for the Contract Laboratory Program and Regional Laboratory analytical data package for samples collected in February 2013 at the Fairfax Street Wood Treaters site for the Remedial Investigation (RI). This review was performed on all field duplicate and quality control (QC) blank (trip, equipment, field, etc.) samples. This review was performed because the U.S. Environmental Protection Agency, Region 4, Science and Ecosystem Support Division, Office of Quality Assurance does not review field QC samples as part of their validation effort. This policy was stated during a data validation webinar held on February 17, 2011. The webinar was attended by personnel from all 10 EPA Regions as well as personnel from various agencies that utilize the EPA CLP and Regional Laboratories for analytical support.

QC Blank Samples: There were no detections for equipment rinsate blank WT-RB-06, field blank WT-FB-05, filter blank WT-BF-03, or preservative blank WT-PB-04.

Field Duplicate Samples: A field duplicate pair was submitted for three surface soil samples (WT-RP-93-SF-BY, WT-RP-93-SF-FY, and WT-RP-95-SF-FY) and one groundwater sample (WT-PMW-07-GW-0213). The results for the pairs were within the QC criteria of 25 percent relative percent difference (RPD) for water and 50 percent RPD for soil, or less than one times the minimum reporting limit (MRL) if at least one result was below the MRL.

Total Versus Dissolved Results: The groundwater samples met the acceptance criteria of either less than 10 percent difference or a difference of less than the MRL for samples where the dissolved result was higher than the total result.

No additional qualifications were required based on the review described above.

APPENDIX G

ANALYTICAL DATA PACKAGES

(1,274 Sheets)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

April 4, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0208, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Sallie Hale
ASB Organic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Volatile Organics (VOA)	
Volatile organic compounds	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

SAMPLES INCLUDED IN THIS REPORT

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WT-BS-03	E120802-01	Trip Blank - Soil	2/20/12 15:40	2/21/12 9:29
WT-FB-G01-SB-A	E120802-02	Subsurface Soil	2/20/12 12:20	2/21/12 9:29
WT-FB-G01-SB-B	E120802-03	Subsurface Soil	2/20/12 12:25	2/21/12 9:29
WT-FB-G02-SB-A	E120802-04	Subsurface Soil	2/20/12 15:15	2/21/12 9:29
WT-FB-G02-SB-B	E120802-05	Subsurface Soil	2/20/12 15:20	2/21/12 9:29
WT-BS-04	E120805-01	Trip Blank - Soil	2/21/12 15:53	2/22/12 10:03
WT-FB-G03-SB-A	E120805-02	Subsurface Soil	2/21/12 11:05	2/22/12 10:03
WT-FB-G03-SB-B	E120805-03	Subsurface Soil	2/21/12 11:10	2/22/12 10:03
WT-FB-G04-SB-A	E120805-04	Subsurface Soil	2/21/12 14:10	2/22/12 10:03
WT-FB-G04-SB-A-DUP	E120805-05	Subsurface Soil	2/21/12 14:20	2/22/12 10:03
WT-FB-G04-SB-B	E120805-06	Subsurface Soil	2/21/12 14:15	2/22/12 10:03
WT-FB-G05-SB-A	E120805-07	Subsurface Soil	2/21/12 15:50	2/22/12 10:03
WT-FB-G05-SB-B	E120805-08	Subsurface Soil	2/21/12 15:55	2/22/12 10:03

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-3	Laboratory Control Spike Precision outside method control limits
QM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-03 **Lab ID:** E120802-01

Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/20/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.98	U	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-34-3	1,1-Dichloroethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
563-58-6	1,1-Dichloropropene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.49	U, J, QL-1	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.8	U	ug/kg dry	9.8	2/20/12 15:40	2/28/12 11:34	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
107-06-2	1,2-Dichloroethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
78-87-5	1,2-Dichloropropane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
142-28-9	1,3-Dichloropropane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
594-20-7	2,2-Dichloropropane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
67-64-1	Acetone	3.9	U	ug/kg dry	3.9	2/20/12 15:40	2/28/12 11:34	EPA 8260C
71-43-2	Benzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
108-86-1	Bromobenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
74-97-5	Bromochloromethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-03 **Lab ID:** E120802-01

Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/20/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-25-2	Bromoform	9.8	U	ug/kg dry	9.8	2/20/12 15:40	2/28/12 11:34	EPA 8260C
74-83-9	Bromomethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-15-0	Carbon disulfide	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
56-23-5	Carbon Tetrachloride	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
108-90-7	Chlorobenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-00-3	Chloroethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
67-66-3	Chloroform	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
74-87-3	Chloromethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.98	U	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
110-82-7	Cyclohexane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
124-48-1	Dibromochloromethane	0.98	U	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
74-95-3	Dibromomethane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
100-41-4	Ethyl Benzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
87-68-3	Hexachlorobutadiene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
98-82-8	Isopropylbenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
79-20-9	Methyl Acetate	0.98	U, J, QC-1, QL-1	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.98	U	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.98	U	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	2.0	U	ug/kg dry	2.0	2/20/12 15:40	2/28/12 11:34	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
108-87-2	Methylcyclohexane	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-09-2	Methylene Chloride	0.98	U	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
104-51-8	n-Butylbenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
103-65-1	n-Propylbenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
95-49-8	o-Chlorotoluene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-03 **Lab ID:** E120802-01

Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/20/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
106-43-4	p-Chlorotoluene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
99-87-6	p-Isopropyltoluene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
135-98-8	sec-Butylbenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
100-42-5	Styrene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
98-06-6	tert-Butylbenzene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
108-88-3	Toluene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.98	U	ug/kg dry	0.98	2/20/12 15:40	2/28/12 11:34	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
75-01-4	Vinyl chloride	0.49	U	ug/kg dry	0.49	2/20/12 15:40	2/28/12 11:34	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	2/20/12 15:40	2/28/12 11:34	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-A **Lab ID:** E120802-02
Station ID: WTFBG01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.90	U	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-34-3	1,1-Dichloroethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
563-58-6	1,1-Dichloropropene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.45	U, J, QL-1	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.0	U	ug/kg dry	9.0	2/20/12 12:20	2/28/12 12:06	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
107-06-2	1,2-Dichloroethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
78-87-5	1,2-Dichloropropane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
142-28-9	1,3-Dichloropropane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
594-20-7	2,2-Dichloropropane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
67-64-1	Acetone	3.6	U	ug/kg dry	3.6	2/20/12 12:20	2/28/12 12:06	EPA 8260C
71-43-2	Benzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
108-86-1	Bromobenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
74-97-5	Bromochloromethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-A **Lab ID:** E120802-02
Station ID: WTFBG01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-25-2	Bromoform	9.0	U	ug/kg dry	9.0	2/20/12 12:20	2/28/12 12:06	EPA 8260C
74-83-9	Bromomethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-15-0	Carbon disulfide	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
56-23-5	Carbon Tetrachloride	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
108-90-7	Chlorobenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-00-3	Chloroethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
67-66-3	Chloroform	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
74-87-3	Chloromethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.90	U	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
110-82-7	Cyclohexane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
124-48-1	Dibromochloromethane	0.90	U	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
74-95-3	Dibromomethane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
100-41-4	Ethyl Benzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
87-68-3	Hexachlorobutadiene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
98-82-8	Isopropylbenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
79-20-9	Methyl Acetate	0.90	U, J, QC-1, QL-1	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.90	U	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.90	U	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.8	U	ug/kg dry	1.8	2/20/12 12:20	2/28/12 12:06	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
108-87-2	Methylcyclohexane	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-09-2	Methylene Chloride	0.90	U	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
104-51-8	n-Butylbenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
103-65-1	n-Propylbenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
95-49-8	o-Chlorotoluene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-A **Lab ID:** E120802-02
Station ID: WTFBG01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
106-43-4	p-Chlorotoluene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
99-87-6	p-Isopropyltoluene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
135-98-8	sec-Butylbenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
100-42-5	Styrene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
98-06-6	tert-Butylbenzene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
108-88-3	Toluene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.90	U	ug/kg dry	0.90	2/20/12 12:20	2/28/12 12:06	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
75-01-4	Vinyl chloride	0.45	U	ug/kg dry	0.45	2/20/12 12:20	2/28/12 12:06	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/20/12 12:20	2/28/12 12:06	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-B **Lab ID:** E120802-03
Station ID: WTFBG01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.88	U	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-34-3	1,1-Dichloroethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
563-58-6	1,1-Dichloropropene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.44	U, J, QL-1	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.8	U	ug/kg dry	8.8	2/20/12 12:25	2/28/12 12:38	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
107-06-2	1,2-Dichloroethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
78-87-5	1,2-Dichloropropane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
142-28-9	1,3-Dichloropropane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
594-20-7	2,2-Dichloropropane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
67-64-1	Acetone	3.5	U	ug/kg dry	3.5	2/20/12 12:25	2/28/12 12:38	EPA 8260C
71-43-2	Benzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
108-86-1	Bromobenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
74-97-5	Bromochloromethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-B **Lab ID:** E120802-03
Station ID: WTFBG01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-25-2	Bromoform	8.8	U	ug/kg dry	8.8	2/20/12 12:25	2/28/12 12:38	EPA 8260C
74-83-9	Bromomethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-15-0	Carbon disulfide	0.47		ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
56-23-5	Carbon Tetrachloride	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
108-90-7	Chlorobenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-00-3	Chloroethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
67-66-3	Chloroform	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
74-87-3	Chloromethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.88	U	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
110-82-7	Cyclohexane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
124-48-1	Dibromochloromethane	0.88	U	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
74-95-3	Dibromomethane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
100-41-4	Ethyl Benzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
87-68-3	Hexachlorobutadiene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
98-82-8	Isopropylbenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
79-20-9	Methyl Acetate	0.88	U, J, QC-1, QL-1	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.88	U	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.88	U	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.8	U	ug/kg dry	1.8	2/20/12 12:25	2/28/12 12:38	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
108-87-2	Methylcyclohexane	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-09-2	Methylene Chloride	0.88	U	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
104-51-8	n-Butylbenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
103-65-1	n-Propylbenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
95-49-8	o-Chlorotoluene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-B **Lab ID:** E120802-03
Station ID: WTFBG01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
106-43-4	p-Chlorotoluene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
99-87-6	p-Isopropyltoluene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
135-98-8	sec-Butylbenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
100-42-5	Styrene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
98-06-6	tert-Butylbenzene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
108-88-3	Toluene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.88	U	ug/kg dry	0.88	2/20/12 12:25	2/28/12 12:38	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
75-01-4	Vinyl chloride	0.44	U	ug/kg dry	0.44	2/20/12 12:25	2/28/12 12:38	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/20/12 12:25	2/28/12 12:38	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-A **Lab ID:** E120802-04
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.3	U	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-34-3	1,1-Dichloroethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
563-58-6	1,1-Dichloropropene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.63	U, J, QL-1	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	13	U	ug/kg dry	13	2/20/12 15:15	2/28/12 13:10	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
107-06-2	1,2-Dichloroethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
78-87-5	1,2-Dichloropropane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
142-28-9	1,3-Dichloropropane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
594-20-7	2,2-Dichloropropane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
67-64-1	Acetone	7.4	U, B-2	ug/kg dry	7.4	2/20/12 15:15	2/28/12 13:10	EPA 8260C
71-43-2	Benzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
108-86-1	Bromobenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
74-97-5	Bromochloromethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-A **Lab ID:** E120802-04
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-25-2	Bromoform	13	U	ug/kg dry	13	2/20/12 15:15	2/28/12 13:10	EPA 8260C
74-83-9	Bromomethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-15-0	Carbon disulfide	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
56-23-5	Carbon Tetrachloride	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
108-90-7	Chlorobenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-00-3	Chloroethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
67-66-3	Chloroform	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
74-87-3	Chloromethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	1.3	U	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
110-82-7	Cyclohexane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
124-48-1	Dibromochloromethane	1.3	U	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
74-95-3	Dibromomethane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.63	U, J, QM-3	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
100-41-4	Ethyl Benzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
87-68-3	Hexachlorobutadiene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
98-82-8	Isopropylbenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
79-20-9	Methyl Acetate	1.3	U, J, QC-1, QL-1	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.3	U	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.3	U	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	2.5	U	ug/kg dry	2.5	2/20/12 15:15	2/28/12 13:10	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
108-87-2	Methylcyclohexane	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-09-2	Methylene Chloride	1.3	U	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
104-51-8	n-Butylbenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
103-65-1	n-Propylbenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
95-49-8	o-Chlorotoluene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-A **Lab ID:** E120802-04
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
106-43-4	p-Chlorotoluene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
99-87-6	p-Isopropyltoluene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
135-98-8	sec-Butylbenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
100-42-5	Styrene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
98-06-6	tert-Butylbenzene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
108-88-3	Toluene	0.56	J, Q-2	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	1.3	U	ug/kg dry	1.3	2/20/12 15:15	2/28/12 13:10	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
75-01-4	Vinyl chloride	0.63	U	ug/kg dry	0.63	2/20/12 15:15	2/28/12 13:10	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	2/20/12 15:15	2/28/12 13:10	EPA 8260C

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-B **Lab ID:** E120802-05
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.86	U	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-34-3	1,1-Dichloroethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
563-58-6	1,1-Dichloropropene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.43	U, J, QL-1	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.6	U	ug/kg dry	8.6	2/20/12 15:20	2/28/12 13:42	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
107-06-2	1,2-Dichloroethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
78-87-5	1,2-Dichloropropane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
142-28-9	1,3-Dichloropropane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
594-20-7	2,2-Dichloropropane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
67-64-1	Acetone	3.4	U	ug/kg dry	3.4	2/20/12 15:20	2/28/12 13:42	EPA 8260C
71-43-2	Benzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
108-86-1	Bromobenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
74-97-5	Bromochloromethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-B **Lab ID:** E120802-05
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-25-2	Bromoform	8.6	U	ug/kg dry	8.6	2/20/12 15:20	2/28/12 13:42	EPA 8260C
74-83-9	Bromomethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-15-0	Carbon disulfide	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
56-23-5	Carbon Tetrachloride	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
108-90-7	Chlorobenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-00-3	Chloroethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
67-66-3	Chloroform	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
74-87-3	Chloromethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.86	U	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
110-82-7	Cyclohexane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
124-48-1	Dibromochloromethane	0.86	U	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
74-95-3	Dibromomethane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
100-41-4	Ethyl Benzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
87-68-3	Hexachlorobutadiene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
98-82-8	Isopropylbenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
79-20-9	Methyl Acetate	0.86	U, J, QC-1, QL-1	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.86	U	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.86	U	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.7	U	ug/kg dry	1.7	2/20/12 15:20	2/28/12 13:42	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
108-87-2	Methylcyclohexane	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-09-2	Methylene Chloride	0.86	U	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
104-51-8	n-Butylbenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
103-65-1	n-Propylbenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
95-49-8	o-Chlorotoluene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-B **Lab ID:** E120802-05
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
106-43-4	p-Chlorotoluene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
99-87-6	p-Isopropyltoluene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
135-98-8	sec-Butylbenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
100-42-5	Styrene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
98-06-6	tert-Butylbenzene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
108-88-3	Toluene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.86	U	ug/kg dry	0.86	2/20/12 15:20	2/28/12 13:42	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
75-01-4	Vinyl chloride	0.43	U	ug/kg dry	0.43	2/20/12 15:20	2/28/12 13:42	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/20/12 15:20	2/28/12 13:42	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-04 **Lab ID:** E120805-01

Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/21/12 15:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.6	U	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
71-55-6	1,1,1-Trichloroethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
79-00-5	1,1,2-Trichloroethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-34-3	1,1-Dichloroethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
563-58-6	1,1-Dichloropropene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
96-18-4	1,2,3-Trichloropropane	1.3	U, J, QL-1	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	26	U	ug/kg dry	26	2/21/12 15:53	2/28/12 17:58	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
95-50-1	1,2-Dichlorobenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
107-06-2	1,2-Dichloroethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
78-87-5	1,2-Dichloropropane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
541-73-1	1,3-Dichlorobenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
142-28-9	1,3-Dichloropropane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
106-46-7	1,4-Dichlorobenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
594-20-7	2,2-Dichloropropane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
67-64-1	Acetone	11	U	ug/kg dry	11	2/21/12 15:53	2/28/12 17:58	EPA 8260C
71-43-2	Benzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
108-86-1	Bromobenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
74-97-5	Bromochloromethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-04 **Lab ID:** E120805-01
Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/21/12 15:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-25-2	Bromoform	26	U	ug/kg dry	26	2/21/12 15:53	2/28/12 17:58	EPA 8260C
74-83-9	Bromomethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-15-0	Carbon disulfide	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
56-23-5	Carbon Tetrachloride	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
108-90-7	Chlorobenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-00-3	Chloroethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
67-66-3	Chloroform	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
74-87-3	Chloromethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	2.6	U	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
110-82-7	Cyclohexane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
124-48-1	Dibromochloromethane	2.6	U	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
74-95-3	Dibromomethane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
100-41-4	Ethyl Benzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
87-68-3	Hexachlorobutadiene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
98-82-8	Isopropylbenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
79-20-9	Methyl Acetate	2.6	U, J, QC-1, QL-1	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
591-78-6	Methyl Butyl Ketone	2.6	U	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
78-93-3	Methyl Ethyl Ketone	2.6	U	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	5.3	U	ug/kg dry	5.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
108-87-2	Methylcyclohexane	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-09-2	Methylene Chloride	2.6	U	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
104-51-8	n-Butylbenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
103-65-1	n-Propylbenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
95-49-8	o-Chlorotoluene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-04 **Lab ID:** E120805-01

Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/21/12 15:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
106-43-4	p-Chlorotoluene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
99-87-6	p-Isopropyltoluene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
135-98-8	sec-Butylbenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
100-42-5	Styrene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
98-06-6	tert-Butylbenzene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
108-88-3	Toluene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	2.6	U	ug/kg dry	2.6	2/21/12 15:53	2/28/12 17:58	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
75-01-4	Vinyl chloride	1.3	U	ug/kg dry	1.3	2/21/12 15:53	2/28/12 17:58	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	30	U	ug/kg dry	30	2/21/12 15:53	2/28/12 17:58	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-A **Lab ID:** E120805-02
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.92	U	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-34-3	1,1-Dichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
563-58-6	1,1-Dichloropropene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.46	U, J, QL-1	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.2	U	ug/kg dry	9.2	2/21/12 11:05	2/28/12 14:46	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
107-06-2	1,2-Dichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
78-87-5	1,2-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
142-28-9	1,3-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
594-20-7	2,2-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
67-64-1	Acetone	3.7	U	ug/kg dry	3.7	2/21/12 11:05	2/28/12 14:46	EPA 8260C
71-43-2	Benzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
108-86-1	Bromobenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
74-97-5	Bromochloromethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-A **Lab ID:** E120805-02
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-25-2	Bromoform	9.2	U	ug/kg dry	9.2	2/21/12 11:05	2/28/12 14:46	EPA 8260C
74-83-9	Bromomethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-15-0	Carbon disulfide	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
56-23-5	Carbon Tetrachloride	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
108-90-7	Chlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-00-3	Chloroethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
67-66-3	Chloroform	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
74-87-3	Chloromethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.92	U	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
110-82-7	Cyclohexane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
124-48-1	Dibromochloromethane	0.92	U	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
74-95-3	Dibromomethane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
100-41-4	Ethyl Benzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
87-68-3	Hexachlorobutadiene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
98-82-8	Isopropylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
79-20-9	Methyl Acetate	0.92	U, J, QC-1, QL-1	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.92	U	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.92	U	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.8	U	ug/kg dry	1.8	2/21/12 11:05	2/28/12 14:46	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
108-87-2	Methylcyclohexane	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-09-2	Methylene Chloride	0.92	U	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
104-51-8	n-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
103-65-1	n-Propylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
95-49-8	o-Chlorotoluene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-A **Lab ID:** E120805-02
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
106-43-4	p-Chlorotoluene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
99-87-6	p-Isopropyltoluene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
135-98-8	sec-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
100-42-5	Styrene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
98-06-6	tert-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
108-88-3	Toluene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.92	U	ug/kg dry	0.92	2/21/12 11:05	2/28/12 14:46	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
75-01-4	Vinyl chloride	0.46	U	ug/kg dry	0.46	2/21/12 11:05	2/28/12 14:46	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/21/12 11:05	2/28/12 14:46	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-B **Lab ID:** E120805-03
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	53	U	ug/kg dry	53	2/21/12 11:10	3/02/12 12:11	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
71-55-6	1,1,1-Trichloroethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
79-00-5	1,1,2-Trichloroethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-34-3	1,1-Dichloroethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
563-58-6	1,1-Dichloropropene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
96-18-4	1,2,3-Trichloropropane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	530	U	ug/kg dry	530	2/21/12 11:10	3/02/12 12:11	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
95-50-1	1,2-Dichlorobenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
107-06-2	1,2-Dichloroethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
78-87-5	1,2-Dichloropropane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
541-73-1	1,3-Dichlorobenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
142-28-9	1,3-Dichloropropane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
106-46-7	1,4-Dichlorobenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
594-20-7	2,2-Dichloropropane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
67-64-1	Acetone	210	U	ug/kg dry	210	2/21/12 11:10	3/02/12 12:11	EPA 8260C
71-43-2	Benzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
108-86-1	Bromobenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
74-97-5	Bromochloromethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-B **Lab ID:** E120805-03
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-25-2	Bromoform	530	U	ug/kg dry	530	2/21/12 11:10	3/02/12 12:11	EPA 8260C
74-83-9	Bromomethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-15-0	Carbon disulfide	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
56-23-5	Carbon Tetrachloride	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
108-90-7	Chlorobenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-00-3	Chloroethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
67-66-3	Chloroform	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
74-87-3	Chloromethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	53	U	ug/kg dry	53	2/21/12 11:10	3/02/12 12:11	EPA 8260C
110-82-7	Cyclohexane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
124-48-1	Dibromochloromethane	53	U	ug/kg dry	53	2/21/12 11:10	3/02/12 12:11	EPA 8260C
74-95-3	Dibromomethane	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	26	U, J, QL-3	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
100-41-4	Ethyl Benzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
87-68-3	Hexachlorobutadiene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
98-82-8	Isopropylbenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
79-20-9	Methyl Acetate	210	J, QL-1	ug/kg dry	53	2/21/12 11:10	3/02/12 12:11	EPA 8260C
591-78-6	Methyl Butyl Ketone	53	U	ug/kg dry	53	2/21/12 11:10	3/02/12 12:11	EPA 8260C
78-93-3	Methyl Ethyl Ketone	53	U	ug/kg dry	53	2/21/12 11:10	3/02/12 12:11	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	110	U	ug/kg dry	110	2/21/12 11:10	3/02/12 12:11	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
108-87-2	Methylcyclohexane	37		ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-09-2	Methylene Chloride	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
104-51-8	n-Butylbenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
103-65-1	n-Propylbenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
95-49-8	o-Chlorotoluene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
95-47-6	o-Xylene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-B **Lab ID:** E120805-03
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
99-87-6	p-Isopropyltoluene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
135-98-8	sec-Butylbenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
100-42-5	Styrene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
98-06-6	tert-Butylbenzene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
108-88-3	Toluene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	53	U	ug/kg dry	53	2/21/12 11:10	3/02/12 12:11	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
75-01-4	Vinyl chloride	26	U	ug/kg dry	26	2/21/12 11:10	3/02/12 12:11	EPA 8260C
Tentatively Identified Compounds:								
R4-8000786	Methylnaphthalene (TIC)	10000	NJ	ug/kg dry		2/21/12 11:10	3/02/12 12:11	EPA 8260C
R4-8000366	Naphthalene (TIC)	7000	NJ	ug/kg dry		2/21/12 11:10	3/02/12 12:11	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A **Lab ID:** E120805-04
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.91	U	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-34-3	1,1-Dichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
563-58-6	1,1-Dichloropropene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.46	U, J, QL-1	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.1	U	ug/kg dry	9.1	2/21/12 14:10	2/28/12 17:26	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
107-06-2	1,2-Dichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
78-87-5	1,2-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
142-28-9	1,3-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
594-20-7	2,2-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
67-64-1	Acetone	3.6	U	ug/kg dry	3.6	2/21/12 14:10	2/28/12 17:26	EPA 8260C
71-43-2	Benzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
108-86-1	Bromobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
74-97-5	Bromochloromethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A **Lab ID:** E120805-04
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-25-2	Bromoform	9.1	U	ug/kg dry	9.1	2/21/12 14:10	2/28/12 17:26	EPA 8260C
74-83-9	Bromomethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-15-0	Carbon disulfide	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
56-23-5	Carbon Tetrachloride	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
108-90-7	Chlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-00-3	Chloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
67-66-3	Chloroform	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
74-87-3	Chloromethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.91	U	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
110-82-7	Cyclohexane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
124-48-1	Dibromochloromethane	0.91	U	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
74-95-3	Dibromomethane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
100-41-4	Ethyl Benzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
87-68-3	Hexachlorobutadiene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
98-82-8	Isopropylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
79-20-9	Methyl Acetate	0.91	U, J, QC-1, QL-1	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.91	U	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.91	U	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.8	U	ug/kg dry	1.8	2/21/12 14:10	2/28/12 17:26	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
108-87-2	Methylcyclohexane	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-09-2	Methylene Chloride	0.91	U	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
104-51-8	n-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
103-65-1	n-Propylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
95-49-8	o-Chlorotoluene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A **Lab ID:** E120805-04
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
106-43-4	p-Chlorotoluene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
99-87-6	p-Isopropyltoluene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
135-98-8	sec-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
100-42-5	Styrene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
98-06-6	tert-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
108-88-3	Toluene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.91	U	ug/kg dry	0.91	2/21/12 14:10	2/28/12 17:26	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
75-01-4	Vinyl chloride	0.46	U	ug/kg dry	0.46	2/21/12 14:10	2/28/12 17:26	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/21/12 14:10	2/28/12 17:26	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.91	U	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-34-3	1,1-Dichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
563-58-6	1,1-Dichloropropene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.46	U, J, QL-1	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.1	U	ug/kg dry	9.1	2/21/12 14:20	2/28/12 15:18	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
107-06-2	1,2-Dichloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
78-87-5	1,2-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
142-28-9	1,3-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
594-20-7	2,2-Dichloropropane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
67-64-1	Acetone	3.6	U	ug/kg dry	3.6	2/21/12 14:20	2/28/12 15:18	EPA 8260C
71-43-2	Benzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
108-86-1	Bromobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
74-97-5	Bromochloromethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-25-2	Bromoform	9.1	U	ug/kg dry	9.1	2/21/12 14:20	2/28/12 15:18	EPA 8260C
74-83-9	Bromomethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-15-0	Carbon disulfide	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
56-23-5	Carbon Tetrachloride	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
108-90-7	Chlorobenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-00-3	Chloroethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
67-66-3	Chloroform	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
74-87-3	Chloromethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.91	U	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
110-82-7	Cyclohexane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
124-48-1	Dibromochloromethane	0.91	U	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
74-95-3	Dibromomethane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
100-41-4	Ethyl Benzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
87-68-3	Hexachlorobutadiene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
98-82-8	Isopropylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
79-20-9	Methyl Acetate	0.91	U, J, QC-1, QL-1	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.91	U	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.91	U	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.8	U	ug/kg dry	1.8	2/21/12 14:20	2/28/12 15:18	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
108-87-2	Methylcyclohexane	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-09-2	Methylene Chloride	0.91	U	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
104-51-8	n-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
103-65-1	n-Propylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
95-49-8	o-Chlorotoluene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
106-43-4	p-Chlorotoluene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
99-87-6	p-Isopropyltoluene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
135-98-8	sec-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
100-42-5	Styrene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
98-06-6	tert-Butylbenzene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
108-88-3	Toluene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.91	U	ug/kg dry	0.91	2/21/12 14:20	2/28/12 15:18	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
75-01-4	Vinyl chloride	0.46	U	ug/kg dry	0.46	2/21/12 14:20	2/28/12 15:18	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/21/12 14:20	2/28/12 15:18	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-B **Lab ID:** E120805-06
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.96	U	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-34-3	1,1-Dichloroethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
563-58-6	1,1-Dichloropropene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.48	U, J, QL-1	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.6	U	ug/kg dry	9.6	2/21/12 14:15	2/28/12 15:50	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
107-06-2	1,2-Dichloroethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
78-87-5	1,2-Dichloropropane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
142-28-9	1,3-Dichloropropane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
594-20-7	2,2-Dichloropropane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
67-64-1	Acetone	3.8	U	ug/kg dry	3.8	2/21/12 14:15	2/28/12 15:50	EPA 8260C
71-43-2	Benzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
108-86-1	Bromobenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
74-97-5	Bromochloromethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-B **Lab ID:** E120805-06
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-25-2	Bromoform	9.6	U	ug/kg dry	9.6	2/21/12 14:15	2/28/12 15:50	EPA 8260C
74-83-9	Bromomethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-15-0	Carbon disulfide	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
56-23-5	Carbon Tetrachloride	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
108-90-7	Chlorobenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-00-3	Chloroethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
67-66-3	Chloroform	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
74-87-3	Chloromethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.96	U	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
110-82-7	Cyclohexane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
124-48-1	Dibromochloromethane	0.96	U	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
74-95-3	Dibromomethane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
100-41-4	Ethyl Benzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
87-68-3	Hexachlorobutadiene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
98-82-8	Isopropylbenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
79-20-9	Methyl Acetate	0.96	U, J, QC-1, QL-1	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.96	U	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.96	U	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.9	U	ug/kg dry	1.9	2/21/12 14:15	2/28/12 15:50	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
108-87-2	Methylcyclohexane	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-09-2	Methylene Chloride	0.96	U	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
104-51-8	n-Butylbenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
103-65-1	n-Propylbenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
95-49-8	o-Chlorotoluene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-B **Lab ID:** E120805-06
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
106-43-4	p-Chlorotoluene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
99-87-6	p-Isopropyltoluene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
135-98-8	sec-Butylbenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
100-42-5	Styrene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
98-06-6	tert-Butylbenzene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
108-88-3	Toluene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.96	U	ug/kg dry	0.96	2/21/12 14:15	2/28/12 15:50	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
75-01-4	Vinyl chloride	0.48	U	ug/kg dry	0.48	2/21/12 14:15	2/28/12 15:50	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/kg dry	10	2/21/12 14:15	2/28/12 15:50	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-A **Lab ID:** E120805-07
Station ID: WTFBG05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.88	U	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-34-3	1,1-Dichloroethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
563-58-6	1,1-Dichloropropene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.44	U, J, QL-1	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	8.8	U	ug/kg dry	8.8	2/21/12 15:50	2/28/12 16:22	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
107-06-2	1,2-Dichloroethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
78-87-5	1,2-Dichloropropane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
142-28-9	1,3-Dichloropropane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
594-20-7	2,2-Dichloropropane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
67-64-1	Acetone	3.5	U	ug/kg dry	3.5	2/21/12 15:50	2/28/12 16:22	EPA 8260C
71-43-2	Benzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
108-86-1	Bromobenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
74-97-5	Bromochloromethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-A **Lab ID:** E120805-07
Station ID: WTFBG05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-25-2	Bromoform	8.8	U	ug/kg dry	8.8	2/21/12 15:50	2/28/12 16:22	EPA 8260C
74-83-9	Bromomethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-15-0	Carbon disulfide	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
56-23-5	Carbon Tetrachloride	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
108-90-7	Chlorobenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-00-3	Chloroethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
67-66-3	Chloroform	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
74-87-3	Chloromethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.88	U	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
110-82-7	Cyclohexane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
124-48-1	Dibromochloromethane	0.88	U	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
74-95-3	Dibromomethane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
100-41-4	Ethyl Benzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
87-68-3	Hexachlorobutadiene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
98-82-8	Isopropylbenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
79-20-9	Methyl Acetate	0.88	U, J, QC-1, QL-1	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.88	U	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.88	U	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.8	U	ug/kg dry	1.8	2/21/12 15:50	2/28/12 16:22	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
108-87-2	Methylcyclohexane	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-09-2	Methylene Chloride	0.88	U	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
104-51-8	n-Butylbenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
103-65-1	n-Propylbenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
95-49-8	o-Chlorotoluene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-A **Lab ID:** E120805-07
Station ID: WTFBG05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
106-43-4	p-Chlorotoluene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
99-87-6	p-Isopropyltoluene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
135-98-8	sec-Butylbenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
100-42-5	Styrene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
98-06-6	tert-Butylbenzene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
108-88-3	Toluene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.88	U	ug/kg dry	0.88	2/21/12 15:50	2/28/12 16:22	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
75-01-4	Vinyl chloride	0.44	U	ug/kg dry	0.44	2/21/12 15:50	2/28/12 16:22	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/21/12 15:50	2/28/12 16:22	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-B **Lab ID:** E120805-08
Station ID: WTFBG05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.93	U	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-34-3	1,1-Dichloroethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
563-58-6	1,1-Dichloropropene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.47	U, J, QL-1	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	9.3	U	ug/kg dry	9.3	2/21/12 15:55	2/28/12 16:54	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
107-06-2	1,2-Dichloroethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
78-87-5	1,2-Dichloropropane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
142-28-9	1,3-Dichloropropane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
594-20-7	2,2-Dichloropropane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
67-64-1	Acetone	3.7	U	ug/kg dry	3.7	2/21/12 15:55	2/28/12 16:54	EPA 8260C
71-43-2	Benzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
108-86-1	Bromobenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
74-97-5	Bromochloromethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-B **Lab ID:** E120805-08
Station ID: WTFBG05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-25-2	Bromoform	9.3	U	ug/kg dry	9.3	2/21/12 15:55	2/28/12 16:54	EPA 8260C
74-83-9	Bromomethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-15-0	Carbon disulfide	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
56-23-5	Carbon Tetrachloride	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
108-90-7	Chlorobenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-00-3	Chloroethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
67-66-3	Chloroform	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
74-87-3	Chloromethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.93	U	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
110-82-7	Cyclohexane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
124-48-1	Dibromochloromethane	0.93	U	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
74-95-3	Dibromomethane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
100-41-4	Ethyl Benzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
87-68-3	Hexachlorobutadiene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
98-82-8	Isopropylbenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
79-20-9	Methyl Acetate	0.93	U, J, QC-1, QL-1	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
591-78-6	Methyl Butyl Ketone	0.93	U	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
78-93-3	Methyl Ethyl Ketone	0.93	U	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.9	U	ug/kg dry	1.9	2/21/12 15:55	2/28/12 16:54	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
108-87-2	Methylcyclohexane	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-09-2	Methylene Chloride	0.93	U	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
104-51-8	n-Butylbenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
103-65-1	n-Propylbenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
95-49-8	o-Chlorotoluene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-B **Lab ID:** E120805-08
Station ID: WTFBG05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-47-6	o-Xylene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
106-43-4	p-Chlorotoluene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
99-87-6	p-Isopropyltoluene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
135-98-8	sec-Butylbenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
100-42-5	Styrene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
98-06-6	tert-Butylbenzene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
108-88-3	Toluene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.93	U	ug/kg dry	0.93	2/21/12 15:55	2/28/12 16:54	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
75-01-4	Vinyl chloride	0.47	U	ug/kg dry	0.47	2/21/12 15:55	2/28/12 16:54	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	9	U	ug/kg dry	9	2/21/12 15:55	2/28/12 16:54	EPA 8260C

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Blank (1202153-BLK1)				Prepared & Analyzed: 02/28/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*21.9*		*ug/kg*	*25.000*		*87.7*	*43.2-176*			
Surrogate: Dibromofluoromethane	*26.2*		*"*	*25.000*		*105*	*69.4-134*			
Surrogate: Toluene-d8	*25.0*		*"*	*25.000*		*100*	*63.9-141*			
Dichlorodifluoromethane (Freon 12)	U	0.50	ug/kg wet							U
Chloromethane	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Bromomethane	U	0.50	"							U
Chloroethane	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Acetone	1.0100	4.0	"							B-4, J
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Carbon disulfide	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
Methyl Ethyl Ketone	0.24000	1.0	"							B-3, J
cis-1,2-Dichloroethene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Chloroform	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
Cyclohexane	U	0.50	"							U
Carbon Tetrachloride	U	0.50	"							U
Benzene	U	0.50	"							U
Dibromomethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
cis-1,3-Dichloropropene	U	1.0	"							U
Methyl Isobutyl Ketone	0.33000	2.0	"							B-3, J
trans-1,3-Dichloropropene	U	1.0	"							U
1,1,2-Trichloroethane	U	0.50	"							U

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Blank (1202153-BLK1)				Prepared & Analyzed: 02/28/12						
Toluene	U	0.50	ug/kg wet							U
1,3-Dichloropropane	U	0.50	"							U
Dibromochloromethane	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
(m- and/or p-)Xylene	U	1.0	"							U
Bromoform	U	10	"							U
Styrene	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
o-Xylene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	10	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Blank (1202153-BLK2)				Prepared & Analyzed: 02/28/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*22.7*		*ug/kg*	*25.000*		*90.8*	*43.2-176*			
Surrogate: Toluene-d8	*24.4*		*"*	*25.000*		*97.6*	*63.9-141*			
Surrogate: Dibromofluoromethane	*26.9*		*"*	*25.000*		*108*	*69.4-134*			
Dichlorodifluoromethane (Freon 12)	U	0.50	ug/kg wet							U
Chloromethane	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Bromomethane	U	0.50	"							U
Chloroethane	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Acetone	0.93000	4.0	"							B-4, J
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Carbon disulfide	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
Methyl Ethyl Ketone	U	1.0	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Chloroform	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
Cyclohexane	U	0.50	"							U
Carbon Tetrachloride	U	0.50	"							U
Benzene	U	0.50	"							U
Dibromomethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
cis-1,3-Dichloropropene	U	1.0	"							U
Methyl Isobutyl Ketone	0.35000	2.0	"							B-3, J
trans-1,3-Dichloropropene	U	1.0	"							U
1,1,2-Trichloroethane	U	0.50	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Blank (1202153-BLK2)				Prepared & Analyzed: 02/28/12						
Toluene	U	0.50	ug/kg wet							U
1,3-Dichloropropane	U	0.50	"							U
Dibromochloromethane	U	1.0	"							U
Methyl Butyl Ketone	0.15000	1.0	"							B-3, J
1,2-Dibromoethane (EDB)	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
(m- and/or p-)Xylene	U	1.0	"							U
Bromoform	U	10	"							U
Styrene	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
o-Xylene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	10	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
LCS (1202153-BS1)				Prepared & Analyzed: 02/28/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*22.3*		*ug/kg*	*25.000*		*89.1*	*43.2-176*			
Surrogate: Dibromofluoromethane	*25.3*		*"*	*25.000*		*101*	*69.4-134*			
Surrogate: Toluene-d8	*25.8*		*"*	*25.000*		*103*	*63.9-141*			
Dichlorodifluoromethane (Freon 12)	20.020	0.50	ug/kg wet	20.000		100	22.4-184			
Chloromethane	16.460	0.50	"	20.000		82.3	51.9-146			
Vinyl chloride	17.570	0.50	"	20.000		87.8	62.8-145			
Bromomethane	21.120	0.50	"	20.000		106	70.4-159			
Chloroethane	14.950	0.50	"	20.000		74.8	68.3-147			
Trichlorofluoromethane (Freon 11)	19.900	0.50	"	20.000		99.5	75.8-142			
Acetone	36.710	4.0	"	40.000		91.8	67.1-127			
1,1-Dichloroethene (1,1-Dichloroethylene)	18.200	0.50	"	20.000		91.0	78.3-131			
Methylene Chloride	17.800	0.50	"	20.000		89.0	73.3-119			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20.640	0.50	"	20.000		103	66.2-137			
Methyl Acetate	22.850	1.0	"	40.000		57.1	65.1-140			QL-1
Carbon disulfide	17.620	0.50	"	20.000		88.1	68.5-135			
trans-1,2-Dichloroethene	18.760	0.50	"	20.000		93.8	83.4-123			
Methyl T-Butyl Ether (MTBE)	16.580	0.50	"	20.000		82.9	72.3-142			
1,1-Dichloroethane	17.470	0.50	"	20.000		87.4	84.2-120			
Methyl Ethyl Ketone	35.360	1.0	"	40.000		88.4	64.6-136			
cis-1,2-Dichloroethene	18.310	0.50	"	20.000		91.6	84.2-122			
Bromochloromethane	19.100	0.50	"	20.000		95.5	83.4-125			
Chloroform	18.110	0.50	"	20.000		90.6	78.4-131			
2,2-Dichloropropane	20.410	0.50	"	20.000		102	82.5-129			
1,2-Dichloroethane	17.530	0.50	"	20.000		87.6	75.4-133			
1,1,1-Trichloroethane	19.430	0.50	"	20.000		97.2	82.3-129			
1,1-Dichloropropene	18.020	0.50	"	20.000		90.1	84.7-121			
Cyclohexane	18.810	0.50	"	20.000		94.0	79.8-132			
Carbon Tetrachloride	22.300	0.50	"	20.000		112	83.2-130			
Benzene	17.790	0.50	"	20.000		89.0	82.4-122			
Dibromomethane	20.170	0.50	"	20.000		101	82.3-129			
1,2-Dichloropropane	17.380	0.50	"	20.000		86.9	77.2-128			
Trichloroethene (Trichloroethylene)	18.970	0.50	"	20.000		94.8	82.6-128			
Bromodichloromethane	19.150	0.50	"	20.000		95.8	78.1-133			
Methylcyclohexane	19.630	0.50	"	20.000		98.2	80.5-129			
cis-1,3-Dichloropropene	18.860	1.0	"	20.000		94.3	86.1-122			
Methyl Isobutyl Ketone	35.140	2.0	"	40.000		87.8	84.4-130			
trans-1,3-Dichloropropene	19.470	1.0	"	20.000		97.4	89.9-125			
1,1,2-Trichloroethane	19.040	0.50	"	20.000		95.2	87.7-116			

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
LCS (1202153-BS1)				Prepared & Analyzed: 02/28/12						
Toluene	19.590	0.50	ug/kg wet	20.000		98.0	85-118			
1,3-Dichloropropane	19.030	0.50	"	20.000		95.2	85.2-119			
Dibromochloromethane	22.120	1.0	"	20.000		111	87-117			
Methyl Butyl Ketone	38.260	1.0	"	40.000		95.6	83.6-128			
1,2-Dibromoethane (EDB)	19.870	0.50	"	20.000		99.4	86-121			
Tetrachloroethene (Tetrachloroethylene)	21.990	0.50	"	20.000		110	80.8-125			
1,1,1,2-Tetrachloroethane	22.460	0.50	"	20.000		112	89.2-124			
Chlorobenzene	20.380	0.50	"	20.000		102	84-120			
Ethyl Benzene	20.550	0.50	"	20.000		103	83.3-124			
(m- and/or p-)Xylene	41.430	1.0	"	40.000		104	86.2-127			
Bromoform	44.710	10	"	40.000		112	79-115			
Styrene	21.030	0.50	"	20.000		105	84.4-131			
1,1,2,2-Tetrachloroethane	19.420	0.50	"	20.000		97.1	69.2-124			
o-Xylene	20.240	0.50	"	20.000		101	81.2-126			
1,2,3-Trichloropropane	16.880	0.50	"	20.000		84.4	86.3-118			QL-1
Isopropylbenzene	18.520	0.50	"	20.000		92.6	81.8-125			
Bromobenzene	19.100	0.50	"	20.000		95.5	84.3-118			
n-Propylbenzene	18.430	0.50	"	20.000		92.2	82.1-123			
o-Chlorotoluene	18.890	0.50	"	20.000		94.4	82.8-121			
p-Chlorotoluene	18.730	0.50	"	20.000		93.6	83.4-123			
1,3,5-Trimethylbenzene	18.620	0.50	"	20.000		93.1	80.5-124			
tert-Butylbenzene	18.950	0.50	"	20.000		94.8	74.2-126			
1,2,4-Trimethylbenzene	18.670	0.50	"	20.000		93.4	71.8-135			
sec-Butylbenzene	18.440	0.50	"	20.000		92.2	75.4-123			
1,3-Dichlorobenzene	18.970	0.50	"	20.000		94.8	82.1-121			
1,4-Dichlorobenzene	18.800	0.50	"	20.000		94.0	81-120			
p-Isopropyltoluene	19.310	0.50	"	20.000		96.6	76-123			
1,2-Dichlorobenzene	19.390	0.50	"	20.000		97.0	83-118			
n-Butylbenzene	18.820	0.50	"	20.000		94.1	78.4-123			
1,2-Dibromo-3-Chloropropane (DBCP)	34.100	10	"	40.000		85.2	68.5-114			
1,2,4-Trichlorobenzene	19.690	0.50	"	20.000		98.4	65.8-127			
Hexachlorobutadiene	20.380	0.50	"	20.000		102	60.9-119			
1,2,3-Trichlorobenzene	19.110	0.50	"	20.000		95.6	57.1-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Matrix Spike (1202153-MS1)	**Source: E120802-04**			Prepared: 02/20/12 Analyzed: 02/28/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*23.7*		*ug/kg*	*25.000*		*94.9*	*43.2-176*			
Surrogate: Toluene-d8	*27.5*		*"*	*25.000*		*110*	*63.9-141*			
Surrogate: Dibromofluoromethane	*25.8*		*"*	*25.000*		*103*	*69.4-134*			
Dichlorodifluoromethane (Freon 12)	15.474	0.43	ug/kg dry	17.386	U	89.0	10-200			
Chloromethane	14.135	0.43	"	17.386	U	81.3	16.7-141			
Vinyl chloride	14.830	0.43	"	17.386	U	85.3	25.4-146			
Bromomethane	18.412	0.43	"	17.386	U	106	10-164			
Chloroethane	14.509	0.43	"	17.386	U	83.5	35.3-147			
Trichlorofluoromethane (Freon 11)	17.986	0.43	"	17.386	U	103	35.8-154			
Acetone	13.100	3.5	"	34.772	U	37.7	10-137			
1,1-Dichloroethene (1,1-Dichloroethylene)	15.995	0.43	"	17.386	U	92.0	33.1-141			
Methylene Chloride	15.726	0.43	"	17.386	U	90.5	35.4-132			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	18.429	0.43	"	17.386	U	106	35.9-149			
Methyl Acetate	14.691	0.87	"	34.772	U	42.2	10-144			
Carbon disulfide	14.639	0.43	"	17.386	U	84.2	13.9-130			
trans-1,2-Dichloroethene	15.039	0.43	"	17.386	U	86.5	31.2-129			
Methyl T-Butyl Ether (MTBE)	12.475	0.43	"	17.386	U	71.8	54.2-129			
1,1-Dichloroethane	15.404	0.43	"	17.386	U	88.6	46.6-127			
Methyl Ethyl Ketone	16.386	0.87	"	34.772	U	47.1	10-134			
cis-1,2-Dichloroethene	15.039	0.43	"	17.386	U	86.5	36.8-126			
Bromochloromethane	15.169	0.43	"	17.386	U	87.3	45.7-125			
Chloroform	15.995	0.43	"	17.386	U	92.0	43.5-129			
2,2-Dichloropropane	18.325	0.43	"	17.386	U	105	38.3-137			
1,2-Dichloroethane	14.178	0.43	"	17.386	U	81.6	40-127			
1,1,1-Trichloroethane	17.099	0.43	"	17.386	U	98.4	38.6-137			
1,1-Dichloropropene	14.648	0.43	"	17.386	U	84.3	31.1-128			
Cyclohexane	15.004	0.43	"	17.386	U	86.3	22.9-144			
Carbon Tetrachloride	20.264	0.43	"	17.386	U	117	31.6-141			
Benzene	15.448	0.43	"	17.386	U	88.9	38-124			
Dibromomethane	15.030	0.43	"	17.386	U	86.4	39-132			
1,2-Dichloropropane	14.570	0.43	"	17.386	U	83.8	43.4-123			
Trichloroethene (Trichloroethylene)	15.465	0.43	"	17.386	U	89.0	23-125			
Bromodichloromethane	16.073	0.43	"	17.386	U	92.5	35.8-129			
Methylcyclohexane	13.970	0.43	"	17.386	U	80.4	11.1-140			
cis-1,3-Dichloropropene	14.544	0.87	"	17.386	U	83.7	10-137			
Methyl Isobutyl Ketone	21.576	1.7	"	34.772	U	62.0	10-153			
trans-1,3-Dichloropropene	13.761	0.87	"	17.386	U	79.2	10-139			
1,1,2-Trichloroethane	15.013	0.43	"	17.386	U	86.4	47.6-123			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Matrix Spike (1202153-MS1)	**Source: E120802-04**			Prepared: 02/20/12 Analyzed: 02/28/12						
Toluene	16.508	0.43	ug/kg dry	17.386	0.55777	91.7	43.3-121			
1,3-Dichloropropane	14.796	0.43	"	17.386	U	85.1	50.9-118			
Dibromochloromethane	17.064	0.87	"	17.386	U	98.2	42.5-116			
Methyl Butyl Ketone	17.873	0.87	"	34.772	U	51.4	10-149			
1,2-Dibromoethane (EDB)	13.848	0.43	"	17.386	U	79.7	17.7-127			
Tetrachloroethene (Tetrachloroethylene)	17.517	0.43	"	17.386	U	101	41-116			
1,1,1,2-Tetrachloroethane	19.507	0.43	"	17.386	U	112	46.5-125			
Chlorobenzene	14.865	0.43	"	17.386	U	85.5	32.9-115			
Ethyl Benzene	15.934	0.43	"	17.386	U	91.7	36.5-118			
(m- and/or p-)Xylene	31.886	0.87	"	34.772	U	91.7	37.3-120			
Bromoform	29.530	8.7	"	34.772	U	84.9	23.8-110			
Styrene	14.013	0.43	"	17.386	U	80.6	14.7-118			
1,1,2,2-Tetrachloroethane	12.553	0.43	"	17.386	U	72.2	32.4-121			
o-Xylene	15.587	0.43	"	17.386	U	89.7	35.4-119			
1,2,3-Trichloropropane	13.170	0.43	"	17.386	U	75.8	42-155			
Isopropylbenzene	15.821	0.43	"	17.386	U	91.0	12.9-163			
Bromobenzene	13.865	0.43	"	17.386	U	79.8	31.9-128			
n-Propylbenzene	14.883	0.43	"	17.386	U	85.6	24.2-142			
o-Chlorotoluene	14.856	0.43	"	17.386	U	85.5	26.6-139			
p-Chlorotoluene	14.430	0.43	"	17.386	U	83.0	28.9-127			
1,3,5-Trimethylbenzene	15.022	0.43	"	17.386	U	86.4	31-127			
tert-Butylbenzene	15.100	0.43	"	17.386	U	86.9	13-153			
1,2,4-Trimethylbenzene	14.570	0.43	"	17.386	U	83.8	26.1-129			
sec-Butylbenzene	14.231	0.43	"	17.386	U	81.9	24.3-117			
1,3-Dichlorobenzene	12.588	0.43	"	17.386	U	72.4	20.9-114			
1,4-Dichlorobenzene	12.092	0.43	"	17.386	U	69.6	17.9-114			
p-Isopropyltoluene	14.526	0.43	"	17.386	U	83.5	24.4-110			
1,2-Dichlorobenzene	12.109	0.43	"	17.386	U	69.6	16.4-115			
n-Butylbenzene	12.596	0.43	"	17.386	U	72.4	16.8-98.9			
1,2-Dibromo-3-Chloropropane (DBCP)	21.029	8.7	"	34.772	U	60.5	25.9-111			
1,2,4-Trichlorobenzene	7.5543	0.43	"	17.386	U	43.5	10-94.4			
Hexachlorobutadiene	10.345	0.43	"	17.386	U	59.5	10-95.9			
1,2,3-Trichlorobenzene	6.9545	0.43	"	17.386	U	40.0	10-95			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Matrix Spike Dup (1202153-MSD1)	**Source: E120802-04**			Prepared: 02/20/12 Analyzed: 02/28/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*24.0*		*ug/kg*	*25.000*		*95.8*	*43.2-176*			
Surrogate: Toluene-d8	*27.3*		*"*	*25.000*		*109*	*63.9-141*			
Surrogate: Dibromofluoromethane	*25.2*		*"*	*25.000*		*101*	*69.4-134*			
Dichlorodifluoromethane (Freon 12)	12.356	0.56	ug/kg dry	22.224	U	55.6	10-200	46.2	34.3	QM-3
Chloromethane	17.123	0.56	"	22.224	U	77.0	16.7-141	5.37	32.2	
Vinyl chloride	16.712	0.56	"	22.224	U	75.2	25.4-146	12.6	33.1	
Bromomethane	18.735	0.56	"	22.224	U	84.3	10-164	22.7	53	
Chloroethane	16.523	0.56	"	22.224	U	74.3	35.3-147	11.5	33.5	
Trichlorofluoromethane (Freon 11)	17.001	0.56	"	22.224	U	76.5	35.8-154	30.0	35.4	
Acetone	19.812	4.4	"	44.447	U	44.6	10-137	16.8	27.2	
1,1-Dichloroethene (1,1-Dichloroethylene)	16.323	0.56	"	22.224	U	73.5	33.1-141	22.4	42.2	
Methylene Chloride	18.079	0.56	"	22.224	U	81.4	35.4-132	10.6	44.8	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	15.468	0.56	"	22.224	U	69.6	35.9-149	41.5	44.2	
Methyl Acetate	15.757	1.1	"	44.447	U	35.4	10-144	17.5	46.6	
Carbon disulfide	14.823	0.56	"	22.224	U	66.7	13.9-130	23.2	42.9	
trans-1,2-Dichloroethene	16.746	0.56	"	22.224	U	75.4	31.2-129	13.8	47.3	
Methyl T-Butyl Ether (MTBE)	15.523	0.56	"	22.224	U	69.8	54.2-129	2.68	22	
1,1-Dichloroethane	18.812	0.56	"	22.224	U	84.6	46.6-127	4.56	52.6	
Methyl Ethyl Ketone	19.412	1.1	"	44.447	U	43.7	10-134	7.60	41.2	
cis-1,2-Dichloroethene	18.401	0.56	"	22.224	U	82.8	36.8-126	4.37	49	
Bromochloromethane	19.590	0.56	"	22.224	U	88.2	45.7-125	1.03	25.7	
Chloroform	19.546	0.56	"	22.224	U	87.9	43.5-129	4.50	47.2	
2,2-Dichloropropane	21.579	0.56	"	22.224	U	97.1	38.3-137	8.20	46.1	
1,2-Dichloroethane	17.590	0.56	"	22.224	U	79.2	40-127	2.99	24.4	
1,1,1-Trichloroethane	20.368	0.56	"	22.224	U	91.6	38.6-137	7.05	49.2	
1,1-Dichloropropene	15.512	0.56	"	22.224	U	69.8	31.1-128	18.8	52.7	
Cyclohexane	16.934	0.56	"	22.224	U	76.2	22.9-144	12.4	53.7	
Carbon Tetrachloride	22.768	0.56	"	22.224	U	102	31.6-141	12.9	57	
Benzene	18.490	0.56	"	22.224	U	83.2	38-124	6.57	52.6	
Dibromomethane	18.901	0.56	"	22.224	U	85.1	39-132	1.63	26.6	
1,2-Dichloropropane	18.612	0.56	"	22.224	U	83.8	43.4-123	0.0597	34.4	
Trichloroethene (Trichloroethylene)	16.412	0.56	"	22.224	U	73.8	23-125	18.6	47.1	
Bromodichloromethane	19.468	0.56	"	22.224	U	87.6	35.8-129	5.39	33.6	
Methylcyclohexane	15.901	0.56	"	22.224	U	71.6	11.1-140	11.6	56	
cis-1,3-Dichloropropene	18.390	1.1	"	22.224	U	82.7	10-137	1.08	54.2	
Methyl Isobutyl Ketone	26.091	2.2	"	44.447	U	58.7	10-153	5.55	54.8	
trans-1,3-Dichloropropene	17.268	1.1	"	22.224	U	77.7	10-139	1.85	41.4	
1,1,2-Trichloroethane	18.823	0.56	"	22.224	U	84.7	47.6-123	1.93	25.9	

