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February 14, 2017

Tom Boling Elma School District 1235 Monte-Elma Rd. Elma, WA 98541

Re: Determination of No Further Action of the following Site:

• **Site Name:** Elma School District 68

• Site Address: 1121 Monte-Elma Road, Elma, WA

Facility/Site No.: 84796885Cleanup Site No.: 10758

Mr. Boling:

On October 25, 2016, the Department of Ecology's (Ecology) contractor, GeoEngineers, Inc., (GeoEngineers) completed additional site investigation activities at the property located at 1121 Monte-Elma Road, Elma, Washington (Site). The results of this work is summarized in the attached "Soil and Groundwater Characterization Summary", dated January 23, 2017. As a result of these recent investigation activities, Ecology has determined that **no further remedial action** is necessary to clean up residual contamination, associated with the historical release of petroleum hydrocarbons reported at the Site. Further information regarding this determination, including a Site history and summary of the recent investigation activities performed at the Site, is presented below.

Background and Results of Recent Investigation Activities

On November 14, 1992, the Department of Ecology (Ecology) was notified of a suspected release of petroleum product from an underground storage tank (UST) system located at the Site. As a result, the Site was added to Ecology's Confirmed or Suspected Contaminated Sites List (CSCL) as an active Leaking Underground Storage Tank (LUST) Site and has been awaiting further characterization and potential cleanup before a determination of No Further Action (NFA) could be granted.

Ecology received funding through the Model Remedies Grant Program (the Grant Program) to provide additional site characterization to assist a limited number of LUST sites towards closure. The intent of these proposed activities was to further characterize previously identified petroleum impacts at LUST sites still awaiting receipt of a NFA determination from Ecology. As a result, the Elma School District Bus Yard Site was selected to receive a portion of these funds.

To perform the proposed characterization activities funded by the Grant Program, Ecology retained GeoEngineers of Redmond, Washington. GeoEngineers subsequently coordinated and directed the advancement of 3 soil borings at the Site on October 25, 2016. Three soil and three groundwater samples were collected in the vicinity of the former UST cavity to evaluate for the presence of residual hydrocarbons beneath this area of the Site. Laboratory analyses of these samples did not detect concentrations of petroleum hydrocarbons or associated constituents above their associated MTCA Method A cleanup levels (CULs). A more detailed summary of these activities is provided in the attached Site Summary Report.

Determination

Ecology has evaluated the results of the further characterization activities completed in October of 2016 and has concluded that **no further remedial action** is necessary to clean up residual petroleum hydrocarbon contamination at the Site. That conclusion is based on the following analysis:

- Decommissioning and removal of the original, on-Site USTs has removed the source of petroleum hydrocarbons and related constituents beneath the Site;
- Concentrations of petroleum hydrocarbons and related constituents were not detected in the soil samples, collected at the Site on October 25, 2016, above their respective MTCA Method A CULs; and
- Concentrations of petroleum hydrocarbons and related constituents were not detected in the groundwater samples, collected at the Site on October 25, 2016, above their respective MTCA Method A CULs.

Mr. Tom Boling February 14, 2017 Page 3

As a result of this information, Ecology is issuing an NFA determination for the Site using Model Remedy No. 1, as identified in Ecology's "Model Remedies for Sites with Petroleum Contaminated Soils" (Publication No. 15-09-043, September 2015). Under this option, it has been determined that the historic removal of contaminated soil has achieved Method A CULs beneath the Site. Additionally, an environmental covenant will not be necessary to ensure the continued protection of human health and the environment associated with the historical release of petroleum hydrocarbons reported from the Site UST system.

This determination is based on the information contained in the Site Summary Report and associated analytical reports and documentation. Additional documents related to the reported historical release of petroleum hydrocarbons from the Site UST system are kept in the Central Files of the Southwest Regional Office of Ecology (SWRO) for review by appointment only. You can make an appointment by calling the SWRO resource contact at (360) 407-6989.

Limitations

1. This determination does not settle liability with the state.

Liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release or releases of hazardous substances at the Site. This opinion **does not**:

- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person enter into a consent decree with Ecology under RCW 70.105D.040(4).

2. This determination does not constitute a determination of substantial equivalence.

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is substantially equivalent. Courts make that determination. *See* RCW 70.105D.080 and WAC 173-340-545.

3. State is immune from liability.

The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

Contact Information

If you have any questions regarding this letter or if you would like additional information regarding the cleanup of contaminated sites, please contact me at (360) 407-0276 or Jeremy.Hughes@ecy.wa.gov. Thank you for your cooperation.

Sincerely,

Jeremy Hughes, LG

LUST Backlog Coordinator

Toxics Cleanup Program, Southwest Regional Office

Enclosures (1)

1. GeoEngineers, Inc. *Soil and Groundwater Characterization Summary*. January 23, 2017.

By Certified Mail: [91 7199 9991 7037 0278 3843]

cc: Nicholas M. Acklam, Ecology Mark Gordon, Ecology Ecology Site File Mr. Tom Boling February 14, 2017 Page 5

Enclosure A

GeoEngineers, Inc. Soil and Groundwater Characterization Summary. January 23, 2017.



8410 154th Avenue NE Redmond, Washington 98052 425.861.6000

January 23, 2017

Washington State Department of Ecology Toxics Cleanup Program – Southwest Regional Office PO Box 47775 Olympia, Washington 98504-7775

Attention: Jeremy Hughes

Subject: Soil and Groundwater Characterization Summary

Elma School District Transportation Facility

Elma, Washington File No. 0504-115-00

INTRODUCTION

This letter report summarizes the results of recent subsurface investigation activities completed at the Elma School District Transportation Facility property (Ecology FSID 84796885), located at 1121 Monte Elma Road in Elma, Washington (the Site; Figure 1). The purpose of the subsurface investigation was to assess the current nature and extent of residual petroleum hydrocarbons in soil and groundwater beneath the Site associated with historic releases from the former underground storage tank (UST) system. Subsurface investigation activities were performed on October 25, 2016. A figure illustrating soil and groundwater sampling locations is presented as Figure 2.

SCOPE OF SERVICES

This project was implemented under GeoEngineers' prime contract with Ecology (Contract No. C1100145, Work Assignment No. C11145C4). Our services were executed in general accordance with the proposal, dated September 8, 2016.

The scope of services for the subsurface investigation was as follows:

- 1. Coordinated field activities with the property owner(s) prior to site entry.
- 2. GeoEngineers subcontracted a Washington State-licensed drilling company to complete three soil borings, as shown in Figure 2. Prior to commencing field work, the driller submitted a Notice of Intent to advance site characterization borings to Ecology.

- Coordinated underground utility locating using the State underground utility notification system (WA One-call), and a private utility locator to assess for potential underground utilities at the site prior to commencing field work. Per state regulations, the boring locations were marked prior to initiating the final WA One-Call request.
- 4. Prepared a Site-Specific Health and Safety Plan (HSP) in accordance with Washington Administrative Code (WAC) 296-24. A copy of the HSP was signed by GeoEngineers, Ecology, and subcontractor representatives present on site, and was kept on-site for the duration of the associated field activities.
- 5. Conducted field characterization activities, including monitoring the advancement of three direct-push borings (ESD-1 to ESD-3; Figure 2) at the site.
- 6. Obtained continuous-core soil and grab groundwater samples from each boring location for potential chemical analysis. All soil and groundwater samples were stored in an ice-filled cooler for transport to an Ecology-accredited analytical laboratory using standard chain-of-custody (COC) protocol. Samples were submitted on hold pending Ecology review of the COC and field-screening information.
- 7. Analyzed selected soil and groundwater samples, based on directives from Ecology staff, for the following chemicals of potential concern (COPCs):
 - NWTPH-Gx and NWTPH-Dx for gasoline and diesel range organics and heavy oils;
 - Volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260B; and
 - Total and dissolved lead by EPA Method 6010b or 6020.
- 8. Temporarily stored investigation-derived waste (IDW) generated during boring advancement and sampling in a secure, on-site location using appropriately-labeled containers. A Washington State-licensed transporter was obtained to profile and transport the IDW to an appropriate landfill for subsequent disposal.
- 9. Uploaded the analytical data (in the form of an electronic data deliverable (EDD) received from the analytical laboratory) to Ecology's Environmental Information Management (EIM) system database.
- 10. Evaluated the data with respect to the Model Toxics Control Act (MTCA) Method A cleanup levels (CULs).
- 11. Prepared this report describing site characterization efforts, which includes a summary table of select analytical results, a site plan depicting boring locations, and associated field logs.

SUBSURFACE INVESTIGATION FINDINGS

Subsurface Explorations

Three soil borings were advanced at the site using direct-push exploration equipment to a maximum depth of 20 feet below ground surface (bgs) on October 25, 2016. The approximate exploration locations are depicted on Figure 2.