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
Matrix Spike Dup (1202153-MSD1)	**Source: E120802-04**			Prepared: 02/20/12 Analyzed: 02/28/12						
Toluene	19.479	0.56	ug/kg dry	22.224	0.55777	85.1	43.3-121	7.46	54.6	
1,3-Dichloropropane	18.323	0.56	"	22.224	U	82.4	50.9-118	3.16	26.1	
Dibromochloromethane	22.001	1.1	"	22.224	U	99.0	42.5-116	0.862	33.6	
Methyl Butyl Ketone	20.668	1.1	"	44.447	U	46.5	10-149	10.0	72	
1,2-Dibromoethane (EDB)	17.623	0.56	"	22.224	U	79.3	17.7-127	0.440	40	
Tetrachloroethene (Tetrachloroethylene)	17.746	0.56	"	22.224	U	79.8	41-116	23.1	51.7	
1,1,1,2-Tetrachloroethane	23.968	0.56	"	22.224	U	108	46.5-125	3.95	62.1	
Chlorobenzene	18.512	0.56	"	22.224	U	83.3	32.9-115	2.61	46.5	
Ethyl Benzene	18.735	0.56	"	22.224	U	84.3	36.5-118	8.35	60.9	
(m- and/or p-)Xylene	37.536	1.1	"	44.447	U	84.5	37.3-120	8.23	62.4	
Bromoform	37.858	11	"	44.447	U	85.2	23.8-110	0.294	41.5	
Styrene	17.590	0.56	"	22.224	U	79.2	14.7-118	1.82	60.7	
1,1,2,2-Tetrachloroethane	15.779	0.56	"	22.224	U	71.0	32.4-121	1.68	42.9	
o-Xylene	19.368	0.56	"	22.224	U	87.1	35.4-119	2.83	65.4	
1,2,3-Trichloropropane	15.968	0.56	"	22.224	U	71.9	42-155	5.28	55.5	
Isopropylbenzene	20.090	0.56	"	22.224	U	90.4	12.9-163	0.662	74.5	
Bromobenzene	17.901	0.56	"	22.224	U	80.6	31.9-128	0.998	52.8	
n-Propylbenzene	18.501	0.56	"	22.224	U	83.2	24.2-142	2.78	71.4	
o-Chlorotoluene	19.212	0.56	"	22.224	U	86.5	26.6-139	1.16	79.3	
p-Chlorotoluene	17.468	0.56	"	22.224	U	78.6	28.9-127	5.45	55.4	
1,3,5-Trimethylbenzene	19.224	0.56	"	22.224	U	86.5	31-127	0.116	74.9	
tert-Butylbenzene	20.668	0.56	"	22.224	U	93.0	13-153	6.84	70.8	
1,2,4-Trimethylbenzene	18.579	0.56	"	22.224	U	83.6	26.1-129	0.239	57.4	
sec-Butylbenzene	19.001	0.56	"	22.224	U	85.5	24.3-117	4.36	71.9	
1,3-Dichlorobenzene	16.268	0.56	"	22.224	U	73.2	20.9-114	1.10	56.4	
1,4-Dichlorobenzene	15.745	0.56	"	22.224	U	70.8	17.9-114	1.85	55.8	
p-Isopropyltoluene	18.679	0.56	"	22.224	U	84.0	24.4-110	0.597	72.5	
1,2-Dichlorobenzene	16.901	0.56	"	22.224	U	76.0	16.4-115	8.79	56.1	
n-Butylbenzene	15.990	0.56	"	22.224	U	71.9	16.8-98.9	0.693	69.5	
1,2-Dibromo-3-Chloropropane (DBCP)	24.135	11	"	44.447	U	54.3	25.9-111	10.8	53	
1,2,4-Trichlorobenzene	10.412	0.56	"	22.224	U	46.8	10-94.4	7.53	60.3	
Hexachlorobutadiene	11.634	0.56	"	22.224	U	52.4	10-95.9	12.8	78.8	
1,2,3-Trichlorobenzene	9.5229	0.56	"	22.224	U	42.8	10-95	6.88	64.4	

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
MRL Verification (1202153-PS1)				Prepared & Analyzed: 02/28/12						
EPA 8260C										
Surrogate: Dibromofluoromethane	*25.9*		*ug/kg*	*25.000*		*104*	*69.4-134*			
Surrogate: p-Bromofluorobenzene	*21.8*		*"*	*25.000*		*87.0*	*43.2-176*			
Surrogate: Toluene-d8	*25.0*		*"*	*25.000*		*99.8*	*63.9-141*			
Dichlorodifluoromethane (Freon 12)	1.2000	0.50	ug/kg wet	1.0000		120	10-204			
Chloromethane	1.0700	0.50	"	1.0000		107	31.9-166			
Vinyl chloride	1.1000	0.50	"	1.0000		110	42.8-165			
Bromomethane	1.2500	0.50	"	1.0000		125	50.4-179			
Chloroethane	1.1100	0.50	"	1.0000		111	48.3-167			
Trichlorofluoromethane (Freon 11)	1.2500	0.50	"	1.0000		125	55.8-162			
Acetone	3.6100	4.0	"	2.0000		180	47.1-147			Q-2, J
1,1-Dichloroethene (1,1-Dichloroethylene)	1.1200	0.50	"	1.0000		112	58.3-151			
Methylene Chloride	1.2000	0.50	"	1.0000		120	53.3-139			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.1700	0.50	"	1.0000		117	46.2-157			
Methyl Acetate	1.4000	1.0	"	2.0000		70.0	45.1-160			
Carbon disulfide	1.7000	0.50	"	1.0000		170	48.5-155			
trans-1,2-Dichloroethene	1.0900	0.50	"	1.0000		109	63.4-143			
Methyl T-Butyl Ether (MTBE)	0.87000	0.50	"	1.0000		87.0	52.3-162			
1,1-Dichloroethane	0.96000	0.50	"	1.0000		96.0	64.2-140			
Methyl Ethyl Ketone	2.0100	1.0	"	2.0000		100	44.6-156			
cis-1,2-Dichloroethene	0.94000	0.50	"	1.0000		94.0	64.2-142			
Bromochloromethane	1.0500	0.50	"	1.0000		105	63.4-145			
Chloroform	0.99000	0.50	"	1.0000		99.0	58.4-151			
2,2-Dichloropropane	1.0000	0.50	"	1.0000		100	62.5-149			
1,2-Dichloroethane	0.98000	0.50	"	1.0000		98.0	55.4-153			
1,1,1-Trichloroethane	1.0300	0.50	"	1.0000		103	62.3-149			
1,1-Dichloropropene	0.86000	0.50	"	1.0000		86.0	64.7-141			
Cyclohexane	0.93000	0.50	"	1.0000		93.0	59.8-152			
Carbon Tetrachloride	1.0700	0.50	"	1.0000		107	63.2-150			
Benzene	1.0200	0.50	"	1.0000		102	62.4-142			
Dibromomethane	1.0400	0.50	"	1.0000		104	62.3-149			
1,2-Dichloropropane	0.92000	0.50	"	1.0000		92.0	57.2-148			
Trichloroethene (Trichloroethylene)	1.2200	0.50	"	1.0000		122	62.6-148			
Bromodichloromethane	0.98000	0.50	"	1.0000		98.0	58.1-153			
Methylcyclohexane	0.89000	0.50	"	1.0000		89.0	60.5-149			
cis-1,3-Dichloropropene	0.80000	1.0	"	1.0000		80.0	66.1-142			MRL-3, Q-2, J
Methyl Isobutyl Ketone	1.3200	2.0	"	2.0000		66.0	64.4-150			MRL-3, Q-2, J

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202153 - V 5035 VOA Soil and Waste Prep										
MRL Verification (1202153-PS1)				Prepared & Analyzed: 02/28/12						
trans-1,3-Dichloropropene	0.77000	1.0	ug/kg wet	1.0000		77.0	69.9-145			MRL-3, Q-2, J
1,1,2-Trichloroethane	0.98000	0.50	"	1.0000		98.0	67.7-136			
Toluene	1.0800	0.50	"	1.0000		108	65-138			
1,3-Dichloropropane	0.96000	0.50	"	1.0000		96.0	65.2-139			
Dibromochloromethane	1.0200	1.0	"	1.0000		102	67-137			MRL-3
Methyl Butyl Ketone	1.5600	1.0	"	2.0000		78.0	63.6-148			
1,2-Dibromoethane (EDB)	1.0000	0.50	"	1.0000		100	66-141			
Tetrachloroethene (Tetrachloroethylene)	1.1900	0.50	"	1.0000		119	60.8-145			
1,1,1,2-Tetrachloroethane	1.1000	0.50	"	1.0000		110	69.2-144			
Chlorobenzene	1.1100	0.50	"	1.0000		111	64-140			
Ethyl Benzene	0.90000	0.50	"	1.0000		90.0	63.3-144			
(m- and/or p-)Xylene	1.8200	1.0	"	2.0000		91.0	66.2-147			
Bromoform	1.9900	10	"	2.0000		99.5	59-135			Q-2, J
Styrene	0.81000	0.50	"	1.0000		81.0	64.4-151			
1,1,2,2-Tetrachloroethane	1.0200	0.50	"	1.0000		102	49.2-144			
o-Xylene	0.86000	0.50	"	1.0000		86.0	61.2-146			
1,2,3-Trichloropropane	1.0900	0.50	"	1.0000		109	66.3-138			
Isopropylbenzene	0.74000	0.50	"	1.0000		74.0	61.8-145			
Bromobenzene	1.0300	0.50	"	1.0000		103	64.3-138			
n-Propylbenzene	0.76000	0.50	"	1.0000		76.0	62.1-143			
o-Chlorotoluene	0.91000	0.50	"	1.0000		91.0	62.8-141			
p-Chlorotoluene	0.85000	0.50	"	1.0000		85.0	63.4-143			
1,3,5-Trimethylbenzene	0.77000	0.50	"	1.0000		77.0	60.5-144			
tert-Butylbenzene	0.70000	0.50	"	1.0000		70.0	84.2-146			
1,2,4-Trimethylbenzene	0.77000	0.50	"	1.0000		77.0	51.8-155			
sec-Butylbenzene	0.73000	0.50	"	1.0000		73.0	55.4-143			
1,3-Dichlorobenzene	1.0200	0.50	"	1.0000		102	62.1-141			
1,4-Dichlorobenzene	1.1000	0.50	"	1.0000		110	61-140			
p-Isopropyltoluene	0.75000	0.50	"	1.0000		75.0	56-143			
1,2-Dichlorobenzene	1.0000	0.50	"	1.0000		100	63-138			
n-Butylbenzene	0.74000	0.50	"	1.0000		74.0	58.4-143			
1,2-Dibromo-3-Chloropropane (DBCP)	1.5300	10	"	2.0000		76.5	48.5-134			Q-2, J
1,2,4-Trichlorobenzene	0.93000	0.50	"	1.0000		93.0	45.8-147			
Hexachlorobutadiene	1.1100	0.50	"	1.0000		111	40.9-139			
1,2,3-Trichlorobenzene	0.98000	0.50	"	1.0000		98.0	37.1-145			

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
Blank (1203005-BLK1)				Prepared & Analyzed: 03/02/12						
EPA 8260C										
Surrogate: Dibromofluoromethane	*27.6*		*ug/L*	*25.000*		*110*	*63.9-117*			
Surrogate: p-Bromofluorobenzene	*22.1*		*"*	*25.000*		*88.6*	*79.7-116*			
Surrogate: Toluene-d8	*24.2*		*"*	*25.000*		*96.6*	*83-113*			
Dichlorodifluoromethane (Freon 12)	U	1.0	ug/kg wet							U
Chloromethane	U	1.0	"							U
Bromomethane	U	1.0	"							U
Vinyl chloride	U	1.0	"							U
Chloroethane	U	1.0	"							U
Trichlorofluoromethane (Freon 11)	U	1.0	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.0	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	1.0	"							U
Methylene Chloride	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	1.0	"							U
Acetone	U	5.0	"							U
Carbon disulfide	U	1.0	"							U
Methyl Acetate	U	1.0	"							U
1,1-Dichloroethane	U	1.0	"							U
cis-1,2-Dichloroethene	U	1.0	"							U
2,2-Dichloropropane	U	1.0	"							U
Methyl Ethyl Ketone	U	1.0	"							U
Bromochloromethane	U	1.0	"							U
trans-1,2-Dichloroethene	U	1.0	"							U
Chloroform	U	1.0	"							U
1,2-Dichloroethane	U	1.0	"							U
1,1,1-Trichloroethane	U	1.0	"							U
Cyclohexane	U	1.0	"							U
1,1-Dichloropropene	U	1.0	"							U
Carbon Tetrachloride	U	1.0	"							U
Bromodichloromethane	U	1.0	"							U
Methyl Isobutyl Ketone	0.440	1.0	"							B-3, J
1,2-Dichloropropane	U	1.0	"							U
Methylcyclohexane	U	1.0	"							U
Dibromomethane	U	1.0	"							U
trans-1,3-Dichloropropene	U	1.0	"							U
Trichloroethene (Trichloroethylene)	U	1.0	"							U
Benzene	U	1.0	"							U
Dibromochloromethane	U	1.0	"							U
1,1,2-Trichloroethane	U	1.0	"							U

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
Blank (1203005-BLK1)				Prepared & Analyzed: 03/02/12						
cis-1,3-Dichloropropene	U	1.0	ug/kg wet							U
Bromoform	U	5.0	"							U
Bromobenzene	U	1.0	"							U
1,1,2,2-Tetrachloroethane	U	1.0	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.0	"							U
1,3-Dichloropropane	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Toluene	U	1.0	"							U
Chlorobenzene	U	1.0	"							U
1,1,1,2-Tetrachloroethane	U	1.0	"							U
Ethyl Benzene	U	1.0	"							U
(m- and/or p-)Xylene	U	2.0	"							U
o-Xylene	U	1.0	"							U
Styrene	U	1.0	"							U
1,2,3-Trichloropropane	U	1.0	"							U
o-Chlorotoluene	U	1.0	"							U
p-Chlorotoluene	U	1.0	"							U
1,3-Dichlorobenzene	U	1.0	"							U
1,4-Dichlorobenzene	U	1.0	"							U
1,2-Dichlorobenzene	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	1.0	"							U
Isopropylbenzene	U	1.0	"							U
n-Propylbenzene	U	1.0	"							U
1,3,5-Trimethylbenzene	U	1.0	"							U
tert-Butylbenzene	U	1.0	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
sec-Butylbenzene	U	1.0	"							U
p-Isopropyltoluene	U	1.0	"							U
n-Butylbenzene	U	1.0	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	5.0	"							U
1,2,4-Trichlorobenzene	U	1.0	"							U
Hexachlorobutadiene	U	1.0	"							U
1,2,3-Trichlorobenzene	U	1.0	"							U
Tentatively Identified Compounds	U	20	"							U

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
Blank (1203005-BLK2)				Prepared & Analyzed: 03/02/12						
EPA 8260C										
Surrogate: Dibromofluoromethane	*25.5*		*ug/L*	*25.000*		*102*	*63.9-117*			
Surrogate: p-Bromofluorobenzene	*21.7*		*"*	*25.000*		*87.0*	*79.7-116*			
Surrogate: Toluene-d8	*25.2*		*"*	*25.000*		*101*	*83-113*			
Dichlorodifluoromethane (Freon 12)	U	1.0	ug/kg wet							U
Chloromethane	U	1.0	"							U
Bromomethane	U	1.0	"							U
Vinyl chloride	U	1.0	"							U
Chloroethane	U	1.0	"							U
Trichlorofluoromethane (Freon 11)	U	1.0	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.0	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	1.0	"							U
Methylene Chloride	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	1.0	"							U
Acetone	U	5.0	"							U
Carbon disulfide	U	1.0	"							U
Methyl Acetate	0.370	1.0	"							B-3, J
1,1-Dichloroethane	U	1.0	"							U
cis-1,2-Dichloroethene	U	1.0	"							U
2,2-Dichloropropane	U	1.0	"							U
Methyl Ethyl Ketone	0.210	1.0	"							B-3, J
Bromochloromethane	U	1.0	"							U
trans-1,2-Dichloroethene	U	1.0	"							U
Chloroform	U	1.0	"							U
1,2-Dichloroethane	U	1.0	"							U
1,1,1-Trichloroethane	U	1.0	"							U
Cyclohexane	U	1.0	"							U
1,1-Dichloropropene	U	1.0	"							U
Carbon Tetrachloride	U	1.0	"							U
Bromodichloromethane	U	1.0	"							U
Methyl Isobutyl Ketone	0.350	1.0	"							B-3, J
1,2-Dichloropropane	U	1.0	"							U
Methylcyclohexane	U	1.0	"							U
Dibromomethane	U	1.0	"							U
trans-1,3-Dichloropropene	U	1.0	"							U
Trichloroethene (Trichloroethylene)	U	1.0	"							U
Benzene	U	1.0	"							U
Dibromochloromethane	U	1.0	"							U
1,1,2-Trichloroethane	U	1.0	"							U

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
Blank (1203005-BLK2)				Prepared & Analyzed: 03/02/12						
cis-1,3-Dichloropropene	U	1.0	ug/kg wet							U
Bromoform	U	5.0	"							U
Bromobenzene	U	1.0	"							U
1,1,2,2-Tetrachloroethane	U	1.0	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.0	"							U
1,3-Dichloropropane	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Toluene	U	1.0	"							U
Chlorobenzene	U	1.0	"							U
1,1,1,2-Tetrachloroethane	U	1.0	"							U
Ethyl Benzene	U	1.0	"							U
(m- and/or p-)Xylene	U	2.0	"							U
o-Xylene	U	1.0	"							U
Styrene	U	1.0	"							U
1,2,3-Trichloropropane	U	1.0	"							U
o-Chlorotoluene	U	1.0	"							U
p-Chlorotoluene	U	1.0	"							U
1,3-Dichlorobenzene	U	1.0	"							U
1,4-Dichlorobenzene	U	1.0	"							U
1,2-Dichlorobenzene	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	1.0	"							U
Isopropylbenzene	U	1.0	"							U
n-Propylbenzene	U	1.0	"							U
1,3,5-Trimethylbenzene	U	1.0	"							U
tert-Butylbenzene	U	1.0	"							U
1,2,4-Trimethylbenzene	U	1.0	"							U
sec-Butylbenzene	U	1.0	"							U
p-Isopropyltoluene	U	1.0	"							U
n-Butylbenzene	U	1.0	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	5.0	"							U
1,2,4-Trichlorobenzene	U	1.0	"							U
Hexachlorobutadiene	U	1.0	"							U
1,2,3-Trichlorobenzene	U	1.0	"							U
Tentatively Identified Compounds	U	20	"							U

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
LCS (1203005-BS1)				Prepared & Analyzed: 03/02/12						
EPA 8260C										
Surrogate: Dibromofluoromethane	*24.7*		*ug/L*	*25.000*		*98.8*	*63.9-117*			
Surrogate: Toluene-d8	*25.2*		*"*	*25.000*		*101*	*83-113*			
Surrogate: p-Bromofluorobenzene	*21.8*		*"*	*25.000*		*87.2*	*79.7-116*			
Dichlorodifluoromethane (Freon 12)	13.2	1.0	ug/kg wet	20.000		66.0	20.2-150			
Chloromethane	14.5	1.0	"	20.000		72.7	34.6-144			
Bromomethane	13.0	1.0	"	20.000		64.8	11-128			
Vinyl chloride	17.2	1.0	"	20.000		86.1	34.8-150			
Chloroethane	5.62	1.0	"	20.000		28.1	10-114			
Trichlorofluoromethane (Freon 11)	15.0	1.0	"	20.000		74.8	40.7-141			
1,1-Dichloroethene (1,1-Dichloroethylene)	19.6	1.0	"	20.000		98.2	59.4-134			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	22.3	1.0	"	20.000		112	70.7-127			
Methylene Chloride	16.7	1.0	"	20.000		83.4	64.7-129			
Methyl T-Butyl Ether (MTBE)	17.5	1.0	"	20.000		87.3	71.9-129			
Acetone	38.4	5.0	"	40.000		96.1	29.1-169			
Carbon disulfide	17.6	1.0	"	20.000		88.2	51.6-129			
Methyl Acetate	20.9	1.0	"	40.000		52.3	50.9-140			
1,1-Dichloroethane	18.6	1.0	"	20.000		92.8	73.2-124			
cis-1,2-Dichloroethene	19.6	1.0	"	20.000		98.0	72.6-127			
2,2-Dichloropropane	21.9	1.0	"	20.000		110	58.4-144			
Methyl Ethyl Ketone	35.3	1.0	"	40.000		88.2	47.4-145			
Bromochloromethane	20.2	1.0	"	20.000		101	73.6-123			
trans-1,2-Dichloroethene	19.2	1.0	"	20.000		96.0	65.3-134			
Chloroform	20.1	1.0	"	20.000		101	71.7-123			
1,2-Dichloroethane	19.9	1.0	"	20.000		99.4	63.3-133			
1,1,1-Trichloroethane	21.2	1.0	"	20.000		106	70.8-127			
Cyclohexane	19.3	1.0	"	20.000		96.4	65.8-137			
1,1-Dichloropropene	19.4	1.0	"	20.000		97.0	73.2-127			
Carbon Tetrachloride	23.4	1.0	"	20.000		117	62.6-131			
Bromodichloromethane	20.0	1.0	"	20.000		100	67.4-127			
Methyl Isobutyl Ketone	32.4	1.0	"	40.000		80.9	67.9-135			
1,2-Dichloropropane	18.5	1.0	"	20.000		92.4	70.4-131			
Methylcyclohexane	20.2	1.0	"	20.000		101	71.8-135			
Dibromomethane	21.1	1.0	"	20.000		105	68.9-127			
trans-1,3-Dichloropropene	19.8	1.0	"	20.000		99.0	63.1-142			
Trichloroethene (Trichloroethylene)	20.8	1.0	"	20.000		104	63.5-138			
Benzene	18.8	1.0	"	20.000		94.1	71.6-125			
Dibromochloromethane	22.1	1.0	"	20.000		110	60.6-133			
1,1,2-Trichloroethane	19.5	1.0	"	20.000		97.3	73-123			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
LCS (1203005-BS1)				Prepared & Analyzed: 03/02/12						
cis-1,3-Dichloropropene	19.0	1.0	ug/kg wet	20.000		94.8	71-133			
Bromoform	41.9	5.0	"	40.000		105	39.5-144			
Bromobenzene	19.4	1.0	"	20.000		96.8	66.2-129			
1,1,2,2-Tetrachloroethane	18.4	1.0	"	20.000		92.0	26.5-156			
Tetrachloroethene (Tetrachloroethylene)	22.8	1.0	"	20.000		114	60.4-143			
1,3-Dichloropropane	19.6	1.0	"	20.000		98.0	72.6-126			
Methyl Butyl Ketone	35.5	1.0	"	40.000		88.8	62.4-140			
Toluene	20.2	1.0	"	20.000		101	67.5-132			
Chlorobenzene	21.0	1.0	"	20.000		105	67.6-128			
1,1,1,2-Tetrachloroethane	23.6	1.0	"	20.000		118	71.2-131			
Ethyl Benzene	21.1	1.0	"	20.000		105	66.6-136			
(m- and/or p-)Xylene	43.2	2.0	"	40.000		108	66.3-138			
o-Xylene	21.2	1.0	"	20.000		106	72.8-133			
Styrene	21.9	1.0	"	20.000		109	67.4-139			
1,2,3-Trichloropropane	16.2	1.0	"	20.000		81.1	71.6-125			
o-Chlorotoluene	18.8	1.0	"	20.000		93.8	67.8-134			
p-Chlorotoluene	19.8	1.0	"	20.000		99.0	61.6-136			
1,3-Dichlorobenzene	20.3	1.0	"	20.000		101	60.3-134			
1,4-Dichlorobenzene	20.1	1.0	"	20.000		101	58-131			
1,2-Dichlorobenzene	20.5	1.0	"	20.000		102	65.8-127			
1,2-Dibromoethane (EDB)	19.9	1.0	"	20.000		99.6	66.2-134			
Isopropylbenzene	18.8	1.0	"	20.000		94.1	73.8-136			
n-Propylbenzene	19.8	1.0	"	20.000		99.2	67.1-139			
1,3,5-Trimethylbenzene	19.5	1.0	"	20.000		97.7	72.9-136			
tert-Butylbenzene	19.4	1.0	"	20.000		97.1	76.9-131			
1,2,4-Trimethylbenzene	19.3	1.0	"	20.000		96.7	70.1-135			
sec-Butylbenzene	19.4	1.0	"	20.000		97.0	74-133			
p-Isopropyltoluene	20.3	1.0	"	20.000		102	67.7-136			
n-Butylbenzene	20.0	1.0	"	20.000		99.8	60-137			
1,2-Dibromo-3-Chloropropane (DBCP)	30.4	5.0	"	40.000		76.0	54.2-125			
1,2,4-Trichlorobenzene	21.4	1.0	"	20.000		107	60.3-133			
Hexachlorobutadiene	21.9	1.0	"	20.000		109	59.9-129			
1,2,3-Trichlorobenzene	21.0	1.0	"	20.000		105	67-125			

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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
LCS Dup (1203005-BSD1)				Prepared & Analyzed: 03/02/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*21.4*		*ug/L*	*25.000*		*85.6*	*79.7-116*			
Surrogate: Dibromofluoromethane	*25.0*		*"*	*25.000*		*99.9*	*63.9-117*			
Surrogate: Toluene-d8	*24.6*		*"*	*25.000*		*98.4*	*83-113*			
Dichlorodifluoromethane (Freon 12)	16.6	1.0	ug/kg wet	20.000		83.0	20.2-150	22.7	20	QL-3
Chloromethane	16.1	1.0	"	20.000		80.5	34.6-144	10.2	20	
Bromomethane	11.3	1.0	"	20.000		56.4	11-128	13.8	20	
Vinyl chloride	18.1	1.0	"	20.000		90.4	34.8-150	4.82	20	
Chloroethane	6.52	1.0	"	20.000		32.6	10-114	14.8	20	
Trichlorofluoromethane (Freon 11)	14.2	1.0	"	20.000		71.0	40.7-141	5.35	20	
1,1-Dichloroethene (1,1-Dichloroethylene)	19.4	1.0	"	20.000		97.0	59.4-134	1.23	20	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	22.0	1.0	"	20.000		110	70.7-127	1.58	20	
Methylene Chloride	15.5	1.0	"	20.000		77.5	64.7-129	7.27	20	
Methyl T-Butyl Ether (MTBE)	17.4	1.0	"	20.000		87.2	71.9-129	0.172	20	
Acetone	35.6	5.0	"	40.000		89.0	29.1-169	7.64	20	
Carbon disulfide	17.7	1.0	"	20.000		88.7	51.6-129	0.565	20	
Methyl Acetate	19.9	1.0	"	40.000		49.8	50.9-140	5.00	20	QL-1
1,1-Dichloroethane	17.9	1.0	"	20.000		89.6	73.2-124	3.51	20	
cis-1,2-Dichloroethene	19.0	1.0	"	20.000		95.0	72.6-127	3.11	20	
2,2-Dichloropropane	20.7	1.0	"	20.000		104	58.4-144	5.54	20	
Methyl Ethyl Ketone	31.6	1.0	"	40.000		78.9	47.4-145	11.1	20	
Bromochloromethane	19.7	1.0	"	20.000		98.6	73.6-123	2.70	20	
trans-1,2-Dichloroethene	18.9	1.0	"	20.000		94.4	65.3-134	1.68	20	
Chloroform	19.2	1.0	"	20.000		96.0	71.7-123	4.73	20	
1,2-Dichloroethane	19.5	1.0	"	20.000		97.3	63.3-133	2.19	20	
1,1,1-Trichloroethane	19.7	1.0	"	20.000		98.3	70.8-127	7.40	20	
Cyclohexane	18.8	1.0	"	20.000		94.1	65.8-137	2.36	20	
1,1-Dichloropropene	19.2	1.0	"	20.000		96.0	73.2-127	1.04	20	
Carbon Tetrachloride	22.5	1.0	"	20.000		112	62.6-131	4.01	20	
Bromodichloromethane	19.0	1.0	"	20.000		95.0	67.4-127	5.13	20	
Methyl Isobutyl Ketone	30.4	1.0	"	40.000		76.0	67.9-135	6.25	20	
1,2-Dichloropropane	18.0	1.0	"	20.000		90.0	70.4-131	2.58	20	
Methylcyclohexane	19.1	1.0	"	20.000		95.4	71.8-135	5.66	20	
Dibromomethane	20.2	1.0	"	20.000		101	68.9-127	4.31	20	
trans-1,3-Dichloropropene	18.3	1.0	"	20.000		91.6	63.1-142	7.71	20	
Trichloroethene (Trichloroethylene)	19.9	1.0	"	20.000		99.6	63.5-138	4.03	20	
Benzene	18.5	1.0	"	20.000		92.4	71.6-125	1.82	20	
Dibromochloromethane	20.9	1.0	"	20.000		104	60.6-133	5.63	20	
1,1,2-Trichloroethane	19.1	1.0	"	20.000		95.6	73-123	1.76	20	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
LCS Dup (1203005-BSD1)				Prepared & Analyzed: 03/02/12						
cis-1,3-Dichloropropene	18.2	1.0	ug/kg wet	20.000		91.0	71-133	4.09	20	
Bromoform	39.4	5.0	"	40.000		98.4	39.5-144	6.30	20	
Bromobenzene	18.8	1.0	"	20.000		94.2	66.2-129	2.72	20	
1,1,2,2-Tetrachloroethane	17.3	1.0	"	20.000		86.4	26.5-156	6.28	20	
Tetrachloroethene (Tetrachloroethylene)	21.8	1.0	"	20.000		109	60.4-143	4.44	20	
1,3-Dichloropropane	18.6	1.0	"	20.000		92.9	72.6-126	5.29	20	
Methyl Butyl Ketone	33.1	1.0	"	40.000		82.6	62.4-140	7.17	20	
Toluene	19.4	1.0	"	20.000		97.0	67.5-132	4.19	20	
Chlorobenzene	20.2	1.0	"	20.000		101	67.6-128	3.59	20	
1,1,1,2-Tetrachloroethane	21.8	1.0	"	20.000		109	71.2-131	7.84	20	
Ethyl Benzene	20.1	1.0	"	20.000		101	66.6-136	4.51	20	
(m- and/or p-)Xylene	41.9	2.0	"	40.000		105	66.3-138	3.03	20	
o-Xylene	20.2	1.0	"	20.000		101	72.8-133	4.35	20	
Styrene	20.9	1.0	"	20.000		105	67.4-139	4.49	20	
1,2,3-Trichloropropane	16.3	1.0	"	20.000		81.4	71.6-125	0.431	20	
o-Chlorotoluene	18.3	1.0	"	20.000		91.4	67.8-134	2.54	20	
p-Chlorotoluene	18.7	1.0	"	20.000		93.7	61.6-136	5.45	20	
1,3-Dichlorobenzene	19.1	1.0	"	20.000		95.6	60.3-134	5.79	20	
1,4-Dichlorobenzene	19.3	1.0	"	20.000		96.4	58-131	4.36	20	
1,2-Dichlorobenzene	19.4	1.0	"	20.000		97.0	65.8-127	5.46	20	
1,2-Dibromoethane (EDB)	19.2	1.0	"	20.000		96.2	66.2-134	3.47	20	
Isopropylbenzene	18.1	1.0	"	20.000		90.4	73.8-136	4.01	20	
n-Propylbenzene	18.6	1.0	"	20.000		92.8	67.1-139	6.67	20	
1,3,5-Trimethylbenzene	18.7	1.0	"	20.000		93.3	72.9-136	4.61	20	
tert-Butylbenzene	18.7	1.0	"	20.000		93.6	76.9-131	3.72	20	
1,2,4-Trimethylbenzene	18.7	1.0	"	20.000		93.3	70.1-135	3.58	20	
sec-Butylbenzene	18.2	1.0	"	20.000		91.2	74-133	6.11	20	
p-Isopropyltoluene	19.3	1.0	"	20.000		96.5	67.7-136	5.05	20	
n-Butylbenzene	18.8	1.0	"	20.000		94.2	60-137	5.72	20	
1,2-Dibromo-3-Chloropropane (DBCP)	28.5	5.0	"	40.000		71.2	54.2-125	6.59	20	
1,2,4-Trichlorobenzene	20.4	1.0	"	20.000		102	60.3-133	5.12	20	
Hexachlorobutadiene	20.5	1.0	"	20.000		102	59.9-129	6.56	20	
1,2,3-Trichlorobenzene	19.9	1.0	"	20.000		99.3	67-125	5.34	20	

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
MRL Verification (1203005-PS1)				Prepared & Analyzed: 03/02/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*21.4*		*ug/L*	*25.000*		*85.5*	*79.7-116*			
Surrogate: Toluene-d8	*24.9*		*"*	*25.000*		*99.7*	*83-113*			
Surrogate: Dibromofluoromethane	*26.2*		*"*	*25.000*		*105*	*63.9-117*			
Dichlorodifluoromethane (Freon 12)	5.35		"	5.0000		107	10-170			
Chloromethane	4.70		"	5.0000		94.0	14.6-164			
Bromomethane	4.59		"	5.0000		91.8	10-148			
Vinyl chloride	4.65		"	5.0000		93.0	14.8-170			
Chloroethane	4.13		"	5.0000		82.6	10-134			
Trichlorofluoromethane (Freon 11)	5.72		"	5.0000		114	20.7-161			
1,1-Dichloroethene (1,1-Dichloroethylene)	5.10		"	5.0000		102	39.4-154			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.88		"	5.0000		118	50.7-147			
Methylene Chloride	5.01		"	5.0000		100	44.7-149			
Methyl T-Butyl Ether (MTBE)	3.84		"	5.0000		76.8	51.9-149			
Acetone	13.3		"	10.000		133	10-160			
Carbon disulfide	5.69		"	5.0000		114	31.6-149			
Methyl Acetate	6.37		"	10.000		63.7	30.9-160			
1,1-Dichloroethane	4.42		"	5.0000		88.4	53.2-144			
cis-1,2-Dichloroethene	4.46		"	5.0000		89.2	52.6-147			
2,2-Dichloropropane	5.05		"	5.0000		101	38.4-164			
Methyl Ethyl Ketone	9.61		"	10.000		96.1	27.4-165			
Bromochloromethane	5.04		"	5.0000		101	53.6-143			
trans-1,2-Dichloroethene	4.73		"	5.0000		94.6	45.3-154			
Chloroform	4.91		"	5.0000		98.2	51.7-143			
1,2-Dichloroethane	5.25		"	5.0000		105	43.3-153			
1,1,1-Trichloroethane	5.36		"	5.0000		107	50.8-147			
Cyclohexane	4.23		"	5.0000		84.6	45.8-157			
1,1-Dichloropropene	4.60		"	5.0000		92.0	53.2-147			
Carbon Tetrachloride	5.93		"	5.0000		119	42.6-151			
Bromodichloromethane	4.78		"	5.0000		95.6	47.4-147			
Methyl Isobutyl Ketone	7.43		"	10.000		74.3	47.9-155			
1,2-Dichloropropane	4.46		"	5.0000		89.2	50.4-151			
Methylcyclohexane	4.25		"	5.0000		85.0	51.8-155			
Dibromomethane	5.44		"	5.0000		109	48.9-147			
trans-1,3-Dichloropropene	4.24		"	5.0000		84.8	43.1-162			
Trichloroethene (Trichloroethylene)	4.80		"	5.0000		96.0	43.5-158			
Benzene	4.37		"	5.0000		87.4	51.6-145			
Dibromochloromethane	5.26		"	5.0000		105	40.6-153			
1,1,2-Trichloroethane	4.77		"	5.0000		95.4	53-143			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203005 - V 5035 VOA Soil and Waste Prep										
MRL Verification (1203005-PS1)				Prepared & Analyzed: 03/02/12						
cis-1,3-Dichloropropene	3.91		ug/L	5.0000		78.2	51-153			
Bromoform	10.2		"	10.000		102	19.5-164			MRL-3
Bromobenzene	4.56		"	5.0000		91.2	46.2-149			
1,1,2,2-Tetrachloroethane	4.73		"	5.0000		94.6	10-176			
Tetrachloroethene (Tetrachloroethylene)	5.60		"	5.0000		112	40.4-163			
1,3-Dichloropropane	4.64		"	5.0000		92.8	52.6-146			
Methyl Butyl Ketone	8.55		"	10.000		85.5	42.4-160			
Toluene	4.92		"	5.0000		98.4	47.5-152			
Chlorobenzene	5.27		"	5.0000		105	47.6-148			
1,1,1,2-Tetrachloroethane	5.46		"	5.0000		109	51.2-151			
Ethyl Benzene	4.70		"	5.0000		94.0	46.6-156			
(m- and/or p-)Xylene	10.0		"	10.000		100	46.3-158			
o-Xylene	4.60		"	5.0000		92.0	52.8-153			
Styrene	4.82		"	5.0000		96.4	47.4-159			
1,2,3-Trichloropropane	4.31		"	5.0000		86.2	51.6-145			
o-Chlorotoluene	4.29		"	5.0000		85.8	47.8-154			
p-Chlorotoluene	4.71		"	5.0000		94.2	41.6-156			
1,3-Dichlorobenzene	4.94		"	5.0000		98.8	40.3-154			
1,4-Dichlorobenzene	4.92		"	5.0000		98.4	38-151			
1,2-Dichlorobenzene	4.96		"	5.0000		99.2	45.8-147			
1,2-Dibromoethane (EDB)	4.86		"	5.0000		97.2	46.2-154			
Isopropylbenzene	3.84		"	5.0000		76.8	53.8-156			
n-Propylbenzene	4.17		"	5.0000		83.4	47.1-159			
1,3,5-Trimethylbenzene	4.26		"	5.0000		85.2	52.9-156			
tert-Butylbenzene	3.92		"	5.0000		78.4	56.9-151			
1,2,4-Trimethylbenzene	4.49		"	5.0000		89.8	50.1-165			
sec-Butylbenzene	4.09		"	5.0000		81.8	54-153			
p-Isopropyltoluene	4.44		"	5.0000		88.8	47.7-156			
n-Butylbenzene	4.10		"	5.0000		82.0	40-157			
1,2-Dibromo-3-Chloropropane (DBCP)	7.55		"	10.000		75.5	34.2-145			MRL-3
1,2,4-Trichlorobenzene	4.57		"	5.0000		91.4	40.3-153			
Hexachlorobutadiene	5.17		"	5.0000		103	39.9-149			
1,2,3-Trichlorobenzene	4.49		"	5.0000		89.8	47-145			

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-3	MRL verification for Soil matrix
Q-2	Result greater than MDL but less than MRL.
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-3	Laboratory Control Spike Precision outside method control limits
QM-3	Matrix Spike Precision outside method control limits

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March 4, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0208, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Sallie Hale
ASB Organic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Volatile Organics (VOA)	
Volatile organic compounds	EPA 8260C

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Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WT-FB-02	E120809-01	Field Blank	2/22/12 13:50	2/24/12 9:49
WT-RB-03	E120809-02	Equipment Rinse Blank	2/22/12 13:30	2/24/12 9:49

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-02 **Lab ID:** E120809-01

Station ID: **Matrix:** Field Blank

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C

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Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-02 **Lab ID:** E120809-01

Station ID: **Matrix:** Field Blank

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, QC-1	ug/L	2.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:08	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-09-2	Methylene Chloride	0.30	J, Q-2	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-02 **Lab ID:** E120809-01

Station ID: **Matrix:** Field Blank

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:08	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	2/27/12 11:43	2/27/12 13:08	EPA 8260C

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-RB-03 **Lab ID:** E120809-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-RB-03 **Lab ID:** E120809-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, QC-1	ug/L	2.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	2/27/12 11:43	2/27/12 13:34	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-09-2	Methylene Chloride	0.29	J, Q-2	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-RB-03 **Lab ID:** E120809-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	2/27/12 11:43	2/27/12 13:34	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	2/27/12 11:43	2/27/12 13:34	EPA 8260C

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D.A.R.T. Id: 12-0208
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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202148 - V 5030B VOA Wtr Prep										
Blank (1202148-BLK1)				Prepared & Analyzed: 02/27/12						
EPA 8260C										
Surrogate: Toluene-d8	*23.4*		*ug/L*	*25.000*		*93.6*	*80-120*			
Surrogate: Dibromofluoromethane	*23.8*		*"*	*25.000*		*95.4*	*80-120*			
Surrogate: p-Bromofluorobenzene	*24.8*		*"*	*25.000*		*99.2*	*80-120*			
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Chloromethane	U	0.50	"							U
Bromomethane	U	2.0	"							U
Vinyl chloride	U	0.50	"							U
Chloroethane	U	2.0	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Acetone	U	4.0	"							U
Carbon disulfide	U	2.0	"							U
Methyl Acetate	U	1.0	"							U
1,1-Dichloroethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Bromochloromethane	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
Chloroform	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
Cyclohexane	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
Carbon Tetrachloride	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
1,2-Dichloropropane	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Benzene	U	0.50	"							U
Dibromochloromethane	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202148 - V 5030B VOA Wtr Prep										
Blank (1202148-BLK1)				Prepared & Analyzed: 02/27/12						
cis-1,3-Dichloropropene	U	0.50	ug/L							U
Bromoform	U	1.0	"							U
Bromobenzene	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
Methyl Butyl Ketone	U	1.0	"							U
Toluene	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
(m- and/or p-)Xylene	U	1.0	"							U
o-Xylene	U	0.50	"							U
Styrene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
Naphthalene	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Sallie Hale

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202148 - V 5030B VOA Wtr Prep										
LCS (1202148-BS1)				Prepared & Analyzed: 02/27/12						
EPA 8260C										
Surrogate: p-Bromofluorobenzene	*24.1*		*ug/L*	*25.000*		*96.3*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*		*"*	*25.000*		*94.4*	*80-120*			
Surrogate: Toluene-d8	*23.6*		*"*	*25.000*		*94.4*	*80-120*			
Dichlorodifluoromethane (Freon 12)	18.780		"	20.000		93.9	63.5-132			
Chloromethane	17.610		"	20.000		88.0	68.9-118			
Bromomethane	15.250		"	20.000		76.2	49.9-140			QC-1
Vinyl chloride	20.480		"	20.000		102	78.8-115			
Chloroethane	21.060		"	20.000		105	76.7-118			
Trichlorofluoromethane (Freon 11)	21.910		"	20.000		110	78-129			
1,1-Dichloroethene (1,1-Dichloroethylene)	20.920		"	20.000		105	85.4-116			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20.860		"	20.000		104	80-124			
Methylene Chloride	21.390		"	20.000		107	81.2-118			
Methyl T-Butyl Ether (MTBE)	22.670		"	20.000		113	80.1-123			
Acetone	34.750		"	40.000		86.9	49.7-153			
Carbon disulfide	21.190		"	20.000		106	81.7-114			
Methyl Acetate	39.240		"	40.000		98.1	75.8-121			
1,1-Dichloroethane	21.400		"	20.000		107	87.8-113			
cis-1,2-Dichloroethene	22.670		"	20.000		113	87.6-115			
2,2-Dichloropropane	24.920		"	20.000		125	53.4-154			QC-2
Methyl Ethyl Ketone	37.980		"	40.000		95.0	68.1-135			
Bromochloromethane	22.400		"	20.000		112	83.6-117			
trans-1,2-Dichloroethene	21.200		"	20.000		106	86.6-114			
Chloroform	22.940		"	20.000		115	87.9-115			
1,2-Dichloroethane	23.520		"	20.000		118	83.9-122			
1,1,1-Trichloroethane	23.070		"	20.000		115	79.3-126			
Cyclohexane	19.800		"	20.000		99.0	83.5-122			
1,1-Dichloropropene	22.180		"	20.000		111	89.4-115			
Carbon Tetrachloride	24.390		"	20.000		122	68.8-140			QC-2
Bromodichloromethane	23.700		"	20.000		118	80-125			
Methyl Isobutyl Ketone	43.700		"	40.000		109	77-127			
1,2-Dichloropropane	21.340		"	20.000		107	88-113			
Methylcyclohexane	20.340		"	20.000		102	82.6-124			
Dibromomethane	22.620		"	20.000		113	87.3-117			
trans-1,3-Dichloropropene	24.010		"	20.000		120	77.4-127			
Trichloroethene (Trichloroethylene)	22.070		"	20.000		110	87.8-114			
Benzene	21.170		"	20.000		106	89.6-113			
Dibromochloromethane	24.410		"	20.000		122	71.7-133			QC-2
1,1,2-Trichloroethane	21.310		"	20.000		107	87.1-111			

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202148 - V 5030B VOA Wtr Prep										
LCS (1202148-BS1)				Prepared & Analyzed: 02/27/12						
cis-1,3-Dichloropropene	22.290		ug/L	20.000		111	81-121			
Bromoform	45.870		"	40.000		115	63.1-142			
Bromobenzene	21.850		"	20.000		109	84.6-112			
1,1,2,2-Tetrachloroethane	21.140		"	20.000		106	80.2-118			
Tetrachloroethene (Tetrachloroethylene)	22.150		"	20.000		111	85.1-113			
1,3-Dichloropropane	21.490		"	20.000		107	87.4-113			
Methyl Butyl Ketone	43.360		"	40.000		108	69.9-136			
Toluene	21.240		"	20.000		106	87.7-111			
Chlorobenzene	22.470		"	20.000		112	88.4-109			QL-2
1,1,1,2-Tetrachloroethane	23.780		"	20.000		119	76.5-128			
Ethyl Benzene	22.690		"	20.000		113	90-114			
(m- and/or p-)Xylene	45.620		"	40.000		114	91.3-117			
o-Xylene	22.830		"	20.000		114	88.9-116			
Styrene	23.750		"	20.000		119	89.9-119			
1,2,3-Trichloropropane	20.940		"	20.000		105	83.4-114			
o-Chlorotoluene	21.410		"	20.000		107	85.8-114			
p-Chlorotoluene	22.200		"	20.000		111	86.5-114			
1,3-Dichlorobenzene	21.790		"	20.000		109	86.4-112			
1,4-Dichlorobenzene	21.790		"	20.000		109	86.5-110			
1,2-Dichlorobenzene	22.730		"	20.000		114	86.4-111			QL-2
1,2-Dibromoethane (EDB)	22.290		"	20.000		111	87.3-115			
Isopropylbenzene	22.080		"	20.000		110	84.5-120			
n-Propylbenzene	21.880		"	20.000		109	87-117			
1,3,5-Trimethylbenzene	22.640		"	20.000		113	86.8-119			
tert-Butylbenzene	21.320		"	20.000		107	85.2-119			
1,2,4-Trimethylbenzene	22.590		"	20.000		113	86.5-121			
sec-Butylbenzene	22.110		"	20.000		111	86.2-120			
p-Isopropyltoluene	23.040		"	20.000		115	86.3-123			
n-Butylbenzene	23.080		"	20.000		115	85.7-121			
1,2-Dibromo-3-Chloropropane (DBCP)	46.150		"	40.000		115	72.3-136			
1,2,4-Trichlorobenzene	23.320		"	20.000		117	83.9-117			
Hexachlorobutadiene	21.690		"	20.000		108	80.2-116			
1,2,3-Trichlorobenzene	23.840		"	20.000		119	85-117			QL-2
Naphthalene	24.060		"	20.000		120	80.8-127			QC-2

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202148 - V 5030B VOA Wtr Prep										
MRL Verification (1202148-PS1)				Prepared & Analyzed: 02/27/12						
EPA 8260C										
Surrogate: Toluene-d8	*23.5*		*ug/L*	*25.000*		*93.8*	*80-120*			
Surrogate: p-Bromofluorobenzene	*24.8*		*"*	*25.000*		*99.1*	*80-120*			
Dichlorodifluoromethane (Freon 12)	0.34000		"	0.50000		68.0	43.5-152			MRL-2
Chloromethane	0.47000		"	0.50000		94.0	48.9-138			MRL-2
Bromomethane	0.54000		"	0.50000		108	29.9-160			
Vinyl chloride	0.46000		"	0.50000		92.0	58.8-135			MRL-2
Chloroethane	0.42000		"	0.50000		84.0	56.7-138			
Trichlorofluoromethane (Freon 11)	0.46000		"	0.50000		92.0	58-149			MRL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.47000		"	0.50000		94.0	65.4-136			MRL-2
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.44000		"	0.50000		88.0	60-144			MRL-2
Methylene Chloride	0.58000		"	0.50000		116	61.2-138			MRL-2
Methyl T-Butyl Ether (MTBE)	0.50000		"	0.50000		100	60.1-143			MRL-2
Acetone	1.2100		"	1.0000		121	29.7-173			
Carbon disulfide	0.59000		"	0.50000		118	61.7-134			
Methyl Acetate	1.0000		"	1.0000		100	55.8-141			MRL-2
1,1-Dichloroethane	0.54000		"	0.50000		108	67.8-133			MRL-2
cis-1,2-Dichloroethene	0.52000		"	0.50000		104	67.6-135			MRL-2
2,2-Dichloropropane	0.58000		"	0.50000		116	33.4-174			MRL-2
Methyl Ethyl Ketone	0.76000		"	1.0000		76.0	48.1-155			
Bromochloromethane	0.53000		"	0.50000		106	63.6-137			MRL-2
trans-1,2-Dichloroethene	0.55000		"	0.50000		110	66.6-134			MRL-2
Chloroform	0.56000		"	0.50000		112	67.9-135			MRL-2
1,2-Dichloroethane	0.60000		"	0.50000		120	63.9-142			MRL-2
1,1,1-Trichloroethane	0.53000		"	0.50000		106	59.3-146			MRL-2
Cyclohexane	0.37000		"	0.50000		74.0	63.5-142			MRL-2
1,1-Dichloropropene	0.46000		"	0.50000		92.0	69.4-135			MRL-2
Carbon Tetrachloride	0.48000		"	0.50000		96.0	48.8-160			MRL-2
Bromodichloromethane	0.53000		"	0.50000		106	60-145			MRL-2
Methyl Isobutyl Ketone	0.78000		"	1.0000		78.0	57-147			MRL-2
1,2-Dichloropropane	0.47000		"	0.50000		94.0	68-133			MRL-2
Methylcyclohexane	0.37000		"	0.50000		74.0	62.6-144			MRL-2
Dibromomethane	0.52000		"	0.50000		104	67.3-137			MRL-2
trans-1,3-Dichloropropene	0.48000		"	0.50000		96.0	57.4-147			MRL-2
Trichloroethene (Trichloroethylene)	0.52000		"	0.50000		104	67.8-134			MRL-2
Benzene	0.52000		"	0.50000		104	69.6-133			MRL-2
Dibromochloromethane	0.54000		"	0.50000		108	51.7-153			MRL-2
1,1,2-Trichloroethane	0.49000		"	0.50000		98.0	67.1-131			MRL-2
cis-1,3-Dichloropropene	0.50000		"	0.50000		100	61-141			MRL-2

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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202148 - V 5030B VOA Wtr Prep										
MRL Verification (1202148-PS1)				Prepared & Analyzed: 02/27/12						
Bromoform	0.94000		ug/L	1.0000		94.0	43.1-162			MRL-2
Bromobenzene	0.51000		"	0.50000		102	64.6-132			MRL-2
1,1,2,2-Tetrachloroethane	0.50000		"	0.50000		100	60.2-138			MRL-2
Tetrachloroethene (Tetrachloroethylene)	0.47000		"	0.50000		94.0	65.1-133			MRL-2
1,3-Dichloropropane	0.52000		"	0.50000		104	67.4-133			MRL-2
Methyl Butyl Ketone	0.77000		"	1.0000		77.0	49.9-156			MRL-2
Toluene	0.52000		"	0.50000		104	67.7-131			MRL-2
Chlorobenzene	0.55000		"	0.50000		110	68.4-129			MRL-2
1,1,1,2-Tetrachloroethane	0.52000		"	0.50000		104	56.5-148			MRL-2
Ethyl Benzene	0.52000		"	0.50000		104	70-134			MRL-2
(m- and/or p-)Xylene	1.0100		"	1.0000		101	71.3-137			MRL-2
o-Xylene	0.53000		"	0.50000		106	68.9-136			MRL-2
Styrene	0.44000		"	0.50000		88.0	69.9-139			MRL-2
1,2,3-Trichloropropane	0.49000		"	0.50000		98.0	63.4-134			MRL-2
o-Chlorotoluene	0.48000		"	0.50000		96.0	65.8-134			MRL-2
p-Chlorotoluene	0.50000		"	0.50000		100	66.5-134			MRL-2
1,3-Dichlorobenzene	0.46000		"	0.50000		92.0	66.4-132			MRL-2
1,4-Dichlorobenzene	0.52000		"	0.50000		104	66.5-130			MRL-2
1,2-Dichlorobenzene	0.54000		"	0.50000		108	66.4-131			MRL-2
1,2-Dibromoethane (EDB)	0.46000		"	0.50000		92.0	67.3-135			MRL-2
Isopropylbenzene	0.46000		"	0.50000		92.0	64.5-140			MRL-2
n-Propylbenzene	0.49000		"	0.50000		98.0	67-137			MRL-2
1,3,5-Trimethylbenzene	0.44000		"	0.50000		88.0	66.8-139			MRL-2
tert-Butylbenzene	0.43000		"	0.50000		86.0	65.2-139			MRL-2
1,2,4-Trimethylbenzene	0.42000		"	0.50000		84.0	66.5-141			MRL-2
sec-Butylbenzene	0.43000		"	0.50000		86.0	66.2-140			MRL-2
p-Isopropyltoluene	0.46000		"	0.50000		92.0	66.3-143			MRL-2
n-Butylbenzene	0.42000		"	0.50000		84.0	65.7-141			MRL-2
1,2-Dibromo-3-Chloropropane (DBCP)	0.95000		"	1.0000		95.0	52.3-156			MRL-2
1,2,4-Trichlorobenzene	0.51000		"	0.50000		102	63.9-137			MRL-2
Hexachlorobutadiene	0.50000		"	0.50000		100	60.2-136			MRL-2
1,2,3-Trichlorobenzene	0.48000		"	0.50000		96.0	65-137			MRL-2
Total Xylenes	0.0000		"				0-200			U
Naphthalene	0.47000		"	0.50000		94.0	60.8-147			MRL-2

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
QL-2	Laboratory Control Spike Recovery greater than method control limits

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

April 18, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0222, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	CLP BNA

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Report Narrative for Work Order C121119, Project: 12-0222
Site Name: Fairfax Street Wood Treaters, Jacksonville, FL
CLP Case No. 42230, ELEMENT Sample Nos. C121119-01 through C121119-14

Organic Analysis: ALS Laboratory Group, Salt Lake City, UT

The ESAT Work Team reviewed data for two water and eleven (11) soil samples analyzed for Semi-Volatile Extractable Organic Compounds, Pesticide Compounds, and PCB Aroclors per CLP Statement of Work SOM01.2. The samples were collected between 02/20/12 and 02/22/12, and were received by the laboratory on 02/23/12. The final data package was received on 03/15/12 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The analytical results were reported in one sample delivery group (SDG) by the laboratory. In addition to the field samples, the laboratory also analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Data quality factors requiring qualification of results are discussed below:

Semi-Volatile Extractable Organic Compounds

Water Matrix

There were no anomalies associated with the water semi-volatiles requiring additional qualification.