The subsurface investigation activities were monitored by a representative of GeoEngineers, who visually classified and performed field screening tests on soil samples collected from the soil borings for evidence of petroleum hydrocarbons using a photo-ionization detector (PID). Subsurface conditions and field screening results are shown on the subsurface exploration logs presented in Appendix A.

Soil and groundwater samples were also collected from each location and submitted to a State-certified analytical laboratory for chemical analysis using the methods previously described. Soil sample selection was based on in-field observations and screening methods. Following soil and grab-groundwater sample collection, the borings were subsequently decommissioned in accordance with Ecology regulations.

Subsurface Conditions

Fill material was encountered beneath the asphalt and gravel cover at each boring location, consisting of silty sands with gravel to a depth of approximately 3 feet below ground surface (bgs). Below this fill and surface cover, native material, predominately comprised of fine to medium silty sand, was encountered. A narrow lens of saturated silty gravel with trace sand was encountered from approximately 15 to 17 feet bgs at each location. This gravel lens corresponded to the occurrence of groundwater at each boring location at approximately 15 feet bgs.

Field screening did not indicate the presence of significant concentrations of petroleum hydrocarbons or VOCs. Appendix A provides a description of the field screening methods employed during the recent subsurface characterization activities.

Investigation-Derived Waste

Investigation-derived waste (soil, groundwater and decontamination water), generated during the subsurface investigation, was placed into one 55-gallon drum, appropriately-labeled, and transported off-site for permitted disposal.

CHEMICAL ANALYTICAL RESULTS

Soil and groundwater samples were submitted to OnSite Environmental, Inc., located in Redmond, Washington, for chemical analysis. The chemical analytical data for the soil and groundwater samples are summarized in Table 1. Copies of the analytical laboratory reports are presented in Appendix B.

Soil Analytical Results

Gasoline-, diesel-, and heavy oil-range petroleum hydrocarbons were not detected above their respective MTCA Method A CULs for Unrestricted Land Use in the soil samples collected from borings ESD-1 through ESD-3.

Petroleum-related VOCs, as well as lead, were also not detected above their respective MTCA Method A CULs for Unrestricted Land Use in the soil samples collected from borings ESD-1 through ESD-3.



Groundwater Analytical Results

Gasoline-, diesel-, heavy oil-range petroleum hydrocarbons, and associated VOCs were not detected above their respective practical quantitation limits (PQLs) in the groundwater samples collected from borings ESD-1 through ESD-3.

Total lead was detected above the associated MTCA Method A CUL of 15 micrograms per liter (ug/L) in the groundwater sample collected from boring ESD-2 (41 ug/L). Dissolved-phase lead, however, was not detected above the associated PQL (1.0 ug/L) at this same location. Total and dissolved lead was not detected above the MTCA Method A CULs in the remaining two boring locations (ESD-1 and ESD-3) during the October 2016 investigation activity.

SUMMARY

Soil and groundwater assessment activities were conducted at the Site on October 25, 2016. Three borings (ESD-1 through ESD-3) were advanced to depths ranging from 19 to 20 feet bgs. Observed native material generally consisted of primarily fine to medium silty sand with lesser amounts of gravel. Groundwater was encountered in each boring at approximately 15 feet bgs.

One soil and one grab groundwater sample from each boring was submitted for chemical analysis of the following:

- NWTPH-Gx and NWTPH-Dx for gasoline and diesel range organics and heavy oils;
- VOCs by EPA Method 8260B; and
- Total and dissolved lead by EPA Method 6010b or 6020.

Only a single location (ESD-2) exhibited concentrations of COPCs in excess of their respective MTCA Method A CULs. Total lead was detected above the associated MTCA Method A CUL of 15 micrograms per liter (ug/L) in the groundwater sample collected from boring ESD-2 (41 ug/L). Dissolved-phase lead, however, was not detected above the associated PQL (1.0 ug/L) at this same location. All remaining analytes in soil and groundwater did not exceed their respective MTCA Method A CULs.

LIMITATIONS

We have prepared this report for the exclusive use of the Washington State Department of Ecology. Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. The conclusions and opinions presented in this report are based on our professional knowledge, judgment and experience. No warranty or other conditions, express or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table and/or figure), if provided, and any attachments should be considered a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



Please refer to Appendix C titled "Report Limitations and Guidelines for Use" for additional information pertaining to use of this report.

Please feel free to contact either of the undersigned should you have any questions or require additional information.

Sincerely,

GeoEngineers, Inc.

Sydney Bronson, EIT

Environmental Engineer

sbronson@geoengineers.com

425.861.6086

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Associate

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SJB:TNO:lw

Attachments:

Table 1. Soil and Groundwater Field Screening and Chemical Analytical Data

Figure 1. Vicinity Map

Figure 2. Site Plan

Appendix A. Field Procedures and Boring Logs

Appendix B. Laboratory Analytical Report

Appendix C. Report Limitations and Guidelines for Use

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Table 1

Soil and Groundwater Field Screening and Chemical Analytical Data

Elma School District Transportation Facility
Elma, Washington
GeoEngineers File No. 0504-115-00

Sample Matrix		Soil			Groundwater		Soil	Groundwater
Sample ID ¹ Sample Date	ESD-1-14.5	ESD-2-14.5 10/25/16	ESD-3-14.5	ESD-1- 102516	ESD-2- 102516 10/25/16	ESD-3- 102516	MTCA Method A or B Cleanup Level for Unrestricted	MTCA Method A or B Cleanup
Sample Depth (feet bgs)	14.5	14.5	14.5	-	-	-	Land Use	Level
Field Screening			•					
Sheen	NS	NS	NS	NS	NS	NS		
Headspace Vapor (ppm)	<1	<1	<1	-	-	-		
Units		mg/kg			ug/L		mg/kg	ug/L
Petroleum Hydrocarbons by NWTPH-G or NWTPH-Dx								
Gasoline-Range	<5.2	<5.2	<5.1	<100	<100	<100	30/100 ²	800/1,000 ³
Diesel-Range	<28	<27	<27	<270	<280	<260	2,000	500
Oil-Range	<57	<54	<54	<430	<450	<420	2,000	500
RCRA Metals by EPA 6000/7000 Series or EPA 200.8								
Total Lead	<5.7	<5.4	<5.4	2.2	41	<1.1	250	15
Dissolved Lead	NA	NA	NA	<1.0	<1.0	<1.0	NA	15
Volatile Organic Compounds (VOCs) by EPA 8260								-
Benzene	<0.00081	<0.00086	<0.00085	<0.20	<0.20	<0.20	0.03	5
Toluene	<0.0040	<0.0043	<0.0042	<1.0	<1.0	<1.0	7	1,000
Ethylbenzene	0.0010	<0.00086	<0.00085	<0.20	<0.20	<0.20	6	700
Total Xylenes ⁴	0.0032	0.0019	<0.0017	<0.40	<0.40	<0.40	9	1,000
Acetone	<0.0081	<0.0086	0.012 ⁵	<9.2	<9.2	<9.2	72,000	720
Tetrachloroethene (PCE)	<0.00081	<0.00086	<0.00085	0.26	0.57	0.99	0.05	5
Trichloroethene (TCE)	<0.00081	<0.00086	<0.00085	<0.20	<0.20	<0.20	0	5
Other VOCs ⁶	ND	ND	ND	ND	ND	ND	varies	varies

Notes:

bgs = below ground surface

MTCA = Model Toxics Control Act

ppm = parts per million

EPA = U.S. Environmental Protection Agency

ND = not detected

RCRA = Resource Conservation and Recovery Act

mg/kg = milligrams per kilogram
ug/L = micrograms per liter

NS = no sheen
NA = not applicable

Bold indicates analyte was detected.

Shading indicates analyte was detected at a concentration greater than the MTCA Cleanup Level for Unrestricted Land Use.



¹Boring locations are shown on Figure 2. Sample ID nomenclature is 'ESD-boring number-sample depth below ground surface' for soil samples, and 'ESD-boring number-date' for groundwater samples.