Soil Matrix

The percent recovery of the DMC 4-chloroaniline-d4 was within the quality control limits established in the method and less than 10% in samples C121119-03, 05, 07, 09, 10, and 12. The compounds associated with this DMC qualified "J" (QS-4).

Pesticide Compounds

Pesticide results were qualified "N,CLP12" whenever the percent difference between analytical column results exceeds 25% but is less than 70%. Higher percent differences with the attached "N" qualifier may be indicative of a false positive result.

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Water Matrix

There were no anomalies associated with the water pesticides requiring additional qualification.

Soil Matrix

The laboratory scored within limits for all spiked compounds in the soil PES with the exception dieldrin which was scored as warning low. All dieldrin soil sample results were qualified "J" (CLP25).

The percent recoveries of the pesticide surrogates were greater than the upper quality control limit in samples C121119-06, 08, and 13. Any positive detects in these samples were qualified "J" (QS-5).

PCB Aroclors

There were no anomalies associated with the PCB Aroclors requiring additional qualification.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
WT-FB-02	C121119-01		6NK0	Field Blank	2/22/12 13:50
WT-RB-03	C121119-02		6NJ9	Equipment Rinse Blank	2/22/12 13:30
WT-FB-G01-SB-A	C121119-03		6NH8	Subsurface Soil	2/20/12 12:20
WT-FB-G01-SB-B	C121119-04		6NH9	Subsurface Soil	2/20/12 12:25
WT-FB-G02-SB-A	C121119-05		6NJ0	Subsurface Soil	2/20/12 15:15
WT-FB-G02-SB-B	C121119-06		6NJ1	Subsurface Soil	2/20/12 15:20
WT-FB-G03-SB-A	C121119-07		6NJ2	Subsurface Soil	2/21/12 11:05
WT-FB-G03-SB-B	C121119-08		6NJ3	Subsurface Soil	2/21/12 11:10
WT-FB-G04-SB-A	C121119-09		6NJ4	Subsurface Soil	2/21/12 14:10
WT-FB-G04-SB-A-DUP	C121119-10		6NJ5	Subsurface Soil	2/21/12 14:20
WT-FB-G04-SB-B	C121119-11		6NJ6	Subsurface Soil	2/21/12 14:15
WT-FB-G05-SB-A	C121119-12		6NJ7	Subsurface Soil	2/21/12 15:50
WT-FB-G05-SB-B	C121119-13		6NJ8	Subsurface Soil	2/21/12 15:55

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
CLP16	Initial Calibration Response Erratic
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte concentration low in continuing calibration verification standard
QS-4	Surrogate recovery less than 10%

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-02 **Lab ID:** C121119-01 **MD No:**

Station ID: **Matrix:** Field Blank **D No:** 6NK0 DATAC

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-02 **Lab ID:** C121119-01 **MD No:**

Station ID: **Matrix:** Field Blank **D No:** 6NK0 DATAC

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	0.74	J, CLP01	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1, CLP16	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-02 **Lab ID:** C121119-01 **MD No:**
Station ID: **Matrix:** Field Blank **D No:** 6NK0 DATAC

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
91-20-3	Naphthalene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U, J, CLP16	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	10	J, CLP15	ug/L		2/23/12	2/27/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-RB-03 **Lab ID: C121119-02** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 6NJ9 DATAC**

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
83-32-9	Acenaphthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
208-96-8	Acenaphthylene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-RB-03 **Lab ID: C121119-02** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 6NJ9 DATAC**

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	0.83	J, CLP01	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
120-12-7	Anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
1912-24-9	Atrazine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	1.4	J, CLP01	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
218-01-9	Chrysene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
206-44-0	Fluoranthene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
86-73-7	Fluorene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, QC-1, CLP16	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-RB-03 **Lab ID: C121119-02** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 6NJ9 DATAC**

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
78-59-1	Isophorone	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
91-20-3	Naphthalene	1.2	J, CLP01	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	10	U, J, CLP16	ug/L	10	2/23/12	2/27/12	CLP SOM01.2 B
85-01-8	Phenanthrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
108-95-2	Phenol	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
129-00-0	Pyrene	5.0	U	ug/L	5.0	2/23/12	2/27/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-62-9	9-Octadecenoic acid (Z)-, methyl ester	9	NJ, CLP15	ug/L		2/23/12	2/27/12	CLP SOM01.2 B
143-07-7	Dodecanoic acid	40	NJ, CLP15	ug/L		2/23/12	2/27/12	CLP SOM01.2 B
112-39-0	Hexadecanoic acid, methyl ester	20	NJ, CLP15	ug/L		2/23/12	2/27/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	30	J, CLP15	ug/L		2/23/12	2/27/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-A **Lab ID: C121119-03** **MD No:**
Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH8 DATAC**

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	37		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	520	U, J, CLP16	ug/kg dry	520	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	520	U	ug/kg dry	520	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	520	U	ug/kg dry	520	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	270	U, J, QS-4	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	520	U	ug/kg dry	520	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	270	U, J, QS-4	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	520	U	ug/kg dry	520	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	520	U	ug/kg dry	520	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-A **Lab ID: C121119-03** **MD No:**
Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH8 DATAC**

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	29	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	71	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	46	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	52	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	64	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	100	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-A **Lab ID: C121119-03** **MD No:**
Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH8 DATAC**

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	270	U, J, QC-1, QS-4, CLP16	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	520	U, J, CLP16	ug/kg dry	520	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	70	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	270	U	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	180	J, CLP01	ug/kg dry	270	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
54446-78-5	Ethanol, 1-(2-butoxyethoxy)-	10000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
629-59-4	Tetradecane	500	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	100000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-B **Lab ID: C121119-04** **MD No:**

Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH9 DATAC**

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	34		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	400	J, CLP01	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	2500	U, J, CLP16	ug/kg dry	2500	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	2500	U	ug/kg dry	2500	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	2100		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	2500	U	ug/kg dry	2500	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	2500	U	ug/kg dry	2500	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	2500	U	ug/kg dry	2500	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	2500	U	ug/kg dry	2500	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	440	J, CLP01	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-B **Lab ID: C121119-04** **MD No:**
Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH9 DATAC**

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	4200		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	3200		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	6200		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	4000		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	5200		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	1400		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	1600		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	1800		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	5500		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	570	J, CLP01	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	2900		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	17000		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	1800		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-B **Lab ID: C121119-04** **MD No:**
Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH9 DATAC**

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	1300	U, J, QC-1, CLP16	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	2000		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	2500	U, J, CLP16	ug/kg dry	2500	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	25000		ug/kg dry	3900	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	1300	U	ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	15000		ug/kg dry	1300	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
137235-51-9	1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2, 4-dien	7000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
781-43-1	9,10-Dimethylanthracene	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
1689-64-1	9H-Fluoren-9-ol	1000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
486-25-9	9H-Fluoren-9-one	7000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
301-02-0	9-Octadecenamide, (Z)-	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
5737-13-3	Cyclopenta(def)phenanthrenone	4000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
7320-53-8	Dibenzofuran, 4-methyl-	3000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
132-65-0	Dibenzothiophene	4000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
571-58-4	Naphthalene, 1,4-dimethyl-	3000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
575-43-9	Naphthalene, 1,6-dimethyl-	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
90-12-0	Naphthalene, 1-methyl-	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
198-55-0	Perylene	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
832-69-9	Phenanthrene, 1-methyl-	10000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	200000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-A **Lab ID: C121119-05** **MD No:**
Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ0 DATAC**

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	44		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	580	U, J, CLP16	ug/kg dry	580	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	580	U	ug/kg dry	580	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	580	U	ug/kg dry	580	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	300	U, J, QS-4	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	580	U	ug/kg dry	580	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	300	U, J, QS-4	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	580	U	ug/kg dry	580	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	580	U	ug/kg dry	580	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-A **Lab ID: C121119-05** **MD No:**
Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ0 DATAC**

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	37	J, CLP01	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-A **Lab ID: C121119-05** **MD No:**
Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ0 DATAC**

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	300	U, J, QC-1, QS-4, CLP16	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	580	U, J, CLP16	ug/kg dry	580	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	300	U	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	42	J, CLP01	ug/kg dry	300	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
300574-36-1	5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	6000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
54446-78-5	Ethanol, 1-(2-butoxyethoxy)-	10000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	200000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-B **Lab ID: C121119-06** **MD No:**

Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ1 DATAC**

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	4400	U, J, CLP16	ug/kg dry	4400	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	4400	U	ug/kg dry	4400	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	230	J, CLP01	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	4400	U	ug/kg dry	4400	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	4400	U	ug/kg dry	4400	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	4400	U	ug/kg dry	4400	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	4400	U	ug/kg dry	4400	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-B **Lab ID: C121119-06** **MD No:**
Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ1 DATAC**

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	5300		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	5500		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	22000		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	17000		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	21000		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	6700		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	7800		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	1100	J, CLP01	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	20000		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	2800		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	1100	J, CLP01	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	46000		ug/kg dry	6800	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	1100	J, CLP01	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-B **Lab ID: C121119-06** **MD No:**
Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ1 DATAC**

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	2300	U, J, QC-1, CLP16	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	7800		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	4400	U, J, CLP16	ug/kg dry	4400	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	31000		ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	2300	U	ug/kg dry	2300	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	52000		ug/kg dry	6800	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
781-43-1	9,10-Dimethylanthracene	4000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
205-82-3	Benzo[j]fluoranthene	8000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
5737-13-3	Cyclopenta(def)phenanthrenone	10000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
5385-75-1	Dibenz(a,e)aceanthrylene	4000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
7320-53-8	Dibenzofuran, 4-methyl-	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
132-65-0	Dibenzothiophene	4000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
198-55-0	Perylene	20000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
832-69-9	Phenanthrene, 1-methyl-	20000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
832-64-4	Phenanthrene, 4-methyl-	9000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
2381-21-7	Pyrene, 1-methyl-	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	60000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-A **Lab ID: C121119-07** **MD No:**
Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ2 DATAC**

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	28	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U, J, QS-4	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U, J, QS-4	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-A **Lab ID: C121119-07** **MD No:**
Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ2 DATAC**

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	25	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	40	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	29	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	35	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	38	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	82	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-A **Lab ID: C121119-07** **MD No:**
Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ2 DATAC**

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QC-1, QS-4, CLP16	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U, J, CLP16	ug/kg dry	400	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	110	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	97	J, CLP01	ug/kg dry	210	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
300574-36-1	5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan	3000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
54446-78-5	Ethanol, 1-(2-butoxyethoxy)-	9000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	100000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-B **Lab ID: C121119-08** **MD No:**
Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ3 DATAC**

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		2/28/12	3/01/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	51000	U, J, CLP16	ug/kg dry	51000	2/28/12	3/01/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	51000	U	ug/kg dry	51000	2/28/12	3/01/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	6600	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	51000	U	ug/kg dry	51000	2/28/12	3/01/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	51000	U	ug/kg dry	51000	2/28/12	3/01/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	51000	U	ug/kg dry	51000	2/28/12	3/01/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	51000	U	ug/kg dry	51000	2/28/12	3/01/12	CLP SOM01.2 B
83-32-9	Acenaphthene	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-B **Lab ID: C121119-08** **MD No:**
Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ3 DATAC**

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	15000	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
98-86-2	Acetophenone	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
120-12-7	Anthracene	15000	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
1912-24-9	Atrazine	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	37000		ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	25000	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	31000		ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	8800	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	11000	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
105-60-2	Caprolactam	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
86-74-8	Carbazole	5500	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
218-01-9	Chrysene	31000		ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	4400	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	8000	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
206-44-0	Fluoranthene	83000		ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
86-73-7	Fluorene	6800	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	26000	U, J, CLP16	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-B **Lab ID: C121119-08** **MD No:**

Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ3 DATAC**

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	16000	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
78-59-1	Isophorone	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
91-20-3	Naphthalene	4600	J, CLP01	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	51000	U, J, CLP16	ug/kg dry	51000	2/28/12	3/01/12	CLP SOM01.2 B
85-01-8	Phenanthrene	97000		ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
108-95-2	Phenol	26000	U	ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
129-00-0	Pyrene	86000		ug/kg dry	26000	2/28/12	3/01/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	30000	U	ug/kg dry	30000	2/24/12	3/01/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A **Lab ID: C121119-09** **MD No:**
Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ4 DATAC**

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	39		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	540	U, J, CLP16	ug/kg dry	540	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	540	U	ug/kg dry	540	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	540	U	ug/kg dry	540	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	280	U, J, QS-4	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	540	U	ug/kg dry	540	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	280	U, J, QS-4	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	540	U	ug/kg dry	540	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	540	U	ug/kg dry	540	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A **Lab ID: C121119-09** **MD No:**
Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ4 DATAC**

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	45	J, CLP01	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	33	J, CLP01	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	41	J, CLP01	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	40	J, CLP01	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	83	J, CLP01	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A **Lab ID: C121119-09** **MD No:**

Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ4 DATAC**

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	280	U, J, QC-1, QS-4, CLP16	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	540	U, J, CLP16	ug/kg dry	540	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	73	J, CLP01	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	280	U	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	96	J, CLP01	ug/kg dry	280	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
98-82-8	Benzene, (1-methylethyl)-	1000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
54446-78-5	Ethanol, 1-(2-butoxyethoxy)-	10000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	200000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID: C121119-10** **MD No:**

Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ5 DATAC**

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	42		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	560	U, J, CLP16	ug/kg dry	560	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	560	U	ug/kg dry	560	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	560	U	ug/kg dry	560	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	290	U, J, QS-4	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	560	U	ug/kg dry	560	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	290	U, J, QS-4	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	560	U	ug/kg dry	560	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	560	U	ug/kg dry	560	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID: C121119-10** **MD No:**

Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ5 DATAC**

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	47	J, CLP01	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** C121119-10 **MD No:**
Station ID: WTFBG04 **Matrix:** Subsurface Soil **D No:** 6NJ5 DATAC

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	290	U, J, QC-1, QS-4, CLP16	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	560	U, J, CLP16	ug/kg dry	560	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	41	J, CLP01	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	290	U	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	51	J, CLP01	ug/kg dry	290	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
54446-78-5	Ethanol, 1-(2-butoxyethoxy)-	10000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	200000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-B **Lab ID: C121119-11** **MD No:**

Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ6 DATAC**

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	44		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	2900	U, J, CLP16	ug/kg dry	2900	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	2900	U	ug/kg dry	2900	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	2900	U	ug/kg dry	2900	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	2900	U	ug/kg dry	2900	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	2900	U	ug/kg dry	2900	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	2900	U	ug/kg dry	2900	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-B **Lab ID:** C121119-11 **MD No:**
Station ID: WTFBG04 **Matrix:** Subsurface Soil **D No:** 6NJ6 DATAC

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	450	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	570	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	1500		ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	1100	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	1500	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	390	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	440	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	270	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	1300	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	170	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	3400		ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	170	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-B **Lab ID:** C121119-11 **MD No:**
Station ID: WTFBG04 **Matrix:** Subsurface Soil **D No:** 6NJ6 DATAC

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	1500	U, J, QC-1, CLP16	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	590	J, CLP01	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	2900	U, J, CLP16	ug/kg dry	2900	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	3200		ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	1500	U	ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	3300		ug/kg dry	1500	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	100000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-A **Lab ID: C121119-12** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ7 DATAC**

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	8.0		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	180	U, J, QS-4	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	180	U, J, QS-4	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-A **Lab ID:** C121119-12 **MD No:**
Station ID: WTFBG05 **Matrix:** Subsurface Soil **D No:** 6NJ7 DATAC

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	29	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	28	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	100	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	75	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	110	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	31	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	6700		ug/kg dry	920	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	1600		ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	95	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	160	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-A **Lab ID: C121119-12** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ7 DATAC**

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	180	U, J, QC-1, QS-4, CLP16	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	28	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	360	U, J, CLP16	ug/kg dry	360	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	110	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	180	U	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	160	J, CLP01	ug/kg dry	180	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
98475-03-7	2-(2-Indanylidene)-1-indanone	300	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
301-02-0	9-Octadecenamide, (Z)-	1000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
54446-78-5	Ethanol, 1-(2-butoxyethoxy)-	6000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
115-86-6	Triphenyl phosphate	200	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	90000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-B **Lab ID: C121119-13** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ8 DATAC**

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	6.7		%		2/24/12	2/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	3500	U, J, CLP16	ug/kg dry	3500	2/24/12	2/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	3500	U	ug/kg dry	3500	2/24/12	2/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	3500	U	ug/kg dry	3500	2/24/12	2/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	3500	U	ug/kg dry	3500	2/24/12	2/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	3500	U	ug/kg dry	3500	2/24/12	2/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	3500	U	ug/kg dry	3500	2/24/12	2/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-B **Lab ID: C121119-13** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ8 DATAC**

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	1500	J, CLP01	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
120-12-7	Anthracene	2300		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	5000		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	3400		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	4200		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	1500	J, CLP01	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	1600	J, CLP01	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
86-74-8	Carbazole	1300	J, CLP01	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
218-01-9	Chrysene	4200		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	530	J, CLP01	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	980	J, CLP01	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	11000		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
86-73-7	Fluorene	920	J, CLP01	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B

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D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-B **Lab ID: C121119-13** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ8 DATAC**

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	1800	U, J, QC-1, CLP16	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	1900		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
78-59-1	Isophorone	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	3500	U, J, CLP16	ug/kg dry	3500	2/24/12	2/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	15000		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
108-95-2	Phenol	1800	U	ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
129-00-0	Pyrene	11000		ug/kg dry	1800	2/24/12	2/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
486-25-9	9H-Fluoren-9-one	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
301-02-0	9-Octadecenamide, (Z)-	20000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
198-55-0	Perylene	2000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			2/24/12	2/28/12	CLP SOM01.2 B
832-69-9	Phenanthrene, 1-methyl-	4000	NJ, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	100000	J, CLP15	ug/kg dry		2/24/12	2/28/12	CLP SOM01.2 B

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April 18, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0222, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Organochlorine Pesticides (OCP)	
Organochlorine pesticides	CLP Pesticides

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Report Narrative for Work Order C121119, Project: 12-0222
Site Name: Fairfax Street Wood Treaters, Jacksonville, FL
CLP Case No. 42230, ELEMENT Sample Nos. C121119-01 through C121119-14

Organic Analysis: ALS Laboratory Group, Salt Lake City, UT

The ESAT Work Team reviewed data for two water and eleven (11) soil samples analyzed for Semi-Volatile Extractable Organic Compounds, Pesticide Compounds, and PCB Aroclors per CLP Statement of Work SOM01.2. The samples were collected between 02/20/12 and 02/22/12, and were received by the laboratory on 02/23/12. The final data package was received on 03/15/12 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The analytical results were reported in one sample delivery group (SDG) by the laboratory. In addition to the field samples, the laboratory also analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Data quality factors requiring qualification of results are discussed below:

Semi-Volatile Extractable Organic Compounds

Water Matrix

There were no anomalies associated with the water semi-volatiles requiring additional qualification.

Soil Matrix

The percent recovery of the DMC 4-chloroaniline-d4 was within the quality control limits established in the method and less than 10% in samples C121119-03, 05, 07, 09, 10, and 12. The compounds associated with this DMC qualified "J" (QS-4).

Pesticide Compounds

Pesticide results were qualified "N,CLP12" whenever the percent difference between analytical column results exceeds 25% but is less than 70%. Higher percent differences with the attached "N" qualifier may be indicative of a false positive result.

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Water Matrix

There were no anomalies associated with the water pesticides requiring additional qualification.

Soil Matrix

The laboratory scored within limits for all spiked compounds in the soil PES with the exception dieldrin which was scored as warning low. All dieldrin soil sample results were qualified "J" (CLP25).

The percent recoveries of the pesticide surrogates were greater than the upper quality control limit in samples C121119-06, 08, and 13. Any positive detects in these samples were qualified "J" (QS-5).

PCB Aroclors

There were no anomalies associated with the PCB Aroclors requiring additional qualification.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
WT-FB-02	C121119-01		6NK0	Field Blank	2/22/12 13:50
WT-RB-03	C121119-02		6NJ9	Equipment Rinse Blank	2/22/12 13:30
WT-FB-G01-SB-A	C121119-03		6NH8	Subsurface Soil	2/20/12 12:20
WT-FB-G01-SB-B	C121119-04		6NH9	Subsurface Soil	2/20/12 12:25
WT-FB-G02-SB-A	C121119-05		6NJ0	Subsurface Soil	2/20/12 15:15
WT-FB-G02-SB-B	C121119-06		6NJ1	Subsurface Soil	2/20/12 15:20
WT-FB-G03-SB-A	C121119-07		6NJ2	Subsurface Soil	2/21/12 11:05
WT-FB-G03-SB-B	C121119-08		6NJ3	Subsurface Soil	2/21/12 11:10
WT-FB-G04-SB-A	C121119-09		6NJ4	Subsurface Soil	2/21/12 14:10
WT-FB-G04-SB-A-DUP	C121119-10		6NJ5	Subsurface Soil	2/21/12 14:20
WT-FB-G04-SB-B	C121119-11		6NJ6	Subsurface Soil	2/21/12 14:15
WT-FB-G05-SB-A	C121119-12		6NJ7	Subsurface Soil	2/21/12 15:50
WT-FB-G05-SB-B	C121119-13		6NJ8	Subsurface Soil	2/21/12 15:55

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP12	Difference between GC columns above method warning limit
CLP25	PE sample recovery scored as warning-low.
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QS-5	Surrogate recovery is higher than established control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-02 **Lab ID:** C121119-01 **MD No:**
Station ID: **Matrix:** Field Blank **D No:** 6NK0 DATAC

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
319-85-7	beta-BHC	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
72-20-8	Endrin	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U	ug/L	0.50	2/23/12	2/26/12	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U	ug/L	5.0	2/23/12	2/26/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-RB-03 **Lab ID: C121119-02** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 6NJ9 DATAC**

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
72-54-8	4,4'-DDD (p,p'-DDD)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
309-00-2	Aldrin	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
319-84-6	alpha-BHC	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
319-85-7	beta-BHC	0.018	J, CLP01	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
319-86-8	delta-BHC	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
60-57-1	Dieldrin	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
72-20-8	Endrin	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	0.10	U	ug/L	0.10	2/23/12	2/26/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
76-44-8	Heptachlor	0.050	U	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	0.023	J, CLP01	ug/L	0.050	2/23/12	2/26/12	CLP SOM01.2 P
72-43-5	Methoxychlor	0.50	U	ug/L	0.50	2/23/12	2/26/12	CLP SOM01.2 P
8001-35-2	Toxaphene	5.0	U	ug/L	5.0	2/23/12	2/26/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-A **Lab ID: C121119-03** **MD No:**
Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH8 DATAC**

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	37		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	0.46	NJ, CLP01, CLP12	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	5.2	U, J, CLP25	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	5.2	U	ug/kg dry	5.2	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	2.7	U	ug/kg dry	2.7	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	27	U	ug/kg dry	27	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	270	U	ug/kg dry	270	2/24/12	3/03/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-B **Lab ID: C121119-04** **MD No:**
Station ID: WTFBG01 **Matrix: Subsurface Soil** **D No: 6NH9 DATAC**

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	34		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	4.9	U	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	4.9	U	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	6.2	U	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	4.9	U, J, CLP25	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	4.9	U	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	3.3	NJ, CLP01, CLP12	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	4.9	U	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	4.9	U	ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	13		ug/kg dry	4.9	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	2.5	U	ug/kg dry	2.5	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	25	U	ug/kg dry	25	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	250	U	ug/kg dry	250	2/24/12	3/03/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-A **Lab ID: C121119-05** **MD No:**
Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ0 DATAC**

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	44		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	5.9	U, J, CLP25	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	30	U	ug/kg dry	30	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	300	U	ug/kg dry	300	2/24/12	3/03/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-B **Lab ID: C121119-06** **MD No:**
Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ1 DATAC**

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	44	U	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	44	U	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	44	U	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	44	U, J, CLP25	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	44	U	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	29	NJ, CLP01, CLP12, QS-5	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	44	U	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	44	U	ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	100		ug/kg dry	44	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	230	U	ug/kg dry	230	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	2300	U	ug/kg dry	2300	2/24/12	3/03/12	CLP SOM01.2 P

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-A **Lab ID: C121119-07** **MD No:**
Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ2 DATAC**

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	4.0	U	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	4.0	U	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	4.0	U	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	4.0	U, J, CLP25	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	4.0	U	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	4.0	U	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	1.1	NJ, CLP01, CLP12	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	4.0	U	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	4.0	U	ug/kg dry	4.0	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	2.1	U	ug/kg dry	2.1	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	21	U	ug/kg dry	21	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	210	U	ug/kg dry	210	2/24/12	3/03/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-B **Lab ID: C121119-08** **MD No:**
Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ3 DATAC**

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	45	U	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	45	U	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	85	U	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	45	U, J, CLP25	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	45	U	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	82	J, QS-5	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	45	U	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	45	U	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	190	J, QS-5	ug/kg dry	45	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	23	U	ug/kg dry	23	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	230	U	ug/kg dry	230	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	2300	U	ug/kg dry	2300	2/24/12	3/03/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A **Lab ID: C121119-09** **MD No:**
Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ4 DATAC**

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	39		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	5.4	U, J, CLP25	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	5.4	U	ug/kg dry	5.4	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	2.8	U	ug/kg dry	2.8	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	28	U	ug/kg dry	28	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	280	U	ug/kg dry	280	2/24/12	3/03/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** C121119-10 **MD No:**
Station ID: WTFBG04 **Matrix:** Subsurface Soil **D No:** 6NJ5 DATAC

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	42		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	5.6	U	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	0.71	J, CLP01	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	5.6	U	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	5.6	U, J, CLP25	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	5.6	U	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	5.6	U	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	5.6	U	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	5.6	U	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	5.6	U	ug/kg dry	5.6	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	2.9	U	ug/kg dry	2.9	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	29	U	ug/kg dry	29	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	290	U	ug/kg dry	290	2/24/12	3/03/12	CLP SOM01.2 P

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Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-B **Lab ID: C121119-11** **MD No:**
Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ6 DATAC**

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	44		%		2/24/12	3/03/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
309-00-2	Aldrin	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
319-84-6	alpha-BHC	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
319-85-7	beta-BHC	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
319-86-8	delta-BHC	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
60-57-1	Dieldrin	5.9	U, J, CLP25	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	1.9	NJ, CLP01, CLP12	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
72-20-8	Endrin	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	5.9	U	ug/kg dry	5.9	2/24/12	3/03/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
76-44-8	Heptachlor	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	3.0	U	ug/kg dry	3.0	2/24/12	3/03/12	CLP SOM01.2 P
72-43-5	Methoxychlor	30	U	ug/kg dry	30	2/24/12	3/03/12	CLP SOM01.2 P
8001-35-2	Toxaphene	300	U	ug/kg dry	300	2/24/12	3/03/12	CLP SOM01.2 P

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Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-A **Lab ID: C121119-12** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ7 DATAC**

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	8.0		%		2/24/12	3/04/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	3.6	U	ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	5.8		ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	23		ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
309-00-2	Aldrin	1.8	U	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
319-84-6	alpha-BHC	1.8	U	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	21		ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
319-85-7	beta-BHC	1.8	U	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
319-86-8	delta-BHC	1.8	U	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
60-57-1	Dieldrin	3.6	U, J, CLP25	ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	1.8	U	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	3.6	U	ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	3.6	U	ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
72-20-8	Endrin	3.6	U	ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	3.6	U	ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	3.6	U	ug/kg dry	3.6	2/24/12	3/04/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	1.8	U	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	110	N, CLP12	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
76-44-8	Heptachlor	20	N, CLP12	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	23	N, CLP12	ug/kg dry	1.8	2/24/12	3/04/12	CLP SOM01.2 P
72-43-5	Methoxychlor	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
8001-35-2	Toxaphene	180	U	ug/kg dry	180	2/24/12	3/04/12	CLP SOM01.2 P

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Project: 12-0222, Fairfax Street Wood Treaters - Reported by Jeffrey Hendel

Organochlorine Pesticides

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-B **Lab ID: C121119-13** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ8 DATAC**

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	6.7		%		2/24/12	3/04/12	CLP Pesticides
72-54-8	4,4'-DDD (p,p'-DDD)	35	U	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
72-55-9	4,4'-DDE (p,p'-DDE)	35	U	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
50-29-3	4,4'-DDT (p,p'-DDT)	23	NJ, CLP01, CLP12, QS-5	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
309-00-2	Aldrin	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
319-84-6	alpha-BHC	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
5103-71-9	alpha-Chlordane	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
319-85-7	beta-BHC	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
319-86-8	delta-BHC	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
60-57-1	Dieldrin	35	U, J, CLP25	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
959-98-8	Endosulfan I (alpha)	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
33213-65-9	Endosulfan II (beta)	35	U	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
1031-07-8	Endosulfan Sulfate	12	NJ, CLP01, CLP12, QS-5	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
72-20-8	Endrin	35	U	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
7421-93-4	Endrin aldehyde	27	NJ, CLP01, CLP12, QS-5	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
53494-70-5	Endrin ketone	35	U	ug/kg dry	35	2/24/12	3/04/12	CLP SOM01.2 P
58-89-9	gamma-BHC (Lindane)	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
5566-34-7	gamma-Chlordane	25	NJ, CLP12, QS-5	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
76-44-8	Heptachlor	21	J, QS-5	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
1024-57-3	Heptachlor epoxide	18	U	ug/kg dry	18	2/24/12	3/04/12	CLP SOM01.2 P
72-43-5	Methoxychlor	180	U	ug/kg dry	180	2/24/12	3/04/12	CLP SOM01.2 P
8001-35-2	Toxaphene	1800	U	ug/kg dry	1800	2/24/12	3/04/12	CLP SOM01.2 P

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April 18, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0222, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
PCB Aroclors (PCBA)	
PCB aroclors	CLP Aroclors

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Report Narrative for Work Order C121119, Project: 12-0222
Site Name: Fairfax Street Wood Treaters, Jacksonville, FL
CLP Case No. 42230, ELEMENT Sample Nos. C121119-01 through C121119-14

Organic Analysis: ALS Laboratory Group, Salt Lake City, UT

The ESAT Work Team reviewed data for two water and eleven (11) soil samples analyzed for Semi-Volatile Extractable Organic Compounds, Pesticide Compounds, and PCB Aroclors per CLP Statement of Work SOM01.2. The samples were collected between 02/20/12 and 02/22/12, and were received by the laboratory on 02/23/12. The final data package was received on 03/15/12 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The analytical results were reported in one sample delivery group (SDG) by the laboratory. In addition to the field samples, the laboratory also analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Data quality factors requiring qualification of results are discussed below:

Semi-Volatile Extractable Organic Compounds

Water Matrix

There were no anomalies associated with the water semi-volatiles requiring additional qualification.

Soil Matrix

The percent recovery of the DMC 4-chloroaniline-d4 was within the quality control limits established in the method and less than 10% in samples C121119-03, 05, 07, 09, 10, and 12. The compounds associated with this DMC qualified "J" (QS-4).

Pesticide Compounds

Pesticide results were qualified "N,CLP12" whenever the percent difference between analytical column results exceeds 25% but is less than 70%. Higher percent differences with the attached "N" qualifier may be indicative of a false positive result.

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Water Matrix

There were no anomalies associated with the water pesticides requiring additional qualification.

Soil Matrix

The laboratory scored within limits for all spiked compounds in the soil PES with the exception dieldrin which was scored as warning low. All dieldrin soil sample results were qualified "J" (CLP25).

The percent recoveries of the pesticide surrogates were greater than the upper quality control limit in samples C121119-06, 08, and 13. Any positive detects in these samples were qualified "J" (QS-5).

PCB Aroclors

There were no anomalies associated with the PCB Aroclors requiring additional qualification.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
WT-FB-02	C121119-01		6NK0	Field Blank	2/22/12 13:50
WT-RB-03	C121119-02		6NJ9	Equipment Rinse Blank	2/22/12 13:30
WT-FB-G01-SB-A	C121119-03		6NH8	Subsurface Soil	2/20/12 12:20
WT-FB-G01-SB-B	C121119-04		6NH9	Subsurface Soil	2/20/12 12:25
WT-FB-G02-SB-A	C121119-05		6NJ0	Subsurface Soil	2/20/12 15:15
WT-FB-G02-SB-B	C121119-06		6NJ1	Subsurface Soil	2/20/12 15:20
WT-FB-G03-SB-A	C121119-07		6NJ2	Subsurface Soil	2/21/12 11:05
WT-FB-G03-SB-B	C121119-08		6NJ3	Subsurface Soil	2/21/12 11:10
WT-FB-G04-SB-A	C121119-09		6NJ4	Subsurface Soil	2/21/12 14:10
WT-FB-G04-SB-A-DUP	C121119-10		6NJ5	Subsurface Soil	2/21/12 14:20
WT-FB-G04-SB-B	C121119-11		6NJ6	Subsurface Soil	2/21/12 14:15
WT-FB-G05-SB-A	C121119-12		6NJ7	Subsurface Soil	2/21/12 15:50
WT-FB-G05-SB-B	C121119-13		6NJ8	Subsurface Soil	2/21/12 15:55

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DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-02 **Lab ID:** C121119-01 **MD No:**

Station ID: **Matrix:** Field Blank **D No:** 6NK0 DATAC

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-RB-03 **Lab ID:** C121119-02 **MD No:**

Station ID: **Matrix:** Equipment Rinse Blank **D No:** 6NJ9 DATAC

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
12674-11-2	PCB-1016 (Aroclor 1016)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	1.0	U	ug/L	1.0	2/23/12	2/25/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-A **Lab ID:** C121119-03 **MD No:**
Station ID: WTFBG01 **Matrix:** Subsurface Soil **D No:** 6NH8 DATAC

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	37		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	52	U	ug/kg dry	52	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G01-SB-B **Lab ID:** C121119-04 **MD No:**
Station ID: WTFBG01 **Matrix:** Subsurface Soil **D No:** 6NH9 DATAC

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	34		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	49	U	ug/kg dry	49	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-A **Lab ID: C121119-05** **MD No:**

Station ID: WTFBG02 **Matrix: Subsurface Soil** **D No: 6NJ0 DATAC**

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	44		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G02-SB-B **Lab ID:** C121119-06 **MD No:**
Station ID: WTFBG02 **Matrix:** Subsurface Soil **D No:** 6NJ1 DATAC

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	440	U	ug/kg dry	440	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-A **Lab ID:** C121119-07 **MD No:**
Station ID: WTFBG03 **Matrix:** Subsurface Soil **D No:** 6NJ2 DATAC

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	40	U	ug/kg dry	40	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G03-SB-B **Lab ID: C121119-08** **MD No:**

Station ID: WTFBG03 **Matrix: Subsurface Soil** **D No: 6NJ3 DATAC**

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	450	U	ug/kg dry	450	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A **Lab ID:** C121119-09 **MD No:**
Station ID: WTFBG04 **Matrix:** Subsurface Soil **D No:** 6NJ4 DATAC

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	39		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	54	U	ug/kg dry	54	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** C121119-10 **MD No:**
Station ID: WTFBG04 **Matrix:** Subsurface Soil **D No:** 6NJ5 DATAC

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	42		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	56	U	ug/kg dry	56	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G04-SB-B **Lab ID: C121119-11** **MD No:**

Station ID: WTFBG04 **Matrix: Subsurface Soil** **D No: 6NJ6 DATAC**

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	44		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	59	U	ug/kg dry	59	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-A **Lab ID: C121119-12** **MD No:**
Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ7 DATAC**

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	8.0		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	36	U	ug/kg dry	36	2/24/12	2/29/12	CLP SOM01.2 A

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PCB Aroclors

Project: 12-0222, Fairfax Street Wood Treaters **Contract Lab Case: 42230**

Sample ID: WT-FB-G05-SB-B **Lab ID: C121119-13** **MD No:**

Station ID: WTFBG05 **Matrix: Subsurface Soil** **D No: 6NJ8 DATAC**

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	6.7		%		2/24/12	2/29/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	350	U	ug/kg dry	350	2/24/12	2/29/12	CLP SOM01.2 A

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April 5, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0208, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section, Acting Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Physical Properties (PHYSP)	
Physical Properties	EPA 200.2
Total Metals (TMTL)	
Speciated Metals	SM 3500 Cr
Total Mercury	EPA 245.5
Total Metals	EPA 200.8
Total Metals	EPA 6010

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Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WT-BS-03	E120802-01	Trip Blank - Soil	2/20/12 15:40	2/21/12 9:29
WT-FB-G01-SB-A	E120802-02	Subsurface Soil	2/20/12 12:20	2/21/12 9:29
WT-FB-G01-SB-B	E120802-03	Subsurface Soil	2/20/12 12:25	2/21/12 9:29
WT-FB-G02-SB-A	E120802-04	Subsurface Soil	2/20/12 15:15	2/21/12 9:29
WT-FB-G02-SB-B	E120802-05	Subsurface Soil	2/20/12 15:20	2/21/12 9:29
WT-PMW-01-SB-C	E120802-06	Subsurface Soil	2/20/12 10:20	2/21/12 9:29
WT-PMW-01-SB-D	E120802-07	Subsurface Soil	2/20/12 10:35	2/21/12 9:29
WT-PMW-02-SB-C	E120802-08	Subsurface Soil	2/20/12 11:00	2/21/12 9:29
WT-PMW-02-SB-D	E120802-09	Subsurface Soil	2/20/12 11:15	2/21/12 9:29
WT-PMW-03-SB-C	E120802-10	Subsurface Soil	2/20/12 16:10	2/21/12 9:29
WT-PMW-03-SB-D	E120802-11	Subsurface Soil	2/20/12 16:20	2/21/12 9:29
WT-PMW-07-SB-C	E120802-12	Subsurface Soil	2/20/12 09:35	2/21/12 9:29
WT-PMW-07-SB-D	E120802-13	Subsurface Soil	2/20/12 09:43	2/21/12 9:29
WT-BS-04	E120805-01	Trip Blank - Soil	2/21/12 15:53	2/22/12 10:03
WT-FB-G03-SB-A	E120805-02	Subsurface Soil	2/21/12 11:05	2/22/12 10:03
WT-FB-G03-SB-B	E120805-03	Subsurface Soil	2/21/12 11:10	2/22/12 10:03
WT-FB-G04-SB-A	E120805-04	Subsurface Soil	2/21/12 14:10	2/22/12 10:03
WT-FB-G04-SB-A-DUP	E120805-05	Subsurface Soil	2/21/12 14:20	2/22/12 10:03
WT-FB-G04-SB-B	E120805-06	Subsurface Soil	2/21/12 14:15	2/22/12 10:03
WT-FB-G05-SB-A	E120805-07	Subsurface Soil	2/21/12 15:50	2/22/12 10:03
WT-FB-G05-SB-B	E120805-08	Subsurface Soil	2/21/12 15:55	2/22/12 10:03
WT-PMW-04-SB-C	E120805-09	Subsurface Soil	2/21/12 08:43	2/22/12 10:03
WT-PMW-04-SB-D	E120805-10	Subsurface Soil	2/21/12 08:52	2/22/12 10:03
WT-PMW-05-SB-C	E120805-11	Subsurface Soil	2/21/12 09:18	2/22/12 10:03
WT-PMW-05-SB-D	E120805-12	Subsurface Soil	2/21/12 09:32	2/22/12 10:03
WT-PMW-06S-SB-C	E120805-13	Subsurface Soil	2/21/12 10:10	2/22/12 10:03
WT-PMW-06S-SB-D	E120805-14	Subsurface Soil	2/21/12 10:21	2/22/12 10:03

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-03 **Lab ID:** E120802-01

Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/20/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	2/27/12 16:47	2/29/12 12:20	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-A **Lab ID:** E120802-02
Station ID: WTFBG01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	1100		mg/kg dry	10	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7440-38-2	Arsenic	0.31	J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7440-39-3	Barium	6.7		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7440-70-2	Calcium	190		mg/kg dry	25	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-47-3	Chromium	1.1		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-50-8	Copper	0.31		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7439-89-6	Iron	1400	J, QM-1	mg/kg dry	10	3/08/12 13:36	3/09/12 14:20	EPA 6010
7439-92-1	Lead	2.2		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7439-95-4	Magnesium	25	U	mg/kg dry	25	3/08/12 13:36	3/09/12 14:20	EPA 6010
7439-96-5	Manganese	1.1		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:20	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-02-0	Nickel	1.0	U	mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-09-7	Potassium	100	U	mg/kg dry	100	3/08/12 13:36	3/09/12 14:20	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-23-5	Sodium	100	U	mg/kg dry	100	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-24-6	Strontium	2.2		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:33	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-32-6	Titanium	9.3		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-62-2	Vanadium	1.5		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-65-5	Yttrium	0.45		mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:20	EPA 6010
7440-66-6	Zinc	3.8		mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:20	EPA 6010

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D.A.R.T. Id: 12-0208
Project: 12-0208, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-A
Lab ID: E120802-02
Station ID: WTFBG01
Matrix: Subsurface Soil

Date Collected: 2/20/12 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-B
Lab ID: E120802-03
Station ID: WTFBG01
Matrix: Subsurface Soil

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	4800		mg/kg dry	10	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7440-38-2	Arsenic	0.46	J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7440-39-3	Barium	33		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-41-7	Beryllium	0.33		mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7440-70-2	Calcium	7700		mg/kg dry	25	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-47-3	Chromium	3.1		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-50-8	Copper	0.64		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7439-89-6	Iron	1100		mg/kg dry	10	3/08/12 13:36	3/09/12 14:41	EPA 6010
7439-92-1	Lead	2.8		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7439-95-4	Magnesium	780		mg/kg dry	25	3/08/12 13:36	3/09/12 14:41	EPA 6010
7439-96-5	Manganese	88		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:41	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-02-0	Nickel	1.0	U	mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-09-7	Potassium	180		mg/kg dry	100	3/08/12 13:36	3/09/12 14:41	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-23-5	Sodium	100	U	mg/kg dry	100	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-24-6	Strontium	15		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:48	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-32-6	Titanium	35		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-62-2	Vanadium	6.0		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-65-5	Yttrium	2.6		mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:41	EPA 6010
7440-66-6	Zinc	2.1		mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:41	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G01-SB-B
Lab ID: E120802-03
Station ID: WTFBG01
Matrix: Subsurface Soil

Date Collected: 2/20/12 12:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-A **Lab ID:** E120802-04
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.0	U	mg/kg dry	5.0	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	470		mg/kg dry	10	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7440-39-3	Barium	4.9		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7440-70-2	Calcium	66		mg/kg dry	25	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-47-3	Chromium	0.70	U, B-2	mg/kg dry	0.70	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-50-8	Copper	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7439-89-6	Iron	890		mg/kg dry	10	3/08/12 13:36	3/09/12 14:48	EPA 6010
7439-92-1	Lead	1.5		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7439-95-4	Magnesium	25	U	mg/kg dry	25	3/08/12 13:36	3/09/12 14:48	EPA 6010
7439-96-5	Manganese	0.58		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:48	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-02-0	Nickel	1.0	U	mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-09-7	Potassium	100	U	mg/kg dry	100	3/08/12 13:36	3/09/12 14:48	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-23-5	Sodium	100	U	mg/kg dry	100	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-24-6	Strontium	1.6		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:53	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-32-6	Titanium	6.1		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-62-2	Vanadium	0.99		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:48	EPA 6010

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-A **Lab ID:** E120802-04
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-65-5	Yttrium	0.30	U	mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:48	EPA 6010
7440-66-6	Zinc	1.0	U	mg/kg dry	1.0	3/08/12 13:36	3/09/12 14:48	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-A
Lab ID: E120802-04
Station ID: WTFBG02
Matrix: Subsurface Soil

Date Collected: 2/20/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-B **Lab ID:** E120802-05
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.5	U	mg/kg dry	4.5	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	2000		mg/kg dry	9.9	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7440-38-2	Arsenic	0.27	J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7440-39-3	Barium	13		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7440-70-2	Calcium	1600		mg/kg dry	25	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-47-3	Chromium	1.8		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-50-8	Copper	0.34		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7439-89-6	Iron	560		mg/kg dry	9.9	3/08/12 13:36	3/09/12 14:55	EPA 6010
7439-92-1	Lead	1.6		mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7439-95-4	Magnesium	190		mg/kg dry	25	3/08/12 13:36	3/09/12 14:55	EPA 6010
7439-96-5	Manganese	11		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:55	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-02-0	Nickel	0.99	U	mg/kg dry	0.99	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-09-7	Potassium	99	U	mg/kg dry	99	3/08/12 13:36	3/09/12 14:55	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-24-6	Strontium	4.4		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 13:43	3/09/12 19:58	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-32-6	Titanium	14		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-62-2	Vanadium	2.8		mg/kg dry	0.50	3/08/12 13:36	3/09/12 14:55	EPA 6010