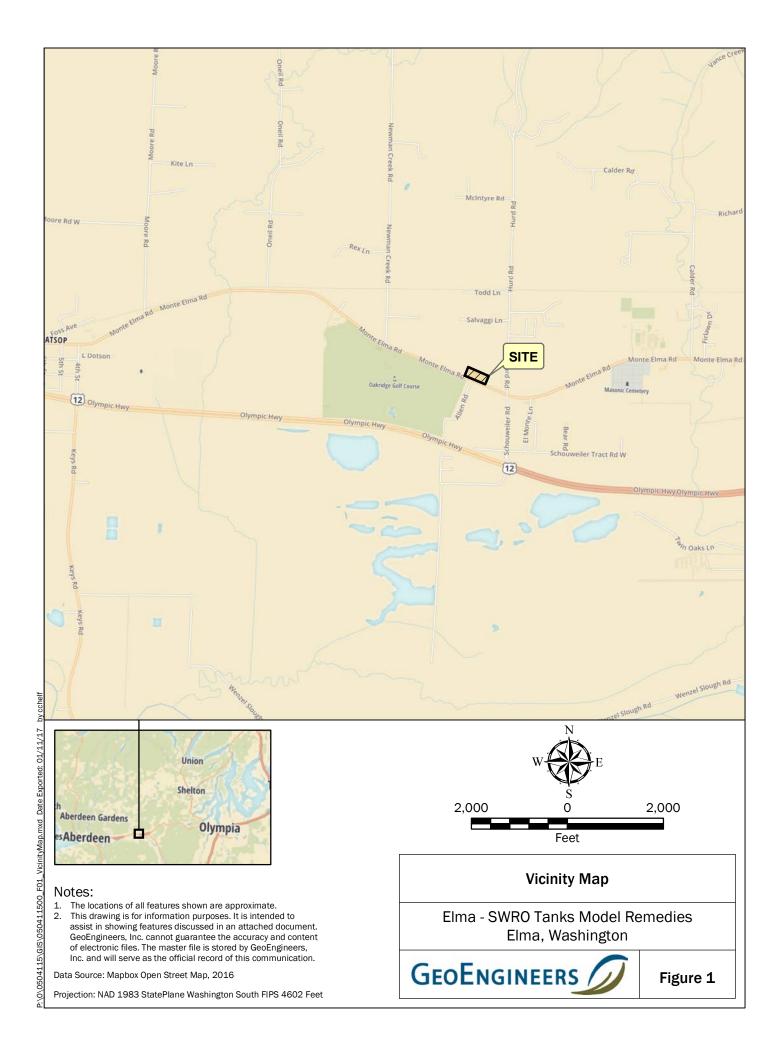
²When benzene is present the gasoline range cleanup level is 30 mg/kg. When benzene is not present the range cleanup level is 100 mg/kg.

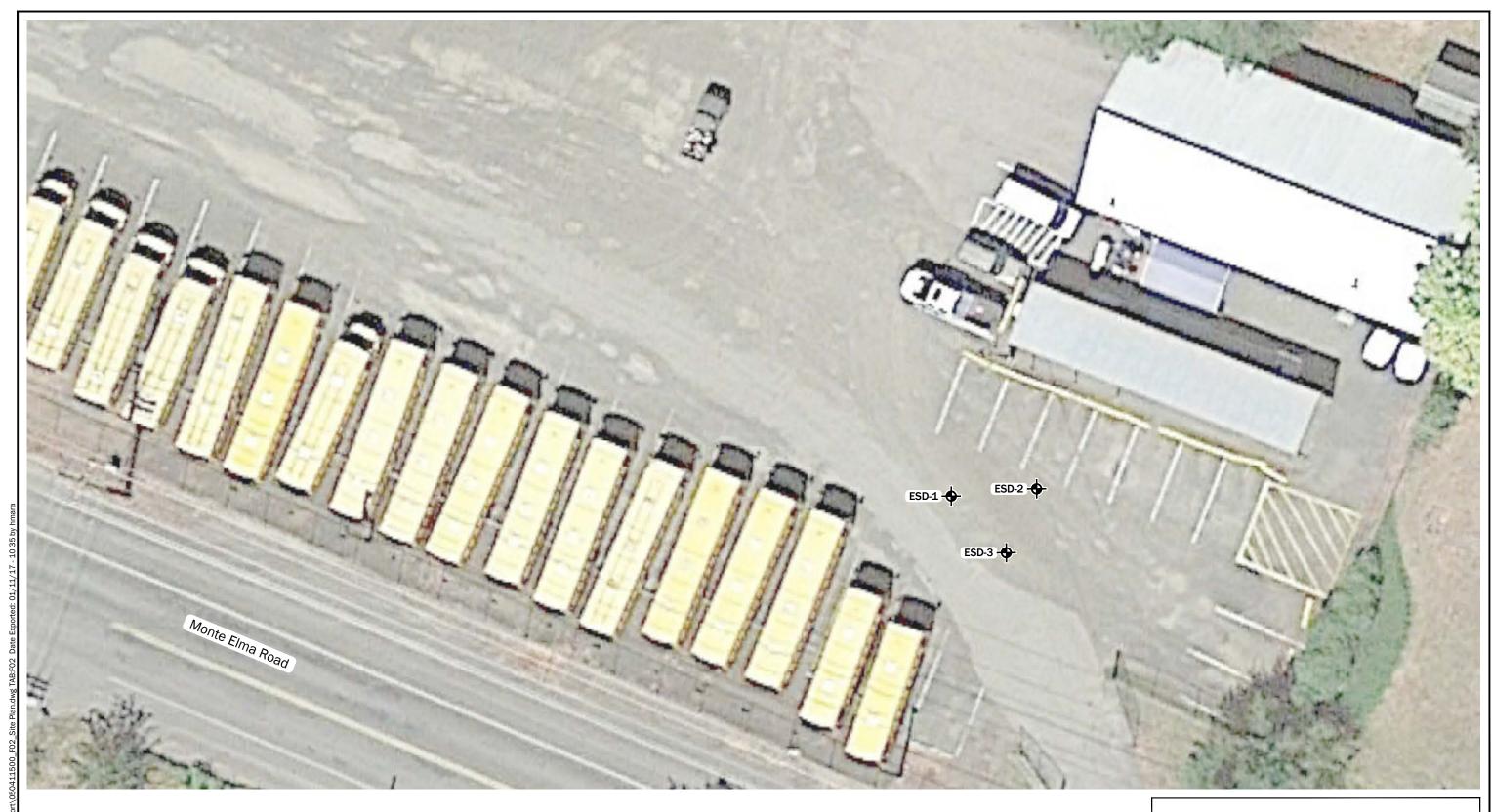
³When benzene is present the gasoline range cleanup level is 800 ug/L. When benzene is not present the range cleanup level is 1,000 ug/L.