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-B **Lab ID:** E120802-05
Station ID: WTFBG02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-65-5	Yttrium	0.46		mg/kg dry	0.30	3/08/12 13:36	3/09/12 14:55	EPA 6010
7440-66-6	Zinc	2.5		mg/kg dry	0.99	3/08/12 13:36	3/09/12 14:55	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G02-SB-B
Lab ID: E120802-05
Station ID: WTFBG02
Matrix: Subsurface Soil

Date Collected: 2/20/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-01-SB-C **Lab ID:** E120802-06
Station ID: WTPMW01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:13	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:13	EPA 200.8
7440-50-8	Copper	0.62		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:13	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-01-SB-C
Lab ID: E120802-06
Station ID: WTPMW01
Matrix: Subsurface Soil

Date Collected: 2/20/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-01-SB-D
Lab ID: E120802-07
Station ID: WTPMW01
Matrix: Subsurface Soil

Date Collected: 2/20/12 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:18	EPA 200.8
7440-47-3	Chromium	3.5		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:18	EPA 200.8
7440-50-8	Copper	0.75		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:18	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-01-SB-D **Lab ID:** E120802-07
Station ID: WTPMW01 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	80		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-02-SB-C **Lab ID:** E120802-08
Station ID: WTPMW02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:23	EPA 200.8
7440-47-3	Chromium	2.9		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:23	EPA 200.8
7440-50-8	Copper	0.87		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:23	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-02-SB-C **Lab ID:** E120802-08
Station ID: WTPMW02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-02-SB-D **Lab ID:** E120802-09
Station ID: WTPMW02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:28	EPA 200.8
7440-47-3	Chromium	1.5		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:28	EPA 200.8
7440-50-8	Copper	0.32		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:28	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-02-SB-D **Lab ID:** E120802-09
Station ID: WTPMW02 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%	0.0	2/27/12 17:22	2/29/12 15:00	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-03-SB-C **Lab ID:** E120802-10
Station ID: WTPMW03 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:33	EPA 200.8
7440-47-3	Chromium	2.3		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:33	EPA 200.8
7440-50-8	Copper	0.41		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:33	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-03-SB-C **Lab ID:** E120802-10
Station ID: WTPMW03 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%	0.0	2/27/12 17:22	2/29/12 15:00	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-03-SB-D **Lab ID:** E120802-11
Station ID: WTPMW03 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.42	J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:38	EPA 200.8
7440-47-3	Chromium	2.7		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:38	EPA 200.8
7440-50-8	Copper	1.2		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:38	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-03-SB-D
Lab ID: E120802-11
Station ID: WTPMW03
Matrix: Subsurface Soil

Date Collected: 2/20/12 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%	0.0	2/27/12 17:22	2/29/12 15:00	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-07-SB-C **Lab ID:** E120802-12
Station ID: WTPMW07 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 9:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:42	EPA 200.8
7440-47-3	Chromium	2.4		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:42	EPA 200.8
7440-50-8	Copper	0.82		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:42	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-07-SB-C **Lab ID:** E120802-12
Station ID: WTPMW07 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 9:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%	0.0	2/27/12 17:22	2/29/12 15:00	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-07-SB-D **Lab ID:** E120802-13
Station ID: WTPMW07 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 9:43

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.35	J, QR-1	mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:57	EPA 200.8
7440-47-3	Chromium	3.8		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:57	EPA 200.8
7440-50-8	Copper	1.3		mg/kg dry	0.25	3/08/12 13:43	3/09/12 20:57	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-07-SB-D **Lab ID:** E120802-13
Station ID: WTPMW07 **Matrix:** Subsurface Soil

Date Collected: 2/20/12 9:43

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%	0.0	2/27/12 17:22	2/29/12 15:00	EPA 200.2

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-BS-04 **Lab ID:** E120805-01

Station ID: **Matrix:** Trip Blank - Soil

Date Collected: 2/21/12 15:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	2/27/12 16:47	2/29/12 12:20	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-A **Lab ID:** E120805-02
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	690		mg/kg dry	9.8	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:14	EPA 200.8
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:14	EPA 200.8
7440-39-3	Barium	3.8		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-41-7	Beryllium	0.29	U	mg/kg dry	0.29	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:14	EPA 200.8
7440-70-2	Calcium	94		mg/kg dry	25	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-47-3	Chromium	1.0		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-48-4	Cobalt	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-50-8	Copper	0.98	U	mg/kg dry	0.98	3/08/12 15:32	3/12/12 16:11	EPA 6010
7439-89-6	Iron	780		mg/kg dry	9.8	3/08/12 15:32	3/12/12 16:11	EPA 6010
7439-92-1	Lead	1.8		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:14	EPA 200.8
7439-95-4	Magnesium	25	U	mg/kg dry	25	3/08/12 15:32	3/12/12 16:11	EPA 6010
7439-96-5	Manganese	0.53		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7439-98-7	Molybdenum	0.98	U	mg/kg dry	0.98	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-02-0	Nickel	0.98	U	mg/kg dry	0.98	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-09-7	Potassium	98	U	mg/kg dry	98	3/08/12 15:32	3/12/12 16:11	EPA 6010
7782-49-2	Selenium	0.49	U, J, QR-1	mg/kg dry	0.49	3/08/12 15:35	3/12/12 16:14	EPA 200.8
7440-22-4	Silver	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-23-5	Sodium	98	U	mg/kg dry	98	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-24-6	Strontium	1.6		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:14	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-32-6	Titanium	4.6		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-62-2	Vanadium	0.93		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-65-5	Yttrium	0.29	U	mg/kg dry	0.29	3/08/12 15:32	3/12/12 16:11	EPA 6010
7440-66-6	Zinc	0.98	U	mg/kg dry	0.98	3/08/12 15:32	3/12/12 16:11	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-A
Lab ID: E120805-02
Station ID: WTFBG03
Matrix: Subsurface Soil

Date Collected: 2/21/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-B **Lab ID:** E120805-03
Station ID: WTFBG03 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	3800		mg/kg dry	10	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:28	EPA 200.8
7440-38-2	Arsenic	1.4		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:28	EPA 200.8
7440-39-3	Barium	21		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:28	EPA 200.8
7440-70-2	Calcium	8200		mg/kg dry	25	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-47-3	Chromium	5.7		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-50-8	Copper	2.3		mg/kg dry	1.0	3/08/12 15:32	3/12/12 16:32	EPA 6010
7439-89-6	Iron	660		mg/kg dry	10	3/08/12 15:32	3/12/12 16:32	EPA 6010
7439-92-1	Lead	3.6		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:28	EPA 200.8
7439-95-4	Magnesium	740		mg/kg dry	25	3/08/12 15:32	3/12/12 16:32	EPA 6010
7439-96-5	Manganese	92		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-02-0	Nickel	1.0	U	mg/kg dry	1.0	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-09-7	Potassium	220		mg/kg dry	100	3/08/12 15:32	3/12/12 16:32	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 15:35	3/12/12 16:28	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-23-5	Sodium	100	U	mg/kg dry	100	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-24-6	Strontium	12		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:28	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-32-6	Titanium	37		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-62-2	Vanadium	3.1		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-65-5	Yttrium	2.1		mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:32	EPA 6010
7440-66-6	Zinc	5.5		mg/kg dry	1.0	3/08/12 15:32	3/12/12 16:32	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G03-SB-B
Lab ID: E120805-03
Station ID: WTFBG03
Matrix: Subsurface Soil

Date Collected: 2/21/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A **Lab ID:** E120805-04
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.6	U	mg/kg dry	4.6	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	800		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-38-2	Arsenic	0.30		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-39-3	Barium	5.2		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-70-2	Calcium	120		mg/kg dry	25	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-47-3	Chromium	0.74		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-89-6	Iron	630		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-92-1	Lead	2.4		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7439-95-4	Magnesium	25	U	mg/kg dry	25	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-96-5	Manganese	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-02-0	Nickel	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-09-7	Potassium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-24-6	Strontium	1.9		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:33	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-32-6	Titanium	5.4		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-62-2	Vanadium	1.2		mg/kg dry	0.50	3/08/12 15:32	3/12/12 16:39	EPA 6010

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A **Lab ID:** E120805-04

Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-65-5	Yttrium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:39	EPA 6010
7440-66-6	Zinc	7.7		mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:39	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A
Lab ID: E120805-04
Station ID: WTFBG04
Matrix: Subsurface Soil

Date Collected: 2/21/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.2	U	mg/kg dry	5.2	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	1100		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-38-2	Arsenic	0.28		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-39-3	Barium	6.8		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-70-2	Calcium	230		mg/kg dry	25	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-47-3	Chromium	0.99		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-48-4	Cobalt	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-89-6	Iron	620		mg/kg dry	9.9	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-92-1	Lead	6.3		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7439-95-4	Magnesium	31		mg/kg dry	25	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-96-5	Manganese	2.3		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-02-0	Nickel	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-09-7	Potassium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7782-49-2	Selenium	0.49	U, J, QR-1	mg/kg dry	0.49	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-22-4	Silver	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-24-6	Strontium	3.8		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:48	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-32-6	Titanium	5.5		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-62-2	Vanadium	1.1		mg/kg dry	0.49	3/08/12 15:32	3/12/12 16:46	EPA 6010

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Project: 12-0208, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-65-5	Yttrium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 16:46	EPA 6010
7440-66-6	Zinc	1.1		mg/kg dry	0.99	3/08/12 15:32	3/12/12 16:46	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-A-DUP **Lab ID:** E120805-05
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-B **Lab ID:** E120805-06
Station ID: WTFBG04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.8	U	mg/kg dry	4.8	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	3400		mg/kg dry	9.9	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:53	EPA 200.8
7440-38-2	Arsenic	0.26		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:53	EPA 200.8
7440-39-3	Barium	3.8		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:53	EPA 200.8
7440-70-2	Calcium	300		mg/kg dry	25	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-47-3	Chromium	2.4		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-48-4	Cobalt	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:29	EPA 6010
7439-89-6	Iron	400		mg/kg dry	9.9	3/08/12 15:32	3/12/12 17:29	EPA 6010
7439-92-1	Lead	1.9		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:53	EPA 200.8
7439-95-4	Magnesium	49		mg/kg dry	25	3/08/12 15:32	3/12/12 17:29	EPA 6010
7439-96-5	Manganese	2.0		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-02-0	Nickel	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-09-7	Potassium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 17:29	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 15:35	3/12/12 16:53	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-24-6	Strontium	1.8		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:53	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-32-6	Titanium	6.2		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-62-2	Vanadium	2.8		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:29	EPA 6010

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-B
Lab ID: E120805-06
Station ID: WTFBG04
Matrix: Subsurface Soil

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-65-5	Yttrium	0.31		mg/kg dry	0.30	3/08/12 15:32	3/12/12 17:29	EPA 6010
7440-66-6	Zinc	6.8		mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:29	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G04-SB-B
Lab ID: E120805-06
Station ID: WTFBG04
Matrix: Subsurface Soil

Date Collected: 2/21/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-A **Lab ID:** E120805-07
Station ID: WTFBG05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	1.4		mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	1000		mg/kg dry	9.9	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:58	EPA 200.8
7440-38-2	Arsenic	0.44		mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:58	EPA 200.8
7440-39-3	Barium	110		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-43-9	Cadmium	0.22		mg/kg dry	0.12	3/08/12 15:35	3/12/12 16:58	EPA 200.8
7440-70-2	Calcium	8300		mg/kg dry	25	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-47-3	Chromium	100		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-48-4	Cobalt	2.3		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-50-8	Copper	1.1		mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:36	EPA 6010
7439-89-6	Iron	1700		mg/kg dry	9.9	3/08/12 15:32	3/12/12 17:36	EPA 6010
7439-92-1	Lead	470		mg/kg dry	9.9	3/08/12 15:35	3/12/12 17:08	EPA 200.8
7439-95-4	Magnesium	6200		mg/kg dry	25	3/08/12 15:32	3/12/12 17:36	EPA 6010
7439-96-5	Manganese	29		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-02-0	Nickel	46		mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-09-7	Potassium	150		mg/kg dry	99	3/08/12 15:32	3/12/12 17:36	EPA 6010
7782-49-2	Selenium	0.50	U, J, QR-1	mg/kg dry	0.50	3/08/12 15:35	3/12/12 16:58	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-23-5	Sodium	99	U	mg/kg dry	99	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-24-6	Strontium	43		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 16:58	EPA 200.8
7440-31-5	Tin	5.1		mg/kg dry	1.5	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-32-6	Titanium	17		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-62-2	Vanadium	2.0		mg/kg dry	0.50	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-65-5	Yttrium	0.49		mg/kg dry	0.30	3/08/12 15:32	3/12/12 17:36	EPA 6010
7440-66-6	Zinc	140		mg/kg dry	0.99	3/08/12 15:32	3/12/12 17:36	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-A
Lab ID: E120805-07
Station ID: WTFBG05
Matrix: Subsurface Soil

Date Collected: 2/21/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-B
Lab ID: E120805-08
Station ID: WTFBG05
Matrix: Subsurface Soil

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.050	U	mg/kg dry	0.050	3/07/12 15:18	3/08/12 9:25	EPA 245.5
7429-90-5	Aluminum	2500		mg/kg dry	9.8	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-36-0	Antimony	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:13	EPA 200.8
7440-38-2	Arsenic	1.2		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:13	EPA 200.8
7440-39-3	Barium	97		mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/kg dry	0.30	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-43-9	Cadmium	0.12	U	mg/kg dry	0.12	3/08/12 15:35	3/12/12 17:13	EPA 200.8
7440-70-2	Calcium	3700		mg/kg dry	25	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-47-3	Chromium	5.2		mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-48-4	Cobalt	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-50-8	Copper	1.7		mg/kg dry	0.98	3/08/12 15:32	3/12/12 17:43	EPA 6010
7439-89-6	Iron	610		mg/kg dry	9.8	3/08/12 15:32	3/12/12 17:43	EPA 6010
7439-92-1	Lead	9.7		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:13	EPA 200.8
7439-95-4	Magnesium	360		mg/kg dry	25	3/08/12 15:32	3/12/12 17:43	EPA 6010
7439-96-5	Manganese	22		mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7439-98-7	Molybdenum	0.98	U	mg/kg dry	0.98	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-02-0	Nickel	0.98	U	mg/kg dry	0.98	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-09-7	Potassium	140		mg/kg dry	98	3/08/12 15:32	3/12/12 17:43	EPA 6010
7782-49-2	Selenium	0.49	U, J, QR-1	mg/kg dry	0.49	3/08/12 15:35	3/12/12 17:13	EPA 200.8
7440-22-4	Silver	0.49	U	mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-23-5	Sodium	98	U	mg/kg dry	98	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-24-6	Strontium	13		mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-28-0	Thallium	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:13	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-32-6	Titanium	20		mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-62-2	Vanadium	3.0		mg/kg dry	0.49	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-65-5	Yttrium	0.92		mg/kg dry	0.30	3/08/12 15:32	3/12/12 17:43	EPA 6010
7440-66-6	Zinc	45		mg/kg dry	0.98	3/08/12 15:32	3/12/12 17:43	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-G05-SB-B
Lab ID: E120805-08
Station ID: WTFBG05
Matrix: Subsurface Soil

Date Collected: 2/21/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-04-SB-C **Lab ID:** E120805-09
Station ID: WTPMW04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 8:43

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:18	EPA 200.8
7440-47-3	Chromium	2.0		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:18	EPA 200.8
7440-50-8	Copper	0.45	U, B-2	mg/kg dry	0.45	3/08/12 15:35	3/12/12 17:18	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-04-SB-C **Lab ID:** E120805-09
Station ID: WTPMW04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 8:43

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-04-SB-D **Lab ID:** E120805-10
Station ID: WTPMW04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 8:52

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:23	EPA 200.8
7440-47-3	Chromium	3.0		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:23	EPA 200.8
7440-50-8	Copper	0.75		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:23	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-04-SB-D **Lab ID:** E120805-10
Station ID: WTPMW04 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 8:52

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-05-SB-C **Lab ID:** E120805-11
Station ID: WTPMW05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 9:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:37	EPA 200.8
7440-47-3	Chromium	2.6		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:37	EPA 200.8
7440-50-8	Copper	0.69	U, B-2	mg/kg dry	0.69	3/08/12 15:35	3/12/12 17:37	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-05-SB-C **Lab ID:** E120805-11
Station ID: WTPMW05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 9:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-05-SB-D **Lab ID:** E120805-12
Station ID: WTPMW05 **Matrix:** Subsurface Soil

Date Collected: 2/21/12 9:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:42	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:42	EPA 200.8
7440-50-8	Copper	0.75	U, B-2	mg/kg dry	0.75	3/08/12 15:35	3/12/12 17:42	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-05-SB-D
Lab ID: E120805-12
Station ID: WTPMW05
Matrix: Subsurface Soil

Date Collected: 2/21/12 9:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

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Sample ID: WT-PMW-06S-SB-C **Lab ID:** E120805-13
Station ID: WTPMW06S **Matrix:** Subsurface Soil

Date Collected: 2/21/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U	mg/kg dry	5.5	2/24/12 18:06	2/25/12 17:04	SM 3500 Cr
7440-38-2	Arsenic	0.92		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:57	EPA 200.8
7440-47-3	Chromium	2.8		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:57	EPA 200.8
7440-50-8	Copper	1.6		mg/kg dry	0.25	3/08/12 15:35	3/12/12 17:57	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06S-SB-C
Lab ID: E120805-13
Station ID: WTPMW06S
Matrix: Subsurface Soil

Date Collected: 2/21/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06S-SB-D **Lab ID:** E120805-14
Station ID: WTPMW06S **Matrix:** Subsurface Soil

Date Collected: 2/21/12 10:21

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.50		mg/kg dry	0.25	3/08/12 15:35	3/12/12 18:02	EPA 200.8
7440-47-3	Chromium	1.0	J, QR-2	mg/kg dry	0.25	3/08/12 15:35	3/12/12 18:02	EPA 200.8
7440-50-8	Copper	0.60	U, B-2	mg/kg dry	0.60	3/08/12 15:35	3/12/12 18:02	EPA 200.8

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06S-SB-D
Lab ID: E120805-14
Station ID: WTPMW06S
Matrix: Subsurface Soil

Date Collected: 2/21/12 10:21

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	80		%	0.0	2/27/12 16:47	2/29/12 11:44	EPA 200.2

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202146 - M Hex Chrome in Solids 3060										
Blank (1202146-BLK1)				Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1202146-BLK2)				Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	U	4.4	mg/kg wet							U
LCS (1202146-BS1)				Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	47.553	5.0	mg/kg wet	50.000		95.1	80-120			
LCS (1202146-BS2)				Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	158480	28000	mg/kg wet	160900		98.5	80-120			
Duplicate (1202146-DUP1)	**Source: E120807-01**			Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	0.69064	4.8	mg/kg dry		U				20	U
Matrix Spike (1202146-MS1)	**Source: E120807-01**			Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	4.7864	5.2	mg/kg dry	104.42	U	4.58	75-125			QM-1, U
Matrix Spike (1202146-MS2)	**Source: E120807-01**			Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	1072.4	100	mg/kg dry	3132.8	U	34.2	75-125			QM-1
Matrix Spike (1202146-MS3)	**Source: E120807-01**			Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	92.386	4.9	mg/kg dry	98.361	U	93.9	75-125			
Matrix Spike Dup (1202146-MSD1)	**Source: E120807-01**			Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	11.536	5.2	mg/kg dry	104.66	U	11.0	75-125	82.5	20	QM-1
MRL Verification (1202146-PS1)				Prepared: 02/24/12 Analyzed: 02/25/12						

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202146 - M Hex Chrome in Solids 3060										
MRL Verification (1202146-PS1)				Prepared: 02/24/12 Analyzed: 02/25/12						
SM 3500 Cr										
Chromium, Hexavalent	5.1950	5.0	mg/kg wet	5.0000		104	60-140			MRL-3
Batch 1203003 - M 245.5 Hg Soil-Waste										
Blank (1203003-BLK1)				Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	U	0.050	mg/kg dry							U
LCS (1203003-BS1)				Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	1.4199	0.050	mg/kg dry	1.4000		101	85-115			
LCS Dup (1203003-BSD1)				Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	1.3834	0.050	mg/kg dry	1.4000		98.8	85-115	2.61	20	
Matrix Spike (1203003-MS1)		**Source: E120802-02**		Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	0.43051	0.050	mg/kg dry	0.42373	U	102	85-115			
Matrix Spike (1203003-MS2)		**Source: E120805-08**		Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	0.39264	0.050	mg/kg dry	0.38760	0.0097518	98.8	85-115			
Matrix Spike Dup (1203003-MSD1)		**Source: E120802-02**		Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	0.44951	0.050	mg/kg dry	0.44683	U	101	85-115	0.989	20	
Matrix Spike Dup (1203003-MSD2)		**Source: E120805-08**		Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	0.41871	0.050	mg/kg dry	0.40850	0.0097518	100	85-115	1.34	20	
MRL Verification (1203003-PS1)				Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 245.5										
Mercury	0.000092000	0.050	mg/kg dry	0.00010000		92.0	65-135			MRL-3, U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203003 - M 245.5 Hg Soil-Waste										
Batch 1203040 - M 200.2 Metals Soil										
Blank (1203040-BLK1)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U
Manganese	U	0.50	"							U
Calcium	U	25	"							U
Magnesium	U	25	"							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U
Blank (1203040-BLK2)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U
Manganese	U	0.50	"							U
Calcium	U	25	"							U

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203040 - M 200.2 Metals Soil										
Blank (1203040-BLK2)				Prepared: 03/08/12 Analyzed: 03/09/12						
Magnesium	U	25	mg/kg dry							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U
LCS (1203040-BS1)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 6010										
Silver	9.8462	0.50	mg/kg dry	10.000		98.5	85-115			
Barium	49.041	0.50	"	50.000		98.1	85-115			
Beryllium	20.008	0.30	"	20.000		100	85-115			
Cobalt	49.792	0.50	"	50.000		99.6	85-115			
Molybdenum	29.585	1.0	"	30.000		98.6	85-115			
Nickel	77.989	1.0	"	80.000		97.5	85-115			
Tin	100.10	1.5	"	100.00		100	85-115			
Strontium	39.007	0.50	"	40.000		97.5	85-115			
Titanium	50.175	0.50	"	50.000		100	85-115			
Vanadium	38.924	0.50	"	40.000		97.3	85-115			
Yttrium	29.430	0.30	"	30.000		98.1	85-115			
Zinc	101.06	1.0	"	100.00		101	85-115			
Aluminum	525.27	10	"	500.00		105	85-115			
Manganese	519.17	0.50	"	500.00		104	85-115			
Calcium	522.25	25	"	500.00		104	85-115			
Magnesium	546.19	25	"	500.00		109	85-115			
Iron	541.53	10	"	500.00		108	85-115			
Sodium	1058.0	100	"	1000.0		106	85-115			
Potassium	975.92	100	"	1000.0		97.6	85-115			
Matrix Spike (1203040-MS1)		**Source: E120802-02**		Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 6010										
Silver	10.108	0.49	mg/kg dry	9.8639	U	102	75-125			
Barium	56.915	0.49	"	49.319	6.7112	102	75-125			
Beryllium	20.149	0.30	"	19.728	0.035397	102	75-125			
Cobalt	50.772	0.49	"	49.319	U	103	75-125			
Molybdenum	28.390	0.99	"	29.592	U	95.9	75-125			
Nickel	79.837	0.99	"	78.911	0.19022	101	75-125			
Tin	99.730	1.5	"	98.639	U	101	75-125			
Strontium	41.473	0.49	"	39.456	2.1783	99.6	75-125			
Titanium	55.132	0.49	"	49.319	9.3239	92.9	75-125			
Vanadium	41.023	0.49	"	39.456	1.5170	100	75-125			

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Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203040 - M 200.2 Metals Soil										
Matrix Spike (1203040-MS1)	**Source: E120802-02**			Prepared: 03/08/12 Analyzed: 03/09/12						
Yttrium	29.670	0.30	mg/kg dry	29.592	0.44962	98.7	75-125			
Zinc	106.63	0.99	"	98.639	3.8106	104	75-125			
Aluminum	1529.7	9.9	"	493.19	1081.0	91.0	75-125			
Manganese	524.85	0.49	"	493.19	1.1477	106	75-125			
Calcium	794.48	25	"	493.19	190.94	122	75-125			
Magnesium	560.24	25	"	493.19	21.708	109	75-125			
Iron	1550.3	9.9	"	493.19	1391.1	32.3	75-125			QM-1
Sodium	1057.8	99	"	986.39	U	107	75-125			
Potassium	1064.6	99	"	986.39	44.914	103	75-125			
Matrix Spike Dup (1203040-MSD1)	**Source: E120802-02**			Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 6010										
Silver	10.183	0.50	mg/kg dry	9.9265	U	103	75-125	0.745	20	
Barium	57.161	0.50	"	49.633	6.7112	102	75-125	0.430	20	
Beryllium	20.666	0.30	"	19.853	0.035397	104	75-125	2.54	20	
Cobalt	51.763	0.50	"	49.633	U	104	75-125	1.93	20	
Molybdenum	28.675	0.99	"	29.780	U	96.3	75-125	0.998	20	
Nickel	80.779	0.99	"	79.412	0.19022	101	75-125	1.17	20	
Tin	100.91	1.5	"	99.265	U	102	75-125	1.18	20	
Strontium	41.693	0.50	"	39.706	2.1783	99.5	75-125	0.528	20	
Titanium	55.808	0.50	"	49.633	9.3239	93.7	75-125	1.22	20	
Vanadium	41.327	0.50	"	39.706	1.5170	100	75-125	0.738	20	
Yttrium	30.560	0.30	"	29.780	0.44962	101	75-125	2.96	20	
Zinc	107.69	0.99	"	99.265	3.8106	105	75-125	0.986	20	
Aluminum	1523.9	9.9	"	496.33	1081.0	89.3	75-125	0.379	20	
Manganese	528.46	0.50	"	496.33	1.1477	106	75-125	0.686	20	
Calcium	727.73	25	"	496.33	190.94	108	75-125	8.77	20	
Magnesium	568.19	25	"	496.33	21.708	110	75-125	1.41	20	
Iron	1610.3	9.9	"	496.33	1391.1	44.2	75-125	3.80	20	QM-1
Sodium	1064.9	99	"	992.65	U	107	75-125	0.673	20	
Potassium	1064.1	99	"	992.65	44.914	103	75-125	0.0475	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203040 - M 200.2 Metals Soil										
MRL Verification (1203040-PS1)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 6010										
Silver	0.51376	0.50	mg/kg dry	0.50000		103	70-130			MRL-3
Barium	0.51158	0.50	"	0.50000		102	70-130			MRL-3
Beryllium	0.29486	0.30	"	0.30000		98.3	70-130			MRL-3, U
Cobalt	0.51976	0.50	"	0.50000		104	70-130			MRL-3
Molybdenum	0.99460	1.0	"	1.0000		99.5	70-130			MRL-3, U
Nickel	1.0918	1.0	"	1.0000		109	70-130			MRL-3
Tin	1.3038	1.5	"	1.5000		86.9	70-130			MRL-3, U
Strontium	0.48310	0.50	"	0.50000		96.6	70-130			MRL-3, U
Titanium	0.50080	0.50	"	0.50000		100	70-130			MRL-3
Vanadium	0.45556	0.50	"	0.50000		91.1	70-130			MRL-3, U
Yttrium	0.30507	0.30	"	0.30000		102	70-130			MRL-3
Zinc	1.0944	1.0	"	1.0000		109	70-130			MRL-3
Aluminum	10.144	10	"	10.000		101	70-130			MRL-3
Manganese	0.50326	0.50	"	0.50000		101	70-130			MRL-3
Calcium	25.848	25	"	25.000		103	70-130			MRL-3
Magnesium	24.650	25	"	25.000		98.6	70-130			MRL-3, U
Iron	10.733	10	"	10.000		107	70-130			MRL-3
Sodium	105.64	100	"	100.00		106	70-130			MRL-3
Potassium	100.03	100	"	100.00		100	70-130			MRL-3
Batch 1203041 - M 200.2 Metals Soil										
Blank (1203041-BLK1)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							U
Chromium	U	0.10	"							B-4, U
Copper	U	0.10	"							U
Copper	U	0.10	"							U
Arsenic	U	0.10	"							U
Arsenic	U	0.10	"							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U
Thallium	U	0.10	"							U
Lead	U	0.10	"							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203041 - M 200.2 Metals Soil										
Blank (1203041-BLK1)				Prepared: 03/08/12 Analyzed: 03/09/12						
Blank (1203041-BLK2)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							U
Chromium	U	0.10	"							U
Copper	U	0.10	"							U
Copper	U	0.10	"							U
Arsenic	U	0.10	"							U
Arsenic	U	0.10	"							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U
Thallium	U	0.10	"							U
Lead	U	0.10	"							U
LCS (1203041-BS1)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	53.532	5.0	mg/kg dry	50.000		107	85-115			
Chromium	53.532	5.0	"	50.000		107	85-115			
Copper	32.191	5.0	"	30.000		107	85-115			
Copper	32.191	5.0	"	30.000		107	85-115			
Arsenic	53.348	5.0	"	50.000		107	85-115			
Arsenic	53.348	5.0	"	50.000		107	85-115			
Selenium	107.65	10	"	100.00		108	85-115			
Cadmium	19.990	2.5	"	20.000		99.9	85-115			
Antimony	98.545	5.0	"	100.00		98.5	85-115			
Thallium	19.963	5.0	"	20.000		99.8	85-115			
Lead	98.551	5.0	"	100.00		98.6	85-115			
Matrix Spike (1203041-MS1)	**Source: E120802-02**			Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	52.796	4.9	mg/kg dry	49.319	1.1258	105	70-130			
Chromium	52.796	4.9	"	49.319	1.1258	105	70-130			
Copper	31.703	4.9	"	29.592	0.30757	106	70-130			
Copper	31.703	4.9	"	29.592	0.30757	106	70-130			
Arsenic	50.632	4.9	"	49.319	0.30664	102	70-130			
Arsenic	50.632	4.9	"	49.319	0.30664	102	70-130			
Selenium	98.247	9.9	"	98.639	U	99.6	70-130			
Cadmium	20.002	2.5	"	19.728	0.020482	101	70-130			

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203041 - M 200.2 Metals Soil										
Matrix Spike (1203041-MS1)	**Source: E120802-02**			Prepared: 03/08/12 Analyzed: 03/09/12						
Antimony	87.741	4.9	mg/kg dry	98.639	U	89.0	70-130			
Thallium	19.740	4.9	"	19.728	U	100	70-130			
Lead	98.205	4.9	"	98.639	2.1842	97.3	70-130			
Matrix Spike (1203041-MS2)	**Source: E120802-12**			Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	54.974	5.0	mg/kg dry	49.841	2.4185	105	70-130			
Chromium	54.974	5.0	"	49.841	2.4185	105	70-130			
Copper	33.206	5.0	"	29.904	0.82102	108	70-130			
Copper	33.206	5.0	"	29.904	0.82102	108	70-130			
Arsenic	50.461	5.0	"	49.841	U	101	70-130			
Arsenic	50.461	5.0	"	49.841	U	101	70-130			
Selenium	99.902	10	"	99.681	0.12212	100	70-130			
Cadmium	20.687	2.5	"	19.936	0.035964	104	70-130			
Antimony	52.112	5.0	"	99.681	U	52.3	70-130			QM-1
Thallium	20.256	5.0	"	19.936	U	102	70-130			
Lead	103.91	5.0	"	99.681	3.5173	101	70-130			
Matrix Spike Dup (1203041-MSD1)	**Source: E120802-02**			Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	51.903	5.0	mg/kg dry	49.633	1.1258	102	70-130	1.71	20	
Chromium	51.903	5.0	"	49.633	1.1258	102	70-130	1.71	20	
Copper	31.641	5.0	"	29.780	0.30757	105	70-130	0.198	20	
Copper	31.641	5.0	"	29.780	0.30757	105	70-130	0.198	20	
Arsenic	50.314	5.0	"	49.633	0.30664	101	70-130	0.631	20	
Arsenic	50.314	5.0	"	49.633	0.30664	101	70-130	0.631	20	
Selenium	98.580	9.9	"	99.265	U	99.3	70-130	0.338	20	
Cadmium	20.154	2.5	"	19.853	0.020482	101	70-130	0.754	20	
Antimony	86.711	5.0	"	99.265	U	87.4	70-130	1.18	20	
Thallium	19.214	5.0	"	19.853	U	96.8	70-130	2.70	20	
Lead	98.507	5.0	"	99.265	2.1842	97.0	70-130	0.307	20	

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203041 - M 200.2 Metals Soil										
Matrix Spike Dup (1203041-MSD2)	**Source: E120802-12**			Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	54.632	5.0	mg/kg dry	49.672	2.4185	105	70-130	0.625	20	
Chromium	54.632	5.0	"	49.672	2.4185	105	70-130	0.625	20	
Copper	32.582	5.0	"	29.803	0.82102	107	70-130	1.90	20	
Copper	32.582	5.0	"	29.803	0.82102	107	70-130	1.90	20	
Arsenic	50.803	5.0	"	49.672	U	102	70-130	0.677	20	
Arsenic	50.803	5.0	"	49.672	U	102	70-130	0.677	20	
Selenium	100.91	9.9	"	99.344	0.12212	101	70-130	1.00	20	
Cadmium	20.520	2.5	"	19.869	0.035964	103	70-130	0.811	20	
Antimony	51.890	5.0	"	99.344	U	52.2	70-130	0.427	20	QM-1
Thallium	19.805	5.0	"	19.869	U	99.7	70-130	2.25	20	
Lead	102.07	5.0	"	99.344	3.5173	99.2	70-130	1.78	20	
MRL Verification (1203041-PS1)				Prepared: 03/08/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	0.12157	0.10	mg/kg dry	0.10000		122	65-135			MRL-3
Chromium	0.12157	0.10	"	0.10000		122	65-135			MRL-3
Copper	0.10244	0.10	"	0.10000		102	65-135			MRL-3
Copper	0.10244	0.10	"	0.10000		102	65-135			MRL-3
Arsenic	0.061274	0.10	"	0.10000		61.3	65-135			MRL-3, QR-1, U
Arsenic	0.061274	0.10	"	0.10000		61.3	65-135			MRL-3, QR-1, U
Selenium	0.082462	0.20	"	0.20000		41.2	65-135			MRL-3, QR-1, U
Cadmium	0.052264	0.050	"	0.050000		105	65-135			MRL-3
Antimony	0.050463	0.10	"	0.050000		101	65-135			MRL-3, U
Thallium	0.047136	0.10	"	0.050000		94.3	65-135			MRL-3, U
Lead	0.097716	0.10	"	0.10000		97.7	65-135			MRL-3, U
Batch 1203042 - M 200.2 Metals Soil										
Blank (1203042-BLK1)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Chromium	U	0.50	"							U

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Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203042 - M 200.2 Metals Soil										
Blank (1203042-BLK1)				Prepared: 03/08/12 Analyzed: 03/12/12						
Copper	U	1.0	mg/kg dry							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U
Manganese	U	0.50	"							U
Calcium	U	25	"							U
Magnesium	U	25	"							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U
Blank (1203042-BLK2)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U
Manganese	U	0.50	"							U
Calcium	U	25	"							U
Magnesium	U	25	"							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203042 - M 200.2 Metals Soil										
Blank (1203042-BLK2)				Prepared: 03/08/12 Analyzed: 03/12/12						
LCS (1203042-BS1)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 6010										
Silver	10.188	0.50	mg/kg dry	10.000		102	85-115			
Barium	49.259	0.50	"	50.000		98.5	85-115			
Beryllium	20.766	0.30	"	20.000		104	85-115			
Cobalt	51.039	0.50	"	50.000		102	85-115			
Chromium	48.904	0.50	"	50.000		97.8	85-115			
Copper	30.341	1.0	"	30.000		101	85-115			
Molybdenum	29.833	1.0	"	30.000		99.4	85-115			
Nickel	80.253	1.0	"	80.000		100	85-115			
Tin	103.37	1.5	"	100.00		103	85-115			
Strontium	39.404	0.50	"	40.000		98.5	85-115			
Titanium	50.722	0.50	"	50.000		101	85-115			
Vanadium	39.728	0.50	"	40.000		99.3	85-115			
Yttrium	30.214	0.30	"	30.000		101	85-115			
Zinc	102.85	1.0	"	100.00		103	85-115			
Aluminum	522.03	10	"	500.00		104	85-115			
Manganese	519.13	0.50	"	500.00		104	85-115			
Calcium	522.41	25	"	500.00		104	85-115			
Magnesium	544.52	25	"	500.00		109	85-115			
Iron	528.56	10	"	500.00		106	85-115			
Sodium	998.18	100	"	1000.0		99.8	85-115			
Potassium	1019.7	100	"	1000.0		102	85-115			
Matrix Spike (1203042-MS1)	**Source: E120805-02**			Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 6010										
Silver	10.365	0.49	mg/kg dry	9.8775	U	105	75-125			
Barium	53.352	0.49	"	49.388	3.7787	100	75-125			
Beryllium	21.040	0.30	"	19.755	U	107	75-125			
Cobalt	53.306	0.49	"	49.388	U	108	75-125			
Chromium	51.721	0.49	"	49.388	1.0484	103	75-125			
Copper	31.167	0.99	"	29.633	0.34102	104	75-125			
Molybdenum	28.334	0.99	"	29.633	U	95.6	75-125			
Nickel	82.888	0.99	"	79.020	U	105	75-125			
Tin	102.88	1.5	"	98.775	U	104	75-125			
Strontium	41.535	0.49	"	39.510	1.5922	101	75-125			
Titanium	52.579	0.49	"	49.388	4.6423	97.1	75-125			
Vanadium	41.721	0.49	"	39.510	0.93334	103	75-125			

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203042 - M 200.2 Metals Soil										
Matrix Spike (1203042-MS1)	**Source: E120805-02**			Prepared: 03/08/12 Analyzed: 03/12/12						
Yttrium	30.673	0.30	mg/kg dry	29.633	0.27233	103	75-125			
Zinc	107.01	0.99	"	98.775	0.43909	108	75-125			
Aluminum	1207.3	9.9	"	493.88	692.14	104	75-125			
Manganese	527.46	0.49	"	493.88	0.53189	107	75-125			
Calcium	647.99	25	"	493.88	94.496	112	75-125			
Magnesium	583.46	25	"	493.88	18.808	114	75-125			
Iron	1196.3	9.9	"	493.88	776.09	85.1	75-125			
Sodium	1015.0	99	"	987.75	U	103	75-125			
Potassium	1064.0	99	"	987.75	44.624	103	75-125			
Matrix Spike Dup (1203042-MSD1)	**Source: E120805-02**			Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 6010										
Silver	10.029	0.49	mg/kg dry	9.8251	U	102	75-125	3.30	20	
Barium	53.197	0.49	"	49.126	3.7787	101	75-125	0.291	20	
Beryllium	20.675	0.29	"	19.650	U	105	75-125	1.75	20	
Cobalt	51.085	0.49	"	49.126	U	104	75-125	4.26	20	
Chromium	49.690	0.49	"	49.126	1.0484	99.0	75-125	4.01	20	
Copper	30.668	0.98	"	29.475	0.34102	103	75-125	1.61	20	
Molybdenum	27.145	0.98	"	29.475	U	92.1	75-125	4.29	20	
Nickel	80.395	0.98	"	78.601	U	102	75-125	3.05	20	
Tin	99.256	1.5	"	98.251	U	101	75-125	3.59	20	
Strontium	41.079	0.49	"	39.300	1.5922	100	75-125	1.10	20	
Titanium	51.388	0.49	"	49.126	4.6423	95.2	75-125	2.29	20	
Vanadium	40.411	0.49	"	39.300	0.93334	100	75-125	3.19	20	
Yttrium	30.353	0.29	"	29.475	0.27233	102	75-125	1.05	20	
Zinc	103.63	0.98	"	98.251	0.43909	105	75-125	3.20	20	
Aluminum	1200.1	9.8	"	491.26	692.14	103	75-125	0.604	20	
Manganese	523.91	0.49	"	491.26	0.53189	107	75-125	0.674	20	
Calcium	620.14	25	"	491.26	94.496	107	75-125	4.39	20	
Magnesium	573.02	25	"	491.26	18.808	113	75-125	1.81	20	
Iron	1316.9	9.8	"	491.26	776.09	110	75-125	9.60	20	
Sodium	1007.9	98	"	982.51	U	103	75-125	0.705	20	
Potassium	1027.8	98	"	982.51	44.624	100	75-125	3.47	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203042 - M 200.2 Metals Soil										
MRL Verification (1203042-PS1)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 6010										
Silver	0.60004	0.50	mg/kg dry	0.50000		120	70-130			MRL-3
Barium	0.45570	0.50	"	0.50000		91.1	70-130			MRL-3, U
Beryllium	0.31389	0.30	"	0.30000		105	70-130			MRL-3
Cobalt	0.56276	0.50	"	0.50000		113	70-130			MRL-3
Chromium	0.46993	0.50	"	0.50000		94.0	70-130			MRL-3, U
Copper	1.0146	1.0	"	1.0000		101	70-130			MRL-3
Molybdenum	1.0566	1.0	"	1.0000		106	70-130			MRL-3
Nickel	1.1085	1.0	"	1.0000		111	70-130			MRL-3
Tin	1.6431	1.5	"	1.5000		110	70-130			MRL-3
Strontium	0.48069	0.50	"	0.50000		96.1	70-130			MRL-3, U
Titanium	0.48610	0.50	"	0.50000		97.2	70-130			MRL-3, U
Vanadium	0.54528	0.50	"	0.50000		109	70-130			MRL-3
Yttrium	0.30162	0.30	"	0.30000		101	70-130			MRL-3
Zinc	1.1087	1.0	"	1.0000		111	70-130			MRL-3
Aluminum	11.951	10	"	10.000		120	70-130			MRL-3
Manganese	0.50265	0.50	"	0.50000		101	70-130			MRL-3
Calcium	25.766	25	"	25.000		103	70-130			MRL-3
Magnesium	26.688	25	"	25.000		107	70-130			MRL-3
Iron	10.898	10	"	10.000		109	70-130			MRL-3
Sodium	99.955	100	"	100.00		100	70-130			MRL-3, U
Potassium	99.828	100	"	100.00		99.8	70-130			MRL-3, U
Batch 1203044 - M 200.2 Metals Soil										
Blank (1203044-BLK1)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							U
Chromium	U	0.10	"							U
Copper	U	0.10	"							U
Copper	U	0.10	"							U
Arsenic	U	0.10	"							U
Arsenic	U	0.10	"							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203044 - M 200.2 Metals Soil										
Blank (1203044-BLK1)				Prepared: 03/08/12 Analyzed: 03/12/12						
Thallium	U	0.10	mg/kg dry							U
Lead	U	0.10	"							U
Blank (1203044-BLK2)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							U
Chromium	U	0.10	"							U
Copper	0.14912	0.10	"							B-4
Copper	0.14912	0.10	"							B-4
Arsenic	U	0.10	"							U
Arsenic	U	0.10	"							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U
Thallium	U	0.10	"							U
Lead	U	0.10	"							U
Blank (1203044-BLK3)				Prepared: 03/08/12 Analyzed: 03/14/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
LCS (1203044-BS1)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	51.267	5.0	mg/kg dry	50.000		103	85-115			
Copper	31.667	5.0	"	30.000		106	85-115			
Arsenic	52.209	5.0	"	50.000		104	85-115			
Arsenic	52.209	5.0	"	50.000		104	85-115			
Selenium	105.70	10	"	100.00		106	85-115			
Cadmium	20.347	2.5	"	20.000		102	85-115			
Antimony	102.16	5.0	"	100.00		102	85-115			
Thallium	19.566	5.0	"	20.000		97.8	85-115			
Lead	95.984	5.0	"	100.00		96.0	85-115			

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203044 - M 200.2 Metals Soil										
Matrix Spike (1203044-MS1)	**Source: E120805-02**			Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	54.771	4.9	mg/kg dry	49.388	0.92925	109	70-130			
Copper	32.026	4.9	"	29.633	0.19226	107	70-130			
Arsenic	51.236	4.9	"	49.388	U	104	70-130			
Arsenic	51.236	4.9	"	49.388	U	104	70-130			
Selenium	101.43	9.9	"	98.775	U	103	70-130			
Cadmium	20.071	2.5	"	19.755	U	102	70-130			
Antimony	90.290	4.9	"	98.775	U	91.4	70-130			
Thallium	19.503	4.9	"	19.755	U	98.7	70-130			
Lead	98.806	4.9	"	98.775	1.7736	98.2	70-130			
Matrix Spike (1203044-MS2)	**Source: E120805-12**			Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	54.417	4.9	mg/kg dry	49.339	2.2151	106	70-130			
Copper	31.319	4.9	"	29.603	0.70217	103	70-130			
Arsenic	50.468	4.9	"	49.339	U	102	70-130			
Arsenic	50.468	4.9	"	49.339	U	102	70-130			
Selenium	103.83	9.9	"	98.678	U	105	70-130			
Cadmium	20.766	2.5	"	19.736	U	105	70-130			
Antimony	62.410	4.9	"	98.678	U	63.2	70-130			QM-1
Thallium	19.610	4.9	"	19.736	U	99.4	70-130			
Lead	98.286	4.9	"	98.678	1.7542	97.8	70-130			
Matrix Spike Dup (1203044-MSD1)	**Source: E120805-02**			Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	52.032	4.9	mg/kg dry	49.126	0.92925	104	70-130	5.13	20	
Chromium	52.032	4.9	"	49.126	0.92925	104	70-130	5.13	20	
Copper	31.464	4.9	"	29.475	0.19226	106	70-130	1.77	20	
Copper	31.464	4.9	"	29.475	0.19226	106	70-130	1.77	20	
Arsenic	49.216	4.9	"	49.126	U	100	70-130	4.02	20	
Arsenic	49.216	4.9	"	49.126	U	100	70-130	4.02	20	
Selenium	97.303	9.8	"	98.251	U	99.0	70-130	4.15	20	
Cadmium	19.984	2.5	"	19.650	U	102	70-130	0.433	20	
Antimony	88.187	4.9	"	98.251	U	89.8	70-130	2.36	20	
Thallium	19.307	4.9	"	19.650	U	98.3	70-130	1.01	20	
Lead	98.134	4.9	"	98.251	1.7736	98.1	70-130	0.682	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203044 - M 200.2 Metals Soil										
Matrix Spike Dup (1203044-MSD2)	**Source: E120805-12**			Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	54.922	5.0	mg/kg dry	49.712	2.2151	106	70-130	0.924	20	
Chromium	54.922	5.0	"	49.712	2.2151	106	70-130	0.924	20	
Copper	31.994	5.0	"	29.827	0.70217	105	70-130	2.13	20	
Copper	31.994	5.0	"	29.827	0.70217	105	70-130	2.13	20	
Arsenic	51.892	5.0	"	49.712	U	104	70-130	2.78	20	
Arsenic	51.892	5.0	"	49.712	U	104	70-130	2.78	20	
Selenium	106.95	9.9	"	99.423	U	108	70-130	2.97	20	
Cadmium	20.361	2.5	"	19.885	U	102	70-130	1.97	20	
Antimony	63.440	5.0	"	99.423	U	63.8	70-130	1.64	20	QM-1
Thallium	19.704	5.0	"	19.885	U	99.1	70-130	0.479	20	
Lead	98.294	5.0	"	99.423	1.7542	97.1	70-130	0.00793	20	
MRL Verification (1203044-PS1)				Prepared: 03/08/12 Analyzed: 03/12/12						
EPA 200.8										
Chromium	0.14615	0.10	mg/kg dry	0.10000		146	65-135			MRL-3, QR-2
Chromium	0.14615	0.10	"	0.10000		146	65-135			MRL-3, QR-2
Copper	0.10637	0.10	"	0.10000		106	65-135			MRL-3
Copper	0.10637	0.10	"	0.10000		106	65-135			MRL-3
Arsenic	0.096901	0.10	"	0.10000		96.9	65-135			MRL-3, U
Arsenic	0.096901	0.10	"	0.10000		96.9	65-135			MRL-3, U
Selenium	0.10644	0.20	"	0.20000		53.2	65-135			MRL-3, QR-1, U
Cadmium	0.050212	0.050	"	0.050000		100	65-135			MRL-3
Antimony	0.052780	0.10	"	0.050000		106	65-135			MRL-3, U
Thallium	0.047152	0.10	"	0.050000		94.3	65-135			MRL-3, U
Lead	0.098598	0.10	"	0.10000		98.6	65-135			MRL-3, U

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Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202151 - M % Solids										
Duplicate (1202151-DUP1)	**Source: E120805-02**			Prepared: 02/27/12 Analyzed: 02/29/12						
EPA 200.2										
% Solids	94.510	0.0	%		93.960			0.584	10	
Batch 1202152 - M % Solids										
Duplicate (1202152-DUP1)	**Source: E120802-13**			Prepared: 02/27/12 Analyzed: 02/29/12						
EPA 200.2										
% Solids	76.951	0.0	%		76.500			0.588	10	

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-4	Level in blank impacts MRLs.
MRL-3	MRL verification for Soil matrix
QM-1	Matrix Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper control limits.

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April 10, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0208, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section, Acting Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Dissolved Metals (DMTL)	
Dissolved Metals	EPA 218.6
Physical Properties (PHYSP)	
Physical Properties	EPA 200.2
Total Metals (TMTL)	
Speciated Metals	SM 3500 Cr
Total Metals	EPA 200.8
Total Metals	EPA 6010

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Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WT-FB-02	E120809-01	Field Blank	2/22/12 13:50	2/24/12 9:49
WT-RB-03	E120809-02	Equipment Rinse Blank	2/22/12 13:30	2/24/12 9:49
WT-DN-01-SD	E120809-03	Sediment	2/22/12 15:15	2/24/12 9:49
WT-DN-02-SD	E120809-04	Sediment	2/22/12 16:20	2/24/12 9:49
WT-DN-03-SD	E120809-05	Sediment	2/22/12 15:25	2/24/12 9:49
WT-DN-04-SD	E120809-06	Sediment	2/22/12 15:35	2/24/12 9:49
WT-DN-05-SD	E120809-07	Sediment	2/22/12 15:40	2/24/12 9:49
WT-DN-06-SD	E120809-08	Sediment	2/22/12 16:10	2/24/12 9:49
WT-DN-07-SD	E120809-09	Sediment	2/22/12 15:45	2/24/12 9:49
WT-DN-08-SD	E120809-10	Sediment	2/22/12 15:50	2/24/12 9:49
WT-DN-09-SD	E120809-11	Sediment	2/22/12 15:55	2/24/12 9:49
WT-DN-10-SD	E120809-12	Sediment	2/22/12 15:58	2/24/12 9:49
WT-DN-11-SD	E120809-13	Sediment	2/22/12 09:05	2/24/12 9:49
WT-DN-12-SD	E120809-14	Sediment	2/22/12 16:05	2/24/12 9:49
WT-DP-01-SW	E120809-15	Surface Water	2/23/12 10:25	2/24/12 9:49
WT-DP-01-SW-F	E120809-16	Surface Water	2/23/12 11:00	2/24/12 9:49
WT-DP-02-SW	E120809-17	Surface Water	2/23/12 09:45	2/24/12 9:49
WT-DP-02-SW-F	E120809-18	Surface Water	2/23/12 10:55	2/24/12 9:49
WT-DP-03-SD	E120809-19	Sediment	2/23/12 08:30	2/24/12 9:49
WT-DP-03-SW	E120809-20	Surface Water	2/23/12 08:30	2/24/12 9:49
WT-DP-03-SW-F	E120809-21	Surface Water	2/23/12 09:05	2/24/12 9:49
WT-FSRP-01-SW	E120809-27	Surface Water	2/22/12 10:00	2/24/12 9:49
WT-FSRP-01-SW-F	E120809-28	Surface Water	2/22/12 13:55	2/24/12 9:49
WT-PL-01-SB	E120809-29	Subsurface Soil	2/22/12 09:40	2/24/12 9:49
WT-PMW-06D-SB-C	E120809-40	Subsurface Soil	2/22/12 09:35	2/24/12 9:49
WT-PMW-06D-SB-D	E120809-41	Subsurface Soil	2/22/12 09:48	2/24/12 9:49
WT-PMW-06D-SB-E	E120809-42	Subsurface Soil	2/22/12 10:30	2/24/12 9:49
WT-PMW-06D-SB-F	E120809-43	Subsurface Soil	2/22/12 10:57	2/24/12 9:49

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CR	Cr6+ result possibly due to method induced oxidation. Sample contained ppm levels of Mn and Cr(III). See Method 3060A Section 1.2.
CRa	Cr6+ result possibly due to method induced oxidation. Sample contained ppm levels of Mn and Cr(III). See Method 3060A Section 1.2. Laboratory duplicate had positive hit for Cr6+.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-02 **Lab ID:** E120809-01

Station ID: **Matrix:** Field Blank

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:15	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:15	EPA 200.8
7440-50-8	Copper	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:15	EPA 200.8

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Dissolved Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FB-02 **Lab ID:** E120809-01

Station ID: **Matrix:** Field Blank

Date Collected: 2/22/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	1.0	U	ug/L	1.0	2/27/12 7:56	2/27/12 13:47	EPA 218.6

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-RB-03 **Lab ID:** E120809-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:19	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:19	EPA 200.8
7440-50-8	Copper	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:19	EPA 200.8

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Dissolved Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-RB-03 **Lab ID:** E120809-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/22/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	1.0	U	ug/L	1.0	2/27/12 7:56	2/27/12 13:58	EPA 218.6

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-01-SD **Lab ID:** E120809-03
Station ID: WTDN01 **Matrix:** Sediment

Date Collected: 2/22/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	9.0	J, CR	mg/kg dry	5.8	2/25/12 10:38	2/26/12 18:03	SM 3500 Cr
7440-38-2	Arsenic	630		mg/kg dry	4.9	3/14/12 15:54	3/14/12 21:02	EPA 6010
7440-47-3	Chromium	870		mg/kg dry	0.49	3/14/12 15:54	3/14/12 21:02	EPA 6010
7440-50-8	Copper	600		mg/kg dry	0.98	3/14/12 15:54	3/14/12 21:02	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-01-SD **Lab ID:** E120809-03
Station ID: WTDN01 **Matrix:** Sediment

Date Collected: 2/22/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-02-SD **Lab ID:** E120809-04
Station ID: WTDN02 **Matrix:** Sediment

Date Collected: 2/22/12 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.2	U	mg/kg dry	6.2	2/25/12 10:38	2/26/12 18:03	SM 3500 Cr
7440-38-2	Arsenic	730		mg/kg dry	10	3/14/12 15:54	3/14/12 21:24	EPA 6010
7440-47-3	Chromium	1200		mg/kg dry	1.0	3/14/12 15:54	3/14/12 21:24	EPA 6010
7440-50-8	Copper	870		mg/kg dry	2.0	3/14/12 15:54	3/14/12 21:24	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-02-SD **Lab ID:** E120809-04
Station ID: WTDN02 **Matrix:** Sediment

Date Collected: 2/22/12 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-03-SD **Lab ID:** E120809-05
Station ID: WTDN03 **Matrix:** Sediment

Date Collected: 2/22/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	29	J, CR	mg/kg dry	6.0	2/25/12 10:38	2/26/12 18:03	SM 3500 Cr
7440-38-2	Arsenic	4100		mg/kg dry	50	3/14/12 15:54	3/14/12 21:31	EPA 6010
7440-47-3	Chromium	5000		mg/kg dry	5.0	3/14/12 15:54	3/14/12 21:31	EPA 6010
7440-50-8	Copper	8900		mg/kg dry	9.9	3/14/12 15:54	3/14/12 21:31	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-03-SD **Lab ID:** E120809-05
Station ID: WTDN03 **Matrix:** Sediment

Date Collected: 2/22/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-04-SD **Lab ID:** E120809-06
Station ID: WTDN04 **Matrix:** Sediment

Date Collected: 2/22/12 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	19	J, CR	mg/kg dry	5.3	2/25/12 10:38	2/26/12 18:03	SM 3500 Cr
7440-38-2	Arsenic	11000		mg/kg dry	59	3/14/12 15:54	3/14/12 21:38	EPA 6010
7440-47-3	Chromium	5800		mg/kg dry	5.9	3/14/12 15:54	3/14/12 21:38	EPA 6010
7440-50-8	Copper	7600		mg/kg dry	12	3/14/12 15:54	3/14/12 21:38	EPA 6010

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Physical Properties

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Sample ID: WT-DN-04-SD **Lab ID:** E120809-06
Station ID: WTDN04 **Matrix:** Sediment

Date Collected: 2/22/12 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

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Sample ID: WT-DN-05-SD **Lab ID:** E120809-07
Station ID: WTDN05 **Matrix:** Sediment

Date Collected: 2/22/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.3	U	mg/kg dry	6.3	2/25/12 10:38	2/26/12 18:03	SM 3500 Cr
7440-38-2	Arsenic	850		mg/kg dry	9.9	3/14/12 15:54	3/14/12 22:23	EPA 6010
7440-47-3	Chromium	1100		mg/kg dry	0.99	3/14/12 15:54	3/14/12 22:23	EPA 6010
7440-50-8	Copper	780		mg/kg dry	2.0	3/14/12 15:54	3/14/12 22:23	EPA 6010

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Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-05-SD **Lab ID:** E120809-07
Station ID: WTDN05 **Matrix:** Sediment

Date Collected: 2/22/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Sample ID: WT-DN-06-SD **Lab ID:** E120809-08
Station ID: WTDN06 **Matrix:** Sediment

Date Collected: 2/22/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.4	U	mg/kg dry	6.4	2/25/12 10:38	2/26/12 18:03	SM 3500 Cr
7440-38-2	Arsenic	200		mg/kg dry	5.0	3/14/12 15:54	3/14/12 22:30	EPA 6010
7440-47-3	Chromium	320		mg/kg dry	0.50	3/14/12 15:54	3/14/12 22:30	EPA 6010
7440-50-8	Copper	260		mg/kg dry	0.99	3/14/12 15:54	3/14/12 22:30	EPA 6010

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Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-06-SD **Lab ID:** E120809-08
Station ID: WTDN06 **Matrix:** Sediment

Date Collected: 2/22/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Sample ID: WT-DN-07-SD **Lab ID:** E120809-09
Station ID: WTDN07 **Matrix:** Sediment

Date Collected: 2/22/12 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.5	U	mg/kg dry	6.5	2/25/12 10:38	2/26/12 18:25	SM 3500 Cr
7440-38-2	Arsenic	190		mg/kg dry	5.0	3/14/12 15:54	3/14/12 22:37	EPA 6010
7440-47-3	Chromium	360		mg/kg dry	0.50	3/14/12 15:54	3/14/12 22:37	EPA 6010
7440-50-8	Copper	240		mg/kg dry	0.99	3/14/12 15:54	3/14/12 22:37	EPA 6010

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Sample ID: WT-DN-07-SD **Lab ID:** E120809-09
Station ID: WTDN07 **Matrix:** Sediment

Date Collected: 2/22/12 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	73		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Sample ID: WT-DN-08-SD **Lab ID:** E120809-10
Station ID: WTDN08 **Matrix:** Sediment

Date Collected: 2/22/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.0	U	mg/kg dry	6.0	2/25/12 10:38	2/26/12 18:25	SM 3500 Cr
7440-38-2	Arsenic	390		mg/kg dry	4.9	3/14/12 15:54	3/14/12 22:45	EPA 6010
7440-47-3	Chromium	730		mg/kg dry	0.49	3/14/12 15:54	3/14/12 22:45	EPA 6010
7440-50-8	Copper	520		mg/kg dry	0.99	3/14/12 15:54	3/14/12 22:45	EPA 6010

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Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-08-SD **Lab ID:** E120809-10
Station ID: WTDN08 **Matrix:** Sediment

Date Collected: 2/22/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

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Sample ID: WT-DN-09-SD **Lab ID:** E120809-11
Station ID: WTDN09 **Matrix:** Sediment

Date Collected: 2/22/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.9	U	mg/kg dry	6.9	2/25/12 10:38	2/26/12 18:25	SM 3500 Cr
7440-38-2	Arsenic	1900		mg/kg dry	20	3/14/12 15:54	3/14/12 22:52	EPA 6010
7440-47-3	Chromium	3700		mg/kg dry	2.0	3/14/12 15:54	3/14/12 22:52	EPA 6010
7440-50-8	Copper	1900		mg/kg dry	4.0	3/14/12 15:54	3/14/12 22:52	EPA 6010

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Sample ID: WT-DN-09-SD **Lab ID:** E120809-11
Station ID: WTDN09 **Matrix:** Sediment

Date Collected: 2/22/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	72		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

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Sample ID: WT-DN-10-SD **Lab ID:** E120809-12
Station ID: WTDN10 **Matrix:** Sediment

Date Collected: 2/22/12 15:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.6	U, J, CRa, QM-3	mg/kg dry	5.6	2/25/12 10:38	2/26/12 18:25	SM 3500 Cr
7440-38-2	Arsenic	1600		mg/kg dry	20	3/14/12 15:54	3/14/12 22:59	EPA 6010
7440-47-3	Chromium	3300		mg/kg dry	2.0	3/14/12 15:54	3/14/12 22:59	EPA 6010
7440-50-8	Copper	1800		mg/kg dry	3.9	3/14/12 15:54	3/14/12 22:59	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-10-SD **Lab ID:** E120809-12
Station ID: WTDN10 **Matrix:** Sediment

Date Collected: 2/22/12 15:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-11-SD **Lab ID:** E120809-13
Station ID: WTDN11 **Matrix:** Sediment

Date Collected: 2/22/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.4	U	mg/kg dry	6.4	2/28/12 11:10	2/29/12 19:11	SM 3500 Cr
7440-38-2	Arsenic	270		mg/kg dry	4.9	3/14/12 15:54	3/14/12 23:06	EPA 6010
7440-47-3	Chromium	460		mg/kg dry	0.49	3/14/12 15:54	3/14/12 23:06	EPA 6010
7440-50-8	Copper	310		mg/kg dry	0.99	3/14/12 15:54	3/14/12 23:06	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-11-SD **Lab ID:** E120809-13
Station ID: WTDN11 **Matrix:** Sediment

Date Collected: 2/22/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	77		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-12-SD **Lab ID:** E120809-14
Station ID: WTDN12 **Matrix:** Sediment

Date Collected: 2/22/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.4	U	mg/kg dry	5.4	2/28/12 11:10	2/29/12 19:11	SM 3500 Cr
7440-38-2	Arsenic	150		mg/kg dry	4.9	3/14/12 15:54	3/14/12 23:14	EPA 6010
7440-47-3	Chromium	270		mg/kg dry	0.49	3/14/12 15:54	3/14/12 23:14	EPA 6010
7440-50-8	Copper	160		mg/kg dry	0.99	3/14/12 15:54	3/14/12 23:14	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DN-12-SD **Lab ID:** E120809-14
Station ID: WTDN12 **Matrix:** Sediment

Date Collected: 2/22/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-01-SW
Lab ID: E120809-15
Station ID: WTDP01
Matrix: Surface Water

Date Collected: 2/23/12 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:24	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:24	EPA 200.8
7440-50-8	Copper	1.3		ug/L	1.0	3/06/12 13:18	3/09/12 15:24	EPA 200.8

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-01-SW-F
Lab ID: E120809-16
Station ID: WTDP01
Matrix: Surface Water

Date Collected: 2/23/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:49	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:49	EPA 200.8
7440-50-8	Copper	1.2		ug/L	1.0	3/06/12 13:18	3/09/12 15:49	EPA 200.8

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Dissolved Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-01-SW-F **Lab ID:** E120809-16
Station ID: WTDP01 **Matrix:** Surface Water

Date Collected: 2/23/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	1.0	U	ug/L	1.0	2/27/12 7:56	2/27/12 14:09	EPA 218.6

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-02-SW
Lab ID: E120809-17
Station ID: WTDP02
Matrix: Surface Water

Date Collected: 2/23/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:54	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:54	EPA 200.8
7440-50-8	Copper	1.0		ug/L	1.0	3/06/12 13:18	3/09/12 15:54	EPA 200.8

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-02-SW-F
Lab ID: E120809-18
Station ID: WTDP02
Matrix: Surface Water

Date Collected: 2/23/12 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:59	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:59	EPA 200.8
7440-50-8	Copper	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 15:59	EPA 200.8

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Dissolved Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-02-SW-F
Lab ID: E120809-18
Station ID: WTDP02
Matrix: Surface Water

Date Collected: 2/23/12 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	1.0	U	ug/L	1.0	2/27/12 7:56	2/27/12 14:20	EPA 218.6

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-03-SD **Lab ID:** E120809-19
Station ID: WTDP03 **Matrix:** Sediment

Date Collected: 2/23/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	7.2	U	mg/kg dry	7.2	2/28/12 11:10	2/29/12 19:11	SM 3500 Cr
7440-38-2	Arsenic	47		mg/kg dry	2.5	3/13/12 13:28	3/14/12 17:46	EPA 200.8
7440-47-3	Chromium	150		mg/kg dry	0.49	3/14/12 15:54	3/14/12 23:21	EPA 6010
7440-50-8	Copper	32		mg/kg dry	0.98	3/14/12 15:54	3/14/12 23:21	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-03-SD **Lab ID:** E120809-19
Station ID: WTDP03 **Matrix:** Sediment

Date Collected: 2/23/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	67		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-03-SW **Lab ID:** E120809-20
Station ID: WTDP03 **Matrix:** Surface Water

Date Collected: 2/23/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.8		ug/L	1.0	3/06/12 13:18	3/09/12 16:04	EPA 200.8
7440-47-3	Chromium	5.9		ug/L	1.0	3/06/12 13:18	3/09/12 16:04	EPA 200.8
7440-50-8	Copper	4.1		ug/L	1.0	3/06/12 13:18	3/09/12 16:04	EPA 200.8

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-03-SW-F
Lab ID: E120809-21
Station ID: WTDP03
Matrix: Surface Water

Date Collected: 2/23/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 16:09	EPA 200.8
7440-47-3	Chromium	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 16:09	EPA 200.8
7440-50-8	Copper	1.0	U	ug/L	1.0	3/06/12 13:18	3/09/12 16:09	EPA 200.8

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Dissolved Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-DP-03-SW-F
Lab ID: E120809-21
Station ID: WTDP03
Matrix: Surface Water

Date Collected: 2/23/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	1.0	U	ug/L	1.0	2/27/12 7:56	2/27/12 14:31	EPA 218.6

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FSRP-01-SW
Lab ID: E120809-27
Station ID: WTFSRP01
Matrix: Surface Water

Date Collected: 2/22/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	760		ug/L	25	3/06/12 13:18	3/09/12 16:24	EPA 200.8
7440-47-3	Chromium	9.2		ug/L	2.5	3/06/12 13:18	3/09/12 16:14	EPA 200.8
7440-50-8	Copper	42		ug/L	2.5	3/06/12 13:18	3/09/12 16:14	EPA 200.8

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FSRP-01-SW-F
Lab ID: E120809-28
Station ID: WTFSRP01
Matrix: Surface Water

Date Collected: 2/22/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	750		ug/L	25	3/06/12 13:18	3/09/12 16:19	EPA 200.8
7440-47-3	Chromium	6.7		ug/L	2.5	3/06/12 13:18	3/09/12 16:29	EPA 200.8
7440-50-8	Copper	32		ug/L	2.5	3/06/12 13:18	3/09/12 16:29	EPA 200.8

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Dissolved Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-FSRP-01-SW-F
Lab ID: E120809-28
Station ID: WTFSRP01
Matrix: Surface Water

Date Collected: 2/22/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.5		ug/L	1.0	2/27/12 7:56	2/27/12 14:42	EPA 218.6

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PL-01-SB **Lab ID:** E120809-29
Station ID: WTPL01 **Matrix:** Subsurface Soil

Date Collected: 2/22/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	8.8	U	mg/kg dry	8.8	2/28/12 11:10	2/29/12 19:11	SM 3500 Cr
7440-38-2	Arsenic	94		mg/kg dry	2.5	3/13/12 13:28	3/14/12 16:56	EPA 200.8
7440-47-3	Chromium	410		mg/kg dry	0.49	3/14/12 15:54	3/14/12 23:28	EPA 6010
7440-50-8	Copper	120		mg/kg dry	0.99	3/14/12 15:54	3/14/12 23:28	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PL-01-SB **Lab ID:** E120809-29
Station ID: WTPL01 **Matrix:** Subsurface Soil

Date Collected: 2/22/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	52		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-C **Lab ID:** E120809-40
Station ID: WTPMW06D **Matrix:** Subsurface Soil

Date Collected: 2/22/12 9:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.0	U	mg/kg dry	6.0	2/28/12 11:10	2/29/12 19:11	SM 3500 Cr
7440-38-2	Arsenic	0.40		mg/kg dry	0.25	3/13/12 13:28	3/14/12 17:16	EPA 200.8
7440-47-3	Chromium	3.9		mg/kg dry	0.50	3/14/12 15:54	3/15/12 0:13	EPA 6010
7440-50-8	Copper	1.9		mg/kg dry	0.99	3/14/12 15:54	3/15/12 0:13	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-C **Lab ID:** E120809-40
Station ID: WTPMW06D **Matrix:** Subsurface Soil

Date Collected: 2/22/12 9:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-D **Lab ID:** E120809-41
Station ID: WTPMW06D **Matrix:** Subsurface Soil

Date Collected: 2/22/12 9:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.85		mg/kg dry	0.25	3/13/12 13:28	3/14/12 17:36	EPA 200.8
7440-47-3	Chromium	2.5		mg/kg dry	0.50	3/14/12 15:54	3/15/12 0:32	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/14/12 15:54	3/15/12 0:32	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-D
Lab ID: E120809-41
Station ID: WTPMW06D
Matrix: Subsurface Soil

Date Collected: 2/22/12 9:48

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
E1642941	% Solids	80		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-E **Lab ID:** E120809-42
Station ID: WTPMW06D **Matrix:** Subsurface Soil

Date Collected: 2/22/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.4		mg/kg dry	0.25	3/13/12 13:28	3/14/12 17:41	EPA 200.8
7440-47-3	Chromium	9.0		mg/kg dry	0.49	3/14/12 15:54	3/15/12 0:38	EPA 6010
7440-50-8	Copper	2.4		mg/kg dry	0.99	3/14/12 15:54	3/15/12 0:38	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-E
Lab ID: E120809-42
Station ID: WTPMW06D
Matrix: Subsurface Soil

Date Collected: 2/22/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	70		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-F **Lab ID:** E120809-43
Station ID: WTPMW06D **Matrix:** Subsurface Soil

Date Collected: 2/22/12 10:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.4		mg/kg dry	0.25	3/13/12 13:28	3/14/12 17:51	EPA 200.8
7440-47-3	Chromium	6.7		mg/kg dry	0.49	3/14/12 15:54	3/15/12 0:45	EPA 6010
7440-50-8	Copper	1.7		mg/kg dry	0.99	3/14/12 15:54	3/15/12 0:45	EPA 6010

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Physical Properties

Project: 12-0208, Fairfax Street Wood Treaters

Sample ID: WT-PMW-06D-SB-F
Lab ID: E120809-43
Station ID: WTPMW06D
Matrix: Subsurface Soil

Date Collected: 2/22/12 10:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	69		%	0.0	3/01/12 14:02	3/03/12 11:25	EPA 200.2

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202145 - M Hex Chrome in Solids 3060										
Blank (1202145-BLK1)				Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1202145-BLK2)				Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
LCS (1202145-BS1)				Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	49.620	5.0	mg/kg wet	50.000		99.2	80-120			
LCS (1202145-BS2)				Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	181360	30000	mg/kg wet	160900		113	80-120			
Duplicate (1202145-DUP1)	**Source: E120809-12**			Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	5.8816	5.4	mg/kg dry		1.9197			102	20	XD-2
Matrix Spike (1202145-MS1)	**Source: E120809-12**			Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	51.098	5.8	mg/kg dry	115.47	1.9197	42.6	75-125			QM-1, QM-3
Matrix Spike (1202145-MS2)	**Source: E120809-12**			Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	1101.7	110	mg/kg dry	2817.9	1.9197	39.0	75-125			QM-1
Matrix Spike (1202145-MS3)	**Source: E120809-12**			Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	121.90	5.7	mg/kg dry	113.02	1.9197	106	75-125			
Matrix Spike Dup (1202145-MSD1)	**Source: E120809-12**			Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	81.969	5.7	mg/kg dry	113.22	1.9197	70.7	75-125	49.6	20	QM-1, QM-3

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202145 - M Hex Chrome in Solids 3060										
MRL Verification (1202145-PS1)				Prepared: 02/25/12 Analyzed: 02/26/12						
SM 3500 Cr										
Chromium, Hexavalent	5.1930	5.0	mg/kg wet	5.0000		104	60-140			MRL-3
Batch 1202155 - M Hex Chrome in Solids 3060										
Blank (1202155-BLK1)				Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1202155-BLK2)				Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	U	4.9	mg/kg wet							U
LCS (1202155-BS1)				Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	51.015	5.0	mg/kg wet	50.000		102	80-120			
LCS (1202155-BS2)				Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	192200	63000	mg/kg wet	160900		119	80-120			
Duplicate (1202155-DUP1)		**Source: E120809-13**		Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	2.6035	3.2	mg/kg dry		2.8146			7.79	20	U
Matrix Spike (1202155-MS1)		**Source: E120809-13**		Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	52.990	6.0	mg/kg dry	119.70	2.8146	41.9	75-125			QM-1
Matrix Spike (1202155-MS2)		**Source: E120809-13**		Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	1202.8	120	mg/kg dry	2083.1	2.8146	57.6	75-125			QM-1
Matrix Spike (1202155-MS3)		**Source: E120809-13**		Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	66.566	3.2	mg/kg dry	64.140	2.8146	99.4	75-125			

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202155 - M Hex Chrome in Solids 3060										
Matrix Spike Dup (1202155-MSD1)	**Source: E120809-13**			Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	49.444	6.0	mg/kg dry	120.06	2.8146	38.8	75-125	7.62	20	QM-1
MRL Verification (1202155-PS1)				Prepared: 02/28/12 Analyzed: 02/29/12						
SM 3500 Cr										
Chromium, Hexavalent	5.0440	5.0	mg/kg wet	5.0000		101	60-140			MRL-3
Batch 1203029 - M 200.2 Metals Water										
Blank (1203029-BLK1)				Prepared: 03/06/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	U	1.0	ug/L							U
Copper	U	1.0	"							U
Arsenic	U	1.0	"							U
LCS (1203029-BS1)				Prepared: 03/06/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	216.32	10	ug/L	200.00		108	85-115			
Copper	104.17	10	"	100.00		104	85-115			
Arsenic	193.33	10	"	200.00		96.7	85-115			
Matrix Spike (1203029-MS1)	**Source: E120809-15**			Prepared: 03/06/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	212.87	10	ug/L	200.00	U	106	70-130			
Copper	106.65	10	"	100.00	1.3156	105	70-130			
Arsenic	195.84	10	"	200.00	U	97.9	70-130			
Matrix Spike Dup (1203029-MSD1)	**Source: E120809-15**			Prepared: 03/06/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	208.72	10	ug/L	200.00	U	104	70-130	1.97	20	
Copper	102.97	10	"	100.00	1.3156	102	70-130	3.51	20	
Arsenic	194.27	10	"	200.00	U	97.1	70-130	0.802	20	

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203029 - M 200.2 Metals Water										
MRL Verification (1203029-PS1)				Prepared: 03/06/12 Analyzed: 03/09/12						
EPA 200.8										
Chromium	1.1257	1.0	ug/L	1.0000		113	65-135			MRL-2
Copper	1.2154	1.0	"	1.0000		122	65-135			MRL-2
Arsenic	0.72692	1.0	"	1.0000		72.7	65-135			MRL-2, U
Batch 1203070 - M 200.2 Metals Soil										
Blank (1203070-BLK1)				Prepared: 03/13/12 Analyzed: 03/14/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Blank (1203070-BLK2)				Prepared: 03/13/12 Analyzed: 03/14/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
LCS (1203070-BS1)				Prepared: 03/13/12 Analyzed: 03/14/12						
EPA 200.8										
Arsenic	52.965	5.0	mg/kg dry	50.000		106	85-115			
Matrix Spike (1203070-MS2)		**Source: E120809-40**		Prepared: 03/13/12 Analyzed: 03/14/12						
EPA 200.8										
Arsenic	49.982	5.0	mg/kg dry	49.841	0.39950	99.5	70-130			
Matrix Spike Dup (1203070-MSD2)		**Source: E120809-40**		Prepared: 03/13/12 Analyzed: 03/14/12						
EPA 200.8										
Arsenic	49.489	4.9	mg/kg dry	49.290	0.39950	99.6	70-130	0.990	20	
MRL Verification (1203070-PS1)				Prepared: 03/13/12 Analyzed: 03/14/12						
EPA 200.8										
Arsenic	0.14768	0.10	mg/kg dry	0.10000		148	65-135			MRL-3, QR-2
Batch 1203084 - M 200.2 Metals Soil										
Blank (1203084-BLK1)				Prepared & Analyzed: 03/14/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203084 - M 200.2 Metals Soil										
Blank (1203084-BLK1)				Prepared & Analyzed: 03/14/12						
Copper	U	1.0	mg/kg dry							U
Blank (1203084-BLK2)				Prepared & Analyzed: 03/14/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
LCS (1203084-BS1)				Prepared & Analyzed: 03/14/12						
EPA 6010										
Arsenic	51.233	5.0	mg/kg dry	50.000		102	85-115			
Chromium	50.815	0.50	"	50.000		102	85-115			
Copper	29.441	1.0	"	30.000		98.1	85-115			
Matrix Spike (1203084-MS1)		**Source: E120809-03**		Prepared & Analyzed: 03/14/12						
EPA 6010										
Arsenic	612.97	5.0	mg/kg dry	49.841	632.00	NR	75-125			XM-1
Chromium	704.92	0.50	"	49.841	867.91	NR	75-125			XM-1
Copper	524.93	1.0	"	29.904	601.59	NR	75-125			XM-1
Matrix Spike (1203084-MS2)		**Source: E120809-40**		Prepared: 03/14/12 Analyzed: 03/15/12						
EPA 6010										
Chromium	52.634	0.50	mg/kg dry	49.841	3.8666	97.8	75-125			
Copper	31.064	1.0	"	29.904	1.8752	97.6	75-125			
Matrix Spike Dup (1203084-MSD1)		**Source: E120809-03**		Prepared & Analyzed: 03/14/12						
EPA 6010										
Arsenic	713.47	4.9	mg/kg dry	49.427	632.00	165	75-125	15.2	20	XM-1
Chromium	839.40	0.49	"	49.427	867.91	NR	75-125	17.4	20	XM-1
Copper	591.81	0.99	"	29.656	601.59	NR	75-125	12.0	20	XM-1
Matrix Spike Dup (1203084-MSD2)		**Source: E120809-40**		Prepared: 03/14/12 Analyzed: 03/15/12						
EPA 6010										
Chromium	53.252	0.49	mg/kg dry	49.290	3.8666	100	75-125	1.17	20	
Copper	30.650	0.99	"	29.574	1.8752	97.3	75-125	1.34	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203084 - M 200.2 Metals Soil										
MRL Verification (1203084-PS1)				Prepared & Analyzed: 03/14/12						
EPA 6010										
Arsenic	5.1376	5.0	mg/kg dry	5.0000		103	70-130			MRL-3
Chromium	0.50555	0.50	"	0.50000		101	70-130			MRL-3
Copper	1.1910	1.0	"	1.0000		119	70-130			MRL-3

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Dissolved Metals (DMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1202147 - M 218.6										
Blank (1202147-BLK1)				Prepared & Analyzed: 02/27/12						
EPA 218.6										
Chromium, Hexavalent	U	1.0	ug/L							U
LCS (1202147-BS1)				Prepared & Analyzed: 02/27/12						
EPA 218.6										
Chromium, Hexavalent	99.792	1.0	ug/L	100.00		99.8	90-110			
LCS Dup (1202147-BSD1)				Prepared & Analyzed: 02/27/12						
EPA 218.6										
Chromium, Hexavalent	99.195	1.0	ug/L	100.00		99.2	90-110	0.600	10	
Matrix Spike (1202147-MS1)	**Source: E120809-28**			Prepared & Analyzed: 02/27/12						
EPA 218.6										
Chromium, Hexavalent	106.12	1.0	ug/L	100.00	4.4798	102	90-110			
Matrix Spike Dup (1202147-MSD1)	**Source: E120809-28**			Prepared & Analyzed: 02/27/12						
EPA 218.6										
Chromium, Hexavalent	105.00	1.0	ug/L	100.00	4.4798	101	90-110	1.10	10	
MRL Verification (1202147-PS1)				Prepared & Analyzed: 02/27/12						
EPA 218.6										
Chromium, Hexavalent	0.96000	1.0	ug/L	1.0000		96.0	70-130			MRL-2, U

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Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203013 - M % Solids										
Duplicate (1203013-DUP1)		**Source: E120809-07**		Prepared: 03/01/12 Analyzed: 03/03/12						
EPA 200.2										
% Solids	75.649	0.0	%		75.604			0.0595	10	

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix
QM-1	Matrix Spike Recovery less than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.
XD-2	Duplicate results less than 5X MRL
XM-1	Sample background/spike ratio higher than method evaluation criteria

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April 30, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0209, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Physical Properties (PHYSP)	
Physical Properties	EPA 200.2
Total Metals (TMTL)	
Speciated Metals	SM 3500 Cr
Total Metals	EPA 200.8
Total Metals	EPA 6010

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Report Narrative for Work Order E120904, Project: 12-0209
04/30/12 MW Data report is being re-issued to add a 'QM-1' qualifier to hexavalent chromium results for sample E120905-51.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WT-ROW-G02-SF	E120904-01	Surface Soil	2/28/12 11:55	2/29/12 10:29
WT-ROW-G04-SF	E120904-02	Surface Soil	2/28/12 11:40	2/29/12 10:29
WT-ROW-G06-SF	E120904-03	Surface Soil	2/28/12 11:30	2/29/12 10:29
WT-ROW-G08-SF	E120904-04	Surface Soil	2/28/12 11:15	2/29/12 10:29
WT-RP-35-SB-BY	E120904-05	Subsurface Soil	2/28/12 11:10	2/29/12 10:29
WT-RP-35-SB-FY	E120904-06	Subsurface Soil	2/28/12 10:40	2/29/12 10:29
WT-RP-35-SF-BY	E120904-07	Surface Soil	2/28/12 11:00	2/29/12 10:29
WT-RP-35-SF-BY-DUP	E120904-08	Surface Soil	2/28/12 11:15	2/29/12 10:29
WT-RP-35-SF-FY	E120904-09	Surface Soil	2/28/12 10:30	2/29/12 10:29
WT-RP-35-SF-FY-DUP	E120904-10	Surface Soil	2/28/12 10:50	2/29/12 10:29
WT-RP-37-SB-BY	E120904-11	Subsurface Soil	2/28/12 10:00	2/29/12 10:29
WT-RP-37-SB-FY	E120904-12	Subsurface Soil	2/28/12 09:50	2/29/12 10:29
WT-RP-37-SF-BY	E120904-13	Surface Soil	2/28/12 09:45	2/29/12 10:29
WT-RP-37-SF-FY	E120904-14	Surface Soil	2/28/12 09:40	2/29/12 10:29
WT-RP-38-SB-BY	E120904-15	Subsurface Soil	2/28/12 09:30	2/29/12 10:29
WT-RP-38-SB-FY	E120904-16	Subsurface Soil	2/28/12 09:10	2/29/12 10:29
WT-RP-38-SF-BY	E120904-17	Surface Soil	2/28/12 09:15	2/29/12 10:29
WT-RP-38-SF-FY	E120904-18	Surface Soil	2/28/12 08:55	2/29/12 10:29
WT-RP-39-SB-BY	E120904-19	Subsurface Soil	2/27/12 16:15	2/29/12 10:29
WT-RP-39-SB-FY	E120904-20	Subsurface Soil	2/27/12 16:05	2/29/12 10:29
WT-RP-39-SF-BY	E120904-21	Surface Soil	2/27/12 16:10	2/29/12 10:29
WT-RP-39-SF-FY	E120904-22	Surface Soil	2/27/12 15:55	2/29/12 10:29
WT-RP-40-SB-BY	E120904-23	Subsurface Soil	2/27/12 15:40	2/29/12 10:29
WT-RP-40-SB-FY	E120904-24	Subsurface Soil	2/27/12 15:15	2/29/12 10:29
WT-RP-40-SF-BY	E120904-25	Surface Soil	2/27/12 15:25	2/29/12 10:29
WT-RP-40-SF-FY	E120904-26	Surface Soil	2/27/12 15:05	2/29/12 10:29
WT-RP-41-SB-BY	E120904-27	Subsurface Soil	2/27/12 12:00	2/29/12 10:29
WT-RP-41-SB-FY	E120904-28	Subsurface Soil	2/27/12 11:30	2/29/12 10:29
WT-RP-41-SF-BY	E120904-29	Surface Soil	2/27/12 11:50	2/29/12 10:29
WT-RP-41-SF-FY	E120904-30	Surface Soil	2/27/12 11:15	2/29/12 10:29
WT-RP-43-SB-BY	E120904-31	Subsurface Soil	2/27/12 10:50	2/29/12 10:29
WT-RP-43-SB-FY	E120904-32	Subsurface Soil	2/27/12 10:40	2/29/12 10:29
WT-RP-43-SF-BY	E120904-33	Surface Soil	2/27/12 10:45	2/29/12 10:29
WT-RP-43-SF-FY	E120904-34	Surface Soil	2/27/12 10:30	2/29/12 10:29

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WT-RP-44-SB-BY	E120904-35	Subsurface Soil	2/27/12 10:10	2/29/12 10:29
WT-RP-44-SB-FY	E120904-36	Subsurface Soil	2/27/12 09:50	2/29/12 10:29
WT-RP-44-SF-BY	E120904-37	Surface Soil	2/27/12 09:55	2/29/12 10:29
WT-RP-44-SF-FY	E120904-38	Surface Soil	2/27/12 09:40	2/29/12 10:29
WT-RP-45-SB-BY	E120904-39	Subsurface Soil	2/27/12 09:20	2/29/12 10:29
WT-RP-45-SB-FY	E120904-40	Subsurface Soil	2/27/12 09:00	2/29/12 10:29
WT-RP-45-SF-BY	E120904-41	Surface Soil	2/27/12 09:15	2/29/12 10:29
WT-RP-45-SF-FY	E120904-42	Surface Soil	2/27/12 08:50	2/29/12 10:29
WT-RP-47-SB-BY	E120904-43	Subsurface Soil	2/28/12 12:06	2/29/12 10:29
WT-RP-47-SB-FY	E120904-44	Subsurface Soil	2/28/12 11:40	2/29/12 10:29
WT-RP-47-SF-BY	E120904-45	Surface Soil	2/28/12 11:56	2/29/12 10:29
WT-RP-47-SF-BY-DUP	E120904-46	Surface Soil	2/28/12 12:11	2/29/12 10:29
WT-RP-47-SF-FY	E120904-47	Surface Soil	2/28/12 11:35	2/29/12 10:29
WT-RP-51-SB-FY	E120904-48	Subsurface Soil	2/28/12 11:09	2/29/12 10:29
WT-RP-51-SF-FY	E120904-49	Surface Soil	2/28/12 10:58	2/29/12 10:29
WT-RP-52-SF-BY	E120904-50	Surface Soil	2/27/12 16:07	2/29/12 10:29
WT-RP-52-SF-FY	E120904-51	Surface Soil	2/27/12 16:08	2/29/12 10:29
WT-RP-53-SB-BY	E120904-52	Subsurface Soil	2/28/12 09:58	2/29/12 10:29
WT-RP-53-SB-FY	E120904-53	Subsurface Soil	2/28/12 09:30	2/29/12 10:29
WT-RP-53-SF-BY	E120904-54	Surface Soil	2/28/12 09:46	2/29/12 10:29
WT-RP-53-SF-FY	E120904-55	Surface Soil	2/28/12 09:13	2/29/12 10:29
WT-RP-54-SB-BY	E120904-56	Subsurface Soil	2/27/12 15:50	2/29/12 10:29
WT-RP-54-SB-FY	E120904-57	Subsurface Soil	2/27/12 15:24	2/29/12 10:29
WT-RP-54-SF-BY	E120904-58	Surface Soil	2/27/12 15:36	2/29/12 10:29
WT-RP-54-SF-FY	E120904-59	Surface Soil	2/27/12 15:16	2/29/12 10:29
WT-RP-55-SB-BY	E120904-60	Subsurface Soil	2/27/12 12:10	2/29/12 10:29
WT-RP-55-SB-FY	E120904-61	Subsurface Soil	2/27/12 11:38	2/29/12 10:29
WT-RP-55-SF-BY	E120904-62	Surface Soil	2/27/12 11:54	2/29/12 10:29
WT-RP-55-SF-FY	E120904-63	Surface Soil	2/27/12 11:24	2/29/12 10:29
WT-RP-59-SB-BY	E120904-64	Subsurface Soil	2/27/12 09:57	2/29/12 10:29
WT-RP-59-SB-FY	E120904-65	Subsurface Soil	2/27/12 09:16	2/29/12 10:29
WT-RP-59-SF-BY	E120904-66	Surface Soil	2/27/12 09:40	2/29/12 10:29
WT-RP-59-SF-FY	E120904-67	Surface Soil	2/27/12 08:58	2/29/12 10:29
WT-RP-59-SF-FY-DUP	E120904-68	Surface Soil	2/27/12 09:27	2/29/12 10:29
WT-RP-66-SB-BY	E120904-69	Subsurface Soil	2/27/12 10:53	2/29/12 10:29
WT-RP-66-SF-BY	E120904-70	Surface Soil	2/27/12 10:33	2/29/12 10:29
WT-RP-67-SB-BY	E120904-71	Subsurface Soil	2/28/12 10:26	2/29/12 10:29
WT-RP-67-SF-BY	E120904-72	Surface Soil	2/28/12 10:18	2/29/12 10:29

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G02-SF **Lab ID:** E120904-01
Station ID: WTROWG02 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	42		mg/kg dry	10	3/29/12 13:27	4/05/12 13:11	EPA 6010
7440-47-3	Chromium	110	J, QM-1	mg/kg dry	1.0	3/29/12 13:27	4/05/12 13:11	EPA 6010
7440-50-8	Copper	63	J, QM-1	mg/kg dry	2.0	3/29/12 13:27	4/05/12 13:11	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G02-SF
Lab ID: E120904-01
Station ID: WTROWG02
Matrix: Surface Soil

Date Collected: 2/28/12 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/18/12 10:44	3/19/12 19:25	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G04-SF **Lab ID:** E120904-02
Station ID: WTROWG04 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	43		mg/kg dry	15	3/29/12 13:27	4/05/12 13:34	EPA 6010
7440-47-3	Chromium	100		mg/kg dry	1.5	3/29/12 13:27	4/05/12 13:34	EPA 6010
7440-50-8	Copper	59		mg/kg dry	3.0	3/29/12 13:27	4/05/12 13:34	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G04-SF
Lab ID: E120904-02
Station ID: WTROWG04
Matrix: Surface Soil

Date Collected: 2/28/12 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/18/12 10:44	3/19/12 19:25	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G06-SF **Lab ID:** E120904-03
Station ID: WTROWG06 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.2	U	mg/kg dry	5.2	3/27/12 22:00	3/28/12 18:49	SM 3500 Cr
7440-38-2	Arsenic	25		mg/kg dry	5.0	3/29/12 13:27	4/05/12 13:42	EPA 6010
7440-47-3	Chromium	61		mg/kg dry	0.50	3/29/12 13:27	4/05/12 13:42	EPA 6010
7440-50-8	Copper	40		mg/kg dry	1.0	3/29/12 13:27	4/05/12 13:42	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G06-SF **Lab ID:** E120904-03
Station ID: WTROWG06 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/18/12 10:44	3/19/12 19:25	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G08-SF **Lab ID:** E120904-04
Station ID: WTROWG08 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	13		mg/kg dry	4.9	3/29/12 13:27	4/05/12 13:50	EPA 6010
7440-47-3	Chromium	40		mg/kg dry	0.49	3/29/12 13:27	4/05/12 13:50	EPA 6010
7440-50-8	Copper	41		mg/kg dry	0.99	3/29/12 13:27	4/05/12 13:50	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-ROW-G08-SF
Lab ID: E120904-04
Station ID: WTROWG08
Matrix: Surface Soil

Date Collected: 2/28/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/18/12 10:44	3/19/12 19:25	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SB-BY **Lab ID:** E120904-05
Station ID: WTRP35 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.31		mg/kg dry	0.25	3/15/12 14:53	3/19/12 16:43	EPA 200.8
7440-47-3	Chromium	1.6		mg/kg dry	0.50	3/15/12 14:42	3/17/12 13:02	EPA 6010
7440-50-8	Copper	1.3		mg/kg dry	1.0	3/15/12 14:42	3/17/12 13:02	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SB-BY **Lab ID:** E120904-05
Station ID: WTRP35 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SB-FY **Lab ID:** E120904-06
Station ID: WTRP35 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/15/12 14:53	3/19/12 16:58	EPA 200.8
7440-47-3	Chromium	0.93		mg/kg dry	0.49	3/15/12 14:42	3/17/12 13:23	EPA 6010
7440-50-8	Copper	0.98	U	mg/kg dry	0.98	3/15/12 14:42	3/17/12 13:23	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SB-FY
Lab ID: E120904-06
Station ID: WTRP35
Matrix: Subsurface Soil

Date Collected: 2/28/12 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-BY **Lab ID:** E120904-07
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.4	U	mg/kg dry	5.4	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	2.9		mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:03	EPA 200.8
7440-47-3	Chromium	10		mg/kg dry	0.49	3/15/12 14:42	3/17/12 13:28	EPA 6010
7440-50-8	Copper	12		mg/kg dry	0.99	3/15/12 14:42	3/17/12 13:28	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-BY **Lab ID:** E120904-07
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-BY-DUP **Lab ID:** E120904-08
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.4	U	mg/kg dry	5.4	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	3.6		mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:24	EPA 200.8
7440-47-3	Chromium	12		mg/kg dry	0.50	3/15/12 14:42	3/17/12 13:34	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.99	3/15/12 14:42	3/17/12 13:34	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-BY-DUP **Lab ID:** E120904-08
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-FY **Lab ID:** E120904-09

Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.4	U	mg/kg dry	5.4	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	1.4		mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:34	EPA 200.8
7440-47-3	Chromium	4.3		mg/kg dry	0.50	3/15/12 14:42	3/17/12 14:06	EPA 6010
7440-50-8	Copper	9.7		mg/kg dry	0.99	3/15/12 14:42	3/17/12 14:06	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-FY **Lab ID:** E120904-09
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-FY-DUP **Lab ID:** E120904-10
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.3	U	mg/kg dry	5.3	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	2.6		mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:39	EPA 200.8
7440-47-3	Chromium	7.7		mg/kg dry	0.50	3/15/12 14:42	3/17/12 14:12	EPA 6010
7440-50-8	Copper	12		mg/kg dry	1.0	3/15/12 14:42	3/17/12 14:12	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-35-SF-FY-DUP **Lab ID:** E120904-10
Station ID: WTRP35 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SB-BY **Lab ID:** E120904-11
Station ID: WTRP37 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.85		mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:44	EPA 200.8
7440-47-3	Chromium	6.6		mg/kg dry	0.49	3/15/12 14:42	3/17/12 14:17	EPA 6010
7440-50-8	Copper	47		mg/kg dry	0.98	3/15/12 14:42	3/17/12 14:17	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SB-BY **Lab ID:** E120904-11
Station ID: WTRP37 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SB-FY **Lab ID:** E120904-12
Station ID: WTRP37 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.51		mg/kg dry	0.25	3/15/12 14:53	3/19/12 17:55	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.49	3/15/12 14:42	3/17/12 14:25	EPA 6010
7440-50-8	Copper	1.6		mg/kg dry	0.99	3/15/12 14:42	3/17/12 14:25	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SB-FY
Lab ID: E120904-12
Station ID: WTRP37
Matrix: Subsurface Soil

Date Collected: 2/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SF-BY **Lab ID:** E120904-13
Station ID: WTRP37 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.0		mg/kg dry	0.25	3/15/12 14:53	3/19/12 18:00	EPA 200.8
7440-47-3	Chromium	21		mg/kg dry	0.49	3/15/12 14:42	3/17/12 14:30	EPA 6010
7440-50-8	Copper	140		mg/kg dry	0.99	3/15/12 14:42	3/17/12 14:30	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SF-BY **Lab ID:** E120904-13
Station ID: WTRP37 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SF-FY **Lab ID:** E120904-14

Station ID: WTRP37 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	6.3		mg/kg dry	0.25	3/15/12 14:53	3/19/12 18:20	EPA 200.8
7440-47-3	Chromium	22		mg/kg dry	0.50	3/15/12 14:42	3/17/12 14:38	EPA 6010
7440-50-8	Copper	39		mg/kg dry	1.0	3/15/12 14:42	3/17/12 14:38	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-37-SF-FY **Lab ID:** E120904-14
Station ID: WTRP37 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SB-BY **Lab ID:** E120904-15
Station ID: WTRP38 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.74		mg/kg dry	0.25	3/15/12 14:53	3/19/12 18:30	EPA 200.8
7440-47-3	Chromium	2.7		mg/kg dry	0.49	3/15/12 14:42	3/17/12 14:45	EPA 6010
7440-50-8	Copper	2.7		mg/kg dry	0.99	3/15/12 14:42	3/17/12 14:45	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SB-BY **Lab ID:** E120904-15
Station ID: WTRP38 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SB-FY **Lab ID:** E120904-16
Station ID: WTRP38 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.35		mg/kg dry	0.25	3/15/12 14:53	3/19/12 18:35	EPA 200.8
7440-47-3	Chromium	1.8		mg/kg dry	0.49	3/15/12 14:42	3/17/12 14:51	EPA 6010
7440-50-8	Copper	1.1		mg/kg dry	0.98	3/15/12 14:42	3/17/12 14:51	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SB-FY **Lab ID:** E120904-16
Station ID: WTRP38 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SF-BY **Lab ID:** E120904-17
Station ID: WTRP38 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	34		mg/kg dry	9.8	3/15/12 14:53	3/19/12 18:40	EPA 200.8
7440-47-3	Chromium	30		mg/kg dry	0.49	3/15/12 14:42	3/17/12 15:26	EPA 6010
7440-50-8	Copper	82	J, QM-1	mg/kg dry	0.98	3/15/12 14:42	3/17/12 15:26	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SF-BY **Lab ID:** E120904-17
Station ID: WTRP38 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SF-FY **Lab ID:** E120904-18

Station ID: WTRP38 **Matrix:** Surface Soil

Date Collected: 2/28/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.0		mg/kg dry	0.25	3/15/12 14:53	3/19/12 19:11	EPA 200.8
7440-47-3	Chromium	8.4		mg/kg dry	0.49	3/15/12 14:42	3/17/12 15:49	EPA 6010
7440-50-8	Copper	14		mg/kg dry	0.99	3/15/12 14:42	3/17/12 15:49	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-38-SF-FY **Lab ID:** E120904-18
Station ID: WTRP38 **Matrix:** Surface Soil

Date Collected: 2/28/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SB-BY **Lab ID:** E120904-19
Station ID: WTRP39 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/15/12 14:53	3/19/12 19:16	EPA 200.8
7440-47-3	Chromium	1.0		mg/kg dry	0.50	3/15/12 14:42	3/17/12 15:55	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/15/12 14:42	3/17/12 15:55	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SB-BY **Lab ID:** E120904-19
Station ID: WTRP39 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SB-FY **Lab ID:** E120904-20

Station ID: WTRP39 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.37		mg/kg dry	0.25	3/15/12 14:53	3/19/12 19:21	EPA 200.8
7440-47-3	Chromium	0.50	U	mg/kg dry	0.50	3/15/12 14:42	3/17/12 16:00	EPA 6010
7440-50-8	Copper	1.0	U	mg/kg dry	1.0	3/15/12 14:42	3/17/12 16:00	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SB-FY **Lab ID:** E120904-20
Station ID: WTRP39 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	98		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SF-BY **Lab ID:** E120904-21
Station ID: WTRP39 **Matrix:** Surface Soil

Date Collected: 2/27/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.5		mg/kg dry	0.25	3/15/12 14:53	3/19/12 19:26	EPA 200.8
7440-47-3	Chromium	5.1		mg/kg dry	0.50	3/15/12 14:42	3/17/12 16:07	EPA 6010
7440-50-8	Copper	11		mg/kg dry	0.99	3/15/12 14:42	3/17/12 16:07	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SF-BY **Lab ID:** E120904-21
Station ID: WTRP39 **Matrix:** Surface Soil

Date Collected: 2/27/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/02/12 14:08	3/04/12 11:30	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SF-FY **Lab ID:** E120904-22
Station ID: WTRP39 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.0		mg/kg dry	0.25	3/16/12 10:52	3/20/12 14:12	EPA 200.8
7440-47-3	Chromium	6.5		mg/kg dry	0.49	3/16/12 10:46	3/19/12 16:34	EPA 6010
7440-50-8	Copper	9.7		mg/kg dry	0.98	3/16/12 10:46	3/19/12 16:34	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-39-SF-FY **Lab ID:** E120904-22
Station ID: WTRP39 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

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Sample ID: WT-RP-40-SB-BY **Lab ID:** E120904-23
Station ID: WTRP40 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.79		mg/kg dry	0.25	3/16/12 10:52	3/20/12 14:31	EPA 200.8
7440-47-3	Chromium	1.0		mg/kg dry	0.50	3/16/12 10:46	3/19/12 16:55	EPA 6010
7440-50-8	Copper	1.1		mg/kg dry	0.99	3/16/12 10:46	3/19/12 16:55	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-40-SB-BY **Lab ID:** E120904-23
Station ID: WTRP40 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

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Sample ID: WT-RP-40-SB-FY **Lab ID:** E120904-24
Station ID: WTRP40 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.39		mg/kg dry	0.25	3/16/12 10:52	3/20/12 14:38	EPA 200.8
7440-47-3	Chromium	0.50	U	mg/kg dry	0.50	3/16/12 10:46	3/19/12 17:00	EPA 6010
7440-50-8	Copper	1.0	U	mg/kg dry	1.0	3/16/12 10:46	3/19/12 17:00	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-40-SB-FY **Lab ID:** E120904-24
Station ID: WTRP40 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	97		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

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Sample ID: WT-RP-40-SF-BY **Lab ID:** E120904-25
Station ID: WTRP40 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U	mg/kg dry	5.5	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	4.9		mg/kg dry	0.25	3/16/12 10:52	3/20/12 14:44	EPA 200.8
7440-47-3	Chromium	9.9		mg/kg dry	0.50	3/16/12 10:46	3/19/12 17:07	EPA 6010
7440-50-8	Copper	53		mg/kg dry	1.0	3/16/12 10:46	3/19/12 17:07	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-40-SF-BY **Lab ID:** E120904-25
Station ID: WTRP40 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-40-SF-FY **Lab ID:** E120904-26
Station ID: WTRP40 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U	mg/kg dry	5.5	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	2.7		mg/kg dry	0.25	3/16/12 10:52	3/20/12 15:03	EPA 200.8
7440-47-3	Chromium	6.7		mg/kg dry	0.50	3/16/12 10:46	3/19/12 17:14	EPA 6010
7440-50-8	Copper	8.4		mg/kg dry	1.0	3/16/12 10:46	3/19/12 17:14	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-40-SF-FY **Lab ID:** E120904-26
Station ID: WTRP40 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