⁴Total xylenes consists of the sum of m,p- and o- xylene. The higher detection limit is shown when xylenes were not detected.

⁵Acetone is a common laboratory solvent and was likely introduced during sample preparation.

⁶See Appendix B for the full list of analytes.



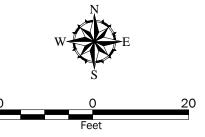


Notes:

1. The locations of all features shown are approximate.

2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Aerial from Google Earth Pro dated 8/17/2016.



Legend

ESD-1 Boring Completed by GeoEngineers, October 2016

Site Plan

Elma - SWRO Tanks Model Remedies Elma, Washington



Figure 2

APPENDIX A Field Procedures and Boring Logs

APPENDIX A FIELD PROCEDURES AND BORING LOGS

Underground Utility Locate

Prior to drilling activities, an underground utility locate was conducted in the area of the proposed boring locations to identify any subsurface utilities and/or potential underground physical hazards. An underground utility check consisting of contacting the Washington State "One Call" service to notify them of the planned drilling activities and subcontract a private a utility locating service (Applied Professional Service [APS]) to clear each proposed boring location.

Soil Sampling

A truck-mounted direct-push drilling rig operated by Standard Environmental Probe was used to complete the field investigation. Drilling activities were completed in general accordance with Washington Administrative Code (WAC) 173-760 by a Washington state licensed drilling company. Continuous soil cores were obtained from the direct-push borings using 1.5-inch diameter, 5-foot long stainless steel sampler rods driven using a pneumatic hammer. Soil samples were collected in clean, plastic 2.5-inch diameter disposable liners. The liners were placed inside the sampling rod and then hydraulically driven or pushed into the soil at the selected sampling depth.

A representative from our staff classified the soil encountered in each of the borings. Soil in the explorations was visually classified in general accordance with ASTM International (ASTM) D 2488-94. The boring logs are presented in Appendix A, Figures A-2 through A-4.

The sampling equipment was decontaminated before each sampling attempt with a Liqui-Nox® solution wash and a distilled water rinse. Soil samples were obtained for field screening and possible chemical analysis. Soil samples obtained during the exploration activities were collected from the sampler with a stainless steel knife or new gloves. A portion of each sample was placed in laboratory-prepared sample jars for possible chemical analysis. The remaining portion of each sample was used for field screening.

Soil samples collected for potential chemical analysis were placed in a cooler with ice for transport to the laboratory. Standard chain-of-custody procedures were followed in transporting the soil samples to the laboratory.

Field Screening of Soil Samples

Soil samples obtained from the borings were screened in the field for evidence of contamination using: 1) visual examination; 2) sheen screening; and/or 3) or photoionization detector (PID). The results of headspace and sheen screening are included in the boring logs for soil samples tested by chemical analysis.