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Sample ID: WT-RP-41-SB-BY **Lab ID:** E120904-27
Station ID: WTRP41 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.3		mg/kg dry	0.25	3/16/12 10:52	3/20/12 15:10	EPA 200.8
7440-47-3	Chromium	0.83		mg/kg dry	0.50	3/16/12 10:46	3/19/12 17:22	EPA 6010
7440-50-8	Copper	1.3		mg/kg dry	1.0	3/16/12 10:46	3/19/12 17:22	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-41-SB-BY
Lab ID: E120904-27
Station ID: WTRP41
Matrix: Subsurface Soil

Date Collected: 2/27/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-41-SB-FY **Lab ID:** E120904-28
Station ID: WTRP41 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.6		mg/kg dry	0.25	3/16/12 10:52	3/20/12 15:16	EPA 200.8
7440-47-3	Chromium	0.92		mg/kg dry	0.50	3/16/12 10:46	3/19/12 17:30	EPA 6010
7440-50-8	Copper	1.1		mg/kg dry	0.99	3/16/12 10:46	3/19/12 17:30	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-41-SB-FY **Lab ID:** E120904-28
Station ID: WTRP41 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-41-SF-BY **Lab ID:** E120904-29
Station ID: WTRP41 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	6.0		mg/kg dry	0.25	3/16/12 10:52	3/20/12 15:23	EPA 200.8
7440-47-3	Chromium	11		mg/kg dry	0.49	3/16/12 10:46	3/19/12 17:38	EPA 6010
7440-50-8	Copper	30		mg/kg dry	0.98	3/16/12 10:46	3/19/12 17:38	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-41-SF-BY **Lab ID:** E120904-29
Station ID: WTRP41 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-41-SF-FY **Lab ID:** E120904-30
Station ID: WTRP41 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.0		mg/kg dry	0.25	3/16/12 10:52	3/20/12 15:29	EPA 200.8
7440-47-3	Chromium	9.6		mg/kg dry	0.50	3/16/12 10:46	3/19/12 18:26	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.99	3/16/12 10:46	3/19/12 18:26	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-41-SF-FY **Lab ID:** E120904-30
Station ID: WTRP41 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SB-BY **Lab ID:** E120904-31
Station ID: WTRP43 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0		mg/kg dry	0.25	3/16/12 10:52	3/20/12 15:36	EPA 200.8
7440-47-3	Chromium	6.5		mg/kg dry	0.49	3/16/12 10:46	3/19/12 18:34	EPA 6010
7440-50-8	Copper	28		mg/kg dry	0.98	3/16/12 10:46	3/19/12 18:34	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SB-BY **Lab ID:** E120904-31
Station ID: WTRP43 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SB-FY **Lab ID:** E120904-32
Station ID: WTRP43 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.61		mg/kg dry	0.25	3/16/12 10:52	3/20/12 15:42	EPA 200.8
7440-47-3	Chromium	2.5	J, QM-2, QM-3	mg/kg dry	0.50	3/16/12 10:46	3/19/12 18:41	EPA 6010
7440-50-8	Copper	5.2		mg/kg dry	1.0	3/16/12 10:46	3/19/12 18:41	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SB-FY **Lab ID:** E120904-32
Station ID: WTRP43 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SF-BY **Lab ID:** E120904-33
Station ID: WTRP43 **Matrix:** Surface Soil

Date Collected: 2/27/12 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.6		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:01	EPA 200.8
7440-47-3	Chromium	14		mg/kg dry	0.49	3/16/12 10:46	3/19/12 19:02	EPA 6010
7440-50-8	Copper	19		mg/kg dry	0.98	3/16/12 10:46	3/19/12 19:02	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SF-BY
Lab ID: E120904-33
Station ID: WTRP43
Matrix: Surface Soil

Date Collected: 2/27/12 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SF-FY **Lab ID:** E120904-34

Station ID: WTRP43 **Matrix:** Surface Soil

Date Collected: 2/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.57		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:21	EPA 200.8
7440-47-3	Chromium	3.7		mg/kg dry	0.50	3/16/12 10:46	3/19/12 19:10	EPA 6010
7440-50-8	Copper	12		mg/kg dry	0.99	3/16/12 10:46	3/19/12 19:10	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-43-SF-FY **Lab ID:** E120904-34
Station ID: WTRP43 **Matrix:** Surface Soil

Date Collected: 2/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-44-SB-BY **Lab ID:** E120904-35
Station ID: WTRP44 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.5		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:27	EPA 200.8
7440-47-3	Chromium	4.4		mg/kg dry	0.50	3/16/12 10:46	3/19/12 19:15	EPA 6010
7440-50-8	Copper	14		mg/kg dry	0.99	3/16/12 10:46	3/19/12 19:15	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-44-SB-BY **Lab ID:** E120904-35
Station ID: WTRP44 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-44-SB-FY **Lab ID:** E120904-36
Station ID: WTRP44 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.86		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:33	EPA 200.8
7440-47-3	Chromium	3.2		mg/kg dry	0.50	3/16/12 10:46	3/19/12 19:20	EPA 6010
7440-50-8	Copper	6.9		mg/kg dry	1.0	3/16/12 10:46	3/19/12 19:20	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-44-SB-FY **Lab ID:** E120904-36
Station ID: WTRP44 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Sample ID: WT-RP-44-SF-BY **Lab ID:** E120904-37
Station ID: WTRP44 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.94		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:40	EPA 200.8
7440-47-3	Chromium	4.1		mg/kg dry	0.50	3/16/12 10:46	3/19/12 20:06	EPA 6010
7440-50-8	Copper	1.2		mg/kg dry	1.0	3/16/12 10:46	3/19/12 20:06	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-44-SF-BY **Lab ID:** E120904-37
Station ID: WTRP44 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-44-SF-FY **Lab ID:** E120904-38
Station ID: WTRP44 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.4		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:46	EPA 200.8
7440-47-3	Chromium	5.5		mg/kg dry	0.49	3/16/12 10:46	3/19/12 20:11	EPA 6010
7440-50-8	Copper	4.8		mg/kg dry	0.98	3/16/12 10:46	3/19/12 20:11	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-44-SF-FY **Lab ID:** E120904-38
Station ID: WTRP44 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SB-BY **Lab ID:** E120904-39
Station ID: WTRP45 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.46		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:53	EPA 200.8
7440-47-3	Chromium	1.2		mg/kg dry	0.49	3/16/12 10:46	3/19/12 20:16	EPA 6010
7440-50-8	Copper	21		mg/kg dry	0.98	3/16/12 10:46	3/19/12 20:16	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SB-BY **Lab ID:** E120904-39
Station ID: WTRP45 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SB-FY **Lab ID:** E120904-40
Station ID: WTRP45 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.0		mg/kg dry	0.25	3/16/12 10:52	3/20/12 16:59	EPA 200.8
7440-47-3	Chromium	5.6		mg/kg dry	0.49	3/16/12 10:46	3/19/12 20:22	EPA 6010
7440-50-8	Copper	77		mg/kg dry	0.99	3/16/12 10:46	3/19/12 20:22	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SB-FY
Lab ID: E120904-40
Station ID: WTRP45
Matrix: Subsurface Soil

Date Collected: 2/27/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SF-BY **Lab ID:** E120904-41
Station ID: WTRP45 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.7	U	mg/kg dry	5.7	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	1.4		mg/kg dry	0.25	3/16/12 10:52	3/20/12 17:06	EPA 200.8
7440-47-3	Chromium	4.2		mg/kg dry	0.50	3/16/12 10:46	3/19/12 20:29	EPA 6010
7440-50-8	Copper	10		mg/kg dry	1.0	3/16/12 10:46	3/19/12 20:29	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SF-BY
Lab ID: E120904-41
Station ID: WTRP45
Matrix: Surface Soil

Date Collected: 2/27/12 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/05/12 19:17	3/06/12 12:22	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SF-FY **Lab ID:** E120904-42

Station ID: WTRP45 **Matrix:** Surface Soil

Date Collected: 2/27/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U	mg/kg dry	5.5	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	0.76		mg/kg dry	0.25	3/19/12 10:45	3/20/12 17:41	EPA 200.8
7440-47-3	Chromium	2.8		mg/kg dry	0.50	3/19/12 10:25	3/21/12 18:34	EPA 6010
7440-50-8	Copper	7.3		mg/kg dry	0.99	3/19/12 10:25	3/21/12 18:34	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-45-SF-FY **Lab ID:** E120904-42
Station ID: WTRP45 **Matrix:** Surface Soil

Date Collected: 2/27/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SB-BY **Lab ID:** E120904-43
Station ID: WTRP47 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 12:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.44		mg/kg dry	0.25	3/19/12 10:45	3/20/12 17:56	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.25	3/19/12 10:45	3/20/12 17:56	EPA 200.8
7440-50-8	Copper	1.6		mg/kg dry	0.99	3/19/12 10:25	3/21/12 18:54	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SB-BY **Lab ID:** E120904-43
Station ID: WTRP47 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 12:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SB-FY **Lab ID:** E120904-44
Station ID: WTRP47 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.41		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:01	EPA 200.8
7440-47-3	Chromium	2.5		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:01	EPA 200.8
7440-50-8	Copper	3.9		mg/kg dry	0.99	3/19/12 10:25	3/21/12 19:00	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SB-FY **Lab ID:** E120904-44
Station ID: WTRP47 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SF-BY **Lab ID:** E120904-45
Station ID: WTRP47 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:56

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.1		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:16	EPA 200.8
7440-47-3	Chromium	9.2		mg/kg dry	0.50	3/19/12 10:25	3/21/12 19:05	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.99	3/19/12 10:25	3/21/12 19:05	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SF-BY **Lab ID:** E120904-45
Station ID: WTRP47 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:56

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SF-BY-DUP **Lab ID:** E120904-46
Station ID: WTRP47 **Matrix:** Surface Soil

Date Collected: 2/28/12 12:11

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.3		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:27	EPA 200.8
7440-47-3	Chromium	13		mg/kg dry	0.49	3/19/12 10:25	3/21/12 19:40	EPA 6010
7440-50-8	Copper	15		mg/kg dry	0.99	3/19/12 10:25	3/21/12 19:40	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SF-BY-DUP **Lab ID:** E120904-46
Station ID: WTRP47 **Matrix:** Surface Soil

Date Collected: 2/28/12 12:11

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SF-FY **Lab ID:** E120904-47
Station ID: WTRP47 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.6		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:37	EPA 200.8
7440-47-3	Chromium	11		mg/kg dry	0.50	3/19/12 10:25	3/21/12 19:45	EPA 6010
7440-50-8	Copper	16		mg/kg dry	0.99	3/19/12 10:25	3/21/12 19:45	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-47-SF-FY **Lab ID:** E120904-47
Station ID: WTRP47 **Matrix:** Surface Soil

Date Collected: 2/28/12 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-51-SB-FY **Lab ID:** E120904-48
Station ID: WTRP51 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 11:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.68		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:47	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:47	EPA 200.8
7440-50-8	Copper	29		mg/kg dry	0.99	3/19/12 10:25	3/21/12 19:53	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-51-SB-FY **Lab ID:** E120904-48
Station ID: WTRP51 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 11:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-51-SF-FY **Lab ID:** E120904-49
Station ID: WTRP51 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.0		mg/kg dry	0.25	3/19/12 10:45	3/20/12 18:57	EPA 200.8
7440-47-3	Chromium	9.5		mg/kg dry	0.50	3/19/12 10:25	3/21/12 20:01	EPA 6010
7440-50-8	Copper	17		mg/kg dry	1.0	3/19/12 10:25	3/21/12 20:01	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-51-SF-FY **Lab ID:** E120904-49
Station ID: WTRP51 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	78		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-52-SF-BY **Lab ID:** E120904-50
Station ID: WTRP52 **Matrix:** Surface Soil

Date Collected: 2/27/12 16:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U	mg/kg dry	5.5	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	2.0		mg/kg dry	0.25	3/19/12 10:45	3/20/12 19:18	EPA 200.8
7440-47-3	Chromium	9.6		mg/kg dry	0.49	3/19/12 10:25	3/21/12 20:09	EPA 6010
7440-50-8	Copper	15		mg/kg dry	0.98	3/19/12 10:25	3/21/12 20:09	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-52-SF-BY
Lab ID: E120904-50
Station ID: WTRP52
Matrix: Surface Soil

Date Collected: 2/27/12 16:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-52-SF-FY **Lab ID:** E120904-51
Station ID: WTRP52 **Matrix:** Surface Soil

Date Collected: 2/27/12 16:08

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U, QM-1	mg/kg dry	5.5	3/02/12 10:11	3/05/12 16:17	SM 3500 Cr
7440-38-2	Arsenic	0.88		mg/kg dry	0.25	3/19/12 10:45	3/20/12 19:28	EPA 200.8
7440-47-3	Chromium	4.0		mg/kg dry	0.50	3/19/12 10:25	3/21/12 20:17	EPA 6010
7440-50-8	Copper	4.8		mg/kg dry	1.0	3/19/12 10:25	3/21/12 20:17	EPA 6010

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Physical Properties

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Sample ID: WT-RP-52-SF-FY **Lab ID:** E120904-51
Station ID: WTRP52 **Matrix:** Surface Soil

Date Collected: 2/27/12 16:08

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Sample ID: WT-RP-53-SB-BY **Lab ID:** E120904-52
Station ID: WTRP53 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 9:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.27	U, B-2	mg/kg dry	0.27	3/19/12 10:45	3/20/12 19:38	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.25	3/19/12 10:45	3/20/12 19:38	EPA 200.8
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/19/12 10:25	3/21/12 20:24	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-53-SB-BY
Lab ID: E120904-52
Station ID: WTRP53
Matrix: Subsurface Soil

Date Collected: 2/28/12 9:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Sample ID: WT-RP-53-SB-FY **Lab ID:** E120904-53
Station ID: WTRP53 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/19/12 10:45	3/20/12 19:54	EPA 200.8
7440-47-3	Chromium	2.6		mg/kg dry	0.49	3/19/12 10:25	3/21/12 20:45	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/19/12 10:25	3/21/12 20:45	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-53-SB-FY
Lab ID: E120904-53
Station ID: WTRP53
Matrix: Subsurface Soil

Date Collected: 2/28/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-53-SF-BY **Lab ID:** E120904-54
Station ID: WTRP53 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.9		mg/kg dry	0.25	3/19/12 10:45	3/20/12 19:59	EPA 200.8
7440-47-3	Chromium	7.6		mg/kg dry	0.50	3/19/12 10:25	3/21/12 21:20	EPA 6010
7440-50-8	Copper	13		mg/kg dry	1.0	3/19/12 10:25	3/21/12 21:20	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-53-SF-BY
Lab ID: E120904-54
Station ID: WTRP53
Matrix: Surface Soil

Date Collected: 2/28/12 9:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-53-SF-FY **Lab ID:** E120904-55
Station ID: WTRP53 **Matrix:** Surface Soil

Date Collected: 2/28/12 9:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.0		mg/kg dry	0.25	3/19/12 10:45	3/20/12 20:19	EPA 200.8
7440-47-3	Chromium	5.0		mg/kg dry	0.50	3/19/12 10:25	3/21/12 21:28	EPA 6010
7440-50-8	Copper	7.6		mg/kg dry	0.99	3/19/12 10:25	3/21/12 21:28	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-53-SF-FY
Lab ID: E120904-55
Station ID: WTRP53
Matrix: Surface Soil

Date Collected: 2/28/12 9:13

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SB-BY **Lab ID:** E120904-56
Station ID: WTRP54 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/19/12 10:45	3/20/12 20:29	EPA 200.8
7440-47-3	Chromium	2.1		mg/kg dry	0.25	3/19/12 10:45	3/20/12 20:29	EPA 200.8
7440-50-8	Copper	3.0		mg/kg dry	1.0	3/19/12 10:25	3/21/12 21:36	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SB-BY
Lab ID: E120904-56
Station ID: WTRP54
Matrix: Subsurface Soil

Date Collected: 2/27/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SB-FY **Lab ID:** E120904-57
Station ID: WTRP54 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 15:24

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.33		mg/kg dry	0.25	3/19/12 10:45	3/20/12 20:34	EPA 200.8
7440-47-3	Chromium	3.1		mg/kg dry	0.50	3/19/12 10:25	3/21/12 21:41	EPA 6010
7440-50-8	Copper	1.0	U	mg/kg dry	1.0	3/19/12 10:25	3/21/12 21:41	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SB-FY
Lab ID: E120904-57
Station ID: WTRP54
Matrix: Subsurface Soil

Date Collected: 2/27/12 15:24

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SF-BY **Lab ID:** E120904-58
Station ID: WTRP54 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:36

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.0		mg/kg dry	0.25	3/19/12 10:45	3/20/12 20:40	EPA 200.8
7440-47-3	Chromium	6.8		mg/kg dry	0.50	3/19/12 10:25	3/21/12 21:47	EPA 6010
7440-50-8	Copper	88		mg/kg dry	0.99	3/19/12 10:25	3/21/12 21:47	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SF-BY
Lab ID: E120904-58
Station ID: WTRP54
Matrix: Surface Soil

Date Collected: 2/27/12 15:36

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SF-FY **Lab ID:** E120904-59
Station ID: WTRP54 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:16

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.79		mg/kg dry	0.25	3/19/12 10:45	3/20/12 20:50	EPA 200.8
7440-47-3	Chromium	11		mg/kg dry	0.49	3/19/12 10:25	3/21/12 21:55	EPA 6010
7440-50-8	Copper	11		mg/kg dry	0.99	3/19/12 10:25	3/21/12 21:55	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-54-SF-FY **Lab ID:** E120904-59
Station ID: WTRP54 **Matrix:** Surface Soil

Date Collected: 2/27/12 15:16

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SB-BY **Lab ID:** E120904-60
Station ID: WTRP55 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.26	U, B-2	mg/kg dry	0.26	3/19/12 10:45	3/20/12 21:00	EPA 200.8
7440-47-3	Chromium	1.8		mg/kg dry	0.25	3/19/12 10:45	3/20/12 21:00	EPA 200.8
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/19/12 10:25	3/21/12 22:02	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SB-BY
Lab ID: E120904-60
Station ID: WTRP55
Matrix: Subsurface Soil

Date Collected: 2/27/12 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SB-FY **Lab ID:** E120904-61
Station ID: WTRP55 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 11:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/19/12 10:45	3/20/12 21:05	EPA 200.8
7440-47-3	Chromium	1.8		mg/kg dry	0.25	3/19/12 10:45	3/20/12 21:05	EPA 200.8
7440-50-8	Copper	0.98	U	mg/kg dry	0.98	3/19/12 10:25	3/21/12 22:08	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SB-FY
Lab ID: E120904-61
Station ID: WTRP55
Matrix: Subsurface Soil

Date Collected: 2/27/12 11:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/05/12 19:14	3/06/12 14:13	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SF-BY **Lab ID:** E120904-62
Station ID: WTRP55 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.0	U	mg/kg dry	4.0	3/13/12 15:45	3/17/12 16:26	SM 3500 Cr
7440-38-2	Arsenic	2.0		mg/kg dry	0.25	3/19/12 10:54	3/21/12 15:23	EPA 200.8
7440-47-3	Chromium	6.2		mg/kg dry	0.49	3/19/12 10:50	3/21/12 12:00	EPA 6010
7440-50-8	Copper	7.9		mg/kg dry	0.98	3/19/12 10:50	3/21/12 12:00	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SF-BY **Lab ID:** E120904-62
Station ID: WTRP55 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SF-FY **Lab ID:** E120904-63
Station ID: WTRP55 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:24

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	3.5	U, QM-1, QM-2	mg/kg dry	3.5	3/13/12 15:45	3/17/12 16:26	SM 3500 Cr
7440-38-2	Arsenic	3.1		mg/kg dry	0.25	3/19/12 10:54	3/21/12 15:42	EPA 200.8
7440-47-3	Chromium	10		mg/kg dry	0.49	3/19/12 10:50	3/21/12 12:21	EPA 6010
7440-50-8	Copper	14		mg/kg dry	0.99	3/19/12 10:50	3/21/12 12:21	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-55-SF-FY **Lab ID:** E120904-63
Station ID: WTRP55 **Matrix:** Surface Soil

Date Collected: 2/27/12 11:24

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SB-BY **Lab ID:** E120904-64
Station ID: WTRP59 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/19/12 10:54	3/21/12 15:49	EPA 200.8
7440-47-3	Chromium	1.0		mg/kg dry	0.49	3/19/12 10:50	3/21/12 12:29	EPA 6010
7440-50-8	Copper	2.0		mg/kg dry	0.99	3/19/12 10:50	3/21/12 12:29	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SB-BY
Lab ID: E120904-64
Station ID: WTRP59
Matrix: Subsurface Soil

Date Collected: 2/27/12 9:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SB-FY **Lab ID:** E120904-65
Station ID: WTRP59 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:16

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25		mg/kg dry	0.25	3/19/12 10:54	3/21/12 15:55	EPA 200.8
7440-47-3	Chromium	2.0		mg/kg dry	0.50	3/19/12 10:50	3/21/12 12:34	EPA 6010
7440-50-8	Copper	1.0		mg/kg dry	1.0	3/19/12 10:50	3/21/12 12:34	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SB-FY **Lab ID:** E120904-65
Station ID: WTRP59 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 9:16

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	100		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SF-BY **Lab ID:** E120904-66
Station ID: WTRP59 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.0		mg/kg dry	0.25	3/19/12 10:54	3/21/12 16:15	EPA 200.8
7440-47-3	Chromium	6.4		mg/kg dry	0.49	3/19/12 10:50	3/21/12 13:09	EPA 6010
7440-50-8	Copper	15		mg/kg dry	0.99	3/19/12 10:50	3/21/12 13:09	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SF-BY
Lab ID: E120904-66
Station ID: WTRP59
Matrix: Surface Soil

Date Collected: 2/27/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SF-FY **Lab ID:** E120904-67
Station ID: WTRP59 **Matrix:** Surface Soil

Date Collected: 2/27/12 8:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.1		mg/kg dry	0.25	3/19/12 10:54	3/21/12 16:21	EPA 200.8
7440-47-3	Chromium	4.0		mg/kg dry	0.49	3/19/12 10:50	3/21/12 13:17	EPA 6010
7440-50-8	Copper	7.4		mg/kg dry	0.98	3/19/12 10:50	3/21/12 13:17	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SF-FY **Lab ID:** E120904-67
Station ID: WTRP59 **Matrix:** Surface Soil

Date Collected: 2/27/12 8:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SF-FY-DUP **Lab ID:** E120904-68
Station ID: WTRP59 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:27

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.96		mg/kg dry	0.25	3/19/12 10:54	3/21/12 16:27	EPA 200.8
7440-47-3	Chromium	3.6		mg/kg dry	0.49	3/19/12 10:50	3/21/12 13:25	EPA 6010
7440-50-8	Copper	6.1		mg/kg dry	0.99	3/19/12 10:50	3/21/12 13:25	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-59-SF-FY-DUP **Lab ID:** E120904-68
Station ID: WTRP59 **Matrix:** Surface Soil

Date Collected: 2/27/12 9:27

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-66-SB-BY **Lab ID:** E120904-69
Station ID: WTRP66 **Matrix:** Subsurface Soil

Date Collected: 2/27/12 10:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.33		mg/kg dry	0.25	3/19/12 10:54	3/21/12 16:34	EPA 200.8
7440-47-3	Chromium	1.9		mg/kg dry	0.50	3/19/12 10:50	3/21/12 13:32	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/19/12 10:50	3/21/12 13:32	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-66-SB-BY
Lab ID: E120904-69
Station ID: WTRP66
Matrix: Subsurface Soil

Date Collected: 2/27/12 10:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-66-SF-BY **Lab ID:** E120904-70
Station ID: WTRP66 **Matrix:** Surface Soil

Date Collected: 2/27/12 10:33

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.6		mg/kg dry	0.25	3/19/12 10:54	3/21/12 16:40	EPA 200.8
7440-47-3	Chromium	8.5		mg/kg dry	0.50	3/19/12 10:50	3/21/12 13:38	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.99	3/19/12 10:50	3/21/12 13:38	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-66-SF-BY **Lab ID:** E120904-70
Station ID: WTRP66 **Matrix:** Surface Soil

Date Collected: 2/27/12 10:33

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-67-SB-BY **Lab ID:** E120904-71
Station ID: WTRP67 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 10:26

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.38		mg/kg dry	0.25	3/19/12 10:54	3/21/12 16:47	EPA 200.8
7440-47-3	Chromium	2.4		mg/kg dry	0.50	3/19/12 10:50	3/21/12 13:43	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/19/12 10:50	3/21/12 13:43	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-67-SB-BY **Lab ID:** E120904-71
Station ID: WTRP67 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 10:26

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-67-SF-BY **Lab ID:** E120904-72
Station ID: WTRP67 **Matrix:** Surface Soil

Date Collected: 2/28/12 10:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.6		mg/kg dry	0.25	3/19/12 10:54	3/21/12 16:53	EPA 200.8
7440-47-3	Chromium	4.1		mg/kg dry	0.50	3/19/12 10:50	3/21/12 13:48	EPA 6010
7440-50-8	Copper	5.7		mg/kg dry	0.99	3/19/12 10:50	3/21/12 13:48	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-67-SF-BY
Lab ID: E120904-72
Station ID: WTRP67
Matrix: Surface Soil

Date Collected: 2/28/12 10:18

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203008 - M Hex Chrome in Solids 3060										
Blank (1203008-BLK1)				Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1203008-BLK2)				Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	U	4.9	mg/kg wet							U
LCS (1203008-BS1)				Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	45.650	5.0	mg/kg wet	50.000		91.3	80-120			
LCS (1203008-BS2)				Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	170290	47000	mg/kg wet	160900		106	80-120			
Duplicate (1203008-DUP1)		**Source: E120904-51**		Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	0.99964	5.5	mg/kg dry		1.8349			58.9	20	XD-2, U
Matrix Spike (1203008-MS1)		**Source: E120904-51**		Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	60.935	5.5	mg/kg dry	109.05	1.8349	54.2	75-125			QM-1
Matrix Spike (1203008-MS2)		**Source: E120904-51**		Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	1403.3	110	mg/kg dry	2771.4	1.8349	50.6	75-125			QM-1
Matrix Spike (1203008-MS3)		**Source: E120904-51**		Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	126.23	5.4	mg/kg dry	108.62	1.8349	115	75-125			
MRL Verification (1203008-PS1)				Prepared: 03/02/12 Analyzed: 03/05/12						
SM 3500 Cr										
Chromium, Hexavalent	4.4630	5.0	mg/kg wet	5.0000		89.3	60-140			MRL-3, U
Batch 1203011 - M Hex Chrome in Solids 3060										

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (1203011-BLK1)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1203011-BLK2)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	U	3.8	mg/kg wet							U
LCS (1203011-BS1)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	51.891	5.0	mg/kg wet	50.000		104	80-120			
LCS (1203011-BS2)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	154630	17000	mg/kg wet	160900		96.1	80-120			
Duplicate (1203011-DUP1)	**Source: E120904-63**			Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	3.4535	3.6	mg/kg dry		U				20	U
Matrix Spike (1203011-MS1)	**Source: E120904-63**			Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	2.0161	3.1	mg/kg dry	62.341	U	3.23	75-125			QM-1, U
Matrix Spike (1203011-MS2)	**Source: E120904-63**			Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	636.46	74	mg/kg dry	1413.8	U	45.0	75-125			QM-1
Matrix Spike (1203011-MS3)	**Source: E120904-63**			Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	85.318	7.1	mg/kg dry	71.241	U	120	75-125			QM-2
MRL Verification (1203011-PS1)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	4.8100	5.0	mg/kg wet	5.0000		96.2	60-140			MRL-3, U

Batch 1203080 - M Hex Chrome in Solids 3060

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203080 - M Hex Chrome in Solids 3060										
Blank (1203080-BLK1)				Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1203080-BLK2)				Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	U	4.9	mg/kg wet							U
LCS (1203080-BS1)				Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	52.535	5.0	mg/kg wet	50.000		105	80-120			
LCS (1203080-BS2)				Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	138130	18000	mg/kg wet	160900		85.8	80-120			
Duplicate (1203080-DUP1)	**Source: E121009-13**			Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.3	mg/kg dry		1.0452				20	U
Matrix Spike (1203080-MS1)	**Source: E121009-13**			Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	31.718	5.2	mg/kg dry	104.74	1.0452	29.3	75-125			QM-1
Matrix Spike (1203080-MS2)	**Source: E121009-13**			Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	771.34	75	mg/kg dry	1223.4	1.0452	63.0	75-125			QM-1
Matrix Spike (1203080-MS3)	**Source: E121009-13**			Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	99.135	5.2	mg/kg dry	103.58	1.0452	94.7	75-125			
MRL Verification (1203080-PS1)				Prepared: 03/27/12 Analyzed: 03/28/12						
SM 3500 Cr										
Chromium, Hexavalent	4.3440	5.0	mg/kg wet	5.0000		86.9	60-140			MRL-3, U
Batch 1203090 - M 200.2 Metals Soil										

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203090 - M 200.2 Metals Soil										
Blank (1203090-BLK1)				Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
Blank (1203090-BLK2)				Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
LCS (1203090-BS1)				Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	52.016	5.0	mg/kg dry	50.000		104	85-115			
Chromium	51.929	0.50	"	50.000		104	85-115			
Copper	29.860	1.0	"	30.000		99.5	85-115			
Matrix Spike (1203090-MS1)	**Source: E120904-05**			Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	51.638	5.0	mg/kg dry	49.771	U	104	75-125			
Chromium	53.327	0.50	"	49.771	1.5878	104	75-125			
Copper	31.350	1.0	"	29.863	1.3329	101	75-125			
Matrix Spike (1203090-MS2)	**Source: E120904-17**			Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	84.425	5.0	mg/kg dry	49.574	35.060	99.6	75-125			
Chromium	81.517	0.50	"	49.574	29.888	104	75-125			
Copper	101.78	0.99	"	29.744	81.783	67.2	75-125			QM-1
Matrix Spike Dup (1203090-MSD1)	**Source: E120904-05**			Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	50.344	4.9	mg/kg dry	49.417	U	102	75-125	2.54	20	
Chromium	51.465	0.49	"	49.417	1.5878	101	75-125	3.55	20	
Copper	31.170	0.99	"	29.650	1.3329	101	75-125	0.575	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203090 - M 200.2 Metals Soil										
Matrix Spike Dup (1203090-MSD2)	**Source: E120904-17**			Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	86.141	5.0	mg/kg dry	49.662	35.060	103	75-125	2.01	20	
Chromium	78.279	0.50	"	49.662	29.888	97.4	75-125	4.05	20	
Copper	106.99	0.99	"	29.797	81.783	84.6	75-125	4.99	20	
MRL Verification (1203090-PS1)				Prepared: 03/15/12 Analyzed: 03/17/12						
EPA 6010										
Arsenic	4.3682	5.0	mg/kg dry	5.0000		87.4	70-130			MRL-3, U
Chromium	0.46883	0.50	"	0.50000		93.8	70-130			MRL-3, U
Copper	1.0413	1.0	"	1.0000		104	70-130			MRL-3
Batch 1203091 - M 200.2 Metals Soil										
Blank (1203091-BLK1)				Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Blank (1203091-BLK2)				Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
LCS (1203091-BS1)				Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	52.304	5.0	mg/kg dry	50.000		105	85-115			
Matrix Spike (1203091-MS1)	**Source: E120904-05**			Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	52.603	5.0	mg/kg dry	49.771	0.31146	105	70-130			
Matrix Spike (1203091-MS2)	**Source: E120904-17**			Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	81.138	5.0	mg/kg dry	49.574	30.494	102	70-130			
Matrix Spike Dup (1203091-MSD1)	**Source: E120904-05**			Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	52.755	4.9	mg/kg dry	49.417	0.31146	106	70-130	0.288	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203091 - M 200.2 Metals Soil										
Matrix Spike Dup (1203091-MSD1)	**Source: E120904-05**			Prepared: 03/15/12 Analyzed: 03/19/12						
Matrix Spike Dup (1203091-MSD2)	**Source: E120904-17**			Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	87.917	5.0	mg/kg dry	49.662	30.494	116	70-130	8.02	20	
MRL Verification (1203091-PS1)				Prepared: 03/15/12 Analyzed: 03/19/12						
EPA 200.8										
Arsenic	0.12107	0.10	mg/kg dry	0.10000		121	65-135			MRL-3
Batch 1203098 - M 200.2 Metals Soil										
Blank (1203098-BLK1)				Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
Blank (1203098-BLK2)				Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
LCS (1203098-BS1)				Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	50.519	0.50	mg/kg dry	50.000		101	85-115			
Copper	31.001	1.0	"	30.000		103	85-115			
Matrix Spike (1203098-MS1)	**Source: E120904-22**			Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	65.070	0.50	mg/kg dry	49.751	6.4521	118	75-125			
Copper	47.041	1.0	"	29.851	9.7348	125	75-125			
Matrix Spike (1203098-MS2)	**Source: E120904-32**			Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	55.162	0.50	mg/kg dry	49.960	2.4794	105	75-125			
Copper	37.894	1.0	"	29.976	5.2492	109	75-125			

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203098 - M 200.2 Metals Soil										
Matrix Spike Dup (1203098-MSD1)	**Source: E120904-22**			Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	60.770	0.50	mg/kg dry	49.771	6.4521	109	75-125	6.83	20	
Copper	42.083	1.0	"	29.863	9.7348	108	75-125	11.1	20	
Matrix Spike Dup (1203098-MSD2)	**Source: E120904-32**			Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	87.625	0.50	mg/kg dry	49.811	2.4794	171	75-125	45.5	20	QM-2, QM-3
Copper	42.640	1.0	"	29.886	5.2492	125	75-125	11.8	20	
MRL Verification (1203098-PS1)				Prepared: 03/16/12 Analyzed: 03/19/12						
EPA 6010										
Chromium	0.47074	0.50	mg/kg dry	0.50000		94.1	70-130			MRL-3, U
Copper	1.0112	1.0	"	1.0000		101	70-130			MRL-3
Batch 1203099 - M 200.2 Metals Soil										
Blank (1203099-BLK1)				Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Blank (1203099-BLK2)				Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
LCS (1203099-BS1)				Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	49.549	1.0	mg/kg dry	50.000		99.1	85-115			
Matrix Spike (1203099-MS1)	**Source: E120904-22**			Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	50.244	1.0	mg/kg dry	49.751	1.9670	97.0	70-130			
Matrix Spike (1203099-MS2)	**Source: E120904-32**			Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	48.710	1.0	mg/kg dry	49.960	0.60754	96.3	70-130			

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Total Metals (TMTL) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203099 - M 200.2 Metals Soil										
Matrix Spike Dup (1203099-MSD1)	**Source: E120904-22**			Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	50.947	1.0	mg/kg dry	49.771	1.9670	98.4	70-130	1.39	20	
Matrix Spike Dup (1203099-MSD2)	**Source: E120904-32**			Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	51.412	1.0	mg/kg dry	49.811	0.60754	102	70-130	5.40	20	
MRL Verification (1203099-PS1)				Prepared: 03/16/12 Analyzed: 03/20/12						
EPA 200.8										
Arsenic	0.085763	0.10	mg/kg dry	0.10000		85.8	65-135			MRL-3, U
Batch 1203105 - M 200.2 Metals Soil										
Blank (1203105-BLK1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
Blank (1203105-BLK2)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
LCS (1203105-BS1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	49.518	0.50	mg/kg dry	50.000		99.0	85-115			
Copper	29.491	1.0	"	30.000		98.3	85-115			
Matrix Spike (1203105-MS1)	**Source: E120904-42**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	52.600	0.50	mg/kg dry	49.652	2.7850	100	75-125			
Copper	36.338	0.99	"	29.791	7.3381	97.3	75-125			
Matrix Spike (1203105-MS2)	**Source: E120904-52**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	53.511	0.50	mg/kg dry	49.584	2.4995	103	75-125			
Copper	30.818	0.99	"	29.750	0.52258	102	75-125			

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Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203105 - M 200.2 Metals Soil										
Matrix Spike (1203105-MS2)	**Source: E120904-52**			Prepared: 03/19/12 Analyzed: 03/21/12						
Matrix Spike Dup (1203105-MSD1)	**Source: E120904-42**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	52.651	0.49	mg/kg dry	49.427	2.7850	101	75-125	0.0969	20	
Copper	37.604	0.99	"	29.656	7.3381	102	75-125	3.42	20	
Matrix Spike Dup (1203105-MSD2)	**Source: E120904-52**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	52.383	0.49	mg/kg dry	49.126	2.4995	102	75-125	2.13	20	
Copper	30.181	0.98	"	29.475	0.52258	101	75-125	2.09	20	
MRL Verification (1203105-PS1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	0.67593	0.50	mg/kg dry	0.50000		135	70-130			MRL-3, QR-2
Copper	0.91145	1.0	"	1.0000		91.1	70-130			MRL-3, U
Batch 1203106 - M 200.2 Metals Soil										
Blank (1203106-BLK1)				Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							B-3, U
Arsenic	U	0.10	"							U
Blank (1203106-BLK2)				Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							B-3, U
Arsenic	U	0.10	"							B-4, U
LCS (1203106-BS1)				Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	53.402	5.0	mg/kg dry	50.000		107	85-115			
Arsenic	52.507	5.0	"	50.000		105	85-115			

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Total Metals (TMTL) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203106 - M 200.2 Metals Soil										
Matrix Spike (1203106-MS1)	**Source: E120904-42**			Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	53.421	5.0	mg/kg dry	49.652	2.8629	102	70-130			
Arsenic	51.409	5.0	"	49.652	0.75663	102	70-130			
Matrix Spike (1203106-MS2)	**Source: E120904-52**			Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	53.009	5.0	mg/kg dry	49.584	2.2065	102	70-130			
Arsenic	50.466	5.0	"	49.584	0.25849	101	70-130			
Matrix Spike Dup (1203106-MSD1)	**Source: E120904-42**			Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	56.846	4.9	mg/kg dry	49.427	2.8629	109	70-130	6.21	20	
Arsenic	53.846	4.9	"	49.427	0.75663	107	70-130	4.63	20	
Matrix Spike Dup (1203106-MSD2)	**Source: E120904-52**			Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	54.282	4.9	mg/kg dry	49.126	2.2065	106	70-130	2.37	20	
Arsenic	48.127	4.9	"	49.126	0.25849	97.4	70-130	4.74	20	
MRL Verification (1203106-PS1)				Prepared: 03/19/12 Analyzed: 03/20/12						
EPA 200.8										
Chromium	0.17002	0.10	mg/kg dry	0.10000		170	65-135			MRL-3, QR-2
Arsenic	0.11120	0.10	"	0.10000		111	65-135			MRL-3
Batch 1203107 - M 200.2 Metals Soil										
Blank (1203107-BLK1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
Blank (1203107-BLK2)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203107 - M 200.2 Metals Soil										
LCS (1203107-BS1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	49.751	0.50	mg/kg dry	50.000		99.5	85-115			
Copper	29.656	1.0	"	30.000		98.9	85-115			
Matrix Spike (1203107-MS1)		**Source: E120904-62**		Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	55.785	0.49	mg/kg dry	49.476	6.1954	100	75-125			
Copper	37.282	0.99	"	29.685	7.9488	98.8	75-125			
Matrix Spike (1203107-MS2)		**Source: E120904-72**		Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	56.298	0.50	mg/kg dry	49.662	4.0855	105	75-125			
Copper	36.324	0.99	"	29.797	5.6844	103	75-125			
Matrix Spike Dup (1203107-MSD1)		**Source: E120904-62**		Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	55.194	0.50	mg/kg dry	49.920	6.1954	98.2	75-125	1.07	20	
Copper	36.437	1.0	"	29.952	7.9488	95.1	75-125	2.29	20	
Matrix Spike Dup (1203107-MSD2)		**Source: E120904-72**		Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	56.643	0.50	mg/kg dry	49.712	4.0855	106	75-125	0.611	20	
Copper	36.091	0.99	"	29.827	5.6844	102	75-125	0.644	20	
MRL Verification (1203107-PS1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 6010										
Chromium	0.48220	0.50	mg/kg dry	0.50000		96.4	70-130			MRL-3, U
Copper	0.84670	1.0	"	1.0000		84.7	70-130			MRL-3, U
Batch 1203108 - M 200.2 Metals Soil										
Blank (1203108-BLK1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203108 - M 200.2 Metals Soil										
Blank (1203108-BLK2)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
LCS (1203108-BS1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	49.983	1.0	mg/kg dry	50.000		100	85-115			
Matrix Spike (1203108-MS1)	**Source: E120904-62**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	50.507	0.99	mg/kg dry	49.476	2.0118	98.0	70-130			
Matrix Spike (1203108-MS2)	**Source: E120904-72**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	48.858	0.99	mg/kg dry	49.662	1.6199	95.1	70-130			
Matrix Spike Dup (1203108-MSD1)	**Source: E120904-62**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	51.353	1.0	mg/kg dry	49.920	2.0118	98.8	70-130	1.66	20	
Matrix Spike Dup (1203108-MSD2)	**Source: E120904-72**			Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	48.981	0.99	mg/kg dry	49.712	1.6199	95.3	70-130	0.250	20	
MRL Verification (1203108-PS1)				Prepared: 03/19/12 Analyzed: 03/21/12						
EPA 200.8										
Arsenic	0.12267	0.10	mg/kg dry	0.10000		123	65-135			MRL-3
Batch 1203193 - M 200.2 Metals Soil										
Blank (1203193-BLK1)				Prepared: 03/29/12 Analyzed: 04/05/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203193 - M 200.2 Metals Soil										
Blank (1203193-BLK2)				Prepared: 03/29/12 Analyzed: 04/05/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
LCS (1203193-BS1)				Prepared: 03/29/12 Analyzed: 04/05/12						
EPA 6010										
Arsenic	48.573	5.0	mg/kg dry	50.000		97.1	85-115			
Chromium	48.171	0.50	"	50.000		96.3	85-115			
Copper	29.613	1.0	"	30.000		98.7	85-115			
Matrix Spike (1203193-MS1)	**Source: E120904-01**			Prepared: 03/29/12 Analyzed: 04/05/12						
EPA 6010										
Arsenic	86.017	9.9	mg/kg dry	49.712	41.591	89.4	75-125			
Chromium	143.30	0.99	"	49.712	108.43	70.1	75-125			QM-1
Copper	86.571	2.0	"	29.827	62.985	79.1	75-125			
Matrix Spike Dup (1203193-MSD1)	**Source: E120904-01**			Prepared: 03/29/12 Analyzed: 04/05/12						
EPA 6010										
Arsenic	83.210	9.8	mg/kg dry	49.029	41.591	84.9	75-125	3.32	20	
Chromium	135.85	0.98	"	49.029	108.43	55.9	75-125	5.34	20	QM-1
Copper	81.842	2.0	"	29.418	62.985	64.1	75-125	5.62	20	QM-1
MRL Verification (1203193-PS1)				Prepared: 03/29/12 Analyzed: 04/05/12						
EPA 6010										
Arsenic	4.6904	5.0	mg/kg dry	5.0000		93.8	70-130			MRL-3, U
Chromium	0.50248	0.50	"	0.50000		100	70-130			MRL-3
Copper	1.0668	1.0	"	1.0000		107	70-130			MRL-3
Batch 1203194 - M 200.2 Metals Soil										
Blank (1203194-BLK1)				Prepared: 03/29/12 Analyzed: 04/12/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							U

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203194 - M 200.2 Metals Soil										
Blank (1203194-BLK2)				Prepared: 03/29/12 Analyzed: 04/12/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							B-4, U
LCS (1203194-BS1)				Prepared: 03/29/12 Analyzed: 04/12/12						
EPA 200.8										
Arsenic	58.061	5.0	mg/kg dry	50.000		116	85-115			QL-2
Matrix Spike (1203194-MS1)		**Source: E120904-01**		Prepared: 03/29/12 Analyzed: 04/12/12						
EPA 200.8										
Arsenic	95.871	5.0	mg/kg dry	49.712	43.527	105	70-130			
Matrix Spike Dup (1203194-MSD1)		**Source: E120904-01**		Prepared: 03/29/12 Analyzed: 04/12/12						
EPA 200.8										
Arsenic	89.437	4.9	mg/kg dry	49.029	43.527	93.6	70-130	6.94	20	

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Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203014 - M % Solids										
Duplicate (1203014-DUP1)		**Source: E120904-07**		Prepared: 03/02/12 Analyzed: 03/04/12						
EPA 200.2										
% Solids	89.596	0.0	%		89.782			0.207	10	
Batch 1203021 - M % Solids										
Duplicate (1203021-DUP1)		**Source: E120904-24**		Prepared: 03/05/12 Analyzed: 03/06/12						
EPA 200.2										
% Solids	96.422	0.0	%		96.716			0.304	10	
Batch 1203022 - M % Solids										
Duplicate (1203022-DUP1)		**Source: E120904-54**		Prepared: 03/05/12 Analyzed: 03/06/12						
EPA 200.2										
% Solids	86.157	0.0	%		85.231			1.08	10	
Batch 1203046 - M % Solids										
Duplicate (1203046-DUP1)		**Source: E120904-70**		Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 200.2										
% Solids	88.594	0.0	%		88.300			0.332	10	
Batch 1203117 - M % Solids										
Duplicate (1203117-DUP1)		**Source: E121010-12**		Prepared: 03/18/12 Analyzed: 03/19/12						
EPA 200.2										
% Solids	83.826	0.0	%		83.589			0.283	10	

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs.
MRL-3	MRL verification for Soil matrix
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.
XD-2	Duplicate results less than 5X MRL

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April 11, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0209, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section, Acting Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Physical Properties (PHYSP)	
Physical Properties	EPA 200.2
Total Metals (TMTL)	
Speciated Metals	SM 3500 Cr
Total Metals	EPA 200.8
Total Metals	EPA 6010

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Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WT-G01-DD-SF	E121006-02	Surface Soil	2/23/12 14:10	2/28/12 9:45
WT-G01-PF-SF	E121006-04	Surface Soil	2/23/12 14:35	2/28/12 9:45
WT-G02-DD-SF	E121006-06	Surface Soil	2/23/12 15:15	2/28/12 9:45
WT-G02-PF-SF	E121006-08	Surface Soil	2/23/12 14:35	2/28/12 9:45
WT-G03-DD-SB	E121006-09	Subsurface Soil	2/24/12 08:05	2/28/12 9:45
WT-G03-PF-SB	E121006-13	Subsurface Soil	2/24/12 08:20	2/28/12 9:45
WT-G04-PF-01-SB	E121006-15	Subsurface Soil	2/24/12 08:45	2/28/12 9:45
WT-G05-DD-SF	E121006-20	Surface Soil	2/24/12 09:30	2/28/12 9:45
WT-G05-PF-SB	E121006-21	Subsurface Soil	2/24/12 09:50	2/28/12 9:45
WT-G05-PF-SF	E121006-22	Surface Soil	2/24/12 09:45	2/28/12 9:45
WT-G06-PF-SF	E121006-26	Surface Soil	2/24/12 15:30	2/28/12 9:45
WT-G07-DD-SB	E121006-27	Subsurface Soil	2/24/12 16:06	2/28/12 9:45
WT-G07-DD-SF	E121006-28	Surface Soil	2/24/12 16:00	2/28/12 9:45
WT-G07-PF-SB	E121006-29	Subsurface Soil	2/24/12 16:07	2/28/12 9:45
WT-G07-PF-SF	E121006-30	Surface Soil	2/24/12 16:05	2/28/12 9:45
WT-G08-DD-01-SF	E121006-32	Surface Soil	2/24/12 16:40	2/28/12 9:45
WT-G08-DD-02-SB	E121006-33	Subsurface Soil	2/24/12 16:55	2/28/12 9:45
WT-G08-PF-SF	E121006-36	Surface Soil	2/24/12 16:35	2/28/12 9:45
WT-G09-DD-SB	E121006-37	Subsurface Soil	2/25/12 10:05	2/28/12 9:45
WT-G09-PF-SB	E121006-39	Subsurface Soil	2/25/12 10:10	2/28/12 9:45
WT-G09-PF-SF	E121006-40	Surface Soil	2/25/12 10:00	2/28/12 9:45
WT-G10-DD-01-SB	E121006-41	Subsurface Soil	2/25/12 10:30	2/28/12 9:45
WT-G10-DD-01-SF	E121006-42	Surface Soil	2/25/12 10:20	2/28/12 9:45
WT-G10-DD-02-SB	E121006-43	Subsurface Soil	2/25/12 10:55	2/28/12 9:45
WT-G10-DD-02-SF	E121006-44	Surface Soil	2/25/12 10:45	2/28/12 9:45
WT-G10-DD-03-SF	E121006-46	Surface Soil	2/25/12 11:45	2/28/12 9:45
WT-G10-PF-SF	E121006-48	Surface Soil	2/25/12 10:25	2/28/12 9:45
WT-G11-DD-01-SB	E121006-49	Subsurface Soil	2/25/12 13:25	2/28/12 9:45
WT-G11-DD-01-SF	E121006-50	Surface Soil	2/25/12 13:15	2/28/12 9:45
WT-G11-DD-02-SF	E121006-52	Surface Soil	2/25/12 13:20	2/28/12 9:45
WT-G11-PF-SB	E121006-53	Subsurface Soil	2/25/12 13:30	2/28/12 9:45
WT-G11-PF-SF	E121006-54	Surface Soil	2/25/12 13:23	2/28/12 9:45
WT-G12-DD-01-SB	E121006-55	Subsurface Soil	2/25/12 13:48	2/28/12 9:45
WT-G12-DD-01-SF	E121006-56	Surface Soil	2/25/12 13:45	2/28/12 9:45

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WT-G12-DD-01-SF-DUP	E121006-57	Surface Soil	2/25/12 13:55	2/28/12 9:45
WT-G12-DD-02-SF	E121006-59	Surface Soil	2/25/12 14:25	2/28/12 9:45
WT-G12-PF-01-SB	E121006-60	Subsurface Soil	2/25/12 14:10	2/28/12 9:45
WT-G12-PF-02-SB	E121006-62	Subsurface Soil	2/25/12 14:45	2/28/12 9:45
WT-G13-DD-01-SF	E121006-65	Surface Soil	2/25/12 15:10	2/28/12 9:45
WT-G13-DD-02-SF	E121006-67	Surface Soil	2/25/12 15:20	2/28/12 9:45
WT-G13-PF-SB	E121006-68	Subsurface Soil	2/25/12 15:25	2/28/12 9:45
WT-G13-PF-SF	E121006-69	Surface Soil	2/25/12 15:15	2/28/12 9:45
WT-G14-DD-01-SF	E121006-71	Surface Soil	2/26/12 10:20	2/28/12 9:45
WT-G14-PF-SF	E121006-75	Surface Soil	2/26/12 10:15	2/28/12 9:45
WT-G16-SB	E121006-80	Subsurface Soil	2/24/12 10:50	2/28/12 9:45
WT-G16-SF-DUP	E121006-82	Surface Soil	2/24/12 10:35	2/28/12 9:45

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G01-DD-SF **Lab ID:** E121006-02
Station ID: WTG01 **Matrix:** Surface Soil

Date Collected: 2/23/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U	mg/kg dry	5.5	3/07/12 8:17	3/08/12 17:02	SM 3500 Cr
7440-38-2	Arsenic	85		mg/kg dry	2.5	3/20/12 10:07	3/22/12 16:36	EPA 200.8
7440-47-3	Chromium	460	J, QM-1	mg/kg dry	1.0	3/20/12 9:56	3/23/12 12:51	EPA 6010
7440-50-8	Copper	160	J, QM-3	mg/kg dry	2.0	3/20/12 9:56	3/23/12 12:51	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G01-DD-SF
Lab ID: E121006-02
Station ID: WTG01
Matrix: Surface Soil

Date Collected: 2/23/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G01-PF-SF **Lab ID:** E121006-04
Station ID: WTG01 **Matrix:** Surface Soil

Date Collected: 2/23/12 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	83		mg/kg dry	2.5	3/20/12 10:07	3/22/12 16:50	EPA 200.8
7440-47-3	Chromium	200		mg/kg dry	0.98	3/20/12 9:56	3/23/12 13:52	EPA 6010
7440-50-8	Copper	120		mg/kg dry	2.0	3/20/12 9:56	3/23/12 13:52	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G01-PF-SF **Lab ID:** E121006-04
Station ID: WTG01 **Matrix:** Surface Soil

Date Collected: 2/23/12 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G02-DD-SF **Lab ID:** E121006-06
Station ID: WTG02 **Matrix:** Surface Soil

Date Collected: 2/23/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	45		mg/kg dry	2.5	3/20/12 10:07	3/22/12 16:55	EPA 200.8
7440-47-3	Chromium	360		mg/kg dry	0.50	3/20/12 9:56	3/23/12 14:00	EPA 6010
7440-50-8	Copper	98		mg/kg dry	0.99	3/20/12 9:56	3/23/12 14:00	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G02-DD-SF
Lab ID: E121006-06
Station ID: WTG02
Matrix: Surface Soil

Date Collected: 2/23/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G02-PF-SF **Lab ID:** E121006-08
Station ID: WTG02 **Matrix:** Surface Soil

Date Collected: 2/23/12 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	120		mg/kg dry	5.0	3/20/12 9:56	3/23/12 14:08	EPA 6010
7440-47-3	Chromium	280		mg/kg dry	0.50	3/20/12 9:56	3/23/12 14:08	EPA 6010
7440-50-8	Copper	150		mg/kg dry	0.99	3/20/12 9:56	3/23/12 14:08	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G02-PF-SF
Lab ID: E121006-08
Station ID: WTG02
Matrix: Surface Soil

Date Collected: 2/23/12 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G03-DD-SB **Lab ID:** E121006-09
Station ID: WTG03 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 8:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0		mg/kg dry	0.25	3/20/12 10:07	3/22/12 17:14	EPA 200.8
7440-47-3	Chromium	7.3		mg/kg dry	0.50	3/20/12 9:56	3/23/12 14:15	EPA 6010
7440-50-8	Copper	1.8		mg/kg dry	0.99	3/20/12 9:56	3/23/12 14:15	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G03-DD-SB **Lab ID:** E121006-09
Station ID: WTG03 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 8:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G03-PF-SB
Lab ID: E121006-13
Station ID: WTG03
Matrix: Subsurface Soil

Date Collected: 2/24/12 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	26		mg/kg dry	2.5	3/20/12 10:07	3/22/12 17:19	EPA 200.8
7440-47-3	Chromium	14		mg/kg dry	0.50	3/20/12 9:56	3/23/12 14:23	EPA 6010
7440-50-8	Copper	11		mg/kg dry	0.99	3/20/12 9:56	3/23/12 14:23	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G03-PF-SB **Lab ID:** E121006-13
Station ID: WTG03 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G04-PF-01-SB **Lab ID:** E121006-15
Station ID: WTG04 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	47		mg/kg dry	2.5	3/20/12 10:07	3/22/12 17:23	EPA 200.8
7440-47-3	Chromium	110		mg/kg dry	0.49	3/20/12 9:56	3/23/12 14:31	EPA 6010
7440-50-8	Copper	65		mg/kg dry	0.99	3/20/12 9:56	3/23/12 14:31	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G04-PF-01-SB
Lab ID: E121006-15
Station ID: WTG04
Matrix: Subsurface Soil

Date Collected: 2/24/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-DD-SF **Lab ID:** E121006-20
Station ID: WTG05 **Matrix:** Surface Soil

Date Collected: 2/24/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.0	U	mg/kg dry	6.0	3/07/12 8:17	3/08/12 17:02	SM 3500 Cr
7440-38-2	Arsenic	170		mg/kg dry	5.0	3/20/12 10:07	3/22/12 17:28	EPA 200.8
7440-47-3	Chromium	830		mg/kg dry	0.99	3/20/12 9:56	3/23/12 14:39	EPA 6010
7440-50-8	Copper	320		mg/kg dry	2.0	3/20/12 9:56	3/23/12 14:39	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-DD-SF
Lab ID: E121006-20
Station ID: WTG05
Matrix: Surface Soil

Date Collected: 2/24/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-PF-SB **Lab ID:** E121006-21
Station ID: WTG05 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	20		mg/kg dry	0.50	3/20/12 10:07	3/22/12 17:33	EPA 200.8
7440-47-3	Chromium	100		mg/kg dry	0.50	3/20/12 9:56	3/23/12 14:47	EPA 6010
7440-50-8	Copper	18		mg/kg dry	1.0	3/20/12 9:56	3/23/12 14:47	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-PF-SB
Lab ID: E121006-21
Station ID: WTG05
Matrix: Subsurface Soil

Date Collected: 2/24/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/07/12 17:40	3/08/12 14:57	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-PF-SF **Lab ID:** E121006-22
Station ID: WTG05 **Matrix:** Surface Soil

Date Collected: 2/24/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	200		mg/kg dry	4.9	3/20/12 10:07	3/22/12 17:38	EPA 200.8
7440-47-3	Chromium	560		mg/kg dry	1.5	3/20/12 9:56	3/23/12 14:54	EPA 6010
7440-50-8	Copper	410		mg/kg dry	3.0	3/20/12 9:56	3/23/12 14:54	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G05-PF-SF
Lab ID: E121006-22
Station ID: WTG05
Matrix: Surface Soil

Date Collected: 2/24/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G06-PF-SF **Lab ID:** E121006-26
Station ID: WTG06 **Matrix:** Surface Soil

Date Collected: 2/24/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	180		mg/kg dry	5.0	3/20/12 10:07	3/22/12 17:42	EPA 200.8
7440-47-3	Chromium	610		mg/kg dry	0.99	3/20/12 9:56	3/23/12 15:02	EPA 6010
7440-50-8	Copper	350		mg/kg dry	2.0	3/20/12 9:56	3/23/12 15:02	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G06-PF-SF
Lab ID: E121006-26
Station ID: WTG06
Matrix: Surface Soil

Date Collected: 2/24/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-DD-SB **Lab ID:** E121006-27
Station ID: WTG07 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 16:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.2		mg/kg dry	0.25	3/20/12 10:07	3/22/12 17:47	EPA 200.8
7440-47-3	Chromium	40		mg/kg dry	0.49	3/20/12 9:56	3/23/12 15:40	EPA 6010
7440-50-8	Copper	3.2		mg/kg dry	0.99	3/20/12 9:56	3/23/12 15:40	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-DD-SB **Lab ID:** E121006-27
Station ID: WTG07 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 16:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-DD-SF **Lab ID:** E121006-28
Station ID: WTG07 **Matrix:** Surface Soil

Date Collected: 2/24/12 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.3	U	mg/kg dry	5.3	3/07/12 8:17	3/08/12 17:02	SM 3500 Cr
7440-38-2	Arsenic	130		mg/kg dry	2.5	3/20/12 10:07	3/22/12 17:52	EPA 200.8
7440-47-3	Chromium	740		mg/kg dry	0.98	3/20/12 9:56	3/23/12 15:45	EPA 6010
7440-50-8	Copper	260		mg/kg dry	2.0	3/20/12 9:56	3/23/12 15:45	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-DD-SF
Lab ID: E121006-28
Station ID: WTG07
Matrix: Surface Soil

Date Collected: 2/24/12 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-PF-SB **Lab ID:** E121006-29
Station ID: WTG07 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 16:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	9.1		mg/kg dry	0.25	3/20/12 10:07	3/22/12 17:56	EPA 200.8
7440-47-3	Chromium	29		mg/kg dry	0.49	3/20/12 9:56	3/23/12 15:53	EPA 6010
7440-50-8	Copper	10		mg/kg dry	0.99	3/20/12 9:56	3/23/12 15:53	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-PF-SB
Lab ID: E121006-29
Station ID: WTG07
Matrix: Subsurface Soil

Date Collected: 2/24/12 16:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	97		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-PF-SF **Lab ID:** E121006-30
Station ID: WTG07 **Matrix:** Surface Soil

Date Collected: 2/24/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	110		mg/kg dry	2.5	3/20/12 10:07	3/22/12 18:11	EPA 200.8
7440-47-3	Chromium	250		mg/kg dry	0.98	3/20/12 9:56	3/23/12 15:59	EPA 6010
7440-50-8	Copper	170		mg/kg dry	2.0	3/20/12 9:56	3/23/12 15:59	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G07-PF-SF
Lab ID: E121006-30
Station ID: WTG07
Matrix: Surface Soil

Date Collected: 2/24/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G08-DD-01-SF **Lab ID:** E121006-32
Station ID: WTG08 **Matrix:** Surface Soil

Date Collected: 2/24/12 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	180		mg/kg dry	4.9	3/20/12 10:07	3/22/12 18:15	EPA 200.8
7440-47-3	Chromium	680		mg/kg dry	0.98	3/20/12 9:56	3/23/12 16:06	EPA 6010
7440-50-8	Copper	300		mg/kg dry	2.0	3/20/12 9:56	3/23/12 16:06	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G08-DD-01-SF
Lab ID: E121006-32
Station ID: WTG08
Matrix: Surface Soil

Date Collected: 2/24/12 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G08-DD-02-SB **Lab ID:** E121006-33
Station ID: WTG08 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	13		mg/kg dry	0.25	3/20/12 10:07	3/22/12 18:20	EPA 200.8
7440-47-3	Chromium	77		mg/kg dry	0.49	3/20/12 9:56	3/23/12 16:14	EPA 6010
7440-50-8	Copper	19		mg/kg dry	0.98	3/20/12 9:56	3/23/12 16:14	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G08-DD-02-SB **Lab ID:** E121006-33
Station ID: WTG08 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G08-PF-SF **Lab ID:** E121006-36
Station ID: WTG08 **Matrix:** Surface Soil

Date Collected: 2/24/12 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	110		mg/kg dry	4.9	3/20/12 10:07	3/22/12 18:25	EPA 200.8
7440-47-3	Chromium	250		mg/kg dry	1.5	3/20/12 9:56	3/23/12 16:22	EPA 6010
7440-50-8	Copper	170		mg/kg dry	2.9	3/20/12 9:56	3/23/12 16:22	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G08-PF-SF
Lab ID: E121006-36
Station ID: WTG08
Matrix: Surface Soil

Date Collected: 2/24/12 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G09-DD-SB **Lab ID:** E121006-37
Station ID: WTG09 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.4		mg/kg dry	0.25	3/20/12 10:07	3/22/12 18:30	EPA 200.8
7440-47-3	Chromium	12		mg/kg dry	0.49	3/20/12 9:56	3/23/12 17:07	EPA 6010
7440-50-8	Copper	2.0		mg/kg dry	0.99	3/20/12 9:56	3/23/12 17:07	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G09-DD-SB **Lab ID:** E121006-37
Station ID: WTG09 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G09-PF-SB **Lab ID:** E121006-39
Station ID: WTG09 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	24		mg/kg dry	0.49	3/20/12 10:07	3/22/12 18:39	EPA 200.8
7440-47-3	Chromium	28	J, QM-1	mg/kg dry	0.49	3/20/12 9:56	3/23/12 17:13	EPA 6010
7440-50-8	Copper	11		mg/kg dry	0.99	3/20/12 9:56	3/23/12 17:13	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G09-PF-SB **Lab ID:** E121006-39
Station ID: WTG09 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G09-PF-SF **Lab ID:** E121006-40
Station ID: WTG09 **Matrix:** Surface Soil

Date Collected: 2/25/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	120		mg/kg dry	15	3/20/12 10:39	3/26/12 11:52	EPA 6010
7440-47-3	Chromium	210		mg/kg dry	1.5	3/20/12 10:39	3/26/12 11:52	EPA 6010
7440-50-8	Copper	170	J, QM-1	mg/kg dry	2.9	3/20/12 10:39	3/26/12 11:52	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G09-PF-SF **Lab ID:** E121006-40

Station ID: WTG09 **Matrix:** Surface Soil

Date Collected: 2/25/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-01-SB **Lab ID:** E121006-41
Station ID: WTG10 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	27		mg/kg dry	0.99	3/20/12 10:46	3/22/12 19:21	EPA 200.8
7440-47-3	Chromium	64		mg/kg dry	0.50	3/20/12 10:39	3/26/12 12:16	EPA 6010
7440-50-8	Copper	16		mg/kg dry	0.99	3/20/12 10:39	3/26/12 12:16	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-01-SB
Lab ID: E121006-41
Station ID: WTG10
Matrix: Subsurface Soil

Date Collected: 2/25/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-01-SF **Lab ID:** E121006-42
Station ID: WTG10 **Matrix:** Surface Soil

Date Collected: 2/25/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	160		mg/kg dry	9.8	3/20/12 10:39	3/26/12 12:23	EPA 6010
7440-47-3	Chromium	390		mg/kg dry	0.98	3/20/12 10:39	3/26/12 12:23	EPA 6010
7440-50-8	Copper	250		mg/kg dry	2.0	3/20/12 10:39	3/26/12 12:23	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-01-SF
Lab ID: E121006-42
Station ID: WTG10
Matrix: Surface Soil

Date Collected: 2/25/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-02-SB **Lab ID:** E121006-43
Station ID: WTG10 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	19		mg/kg dry	1.0	3/20/12 10:46	3/22/12 19:26	EPA 200.8
7440-47-3	Chromium	38		mg/kg dry	0.50	3/20/12 10:39	3/26/12 12:31	EPA 6010
7440-50-8	Copper	12		mg/kg dry	1.0	3/20/12 10:39	3/26/12 12:31	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-02-SB **Lab ID:** E121006-43
Station ID: WTG10 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Sample ID: WT-G10-DD-02-SF **Lab ID:** E121006-44
Station ID: WTG10 **Matrix:** Surface Soil

Date Collected: 2/25/12 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.6	U	mg/kg dry	5.6	3/07/12 8:17	3/08/12 17:02	SM 3500 Cr
7440-38-2	Arsenic	260		mg/kg dry	10	3/20/12 10:39	3/26/12 13:09	EPA 6010
7440-47-3	Chromium	580		mg/kg dry	1.0	3/20/12 10:39	3/26/12 13:09	EPA 6010
7440-50-8	Copper	340		mg/kg dry	2.0	3/20/12 10:39	3/26/12 13:09	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-02-SF **Lab ID:** E121006-44
Station ID: WTG10 **Matrix:** Surface Soil

Date Collected: 2/25/12 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-03-SF **Lab ID:** E121006-46
Station ID: WTG10 **Matrix:** Surface Soil

Date Collected: 2/25/12 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1300		mg/kg dry	49	3/20/12 10:39	3/26/12 13:25	EPA 6010
7440-47-3	Chromium	2000		mg/kg dry	4.9	3/20/12 10:39	3/26/12 13:25	EPA 6010
7440-50-8	Copper	1400		mg/kg dry	9.9	3/20/12 10:39	3/26/12 13:25	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-DD-03-SF
Lab ID: E121006-46
Station ID: WTG10
Matrix: Surface Soil

Date Collected: 2/25/12 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	70		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-PF-SF **Lab ID:** E121006-48
Station ID: WTG10 **Matrix:** Surface Soil

Date Collected: 2/25/12 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	100		mg/kg dry	10	3/20/12 10:39	3/26/12 13:32	EPA 6010
7440-47-3	Chromium	170		mg/kg dry	1.0	3/20/12 10:39	3/26/12 13:32	EPA 6010
7440-50-8	Copper	130		mg/kg dry	2.0	3/20/12 10:39	3/26/12 13:32	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G10-PF-SF
Lab ID: E121006-48
Station ID: WTG10
Matrix: Surface Soil

Date Collected: 2/25/12 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-DD-01-SB **Lab ID:** E121006-49
Station ID: WTG11 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.7		mg/kg dry	0.25	3/20/12 10:46	3/22/12 19:31	EPA 200.8
7440-47-3	Chromium	9.6		mg/kg dry	0.49	3/20/12 10:39	3/26/12 13:40	EPA 6010
7440-50-8	Copper	1.8		mg/kg dry	0.98	3/20/12 10:39	3/26/12 13:40	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-DD-01-SB
Lab ID: E121006-49
Station ID: WTG11
Matrix: Subsurface Soil

Date Collected: 2/25/12 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-DD-01-SF **Lab ID:** E121006-50
Station ID: WTG11 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.3	U	mg/kg dry	5.3	3/07/12 8:17	3/08/12 17:02	SM 3500 Cr
7440-38-2	Arsenic	37		mg/kg dry	1.0	3/20/12 10:46	3/22/12 19:40	EPA 200.8
7440-47-3	Chromium	120		mg/kg dry	0.50	3/20/12 10:39	3/26/12 13:45	EPA 6010
7440-50-8	Copper	49		mg/kg dry	1.0	3/20/12 10:39	3/26/12 13:45	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-DD-01-SF
Lab ID: E121006-50
Station ID: WTG11
Matrix: Surface Soil

Date Collected: 2/25/12 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/07/12 17:56	3/08/12 16:52	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-DD-02-SF **Lab ID:** E121006-52
Station ID: WTG11 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.8	U	mg/kg dry	5.8	3/07/12 8:17	3/08/12 17:02	SM 3500 Cr
7440-38-2	Arsenic	130		mg/kg dry	9.9	3/20/12 10:39	3/26/12 13:53	EPA 6010
7440-47-3	Chromium	500		mg/kg dry	0.99	3/20/12 10:39	3/26/12 13:53	EPA 6010
7440-50-8	Copper	190		mg/kg dry	2.0	3/20/12 10:39	3/26/12 13:53	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-DD-02-SF **Lab ID:** E121006-52
Station ID: WTG11 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-PF-SB **Lab ID:** E121006-53
Station ID: WTG11 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	42		mg/kg dry	0.98	3/20/12 10:46	3/22/12 19:45	EPA 200.8
7440-47-3	Chromium	120		mg/kg dry	0.49	3/20/12 10:39	3/26/12 14:01	EPA 6010
7440-50-8	Copper	45		mg/kg dry	0.98	3/20/12 10:39	3/26/12 14:01	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-PF-SB
Lab ID: E121006-53
Station ID: WTG11
Matrix: Subsurface Soil

Date Collected: 2/25/12 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-PF-SF **Lab ID:** E121006-54
Station ID: WTG11 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:23

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	120		mg/kg dry	5.0	3/20/12 10:39	3/26/12 14:39	EPA 6010
7440-47-3	Chromium	290	J, QM-2	mg/kg dry	0.50	3/20/12 10:39	3/26/12 14:39	EPA 6010
7440-50-8	Copper	110		mg/kg dry	0.99	3/20/12 10:39	3/26/12 14:39	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G11-PF-SF
Lab ID: E121006-54
Station ID: WTG11
Matrix: Surface Soil

Date Collected: 2/25/12 13:23

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SB **Lab ID:** E121006-55
Station ID: WTG12 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 13:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	21		mg/kg dry	0.98	3/20/12 10:46	3/22/12 19:59	EPA 200.8
7440-47-3	Chromium	170		mg/kg dry	0.49	3/20/12 10:39	3/26/12 15:02	EPA 6010
7440-50-8	Copper	45		mg/kg dry	0.98	3/20/12 10:39	3/26/12 15:02	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SB
Lab ID: E121006-55
Station ID: WTG12
Matrix: Subsurface Soil

Date Collected: 2/25/12 13:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SF **Lab ID:** E121006-56
Station ID: WTG12 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	16		mg/kg dry	0.99	3/20/12 10:46	3/22/12 20:04	EPA 200.8
7440-47-3	Chromium	30		mg/kg dry	0.50	3/20/12 10:39	3/26/12 15:10	EPA 6010
7440-50-8	Copper	15		mg/kg dry	0.99	3/20/12 10:39	3/26/12 15:10	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SF
Lab ID: E121006-56
Station ID: WTG12
Matrix: Surface Soil

Date Collected: 2/25/12 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SF-DUP **Lab ID:** E121006-57
Station ID: WTG12 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	26		mg/kg dry	1.0	3/20/12 10:46	3/22/12 20:09	EPA 200.8
7440-47-3	Chromium	54		mg/kg dry	0.50	3/20/12 10:39	3/26/12 15:15	EPA 6010
7440-50-8	Copper	27		mg/kg dry	1.0	3/20/12 10:39	3/26/12 15:15	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-01-SF-DUP **Lab ID:** E121006-57
Station ID: WTG12 **Matrix:** Surface Soil

Date Collected: 2/25/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-02-SF **Lab ID:** E121006-59
Station ID: WTG12 **Matrix:** Surface Soil

Date Collected: 2/25/12 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	25		mg/kg dry	1.0	3/20/12 10:46	3/22/12 20:13	EPA 200.8
7440-47-3	Chromium	77		mg/kg dry	0.50	3/20/12 10:39	3/26/12 15:21	EPA 6010
7440-50-8	Copper	33		mg/kg dry	1.0	3/20/12 10:39	3/26/12 15:21	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-DD-02-SF
Lab ID: E121006-59
Station ID: WTG12
Matrix: Surface Soil

Date Collected: 2/25/12 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-PF-01-SB **Lab ID:** E121006-60
Station ID: WTG12 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	46		mg/kg dry	0.99	3/20/12 10:46	3/22/12 20:18	EPA 200.8
7440-47-3	Chromium	100		mg/kg dry	0.49	3/20/12 10:39	3/26/12 15:28	EPA 6010
7440-50-8	Copper	55		mg/kg dry	0.99	3/20/12 10:39	3/26/12 15:28	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-PF-01-SB **Lab ID:** E121006-60
Station ID: WTG12 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	96		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-PF-02-SB **Lab ID:** E121006-62
Station ID: WTG12 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	43		mg/kg dry	0.99	3/20/12 10:46	3/22/12 20:23	EPA 200.8
7440-47-3	Chromium	140		mg/kg dry	0.49	3/20/12 10:39	3/26/12 15:36	EPA 6010
7440-50-8	Copper	51		mg/kg dry	0.99	3/20/12 10:39	3/26/12 15:36	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G12-PF-02-SB
Lab ID: E121006-62
Station ID: WTG12
Matrix: Subsurface Soil

Date Collected: 2/25/12 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-DD-01-SF **Lab ID:** E121006-65
Station ID: WTG13 **Matrix:** Surface Soil

Date Collected: 2/25/12 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.4	U	mg/kg dry	5.4	3/07/12 8:17	3/08/12 17:18	SM 3500 Cr
7440-38-2	Arsenic	52		mg/kg dry	0.99	3/20/12 10:46	3/22/12 20:28	EPA 200.8
7440-47-3	Chromium	140		mg/kg dry	0.99	3/20/12 10:39	3/26/12 16:14	EPA 6010
7440-50-8	Copper	69		mg/kg dry	2.0	3/20/12 10:39	3/26/12 16:14	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-DD-01-SF
Lab ID: E121006-65
Station ID: WTG13
Matrix: Surface Soil

Date Collected: 2/25/12 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-DD-02-SF **Lab ID:** E121006-67
Station ID: WTG13 **Matrix:** Surface Soil

Date Collected: 2/25/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.9	U, QM-1	mg/kg dry	5.9	3/07/12 8:17	3/08/12 17:18	SM 3500 Cr
7440-38-2	Arsenic	220		mg/kg dry	9.9	3/20/12 10:39	3/26/12 16:22	EPA 6010
7440-47-3	Chromium	500		mg/kg dry	0.99	3/20/12 10:39	3/26/12 16:22	EPA 6010
7440-50-8	Copper	250		mg/kg dry	2.0	3/20/12 10:39	3/26/12 16:22	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-DD-02-SF
Lab ID: E121006-67
Station ID: WTG13
Matrix: Surface Soil

Date Collected: 2/25/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-PF-SB **Lab ID:** E121006-68
Station ID: WTG13 **Matrix:** Subsurface Soil

Date Collected: 2/25/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	96	J, QM-1	mg/kg dry	9.8	3/20/12 13:29	3/22/12 13:32	EPA 6010
7440-47-3	Chromium	230	J, QM-1	mg/kg dry	0.98	3/20/12 13:29	3/22/12 13:32	EPA 6010
7440-50-8	Copper	110	J, QM-1	mg/kg dry	2.0	3/20/12 13:29	3/22/12 13:32	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-PF-SB
Lab ID: E121006-68
Station ID: WTG13
Matrix: Subsurface Soil

Date Collected: 2/25/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-PF-SF **Lab ID:** E121006-69
Station ID: WTG13 **Matrix:** Surface Soil

Date Collected: 2/25/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	71		mg/kg dry	1.0	3/20/12 13:33	3/23/12 18:18	EPA 200.8
7440-47-3	Chromium	200		mg/kg dry	1.0	3/20/12 13:29	3/22/12 14:34	EPA 6010
7440-50-8	Copper	89		mg/kg dry	2.0	3/20/12 13:29	3/22/12 14:34	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G13-PF-SF
Lab ID: E121006-69
Station ID: WTG13
Matrix: Surface Soil

Date Collected: 2/25/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G14-DD-01-SF **Lab ID:** E121006-71
Station ID: WTG14 **Matrix:** Surface Soil

Date Collected: 2/26/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	36		mg/kg dry	0.98	3/20/12 13:33	3/23/12 18:23	EPA 200.8
7440-47-3	Chromium	95		mg/kg dry	2.0	3/20/12 13:29	3/22/12 14:41	EPA 6010
7440-50-8	Copper	48		mg/kg dry	3.9	3/20/12 13:29	3/22/12 14:41	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G14-DD-01-SF
Lab ID: E121006-71
Station ID: WTG14
Matrix: Surface Soil

Date Collected: 2/26/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G14-PF-SF **Lab ID:** E121006-75
Station ID: WTG14 **Matrix:** Surface Soil

Date Collected: 2/26/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	100		mg/kg dry	20	3/20/12 13:29	3/22/12 14:49	EPA 6010
7440-47-3	Chromium	240		mg/kg dry	2.0	3/20/12 13:29	3/22/12 14:49	EPA 6010
7440-50-8	Copper	140		mg/kg dry	4.0	3/20/12 13:29	3/22/12 14:49	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G14-PF-SF **Lab ID:** E121006-75
Station ID: WTG14 **Matrix:** Surface Soil

Date Collected: 2/26/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G16-SB **Lab ID:** E121006-80
Station ID: WTG16 **Matrix:** Subsurface Soil

Date Collected: 2/24/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.0	U	mg/kg dry	6.0	3/07/12 8:17	3/08/12 17:18	SM 3500 Cr
7440-38-2	Arsenic	35		mg/kg dry	0.98	3/20/12 13:33	3/23/12 18:42	EPA 200.8
7440-47-3	Chromium	59		mg/kg dry	0.49	3/20/12 13:29	3/22/12 14:57	EPA 6010
7440-50-8	Copper	24		mg/kg dry	0.98	3/20/12 13:29	3/22/12 14:57	EPA 6010

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G16-SB
Lab ID: E121006-80
Station ID: WTG16
Matrix: Subsurface Soil

Date Collected: 2/24/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G16-SF-DUP **Lab ID:** E121006-82
Station ID: WTG16 **Matrix:** Surface Soil

Date Collected: 2/24/12 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.7	U	mg/kg dry	5.7	3/07/12 8:17	3/08/12 17:18	SM 3500 Cr
7440-38-2	Arsenic	69		mg/kg dry	0.99	3/20/12 13:33	3/23/12 18:47	EPA 200.8
7440-47-3	Chromium	180		mg/kg dry	1.5	3/20/12 13:29	3/22/12 15:05	EPA 6010
7440-50-8	Copper	74		mg/kg dry	3.0	3/20/12 13:29	3/22/12 15:05	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-G16-SF-DUP
Lab ID: E121006-82
Station ID: WTG16
Matrix: Surface Soil

Date Collected: 2/24/12 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%	0.0	3/08/12 14:23	3/11/12 15:00	EPA 200.2

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203030 - M Hex Chrome in Solids 3060										
Blank (1203030-BLK1)				Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1203030-BLK2)				Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
LCS (1203030-BS1)				Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	50.964	5.0	mg/kg wet	50.000		102	80-120			
LCS (1203030-BS2)				Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	186040	64000	mg/kg wet	160900		116	80-120			
Duplicate (1203030-DUP1)		**Source: E121006-67**		Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	2.5784	5.9	mg/kg dry		1.2580			68.8	20	XD-2, U
Matrix Spike (1203030-MS1)		**Source: E121006-67**		Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	3.0576	5.9	mg/kg dry	118.33	1.2580	1.52	75-125			QM-1, U
Matrix Spike (1203030-MS2)		**Source: E121006-67**		Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	1060.1	120	mg/kg dry	2116.1	1.2580	50.0	75-125			QM-1
Matrix Spike (1203030-MS3)		**Source: E121006-67**		Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	114.70	5.9	mg/kg dry	117.74	1.2580	96.3	75-125			
MRL Verification (1203030-PS1)				Prepared: 03/07/12 Analyzed: 03/08/12						
SM 3500 Cr										
Chromium, Hexavalent	5.4580	5.0	mg/kg wet	5.0000		109	60-140			MRL-3
Batch 1203114 - M 200.2 Metals Soil										

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203114 - M 200.2 Metals Soil										
Blank (1203114-BLK1)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
Blank (1203114-BLK2)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
LCS (1203114-BS1)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	51.439	5.0	mg/kg dry	50.000		103	85-115			
Chromium	51.213	0.50	"	50.000		102	85-115			
Copper	29.063	1.0	"	30.000		96.9	85-115			
LCS (1203114-BS2)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	51.999	5.0	mg/kg dry	50.000		104	85-115			
Chromium	51.526	0.50	"	50.000		103	85-115			
Copper	29.610	1.0	"	30.000		98.7	85-115			
LCS Dup (1203114-BSD1)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	50.734	5.0	mg/kg dry	50.000		101	85-115	1.38	10	
Chromium	49.233	0.50	"	50.000		98.5	85-115	3.94	10	
Copper	29.567	1.0	"	30.000		98.6	85-115	1.72	10	
LCS Dup (1203114-BSD2)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	49.491	5.0	mg/kg dry	50.000		99.0	85-115	4.94	10	
Chromium	50.407	0.50	"	50.000		101	85-115	2.19	10	
Copper	29.379	1.0	"	30.000		97.9	85-115	0.785	10	

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203114 - M 200.2 Metals Soil										
Matrix Spike (1203114-MS1)	**Source: E121006-02**			Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	122.09	10	mg/kg dry	49.811	82.168	80.2	75-125			
Chromium	497.89	1.0	"	49.811	456.35	83.4	75-125			
Copper	192.96	2.0	"	29.886	160.43	109	75-125			
Matrix Spike (1203114-MS2)	**Source: E121006-39**			Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	65.399	4.9	mg/kg dry	49.290	24.609	82.8	75-125			
Chromium	64.457	0.49	"	49.290	28.315	73.3	75-125			QM-1
Copper	36.166	0.99	"	29.574	11.118	84.7	75-125			
Matrix Spike Dup (1203114-MSD1)	**Source: E121006-02**			Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	110.54	10	mg/kg dry	49.900	82.168	56.9	75-125	9.93	20	QM-1
Chromium	424.93	1.0	"	49.900	456.35	NR	75-125	15.8	20	QM-1
Copper	157.34	2.0	"	29.940	160.43	NR	75-125	20.3	20	QM-3
Matrix Spike Dup (1203114-MSD2)	**Source: E121006-39**			Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	70.520	5.0	mg/kg dry	49.950	24.609	91.9	75-125	7.54	20	
Chromium	72.003	0.50	"	49.950	28.315	87.5	75-125	11.1	20	
Copper	39.349	1.0	"	29.970	11.118	94.2	75-125	8.43	20	
MRL Verification (1203114-PS1)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 6010										
Arsenic	5.2116	5.0	mg/kg dry	5.0000		104	70-130			MRL-3
Chromium	0.49222	0.50	"	0.50000		98.4	70-130			MRL-3, U
Copper	0.91918	1.0	"	1.0000		91.9	70-130			MRL-3, U
Batch 1203115 - M 200.2 Metals Soil										
Blank (1203115-BLK1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203115 - M 200.2 Metals Soil										
Blank (1203115-BLK2)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
LCS (1203115-BS1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	53.601	5.0	mg/kg dry	50.000		107	85-115			
Matrix Spike (1203115-MS1)		**Source: E121006-02**		Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	129.72	5.0	mg/kg dry	49.811	84.995	89.8	70-130			
Matrix Spike (1203115-MS2)		**Source: E121006-39**		Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	66.104	4.9	mg/kg dry	49.290	23.799	85.8	70-130			
Matrix Spike Dup (1203115-MSD1)		**Source: E121006-02**		Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	116.47	5.0	mg/kg dry	49.900	84.995	63.1	70-130	10.8	20	QM-1
Matrix Spike Dup (1203115-MSD2)		**Source: E121006-39**		Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	73.022	5.0	mg/kg dry	49.950	23.799	98.5	70-130	9.94	20	
MRL Verification (1203115-PS1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry	0.10000			65-135			MRL-3, U
Batch 1203116 - M 200.2 Metals Soil										
Blank (1203116-BLK1)				Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203116 - M 200.2 Metals Soil										
Blank (1203116-BLK2)				Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
LCS (1203116-BS1)				Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	50.561	5.0	mg/kg dry	50.000		101	85-115			
Chromium	51.160	0.50	"	50.000		102	85-115			
Copper	29.422	1.0	"	30.000		98.1	85-115			
Matrix Spike (1203116-MS1)	**Source: E121006-40**			Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	166.64	15	mg/kg dry	49.722	121.28	91.2	75-125			
Chromium	275.63	1.5	"	49.722	214.83	122	75-125			
Copper	196.12	3.0	"	29.833	171.21	83.5	75-125			
Matrix Spike (1203116-MS2)	**Source: E121006-54**			Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	160.97	5.0	mg/kg dry	49.880	116.10	89.9	75-125			
Chromium	358.95	0.50	"	49.880	292.33	134	75-125			QM-2
Copper	148.28	1.0	"	29.928	113.85	115	75-125			
Matrix Spike Dup (1203116-MSD1)	**Source: E121006-40**			Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	164.27	15	mg/kg dry	49.643	121.28	86.6	75-125	1.43	20	
Chromium	262.62	1.5	"	49.643	214.83	96.3	75-125	4.83	20	
Copper	169.37	3.0	"	29.786	171.21	NR	75-125	14.6	20	QM-1
Matrix Spike Dup (1203116-MSD2)	**Source: E121006-54**			Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	176.17	5.0	mg/kg dry	49.990	116.10	120	75-125	9.02	20	
Chromium	354.34	0.50	"	49.990	292.33	124	75-125	1.29	20	
Copper	147.05	1.0	"	29.994	113.85	111	75-125	0.830	20	

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203116 - M 200.2 Metals Soil										
MRL Verification (1203116-PS1)				Prepared: 03/20/12 Analyzed: 03/26/12						
EPA 6010										
Arsenic	4.8888	5.0	mg/kg dry	5.0000		97.8	70-130			MRL-3, U
Chromium	0.48624	0.50	"	0.50000		97.2	70-130			MRL-3, U
Copper	1.1104	1.0	"	1.0000		111	70-130			MRL-3
Batch 1203118 - M 200.2 Metals Soil										
Blank (1203118-BLK1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Blank (1203118-BLK2)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
LCS (1203118-BS1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	52.248	5.0	mg/kg dry	50.000		104	85-115			
MRL Verification (1203118-PS1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry	0.10000			65-135			MRL-3, QR-1, U
Batch 1203123 - M 200.2 Metals Soil										
Blank (1203123-BLK1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
Blank (1203123-BLK2)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 6010										
Arsenic	U	5.0	mg/kg dry							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203123 - M 200.2 Metals Soil										
LCS (1203123-BS1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 6010										
Arsenic	48.335	5.0	mg/kg dry	50.000		96.7	85-115			
Chromium	48.362	0.50	"	50.000		96.7	85-115			
Copper	28.290	1.0	"	30.000		94.3	85-115			
Matrix Spike (1203123-MS1)	**Source: E121006-68**			Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 6010										
Arsenic	127.96	10	mg/kg dry	49.850	95.934	64.3	75-125			QM-1
Chromium	241.10	1.0	"	49.850	229.70	22.9	75-125			QM-1
Copper	117.94	2.0	"	29.910	105.39	42.0	75-125			QM-1
Matrix Spike Dup (1203123-MSD1)	**Source: E121006-68**			Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 6010										
Arsenic	124.72	9.8	mg/kg dry	49.174	95.934	58.5	75-125	2.56	20	QM-1
Chromium	236.76	0.98	"	49.174	229.70	14.4	75-125	1.81	20	QM-1
Copper	116.36	2.0	"	29.504	105.39	37.2	75-125	1.36	20	QM-1
MRL Verification (1203123-PS1)				Prepared: 03/20/12 Analyzed: 03/22/12						
EPA 6010										
Arsenic	5.1076	5.0	mg/kg dry	5.0000		102	70-130			MRL-3
Chromium	0.49484	0.50	"	0.50000		99.0	70-130			MRL-3, U
Copper	1.0311	1.0	"	1.0000		103	70-130			MRL-3
Batch 1203124 - M 200.2 Metals Soil										
Blank (1203124-BLK1)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Blank (1203124-BLK2)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203124 - M 200.2 Metals Soil										
LCS (1203124-BS1)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 200.8										
Arsenic	54.004	5.0	mg/kg dry	50.000		108	85-115			
Matrix Spike (1203124-MS1)	**Source: E121006-68**			Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 200.8										
Arsenic	131.25	5.0	mg/kg dry	49.850	97.844	67.0	70-130			QM-1
Matrix Spike Dup (1203124-MSD1)	**Source: E121006-68**			Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 200.8										
Arsenic	132.56	4.9	mg/kg dry	49.174	97.844	70.6	70-130	0.994	20	
MRL Verification (1203124-PS1)				Prepared: 03/20/12 Analyzed: 03/23/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry	0.10000			65-135			MRL-3, QR-1, U

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Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203046 - M % Solids										
Duplicate (1203046-DUP1)		**Source: E120904-70**		Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 200.2										
% Solids	88.594	0.0	%		88.300			0.332	10	
Batch 1203047 - M % Solids										
Duplicate (1203047-DUP1)		**Source: E121006-27**		Prepared: 03/07/12 Analyzed: 03/08/12						
EPA 200.2										
% Solids	89.780	0.0	%		90.537			0.840	10	
Batch 1203063 - M % Solids										
Duplicate (1203063-DUP1)		**Source: E121006-57**		Prepared: 03/08/12 Analyzed: 03/11/12						
EPA 200.2										
% Solids	93.405	0.0	%		92.624			0.840	10	

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-3	MRL verification for Soil matrix
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-1	MRL verification recovery less than lower control limits.
XD-2	Duplicate results less than 5X MRL

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

May 1, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0209, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Dissolved Metals (DMTL)	
Dissolved Metals	EPA 218.6
Physical Properties (PHYSP)	
Physical Properties	EPA 200.2
Total Metals (TMTL)	
Speciated Metals	SM 3500 Cr
Total Metals	EPA 200.8
Total Metals	EPA 6010

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Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WT-FB-03	E121008-01	Field Blank	2/29/12 11:40	3/1/12 10:50
WT-RB-04	E121008-02	Equipment Rinse Blank	2/29/12 11:35	3/1/12 10:50
WT-BG-03-SB	E121008-03	Subsurface Soil	2/29/12 08:10	3/1/12 10:50
WT-BG-03-SF	E121008-04	Surface Soil	2/29/12 07:55	3/1/12 10:50
WT-BG-06-SB	E121008-05	Subsurface Soil	2/28/12 15:30	3/1/12 10:50
WT-BG-06-SF	E121008-06	Surface Soil	2/28/12 15:15	3/1/12 10:50
WT-BG-07-SB	E121008-07	Subsurface Soil	2/29/12 09:40	3/1/12 10:50
WT-BG-07-SF	E121008-08	Surface Soil	2/29/12 09:30	3/1/12 10:50
WT-BG-08-SB	E121008-09	Subsurface Soil	2/29/12 08:55	3/1/12 10:50
WT-BG-08-SF	E121008-10	Surface Soil	2/29/12 08:35	3/1/12 10:50
WT-RP-22-SB-BY	E121008-11	Subsurface Soil	2/28/12 15:16	3/1/12 10:50
WT-RP-22-SB-FY	E121008-12	Subsurface Soil	2/28/12 14:48	3/1/12 10:50
WT-RP-22-SF-BY	E121008-13	Surface Soil	2/28/12 15:07	3/1/12 10:50
WT-RP-22-SF-FY	E121008-14	Surface Soil	2/28/12 14:35	3/1/12 10:50
WT-RP-22-SF-FY-DUP	E121008-15	Surface Soil	2/28/12 14:54	3/1/12 10:50
WT-RP-26-SB-FY	E121008-16	Subsurface Soil	2/29/12 08:05	3/1/12 10:50
WT-RP-26-SF-FY	E121008-17	Surface Soil	2/29/12 07:45	3/1/12 10:50
WT-RP-26-SF-FY-DUP	E121008-18	Surface Soil	2/29/12 08:00	3/1/12 10:50
WT-RP-27-SB-BY	E121008-19	Subsurface Soil	2/29/12 09:20	3/1/12 10:50
WT-RP-27-SB-FY	E121008-20	Subsurface Soil	2/29/12 09:05	3/1/12 10:50
WT-RP-27-SF-BY	E121008-21	Surface Soil	2/29/12 09:05	3/1/12 10:50
WT-RP-27-SF-FY	E121008-22	Surface Soil	2/29/12 08:55	3/1/12 10:50
WT-RP-29-SB-BY	E121008-23	Subsurface Soil	2/29/12 10:30	3/1/12 10:50
WT-RP-29-SB-FY	E121008-24	Subsurface Soil	2/29/12 10:15	3/1/12 10:50
WT-RP-29-SF-BY	E121008-25	Surface Soil	2/29/12 10:20	3/1/12 10:50
WT-RP-29-SF-FY	E121008-26	Surface Soil	2/29/12 09:55	3/1/12 10:50
WT-RP-30-SB-BY	E121008-27	Subsurface Soil	2/29/12 11:25	3/1/12 10:50
WT-RP-30-SB-FY	E121008-28	Subsurface Soil	2/29/12 11:10	3/1/12 10:50
WT-RP-30-SF-BY	E121008-29	Surface Soil	2/29/12 11:15	3/1/12 10:50
WT-RP-30-SF-FY	E121008-30	Surface Soil	2/29/12 11:00	3/1/12 10:50
WT-RP-31-SB-BY	E121008-31	Subsurface Soil	2/28/12 17:00	3/1/12 10:50
WT-RP-31-SB-FY	E121008-32	Subsurface Soil	2/28/12 16:50	3/1/12 10:50
WT-RP-31-SF-BY	E121008-33	Surface Soil	2/28/12 16:55	3/1/12 10:50
WT-RP-31-SF-FY	E121008-34	Surface Soil	2/28/12 16:40	3/1/12 10:50

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WT-RP-32-SB-BY	E121008-35	Subsurface Soil	2/28/12 16:25	3/1/12 10:50
WT-RP-32-SB-FY	E121008-36	Subsurface Soil	2/28/12 16:10	3/1/12 10:50
WT-RP-32-SF-BY	E121008-37	Surface Soil	2/28/12 16:15	3/1/12 10:50
WT-RP-32-SF-FY	E121008-38	Surface Soil	2/28/12 15:55	3/1/12 10:50
WT-RP-33-SB-BY	E121008-39	Subsurface Soil	2/28/12 15:35	3/1/12 10:50
WT-RP-33-SB-FY	E121008-40	Subsurface Soil	2/28/12 15:20	3/1/12 10:50
WT-RP-33-SF-BY	E121008-41	Surface Soil	2/28/12 15:25	3/1/12 10:50
WT-RP-33-SF-FY	E121008-42	Surface Soil	2/28/12 15:15	3/1/12 10:50
WT-RP-34-SB-BY	E121008-43	Subsurface Soil	2/28/12 14:55	3/1/12 10:50
WT-RP-34-SB-FY	E121008-44	Subsurface Soil	2/28/12 14:30	3/1/12 10:50
WT-RP-34-SF-BY	E121008-45	Surface Soil	2/28/12 14:45	3/1/12 10:50
WT-RP-34-SF-FY	E121008-46	Surface Soil	2/28/12 14:15	3/1/12 10:50
WT-RP-36-SB-BY	E121008-47	Subsurface Soil	2/29/12 08:35	3/1/12 10:50
WT-RP-36-SF-BY	E121008-48	Surface Soil	2/29/12 08:25	3/1/12 10:50
WT-RP-36-SF-BY-DUP	E121008-49	Surface Soil	2/29/12 08:35	3/1/12 10:50
WT-RP-60-SB-BY	E121008-50	Subsurface Soil	2/29/12 10:10	3/1/12 10:50
WT-RP-60-SB-FY	E121008-51	Subsurface Soil	2/29/12 09:47	3/1/12 10:50
WT-RP-60-SF-BY	E121008-52	Surface Soil	2/29/12 10:00	3/1/12 10:50
WT-RP-60-SF-FY	E121008-53	Surface Soil	2/29/12 09:38	3/1/12 10:50
WT-RP-61-SB-BY	E121008-54	Subsurface Soil	2/29/12 09:10	3/1/12 10:50
WT-RP-61-SB-FY	E121008-55	Subsurface Soil	2/29/12 08:53	3/1/12 10:50
WT-RP-61-SF-BY	E121008-56	Surface Soil	2/29/12 09:00	3/1/12 10:50
WT-RP-61-SF-FY	E121008-57	Surface Soil	2/29/12 08:46	3/1/12 10:50
WT-RP-63-SB-BY	E121008-58	Subsurface Soil	2/29/12 11:15	3/1/12 10:50
WT-RP-63-SB-FY	E121008-59	Subsurface Soil	2/29/12 11:00	3/1/12 10:50
WT-RP-63-SF-BY	E121008-60	Surface Soil	2/29/12 11:06	3/1/12 10:50
WT-RP-63-SF-FY	E121008-61	Surface Soil	2/29/12 10:54	3/1/12 10:50
WT-RP-68-SB-BY	E121008-62	Subsurface Soil	2/29/12 08:09	3/1/12 10:50
WT-RP-68-SF-BY	E121008-63	Surface Soil	2/29/12 07:58	3/1/12 10:50
WT-RP-68-SF-BY-DUP	E121008-64	Surface Soil	2/29/12 08:17	3/1/12 10:50
WT-RP-71-SB-BY	E121008-65	Subsurface Soil	2/28/12 16:32	3/1/12 10:50
WT-RP-71-SB-FY	E121008-66	Subsurface Soil	2/28/12 15:58	3/1/12 10:50
WT-RP-71-SF-BY	E121008-67	Surface Soil	2/28/12 16:17	3/1/12 10:50
WT-RP-71-SF-FY	E121008-68	Surface Soil	2/28/12 15:50	3/1/12 10:50
WT-STES-01-SB	E121008-69	Subsurface Soil	2/28/12 16:05	3/1/12 10:50
WT-STES-01-SF	E121008-70	Surface Soil	2/28/12 15:50	3/1/12 10:50

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-FB-03 **Lab ID:** E121008-01

Station ID: **Matrix:** Field Blank

Date Collected: 2/29/12 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/23/12 10:31	4/03/12 13:17	EPA 200.8
7440-47-3	Chromium	5.0	U	ug/L	5.0	3/23/12 10:27	4/03/12 18:21	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	3/23/12 10:27	4/03/12 18:21	EPA 6010

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Dissolved Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-FB-03 **Lab ID:** E121008-01

Station ID: **Matrix:** Field Blank

Date Collected: 2/29/12 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	1.0	U	ug/L	1.0	3/08/12 12:08	3/08/12 19:38	EPA 218.6

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RB-04 **Lab ID:** E121008-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/29/12 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/23/12 10:31	4/03/12 13:25	EPA 200.8
7440-47-3	Chromium	5.0	U	ug/L	5.0	3/23/12 10:27	4/03/12 18:28	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	3/23/12 10:27	4/03/12 18:28	EPA 6010

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Dissolved Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RB-04 **Lab ID:** E121008-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 2/29/12 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	1.0	U	ug/L	1.0	3/08/12 12:08	3/08/12 19:49	EPA 218.6

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-03-SB **Lab ID:** E121008-03
Station ID: WTBG03 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.7	U	mg/kg dry	5.7	3/12/12 9:17	3/15/12 15:17	SM 3500 Cr
7440-38-2	Arsenic	0.42	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 15:55	EPA 200.8
7440-47-3	Chromium	1.0		mg/kg dry	0.49	3/21/12 13:45	3/27/12 11:10	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/21/12 13:45	3/27/12 11:10	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-03-SB **Lab ID:** E121008-03
Station ID: WTBG03 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-03-SF **Lab ID:** E121008-04
Station ID: WTBG03 **Matrix:** Surface Soil

Date Collected: 2/29/12 7:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.7	U	mg/kg dry	5.7	3/12/12 9:17	3/15/12 15:17	SM 3500 Cr
7440-38-2	Arsenic	0.69	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 16:10	EPA 200.8
7440-47-3	Chromium	3.7		mg/kg dry	0.49	3/21/12 13:45	3/27/12 11:32	EPA 6010
7440-50-8	Copper	6.2		mg/kg dry	0.98	3/21/12 13:45	3/27/12 11:32	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-03-SF **Lab ID:** E121008-04
Station ID: WTBG03 **Matrix:** Surface Soil

Date Collected: 2/29/12 7:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-06-SB **Lab ID:** E121008-05
Station ID: WTBG06 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 16:29	EPA 200.8
7440-47-3	Chromium	2.9		mg/kg dry	0.49	3/21/12 13:45	3/27/12 11:40	EPA 6010
7440-50-8	Copper	11		mg/kg dry	0.98	3/21/12 13:45	3/27/12 11:40	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-06-SB **Lab ID:** E121008-05
Station ID: WTBG06 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-06-SF **Lab ID:** E121008-06
Station ID: WTBG06 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.0	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 16:39	EPA 200.8
7440-47-3	Chromium	5.6		mg/kg dry	0.49	3/21/12 13:45	3/27/12 11:48	EPA 6010
7440-50-8	Copper	8.6		mg/kg dry	0.99	3/21/12 13:45	3/27/12 11:48	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-06-SF **Lab ID:** E121008-06
Station ID: WTBG06 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-07-SB **Lab ID:** E121008-07
Station ID: WTBG07 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.3	U	mg/kg dry	5.3	3/12/12 9:17	3/15/12 15:17	SM 3500 Cr
7440-38-2	Arsenic	0.45	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 16:48	EPA 200.8
7440-47-3	Chromium	3.2		mg/kg dry	0.50	3/21/12 13:45	3/27/12 12:15	EPA 6010
7440-50-8	Copper	2.4		mg/kg dry	0.99	3/21/12 13:45	3/27/12 12:15	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-07-SB
Lab ID: E121008-07
Station ID: WTBG07
Matrix: Subsurface Soil

Date Collected: 2/29/12 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-07-SF **Lab ID:** E121008-08
Station ID: WTBG07 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.6	U	mg/kg dry	5.6	3/12/12 9:17	3/15/12 15:17	SM 3500 Cr
7440-38-2	Arsenic	0.53	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 16:53	EPA 200.8
7440-47-3	Chromium	3.8		mg/kg dry	0.50	3/21/12 13:45	3/27/12 12:23	EPA 6010
7440-50-8	Copper	4.3		mg/kg dry	0.99	3/21/12 13:45	3/27/12 12:23	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-07-SF **Lab ID:** E121008-08
Station ID: WTBG07 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	88		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-08-SB **Lab ID:** E121008-09
Station ID: WTBG08 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.6	U	mg/kg dry	5.6	3/12/12 9:17	3/15/12 15:17	SM 3500 Cr
7440-38-2	Arsenic	1.2	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 16:58	EPA 200.8
7440-47-3	Chromium	1.2		mg/kg dry	0.49	3/21/12 13:45	3/27/12 12:31	EPA 6010
7440-50-8	Copper	0.98	U	mg/kg dry	0.98	3/21/12 13:45	3/27/12 12:31	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-08-SB **Lab ID:** E121008-09
Station ID: WTBG08 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-08-SF **Lab ID:** E121008-10
Station ID: WTBG08 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	6.2	U	mg/kg dry	6.2	3/12/12 9:17	3/15/12 15:17	SM 3500 Cr
7440-38-2	Arsenic	0.79	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 17:03	EPA 200.8
7440-47-3	Chromium	2.8		mg/kg dry	0.50	3/21/12 13:45	3/27/12 12:36	EPA 6010
7440-50-8	Copper	7.0		mg/kg dry	0.99	3/21/12 13:45	3/27/12 12:36	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-BG-08-SF **Lab ID:** E121008-10
Station ID: WTBG08 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	80		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SB-BY **Lab ID:** E121008-11
Station ID: WTRP22 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:16