Visual screening consists of inspecting the soil for stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavy petroleum hydrocarbons, such as motor oil or hydraulic oil, or when hydrocarbon concentrations are high. Sheen screening and headspace vapor screening are more sensitive methods that have been effective in detecting contamination at concentrations less than regulatory cleanup guidelines. Sheen screening

involves placing soil in a pan of water and observing the water surface for signs of sheen. Sheen classifications are as follows:

No Sheen (NS) No visible sheen on water surface.

Slight Sheen (SS) Light, colorless, dull sheen; spread is irregular, not rapid; sheen

dissipates rapidly.

Moderate Sheen (MS) Light to heavy sheen, may have some color/iridescence; spread is

irregular to flowing; few remaining areas of no sheen on water surface.

Heavy Sheen (HS) Heavy sheen with color/iridescence; spread is rapid; entire water

surface may be covered with sheen.

Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a PID is inserted in the bag and the instrument measures the concentration of combustible vapor in the air removed from the sample headspace. The PID measures concentrations in ppm (parts per million) and is calibrated to isobutylene. The PID is designed to quantify combustible gas and organic vapor concentrations up to 2,500 ppm. Field screening results are site-specific and vary with soil type, soil moisture content, temperature and type of contaminant.

Groundwater Sampling

Depth to Groundwater

The depths to the groundwater table relative to ground surface were measured using an electric water level indicator. The electric indicator was cleaned with a Liqui-Nox® solution wash and a distilled water rinse prior to use in each well.

Groundwater Sampling

Groundwater samples were obtained as grab samples using low-flow sampling techniques from the direct-push boring. A slotted stainless steel screen was positioned within the boring. Water samples were collected using disposable tubing and peristaltic pump. The water samples were transferred to laboratory-prepared sample containers and kept cool during transport to the testing laboratory. The sample containers were filled completely to eliminate headspace in the container. Chain-of-custody procedures were followed in transporting the water samples to the testing laboratory.

Investigative Waste Disposal

Drill cuttings and decontamination/purge water generated during drilling activities were placed in sealed and labeled 35- and/or 55-gallon drums at a secure location on the subject property pending permitted disposal.

SOIL CLASSIFICATION CHART

NA.	AJOR DIVISI	ONS	SYMI	BOLS	TYPICAL	
IVI				LETTER	DESCRIPTIONS	
	GRAVEL	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES	
	AND GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES	
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE FRACTION	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
55.25	RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES	
MORE THAN 50%	SAND	CLEAN SANDS		sw	WELL-GRADED SANDS, GRAVELLY SANDS	
RETAINED ON NO. 200 SIEVE	AND SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND	
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES	
	PASSING NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MIXTURES	
				ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY	
FINE GRAINED	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
SOILS				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
MORE THAN 50% PASSING NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS	
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY	
			H	ОН	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY	
HIG	GHLY ORGANIC S	SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

2.4-inch I.D. split barrel
Standard Penetration Test (SPT)
Shelby tube

Piston

Direct-Push

Bulk or grab

Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

A "WOH" indicates sampler pushed using the weight of the hammer.

ADDITIONAL MATERIAL SYMBOLS

SYMI	BOLS	TYPICAL				
GRAPH	LETTER	DESCRIPTIONS				
	AC	Asphalt Concrete				
	СС	Cement Concrete				
33	CR	Crushed Rock/ Quarry Spalls				
	TS	Topsoil/ Forest Duff/Sod				

Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata



Approximate contact between soil

Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

Laboratory / Field Tests

Percent fines %G Percent gravel ΑL Atterberg limits CA CP Chemical analysis Laboratory compaction test cs Consolidation test DS **Direct shear** HΑ Hydrometer analysis MC Moisture content MD Moisture content and dry density OC Organic content PM Permeability or hydraulic conductivity Plasticity index ы PP Pocket penetrometer **PPM** Parts per million SA Sieve analysis TX Triaxial compression Unconfined compression UC vs Vane shear **Sheen Classification**

NS No Visible Sheen
SS Slight Sheen
MS Moderate Sheen
HS Heavy Sheen
NT Not Tested