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.54	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 17:13	EPA 200.8
7440-47-3	Chromium	3.1		mg/kg dry	0.49	3/21/12 13:45	3/27/12 12:41	EPA 6010
7440-50-8	Copper	3.9		mg/kg dry	0.99	3/21/12 13:45	3/27/12 12:41	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SB-BY **Lab ID:** E121008-11
Station ID: WTRP22 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:16

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SB-FY **Lab ID:** E121008-12
Station ID: WTRP22 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 14:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 17:32	EPA 200.8
7440-47-3	Chromium	2.4		mg/kg dry	0.49	3/21/12 13:45	3/27/12 12:47	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/21/12 13:45	3/27/12 12:47	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SB-FY **Lab ID:** E121008-12
Station ID: WTRP22 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 14:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SF-BY **Lab ID:** E121008-13
Station ID: WTRP22 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.9		mg/kg dry	0.25	3/21/12 13:50	3/28/12 17:42	EPA 200.8
7440-47-3	Chromium	8.5		mg/kg dry	0.50	3/21/12 13:45	3/27/12 12:53	EPA 6010
7440-50-8	Copper	19		mg/kg dry	1.0	3/21/12 13:45	3/27/12 12:53	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SF-BY **Lab ID:** E121008-13
Station ID: WTRP22 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SF-FY **Lab ID:** E121008-14

Station ID: WTRP22 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.3		mg/kg dry	0.25	3/21/12 13:50	3/28/12 17:56	EPA 200.8
7440-47-3	Chromium	6.2		mg/kg dry	0.50	3/21/12 13:45	3/27/12 13:17	EPA 6010
7440-50-8	Copper	9.2		mg/kg dry	1.0	3/21/12 13:45	3/27/12 13:17	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SF-FY **Lab ID:** E121008-14
Station ID: WTRP22 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SF-FY-DUP **Lab ID:** E121008-15
Station ID: WTRP22 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.3		mg/kg dry	0.25	3/21/12 13:50	3/28/12 18:01	EPA 200.8
7440-47-3	Chromium	9.7		mg/kg dry	0.50	3/21/12 13:45	3/27/12 13:52	EPA 6010
7440-50-8	Copper	11		mg/kg dry	1.0	3/21/12 13:45	3/27/12 13:52	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-22-SF-FY-DUP **Lab ID:** E121008-15
Station ID: WTRP22 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-26-SB-FY **Lab ID:** E121008-16
Station ID: WTRP26 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U, J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 18:11	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.50	3/21/12 13:45	3/27/12 13:58	EPA 6010
7440-50-8	Copper	1.0	U	mg/kg dry	1.0	3/21/12 13:45	3/27/12 13:58	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-26-SB-FY **Lab ID:** E121008-16
Station ID: WTRP26 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-26-SF-FY **Lab ID:** E121008-17

Station ID: WTRP26 **Matrix:** Surface Soil

Date Collected: 2/29/12 7:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.4		mg/kg dry	0.25	3/21/12 13:50	3/28/12 18:26	EPA 200.8
7440-47-3	Chromium	11		mg/kg dry	0.50	3/21/12 13:45	3/27/12 14:04	EPA 6010
7440-50-8	Copper	17		mg/kg dry	0.99	3/21/12 13:45	3/27/12 14:04	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-26-SF-FY **Lab ID:** E121008-17
Station ID: WTRP26 **Matrix:** Surface Soil

Date Collected: 2/29/12 7:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

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Sample ID: WT-RP-26-SF-FY-DUP **Lab ID:** E121008-18
Station ID: WTRP26 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.2		mg/kg dry	0.25	3/21/12 13:50	3/28/12 18:35	EPA 200.8
7440-47-3	Chromium	9.4		mg/kg dry	0.50	3/21/12 13:45	3/27/12 14:12	EPA 6010
7440-50-8	Copper	12		mg/kg dry	1.0	3/21/12 13:45	3/27/12 14:12	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-26-SF-FY-DUP **Lab ID:** E121008-18
Station ID: WTRP26 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SB-BY **Lab ID:** E121008-19
Station ID: WTRP27 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.7		mg/kg dry	0.25	3/21/12 13:50	3/28/12 18:45	EPA 200.8
7440-47-3	Chromium	6.0		mg/kg dry	0.50	3/21/12 13:45	3/27/12 14:20	EPA 6010
7440-50-8	Copper	7.8		mg/kg dry	0.99	3/21/12 13:45	3/27/12 14:20	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SB-BY
Lab ID: E121008-19
Station ID: WTRP27
Matrix: Subsurface Soil

Date Collected: 2/29/12 9:20

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
E1642941	% Solids	94		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SB-FY **Lab ID:** E121008-20
Station ID: WTRP27 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.39	J, QR-1	mg/kg dry	0.25	3/21/12 13:50	3/28/12 18:50	EPA 200.8
7440-47-3	Chromium	2.9		mg/kg dry	0.50	3/21/12 13:45	3/27/12 14:25	EPA 6010
7440-50-8	Copper	1.0	U	mg/kg dry	1.0	3/21/12 13:45	3/27/12 14:25	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SB-FY
Lab ID: E121008-20
Station ID: WTRP27
Matrix: Subsurface Soil

Date Collected: 2/29/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SF-BY **Lab ID:** E121008-21
Station ID: WTRP27 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.5		mg/kg dry	0.25	3/21/12 13:50	3/28/12 18:55	EPA 200.8
7440-47-3	Chromium	17		mg/kg dry	0.50	3/21/12 13:45	3/27/12 14:30	EPA 6010
7440-50-8	Copper	21		mg/kg dry	1.0	3/21/12 13:45	3/27/12 14:30	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SF-BY **Lab ID:** E121008-21
Station ID: WTRP27 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SF-FY **Lab ID:** E121008-22
Station ID: WTRP27 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	4.5		mg/kg dry	0.25	3/21/12 13:50	3/28/12 19:05	EPA 200.8
7440-47-3	Chromium	15		mg/kg dry	0.50	3/21/12 13:45	3/27/12 14:38	EPA 6010
7440-50-8	Copper	16		mg/kg dry	0.99	3/21/12 13:45	3/27/12 14:38	EPA 6010

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 12-0208
Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-27-SF-FY
Lab ID: E121008-22
Station ID: WTRP27
Matrix: Surface Soil

Date Collected: 2/29/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/12/12 14:33	3/13/12 15:02	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SB-BY **Lab ID:** E121008-23
Station ID: WTRP29 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.2		mg/kg dry	0.25	3/21/12 13:58	3/28/12 15:07	EPA 200.8
7440-47-3	Chromium	5.8		mg/kg dry	0.49	3/21/12 13:54	3/28/12 17:02	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.99	3/21/12 13:54	3/28/12 17:02	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SB-BY **Lab ID:** E121008-23
Station ID: WTRP29 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SB-FY **Lab ID:** E121008-24
Station ID: WTRP29 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.46		mg/kg dry	0.25	3/21/12 13:58	3/27/12 17:59	EPA 200.8
7440-47-3	Chromium	2.3		mg/kg dry	0.49	3/21/12 13:54	3/28/12 17:25	EPA 6010
7440-50-8	Copper	0.98	U	mg/kg dry	0.98	3/21/12 13:54	3/28/12 17:25	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SB-FY **Lab ID:** E121008-24
Station ID: WTRP29 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SF-BY **Lab ID:** E121008-25
Station ID: WTRP29 **Matrix:** Surface Soil

Date Collected: 2/29/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	12		mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:04	EPA 200.8
7440-47-3	Chromium	41		mg/kg dry	1.0	3/21/12 13:54	3/28/12 17:31	EPA 6010
7440-50-8	Copper	170		mg/kg dry	2.0	3/21/12 13:54	3/28/12 17:31	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SF-BY **Lab ID:** E121008-25
Station ID: WTRP29 **Matrix:** Surface Soil

Date Collected: 2/29/12 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SF-FY **Lab ID:** E121008-26
Station ID: WTRP29 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	7.5		mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:18	EPA 200.8
7440-47-3	Chromium	21		mg/kg dry	0.50	3/21/12 13:54	3/28/12 18:09	EPA 6010
7440-50-8	Copper	18		mg/kg dry	1.0	3/21/12 13:54	3/28/12 18:09	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-29-SF-FY **Lab ID:** E121008-26
Station ID: WTRP29 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SB-BY **Lab ID:** E121008-27
Station ID: WTRP30 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.47		mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:23	EPA 200.8
7440-47-3	Chromium	2.4		mg/kg dry	0.49	3/21/12 13:54	3/28/12 18:17	EPA 6010
7440-50-8	Copper	3.5		mg/kg dry	0.98	3/21/12 13:54	3/28/12 18:17	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SB-BY **Lab ID:** E121008-27
Station ID: WTRP30 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SB-FY **Lab ID:** E121008-28
Station ID: WTRP30 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:28	EPA 200.8
7440-47-3	Chromium	1.9		mg/kg dry	0.50	3/21/12 13:54	3/28/12 18:22	EPA 6010
7440-50-8	Copper	1.0		mg/kg dry	1.0	3/21/12 13:54	3/28/12 18:22	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SB-FY **Lab ID:** E121008-28
Station ID: WTRP30 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SF-BY **Lab ID:** E121008-29
Station ID: WTRP30 **Matrix:** Surface Soil

Date Collected: 2/29/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.5	U	mg/kg dry	5.5	3/12/12 9:17	3/15/12 15:35	SM 3500 Cr
7440-38-2	Arsenic	2.2		mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:33	EPA 200.8
7440-47-3	Chromium	12		mg/kg dry	0.50	3/21/12 13:54	3/28/12 18:27	EPA 6010
7440-50-8	Copper	33		mg/kg dry	0.99	3/21/12 13:54	3/28/12 18:27	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SF-BY **Lab ID:** E121008-29
Station ID: WTRP30 **Matrix:** Surface Soil

Date Collected: 2/29/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SF-FY **Lab ID:** E121008-30
Station ID: WTRP30 **Matrix:** Surface Soil

Date Collected: 2/29/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.1	U	mg/kg dry	5.1	3/12/12 9:17	3/15/12 15:35	SM 3500 Cr
7440-38-2	Arsenic	1.2		mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:38	EPA 200.8
7440-47-3	Chromium	5.8		mg/kg dry	0.49	3/21/12 13:54	3/28/12 18:35	EPA 6010
7440-50-8	Copper	16		mg/kg dry	0.98	3/21/12 13:54	3/28/12 18:35	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-30-SF-FY **Lab ID:** E121008-30
Station ID: WTRP30 **Matrix:** Surface Soil

Date Collected: 2/29/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SB-BY **Lab ID:** E121008-31
Station ID: WTRP31 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:42	EPA 200.8
7440-47-3	Chromium	1.2		mg/kg dry	0.49	3/21/12 13:54	3/28/12 18:43	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/21/12 13:54	3/28/12 18:43	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SB-BY **Lab ID:** E121008-31
Station ID: WTRP31 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	97		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SB-FY **Lab ID:** E121008-32
Station ID: WTRP31 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.26		mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:47	EPA 200.8
7440-47-3	Chromium	1.8		mg/kg dry	0.50	3/21/12 13:54	3/28/12 18:49	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/21/12 13:54	3/28/12 18:49	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SB-FY **Lab ID:** E121008-32
Station ID: WTRP31 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SF-BY **Lab ID:** E121008-33
Station ID: WTRP31 **Matrix:** Surface Soil

Date Collected: 2/28/12 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.8		mg/kg dry	0.25	3/21/12 13:58	3/27/12 18:52	EPA 200.8
7440-47-3	Chromium	12		mg/kg dry	0.49	3/21/12 13:54	3/28/12 18:55	EPA 6010
7440-50-8	Copper	30		mg/kg dry	0.99	3/21/12 13:54	3/28/12 18:55	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SF-BY **Lab ID:** E121008-33
Station ID: WTRP31 **Matrix:** Surface Soil

Date Collected: 2/28/12 16:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SF-FY **Lab ID:** E121008-34
Station ID: WTRP31 **Matrix:** Surface Soil

Date Collected: 2/28/12 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.5		mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:16	EPA 200.8
7440-47-3	Chromium	12		mg/kg dry	0.49	3/21/12 13:54	3/28/12 19:41	EPA 6010
7440-50-8	Copper	28		mg/kg dry	0.99	3/21/12 13:54	3/28/12 19:41	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-31-SF-FY **Lab ID:** E121008-34
Station ID: WTRP31 **Matrix:** Surface Soil

Date Collected: 2/28/12 16:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SB-BY **Lab ID:** E121008-35
Station ID: WTRP32 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.6		mg/kg dry	0.25	3/21/12 13:58	3/27/12 20:00	EPA 200.8
7440-47-3	Chromium	3.4		mg/kg dry	1.5	3/21/12 13:54	3/28/12 19:49	EPA 6010
7440-50-8	Copper	6.4		mg/kg dry	3.0	3/21/12 13:54	3/28/12 19:49	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SB-BY **Lab ID:** E121008-35
Station ID: WTRP32 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	96		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SB-FY **Lab ID:** E121008-36
Station ID: WTRP32 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.35		mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:21	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.49	3/21/12 13:54	3/28/12 19:58	EPA 6010
7440-50-8	Copper	1.4		mg/kg dry	0.98	3/21/12 13:54	3/28/12 19:58	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SB-FY
Lab ID: E121008-36
Station ID: WTRP32
Matrix: Subsurface Soil

Date Collected: 2/28/12 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SF-BY **Lab ID:** E121008-37
Station ID: WTRP32 **Matrix:** Surface Soil

Date Collected: 2/28/12 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.1		mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:26	EPA 200.8
7440-47-3	Chromium	8.5		mg/kg dry	0.50	3/21/12 13:54	3/28/12 20:03	EPA 6010
7440-50-8	Copper	33		mg/kg dry	1.0	3/21/12 13:54	3/28/12 20:03	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SF-BY **Lab ID:** E121008-37
Station ID: WTRP32 **Matrix:** Surface Soil

Date Collected: 2/28/12 16:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SF-FY **Lab ID:** E121008-38
Station ID: WTRP32 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.3		mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:31	EPA 200.8
7440-47-3	Chromium	10		mg/kg dry	0.50	3/21/12 13:54	3/28/12 20:11	EPA 6010
7440-50-8	Copper	18		mg/kg dry	1.0	3/21/12 13:54	3/28/12 20:11	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-32-SF-FY
Lab ID: E121008-38
Station ID: WTRP32
Matrix: Surface Soil

Date Collected: 2/28/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SB-BY **Lab ID:** E121008-39
Station ID: WTRP33 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.34		mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:36	EPA 200.8
7440-47-3	Chromium	2.3		mg/kg dry	0.50	3/21/12 13:54	3/28/12 20:19	EPA 6010
7440-50-8	Copper	1.2		mg/kg dry	0.99	3/21/12 13:54	3/28/12 20:19	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SB-BY
Lab ID: E121008-39
Station ID: WTRP33
Matrix: Subsurface Soil

Date Collected: 2/28/12 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SB-FY **Lab ID:** E121008-40
Station ID: WTRP33 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:40	EPA 200.8
7440-47-3	Chromium	2.5		mg/kg dry	0.50	3/21/12 13:54	3/28/12 20:25	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/21/12 13:54	3/28/12 20:25	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SB-FY **Lab ID:** E121008-40
Station ID: WTRP33 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SF-BY **Lab ID:** E121008-41
Station ID: WTRP33 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.9		mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:45	EPA 200.8
7440-47-3	Chromium	8.5		mg/kg dry	0.49	3/21/12 13:54	3/28/12 20:30	EPA 6010
7440-50-8	Copper	17		mg/kg dry	0.99	3/21/12 13:54	3/28/12 20:30	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SF-BY
Lab ID: E121008-41
Station ID: WTRP33
Matrix: Surface Soil

Date Collected: 2/28/12 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SF-FY **Lab ID:** E121008-42
Station ID: WTRP33 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.9		mg/kg dry	0.25	3/21/12 13:58	3/27/12 19:50	EPA 200.8
7440-47-3	Chromium	11		mg/kg dry	0.50	3/21/12 13:54	3/28/12 20:38	EPA 6010
7440-50-8	Copper	14		mg/kg dry	1.0	3/21/12 13:54	3/28/12 20:38	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-33-SF-FY **Lab ID:** E121008-42
Station ID: WTRP33 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/12/12 14:44	3/13/12 19:08	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SB-BY **Lab ID:** E121008-43
Station ID: WTRP34 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.36		mg/kg dry	0.25	3/22/12 9:37	3/27/12 10:06	EPA 200.8
7440-47-3	Chromium	1.9		mg/kg dry	0.49	3/22/12 9:58	3/29/12 15:23	EPA 6010
7440-50-8	Copper	1.8		mg/kg dry	0.98	3/22/12 9:58	3/29/12 15:23	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SB-BY **Lab ID:** E121008-43
Station ID: WTRP34 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SB-FY **Lab ID:** E121008-44
Station ID: WTRP34 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.77		mg/kg dry	0.25	3/22/12 9:37	3/27/12 10:26	EPA 200.8
7440-47-3	Chromium	3.3		mg/kg dry	0.49	3/22/12 9:58	3/29/12 15:44	EPA 6010
7440-50-8	Copper	11		mg/kg dry	0.99	3/22/12 9:58	3/29/12 15:44	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SB-FY **Lab ID:** E121008-44
Station ID: WTRP34 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SF-BY **Lab ID:** E121008-45
Station ID: WTRP34 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.3		mg/kg dry	0.25	3/22/12 9:37	3/27/12 10:32	EPA 200.8
7440-47-3	Chromium	8.0		mg/kg dry	0.49	3/22/12 9:58	3/29/12 15:49	EPA 6010
7440-50-8	Copper	30		mg/kg dry	0.99	3/22/12 9:58	3/29/12 15:49	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SF-BY **Lab ID:** E121008-45
Station ID: WTRP34 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SF-FY **Lab ID:** E121008-46
Station ID: WTRP34 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.5		mg/kg dry	0.25	3/22/12 9:37	3/27/12 10:39	EPA 200.8
7440-47-3	Chromium	12		mg/kg dry	0.50	3/22/12 9:58	3/29/12 15:57	EPA 6010
7440-50-8	Copper	40		mg/kg dry	1.0	3/22/12 9:58	3/29/12 15:57	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-34-SF-FY **Lab ID:** E121008-46
Station ID: WTRP34 **Matrix:** Surface Soil

Date Collected: 2/28/12 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	87		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-36-SB-BY **Lab ID:** E121008-47
Station ID: WTRP36 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.75		mg/kg dry	0.25	3/22/12 9:37	3/27/12 10:58	EPA 200.8
7440-47-3	Chromium	2.9		mg/kg dry	0.50	3/22/12 9:58	3/29/12 16:27	EPA 6010
7440-50-8	Copper	5.3		mg/kg dry	1.0	3/22/12 9:58	3/29/12 16:27	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-36-SB-BY
Lab ID: E121008-47
Station ID: WTRP36
Matrix: Subsurface Soil

Date Collected: 2/29/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-36-SF-BY **Lab ID:** E121008-48
Station ID: WTRP36 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	3.8		mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:05	EPA 200.8
7440-47-3	Chromium	17		mg/kg dry	0.50	3/22/12 9:58	3/29/12 16:32	EPA 6010
7440-50-8	Copper	43		mg/kg dry	1.0	3/22/12 9:58	3/29/12 16:32	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-36-SF-BY
Lab ID: E121008-48
Station ID: WTRP36
Matrix: Surface Soil

Date Collected: 2/29/12 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-36-SF-BY-DUP **Lab ID:** E121008-49
Station ID: WTRP36 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.5		mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:11	EPA 200.8
7440-47-3	Chromium	19		mg/kg dry	0.50	3/22/12 9:58	3/29/12 16:40	EPA 6010
7440-50-8	Copper	46		mg/kg dry	0.99	3/22/12 9:58	3/29/12 16:40	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-36-SF-BY-DUP **Lab ID:** E121008-49
Station ID: WTRP36 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SB-BY **Lab ID:** E121008-50
Station ID: WTRP60 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:18	EPA 200.8
7440-47-3	Chromium	1.3		mg/kg dry	0.50	3/22/12 9:58	3/29/12 16:48	EPA 6010
7440-50-8	Copper	5.3		mg/kg dry	1.0	3/22/12 9:58	3/29/12 16:48	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SB-BY
Lab ID: E121008-50
Station ID: WTRP60
Matrix: Subsurface Soil

Date Collected: 2/29/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	96		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SB-FY **Lab ID:** E121008-51
Station ID: WTRP60 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 9:47

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:25	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.49	3/22/12 9:58	3/29/12 16:53	EPA 6010
7440-50-8	Copper	3.3		mg/kg dry	0.99	3/22/12 9:58	3/29/12 16:53	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SB-FY **Lab ID:** E121008-51
Station ID: WTRP60 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 9:47

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SF-BY **Lab ID:** E121008-52
Station ID: WTRP60 **Matrix:** Surface Soil

Date Collected: 2/29/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.1	U	mg/kg dry	5.1	3/12/12 9:17	3/15/12 15:35	SM 3500 Cr
7440-38-2	Arsenic	1.2		mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:31	EPA 200.8
7440-47-3	Chromium	5.5		mg/kg dry	0.49	3/22/12 9:58	3/29/12 16:58	EPA 6010
7440-50-8	Copper	20		mg/kg dry	0.98	3/22/12 9:58	3/29/12 16:58	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SF-BY **Lab ID:** E121008-52
Station ID: WTRP60 **Matrix:** Surface Soil

Date Collected: 2/29/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SF-FY **Lab ID:** E121008-53

Station ID: WTRP60 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	5.2	U, QM-1	mg/kg dry	5.2	3/12/12 9:17	3/15/12 15:35	SM 3500 Cr
7440-38-2	Arsenic	2.2		mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:38	EPA 200.8
7440-47-3	Chromium	5.5		mg/kg dry	0.50	3/22/12 9:58	3/29/12 17:06	EPA 6010
7440-50-8	Copper	16		mg/kg dry	1.0	3/22/12 9:58	3/29/12 17:06	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-60-SF-FY **Lab ID:** E121008-53
Station ID: WTRP60 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SB-BY **Lab ID:** E121008-54
Station ID: WTRP61 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.1		mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:44	EPA 200.8
7440-47-3	Chromium	4.1		mg/kg dry	0.50	3/22/12 9:58	3/29/12 17:14	EPA 6010
7440-50-8	Copper	8.1		mg/kg dry	1.0	3/22/12 9:58	3/29/12 17:14	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SB-BY
Lab ID: E121008-54
Station ID: WTRP61
Matrix: Subsurface Soil

Date Collected: 2/29/12 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SB-FY **Lab ID:** E121008-55
Station ID: WTRP61 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:51	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.50	3/22/12 9:58	3/29/12 17:22	EPA 6010
7440-50-8	Copper	1.2		mg/kg dry	0.99	3/22/12 9:58	3/29/12 17:22	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SB-FY **Lab ID:** E121008-55
Station ID: WTRP61 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:53

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SF-BY **Lab ID:** E121008-56
Station ID: WTRP61 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.9		mg/kg dry	0.25	3/22/12 9:37	3/27/12 11:57	EPA 200.8
7440-47-3	Chromium	7.3		mg/kg dry	0.50	3/22/12 9:58	3/29/12 17:27	EPA 6010
7440-50-8	Copper	27		mg/kg dry	0.99	3/22/12 9:58	3/29/12 17:27	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SF-BY **Lab ID:** E121008-56
Station ID: WTRP61 **Matrix:** Surface Soil

Date Collected: 2/29/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SF-FY **Lab ID:** E121008-57
Station ID: WTRP61 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.9		mg/kg dry	0.25	3/22/12 9:37	3/27/12 12:17	EPA 200.8
7440-47-3	Chromium	4.5		mg/kg dry	0.49	3/22/12 9:58	3/29/12 17:57	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.98	3/22/12 9:58	3/29/12 17:57	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-61-SF-FY **Lab ID:** E121008-57
Station ID: WTRP61 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:46

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SB-BY **Lab ID:** E121008-58
Station ID: WTRP63 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/22/12 9:37	3/27/12 12:24	EPA 200.8
7440-47-3	Chromium	0.95		mg/kg dry	0.50	3/22/12 9:58	3/29/12 18:05	EPA 6010
7440-50-8	Copper	2.7		mg/kg dry	1.0	3/22/12 9:58	3/29/12 18:05	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SB-BY
Lab ID: E121008-58
Station ID: WTRP63
Matrix: Subsurface Soil

Date Collected: 2/29/12 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	96		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SB-FY **Lab ID:** E121008-59
Station ID: WTRP63 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/22/12 9:37	3/27/12 12:30	EPA 200.8
7440-47-3	Chromium	0.89		mg/kg dry	0.50	3/22/12 9:58	3/29/12 18:10	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/22/12 9:58	3/29/12 18:10	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SB-FY **Lab ID:** E121008-59
Station ID: WTRP63 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SF-BY **Lab ID:** E121008-60
Station ID: WTRP63 **Matrix:** Surface Soil

Date Collected: 2/29/12 11:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.57		mg/kg dry	0.25	3/22/12 9:37	3/27/12 12:37	EPA 200.8
7440-47-3	Chromium	2.6		mg/kg dry	0.50	3/22/12 9:58	3/29/12 18:16	EPA 6010
7440-50-8	Copper	5.5		mg/kg dry	0.99	3/22/12 9:58	3/29/12 18:16	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SF-BY **Lab ID:** E121008-60
Station ID: WTRP63 **Matrix:** Surface Soil

Date Collected: 2/29/12 11:06

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SF-FY **Lab ID:** E121008-61
Station ID: WTRP63 **Matrix:** Surface Soil

Date Collected: 2/29/12 10:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.65		mg/kg dry	0.25	3/22/12 9:37	3/27/12 12:43	EPA 200.8
7440-47-3	Chromium	3.4		mg/kg dry	0.50	3/22/12 9:58	3/29/12 18:21	EPA 6010
7440-50-8	Copper	7.1		mg/kg dry	1.0	3/22/12 9:58	3/29/12 18:21	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-63-SF-FY **Lab ID:** E121008-61
Station ID: WTRP63 **Matrix:** Surface Soil

Date Collected: 2/29/12 10:54

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-68-SB-BY **Lab ID:** E121008-62
Station ID: WTRP68 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/22/12 9:37	3/27/12 12:50	EPA 200.8
7440-47-3	Chromium	2.4		mg/kg dry	0.50	3/22/12 9:58	3/29/12 18:29	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/22/12 9:58	3/29/12 18:29	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-68-SB-BY **Lab ID:** E121008-62
Station ID: WTRP68 **Matrix:** Subsurface Soil

Date Collected: 2/29/12 8:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	92		%	0.0	3/13/12 15:00	3/13/12 19:14	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-68-SF-BY **Lab ID:** E121008-63
Station ID: WTRP68 **Matrix:** Surface Soil

Date Collected: 2/29/12 7:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.5		mg/kg dry	0.25	3/22/12 10:23	3/27/12 16:13	EPA 200.8
7440-47-3	Chromium	4.6		mg/kg dry	0.50	3/22/12 10:17	3/27/12 18:13	EPA 6010
7440-50-8	Copper	4.4		mg/kg dry	1.0	3/22/12 10:17	3/27/12 18:13	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-68-SF-BY **Lab ID:** E121008-63
Station ID: WTRP68 **Matrix:** Surface Soil

Date Collected: 2/29/12 7:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-68-SF-BY-DUP **Lab ID:** E121008-64
Station ID: WTRP68 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:17

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	1.7		mg/kg dry	0.25	3/22/12 10:23	3/27/12 16:37	EPA 200.8
7440-47-3	Chromium	4.3		mg/kg dry	0.50	3/22/12 10:17	3/27/12 18:37	EPA 6010
7440-50-8	Copper	3.6		mg/kg dry	0.99	3/22/12 10:17	3/27/12 18:37	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-68-SF-BY-DUP **Lab ID:** E121008-64
Station ID: WTRP68 **Matrix:** Surface Soil

Date Collected: 2/29/12 8:17

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SB-BY **Lab ID:** E121008-65
Station ID: WTRP71 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 16:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.45		mg/kg dry	0.25	3/22/12 10:23	3/27/12 16:42	EPA 200.8
7440-47-3	Chromium	2.2		mg/kg dry	0.50	3/22/12 10:17	3/27/12 18:47	EPA 6010
7440-50-8	Copper	1.0	U	mg/kg dry	1.0	3/22/12 10:17	3/27/12 18:47	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SB-BY
Lab ID: E121008-65
Station ID: WTRP71
Matrix: Subsurface Soil

Date Collected: 2/28/12 16:32

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SB-FY **Lab ID:** E121008-66
Station ID: WTRP71 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 15:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	0.31		mg/kg dry	0.25	3/22/12 10:23	3/27/12 16:46	EPA 200.8
7440-47-3	Chromium	1.7		mg/kg dry	0.49	3/22/12 10:17	3/27/12 18:53	EPA 6010
7440-50-8	Copper	0.99	U	mg/kg dry	0.99	3/22/12 10:17	3/27/12 18:53	EPA 6010

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Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SB-FY
Lab ID: E121008-66
Station ID: WTRP71
Matrix: Subsurface Soil

Date Collected: 2/28/12 15:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Project: 12-0209, Fairfax Street Wood Treaters - Reported by Mike Wasko

Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SF-BY **Lab ID:** E121008-67
Station ID: WTRP71 **Matrix:** Surface Soil

Date Collected: 2/28/12 16:17

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	4.1		mg/kg dry	0.25	3/22/12 10:23	3/27/12 16:51	EPA 200.8
7440-47-3	Chromium	10		mg/kg dry	0.49	3/22/12 10:17	3/27/12 19:30	EPA 6010
7440-50-8	Copper	19		mg/kg dry	0.99	3/22/12 10:17	3/27/12 19:30	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SF-BY
Lab ID: E121008-67
Station ID: WTRP71
Matrix: Surface Soil

Date Collected: 2/28/12 16:17

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	93		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SF-FY **Lab ID:** E121008-68
Station ID: WTRP71 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	2.1		mg/kg dry	0.25	3/22/12 10:23	3/27/12 16:56	EPA 200.8
7440-47-3	Chromium	4.9		mg/kg dry	0.50	3/22/12 10:17	3/27/12 19:35	EPA 6010
7440-50-8	Copper	7.7		mg/kg dry	1.0	3/22/12 10:17	3/27/12 19:35	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-RP-71-SF-FY **Lab ID:** E121008-68
Station ID: WTRP71 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	94		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-STES-01-SB **Lab ID:** E121008-69
Station ID: WTSTES01 **Matrix:** Subsurface Soil

Date Collected: 2/28/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	3.7	U	mg/kg dry	3.7	3/13/12 15:45	3/17/12 16:26	SM 3500 Cr
7440-38-2	Arsenic	0.25	U	mg/kg dry	0.25	3/22/12 10:23	3/27/12 17:01	EPA 200.8
7440-47-3	Chromium	1.7		mg/kg dry	0.49	3/22/12 10:17	3/27/12 19:40	EPA 6010
7440-50-8	Copper	0.98	U	mg/kg dry	0.98	3/22/12 10:17	3/27/12 19:40	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-STES-01-SB
Lab ID: E121008-69
Station ID: WTSTES01
Matrix: Subsurface Soil

Date Collected: 2/28/12 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	91		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Total Metals

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-STES-01-SF **Lab ID:** E121008-70
Station ID: WTSTES01 **Matrix:** Surface Soil

Date Collected: 2/28/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
18540-29-9	Chromium, Hexavalent	4.6	U	mg/kg dry	4.6	3/13/12 15:45	3/17/12 16:40	SM 3500 Cr
7440-38-2	Arsenic	1.2		mg/kg dry	0.25	3/22/12 10:23	3/27/12 17:06	EPA 200.8
7440-47-3	Chromium	5.2		mg/kg dry	0.49	3/22/12 10:17	3/27/12 19:47	EPA 6010
7440-50-8	Copper	4.2		mg/kg dry	0.98	3/22/12 10:17	3/27/12 19:47	EPA 6010

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Physical Properties

Project: 12-0209, Fairfax Street Wood Treaters

Sample ID: WT-STES-01-SF
Lab ID: E121008-70
Station ID: WTSTES01
Matrix: Surface Soil

Date Collected: 2/28/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	90		%	0.0	3/13/12 15:05	3/13/12 19:19	EPA 200.2

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203011 - M Hex Chrome in Solids 3060										
Blank (1203011-BLK1)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1203011-BLK2)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	U	3.8	mg/kg wet							U
LCS (1203011-BS1)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	51.891	5.0	mg/kg wet	50.000		104	80-120			
LCS (1203011-BS2)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	154630	17000	mg/kg wet	160900		96.1	80-120			
Duplicate (1203011-DUP1)		**Source: E120904-63**		Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	3.4535	3.6	mg/kg dry		U				20	U
Matrix Spike (1203011-MS1)		**Source: E120904-63**		Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	2.0161	3.1	mg/kg dry	62.341	U	3.23	75-125			QM-1, U
Matrix Spike (1203011-MS2)		**Source: E120904-63**		Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	636.46	74	mg/kg dry	1413.8	U	45.0	75-125			QM-1
Matrix Spike (1203011-MS3)		**Source: E120904-63**		Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	85.318	7.1	mg/kg dry	71.241	U	120	75-125			QM-2
MRL Verification (1203011-PS1)				Prepared: 03/13/12 Analyzed: 03/17/12						
SM 3500 Cr										
Chromium, Hexavalent	4.8100	5.0	mg/kg wet	5.0000		96.2	60-140			MRL-3, U
Batch 1203056 - M Hex Chrome in Solids 3060										

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (1203056-BLK1)				Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	U	5.0	mg/kg wet							U
Blank (1203056-BLK2)				Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	U	4.8	mg/kg wet							U
LCS (1203056-BS1)				Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	49.675	5.0	mg/kg wet	50.000		99.4	80-120			
LCS (1203056-BS2)				Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	147630	27000	mg/kg wet	160900		91.8	80-120			
Duplicate (1203056-DUP1)	**Source: E121008-53**			Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	2.1387	5.0	mg/kg dry		U				20	XD-2, U
Matrix Spike (1203056-MS1)	**Source: E121008-53**			Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	33.433	5.2	mg/kg dry	104.83	U	31.9	75-125			QM-1
Matrix Spike (1203056-MS2)	**Source: E121008-53**			Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	1008.3	100	mg/kg dry	2015.6	U	50.0	75-125			QM-1
Matrix Spike (1203056-MS3)	**Source: E121008-53**			Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	57.432	5.2	mg/kg dry	103.24	U	55.6	75-125			QM-1
MRL Verification (1203056-PS1)				Prepared: 03/12/12 Analyzed: 03/15/12						
SM 3500 Cr										
Chromium, Hexavalent	4.4920	5.0	mg/kg wet	5.0000		89.8	60-140			MRL-3, U

Batch 1203131 - M 200.2 Metals Soil

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203131 - M 200.2 Metals Soil										
Blank (1203131-BLK1)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
Blank (1203131-BLK2)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
LCS (1203131-BS1)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	51.220	0.50	mg/kg dry	50.000		102	85-115			
Copper	29.154	1.0	"	30.000		97.2	85-115			
Matrix Spike (1203131-MS1)	**Source: E121008-03**			Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	51.422	0.50	mg/kg dry	49.613	1.0422	102	75-125			
Copper	29.550	0.99	"	29.768	U	99.3	75-125			
Matrix Spike (1203131-MS2)	**Source: E121008-13**			Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	62.003	0.50	mg/kg dry	49.652	8.5035	108	75-125			
Copper	50.763	0.99	"	29.791	19.287	106	75-125			
Matrix Spike Dup (1203131-MSD1)	**Source: E121008-03**			Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	52.065	0.50	mg/kg dry	49.950	1.0422	102	75-125	1.24	20	
Copper	30.840	1.0	"	29.970	U	103	75-125	4.27	20	
Matrix Spike Dup (1203131-MSD2)	**Source: E121008-13**			Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	57.895	0.50	mg/kg dry	49.525	8.5035	99.7	75-125	6.85	20	
Copper	47.759	0.99	"	29.715	19.287	95.8	75-125	6.10	20	
MRL Verification (1203131-PS1)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	0.49448	0.50	mg/kg dry	0.50000		98.9	70-130			MRL-3, U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203131 - M 200.2 Metals Soil										
MRL Verification (1203131-PS1)				Prepared: 03/21/12 Analyzed: 03/27/12						
Copper	0.98029	1.0	mg/kg dry	1.0000		98.0	70-130			MRL-3, U
Batch 1203132 - M 200.2 Metals Soil										
Blank (1203132-BLK1)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							U
Blank (1203132-BLK2)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							U
LCS (1203132-BS1)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	57.163	5.0	mg/kg dry	50.000		114	85-115			
Matrix Spike (1203132-MS1)	**Source: E121008-03**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	51.877	5.0	mg/kg dry	49.613	0.42250	104	70-130			
Matrix Spike (1203132-MS2)	**Source: E121008-13**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	58.233	5.0	mg/kg dry	49.652	2.9267	111	70-130			
Matrix Spike Dup (1203132-MSD1)	**Source: E121008-03**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	53.198	5.0	mg/kg dry	49.950	0.42250	106	70-130	2.52	20	
Matrix Spike Dup (1203132-MSD2)	**Source: E121008-13**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	55.603	5.0	mg/kg dry	49.525	2.9267	106	70-130	4.62	20	
MRL Verification (1203132-PS1)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry	0.10000			65-135			MRL-3, QR-1, U

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203133 - M 200.2 Metals Soil										
Blank (1203133-BLK1)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
Blank (1203133-BLK2)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
LCS (1203133-BS1)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	49.973	0.50	mg/kg dry	50.000		99.9	85-115			
Copper	28.907	1.0	"	30.000		96.4	85-115			
Matrix Spike (1203133-MS1)	**Source: E121008-23**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	54.287	0.50	mg/kg dry	49.692	5.7585	97.7	75-125			
Copper	43.487	0.99	"	29.815	12.969	102	75-125			
Matrix Spike (1203133-MS2)	**Source: E121008-33**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	59.512	0.49	mg/kg dry	49.427	12.038	96.1	75-125			
Copper	58.368	0.99	"	29.656	30.207	95.0	75-125			
Matrix Spike Dup (1203133-MSD1)	**Source: E121008-23**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	55.406	0.50	mg/kg dry	49.574	5.7585	100	75-125	2.04	20	
Copper	43.158	0.99	"	29.744	12.969	101	75-125	0.759	20	
Matrix Spike Dup (1203133-MSD2)	**Source: E121008-33**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	58.617	0.49	mg/kg dry	49.397	12.038	94.3	75-125	1.52	20	
Copper	55.987	0.99	"	29.638	30.207	87.0	75-125	4.16	20	
MRL Verification (1203133-PS1)				Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 6010										
Chromium	0.39511	0.50	mg/kg dry	0.50000		79.0	70-130			MRL-3, U

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Total Metals (TMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203133 - M 200.2 Metals Soil										
MRL Verification (1203133-PS1)				Prepared: 03/21/12 Analyzed: 03/28/12						
Copper	0.95418	1.0	mg/kg dry	1.0000		95.4	70-130			MRL-3, U
Batch 1203134 - M 200.2 Metals Soil										
Blank (1203134-BLK1)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							U
Blank (1203134-BLK2)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							U
LCS (1203134-BS1)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	56.674	5.0	mg/kg dry	50.000		113	85-115			
Matrix Spike (1203134-MS2)	**Source: E121008-33**			Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	53.793	4.9	mg/kg dry	49.427	2.7750	103	70-130			
Matrix Spike (1203134-MS4)	**Source: E121008-33**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	57.094	4.9	mg/kg dry	49.427	2.7750	110	70-130			
Matrix Spike Dup (1203134-MSD2)	**Source: E121008-33**			Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	57.259	4.9	mg/kg dry	49.397	2.7750	110	70-130	6.24	20	
Matrix Spike Dup (1203134-MSD4)	**Source: E121008-33**			Prepared: 03/21/12 Analyzed: 03/28/12						
EPA 200.8										
Arsenic	55.788	4.9	mg/kg dry	49.397	2.7750	107	70-130	2.31	20	
MRL Verification (1203134-PS1)				Prepared: 03/21/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry	0.10000			65-135			MRL-3, U

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203142 - M 200.2 Metals Soil										
Blank (1203142-BLK1)				Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
Blank (1203142-BLK2)				Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
LCS (1203142-BS1)				Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	50.198	0.50	mg/kg dry	50.000		100	85-115			
Copper	29.116	1.0	"	30.000		97.1	85-115			
Matrix Spike (1203142-MS1)	**Source: E121008-43**			Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	52.301	0.50	mg/kg dry	49.801	1.9335	101	75-125			
Copper	32.939	1.0	"	29.880	1.8312	104	75-125			
Matrix Spike (1203142-MS2)	**Source: E121008-62**			Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	54.943	0.49	mg/kg dry	49.407	2.4400	106	75-125			
Copper	32.196	0.99	"	29.644	0.56120	107	75-125			
Matrix Spike Dup (1203142-MSD1)	**Source: E121008-43**			Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	51.785	0.49	mg/kg dry	49.174	1.9335	101	75-125	0.991	20	
Copper	30.498	0.98	"	29.504	1.8312	97.2	75-125	7.70	20	
Matrix Spike Dup (1203142-MSD2)	**Source: E121008-62**			Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	54.054	0.50	mg/kg dry	49.731	2.4400	104	75-125	1.63	20	
Copper	32.247	0.99	"	29.839	0.56120	106	75-125	0.159	20	
MRL Verification (1203142-PS1)				Prepared: 03/22/12 Analyzed: 03/29/12						
EPA 6010										
Chromium	0.52031	0.50	mg/kg dry	0.50000		104	70-130			MRL-3

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203142 - M 200.2 Metals Soil										
MRL Verification (1203142-PS1)				Prepared: 03/22/12 Analyzed: 03/29/12						
Copper	0.97025	1.0	mg/kg dry	1.0000		97.0	70-130			MRL-3, U
Batch 1203143 - M 200.2 Metals Soil										
Blank (1203143-BLK1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							B-3, U
Copper	U	0.10	"							U
Arsenic	U	0.10	"							U
Blank (1203143-BLK2)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	U	0.10	mg/kg dry							U
Copper	U	0.10	"							U
Arsenic	U	0.10	"							U
LCS (1203143-BS1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	49.011	1.0	mg/kg dry	50.000		98.0	85-115			
Copper	31.931	1.0	"	30.000		106	85-115			
Arsenic	53.611	1.0	"	50.000		107	85-115			
Matrix Spike (1203143-MS1)	**Source: E121008-43**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	55.638	1.0	mg/kg dry	49.801	1.7852	108	70-130			
Copper	35.689	1.0	"	29.880	1.9777	113	70-130			
Arsenic	49.145	1.0	"	49.801	0.35854	98.0	70-130			
Matrix Spike (1203143-MS2)	**Source: E121008-62**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	57.636	0.99	mg/kg dry	49.407	2.4514	112	70-130			
Copper	33.268	0.99	"	29.644	0.62716	110	70-130			
Arsenic	43.710	0.99	"	49.407	U	88.5	70-130			

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203143 - M 200.2 Metals Soil										
Matrix Spike Dup (1203143-MSD1)	**Source: E121008-43**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	51.823	0.98	mg/kg dry	49.174	1.7852	102	70-130	7.10	20	
Copper	33.648	0.98	"	29.504	1.9777	107	70-130	5.89	20	
Arsenic	45.555	0.98	"	49.174	0.35854	91.9	70-130	7.58	20	
Matrix Spike Dup (1203143-MSD2)	**Source: E121008-62**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	53.765	0.99	mg/kg dry	49.731	2.4514	103	70-130	6.95	20	
Copper	33.862	0.99	"	29.839	0.62716	111	70-130	1.77	20	
Arsenic	46.807	0.99	"	49.731	U	94.1	70-130	6.84	20	
MRL Verification (1203143-PS1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Chromium	0.10067	0.10	mg/kg dry	0.10000		101	65-135			MRL-3
Copper	0.10836	0.10	"	0.10000		108	65-135			MRL-3
Arsenic	0.10373	0.10	"	0.10000		104	65-135			MRL-3
Batch 1203146 - M 200.2 Metals Soil										
Blank (1203146-BLK1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
Blank (1203146-BLK2)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	U	0.50	mg/kg dry							U
Copper	U	1.0	"							U
LCS (1203146-BS1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	51.018	0.50	mg/kg dry	50.000		102	85-115			
Copper	30.031	1.0	"	30.000		100	85-115			

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203146 - M 200.2 Metals Soil										
Matrix Spike (1203146-MS1)	**Source: E121008-63**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	55.309	0.50	mg/kg dry	49.722	4.6466	102	75-125			
Copper	35.465	0.99	"	29.833	4.3984	104	75-125			
Matrix Spike Dup (1203146-MSD1)	**Source: E121008-63**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	52.765	0.49	mg/kg dry	49.242	4.6466	97.7	75-125	4.71	20	
Copper	34.243	0.98	"	29.545	4.3984	101	75-125	3.50	20	
MRL Verification (1203146-PS1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 6010										
Chromium	0.57415	0.50	mg/kg dry	0.50000		115	70-130			MRL-3
Copper	1.1203	1.0	"	1.0000		112	70-130			MRL-3
Batch 1203147 - M 200.2 Metals Soil										
Blank (1203147-BLK1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							U
Blank (1203147-BLK2)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	U	0.20	mg/kg dry							U
LCS (1203147-BS1)				Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	55.184	5.0	mg/kg dry	50.000		110	85-115			
Matrix Spike (1203147-MS1)	**Source: E121008-63**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	57.668	5.0	mg/kg dry	49.722	1.5401	113	70-130			
Matrix Spike Dup (1203147-MSD1)	**Source: E121008-63**			Prepared: 03/22/12 Analyzed: 03/27/12						
EPA 200.8										
Arsenic	56.664	4.9	mg/kg dry	49.242	1.5401	112	70-130	1.76	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203158 - M 200.2 Metals Water										
Blank (1203158-BLK1)				Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 6010										
Chromium	U	5.0	ug/L							U
Copper	U	10	"							U
LCS (1203158-BS1)				Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 6010										
Chromium	191.61	5.0	ug/L	200.00		95.8	85-115			
Copper	102.18	10	"	100.00		102	85-115			
Matrix Spike (1203158-MS1)	**Source: E121011-58**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 6010										
Chromium	197.01	5.0	ug/L	200.00	U	98.5	75-125			
Copper	103.31	10	"	100.00	U	103	75-125			
Matrix Spike (1203158-MS2)	**Source: E121011-66**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 6010										
Chromium	199.59	5.0	ug/L	200.00	4.3816	97.6	75-125			
Copper	103.80	10	"	100.00	U	104	75-125			
Matrix Spike Dup (1203158-MSD1)	**Source: E121011-58**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 6010										
Chromium	192.99	5.0	ug/L	200.00	U	96.5	75-125	2.06	20	
Copper	102.97	10	"	100.00	U	103	75-125	0.337	20	
Matrix Spike Dup (1203158-MSD2)	**Source: E121011-66**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 6010										
Chromium	196.48	5.0	ug/L	200.00	4.3816	96.0	75-125	1.57	20	
Copper	102.40	10	"	100.00	U	102	75-125	1.36	20	
MRL Verification (1203158-PS1)				Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 6010										
Chromium	4.6066	5.0	ug/L	5.0000		92.1	70-130			MRL-2, U
Copper	11.855	10	"	10.000		119	70-130			MRL-2

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203159 - M 200.2 Metals Water										
Blank (1203159-BLK1)				Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 200.8										
Arsenic	U	1.0	ug/L							U
LCS (1203159-BS1)				Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 200.8										
Arsenic	192.62	5.0	ug/L	200.00		96.3	85-115			
Matrix Spike (1203159-MS1)	**Source: E121011-58**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 200.8										
Arsenic	198.79	5.0	ug/L	200.00	3.5215	97.6	70-130			
Matrix Spike (1203159-MS2)	**Source: E121011-66**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 200.8										
Arsenic	194.52	5.0	ug/L	200.00	1.8020	96.4	70-130			
Matrix Spike Dup (1203159-MSD1)	**Source: E121011-58**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 200.8										
Arsenic	198.12	5.0	ug/L	200.00	3.5215	97.3	70-130	0.336	20	
Matrix Spike Dup (1203159-MSD2)	**Source: E121011-66**			Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 200.8										
Arsenic	187.49	5.0	ug/L	200.00	1.8020	92.8	70-130	3.68	20	
MRL Verification (1203159-PS1)				Prepared: 03/23/12 Analyzed: 04/03/12						
EPA 200.8										
Arsenic	1.0707	1.0	ug/L	1.0000		107	65-135			MRL-2

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Dissolved Metals (DMTL) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203039 - M 218.6										
Blank (1203039-BLK1)				Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	U	1.0	ug/L							U
LCS (1203039-BS1)				Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	103.12	1.0	ug/L	100.00		103	90-110			
LCS Dup (1203039-BSD1)				Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	102.11	1.0	ug/L	100.00		102	90-110	0.983	10	
Matrix Spike (1203039-MS1)	**Source: E121011-12**			Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	98.352	1.0	ug/L	100.00	U	98.4	90-110			
Matrix Spike (1203039-MS2)	**Source: E121011-68**			Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	97.013	1.0	ug/L	100.00	U	97.0	90-110			
Matrix Spike Dup (1203039-MSD1)	**Source: E121011-12**			Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	99.906	1.0	ug/L	100.00	U	99.9	90-110	1.57	10	
Matrix Spike Dup (1203039-MSD2)	**Source: E121011-68**			Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	104.94	1.0	ug/L	100.00	U	105	90-110	7.85	10	
MRL Verification (1203039-PS1)				Prepared & Analyzed: 03/08/12						
EPA 218.6										
Chromium, Hexavalent	0.98020	1.0	ug/L	1.0000		98.0	70-130			MRL-2, U

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Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203064 - M % Solids										
Duplicate (1203064-DUP1)		**Source: E121008-16**		Prepared: 03/12/12 Analyzed: 03/13/12						
EPA 200.2										
% Solids	94.645	0.0	%		94.474			0.181	10	
Batch 1203065 - M % Solids										
Duplicate (1203065-DUP1)		**Source: E121008-41**		Prepared: 03/12/12 Analyzed: 03/13/12						
EPA 200.2										
% Solids	89.834	0.0	%		89.760			0.0824	10	
Batch 1203072 - M % Solids										
Duplicate (1203072-DUP1)		**Source: E121008-46**		Prepared & Analyzed: 03/13/12						
EPA 200.2										
% Solids	86.884	0.0	%		87.230			0.397	10	
Batch 1203073 - M % Solids										
Duplicate (1203073-DUP1)		**Source: E121008-63**		Prepared & Analyzed: 03/13/12						
EPA 200.2										
% Solids	93.325	0.0	%		93.025			0.322	10	

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QR-1	MRL verification recovery less than lower control limits.
XD-2	Duplicate results less than 5X MRL

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April 30, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 12-0209, Fairfax Street Wood Treaters
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Physical Properties (PHYSP)	
Physical Properties	EPA 200.2
Total Metals (TMTL)	
Speciated Metals	SM 3500 Cr
Total Metals	EPA 200.8
Total Metals	EPA 6010