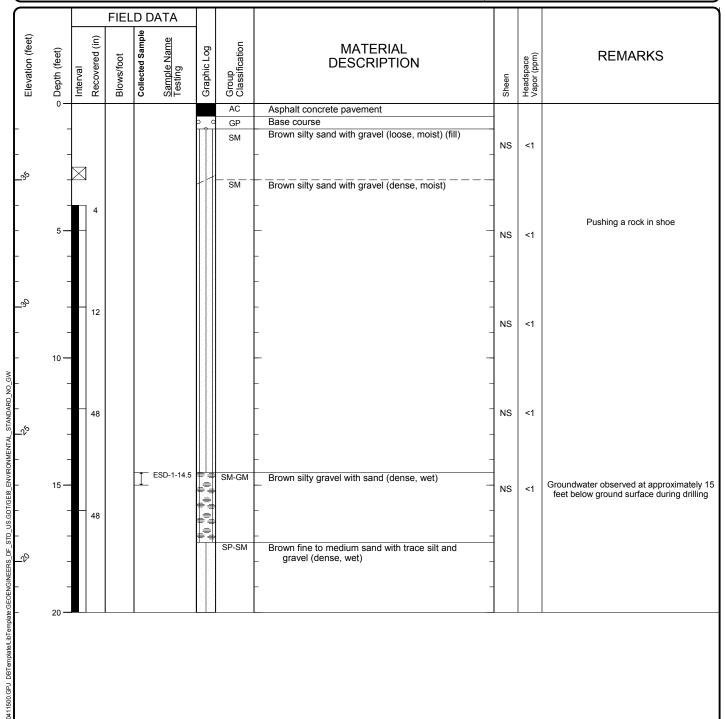
NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS



FIGURE A-1

<u>Start</u> Drilled 10/25/2016	<u>End</u> 10/25/2016	Total Depth (ft)	20	Logged By Checked By		Driller Standard Environmental Probe Drilling Method Direct-Push		
Surface Elevation (ft) Vertical Datum		38 VD88		Hammer Data	140	Pneumatic (lbs) / 30 (in) Drop	Drilling Equipment	Geoprobe 5410
Latitude Longitude		01533 448022		System Datum		Geographic WGS84	Groundwate	Depth to
Notes: Air-knife to 4 f	Notes: Air-knife to 4 feet							See Remarks



Note: See Figure A-1 for explanation of symbols.



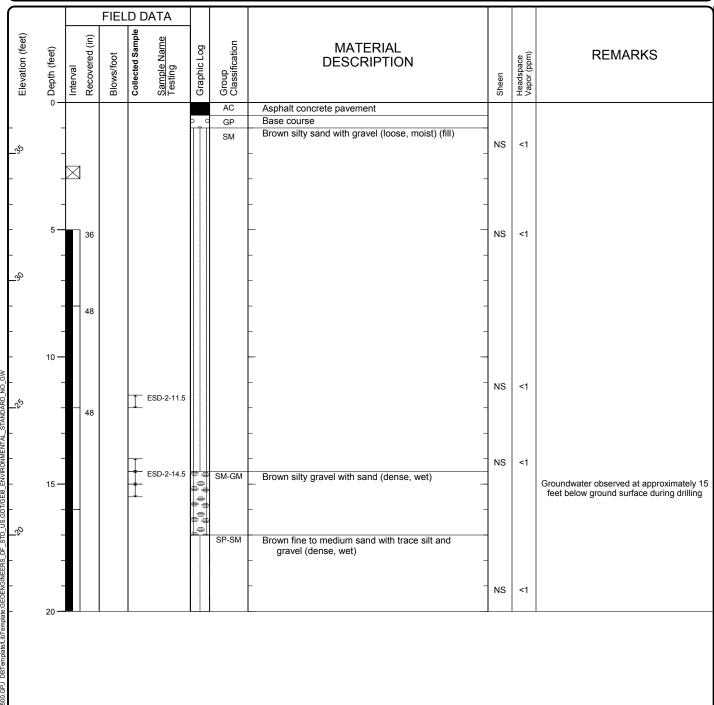
Project: WA Ecology - Elma SWRO Tanks Model Remedies

Figure A-2 Sheet 1 of 1

Project Location: Elma, Washington
Project Number: 0504-115-00



<u>Start</u> Drilled 10/25/2016	<u>End</u> 10/25/2016	Total Depth (ft)	20	, ,	Logged By SJB Standard Environmental Drilling Direct-Pt Probe Drilling Method			Direct-Push		
Surface Elevation (ft) Vertical Datum		37 VD88		Hammer Data	140	Pneumatic (lbs) / 30 (in) Drop	Drilling Equipment		Geoprobe 5	410
Latitude Longitude		00154 447959		System Datum		Geographic WGS84	Groundwate	_	Depth to Water (ft)	Elevation (ft)
Notes: Air-knife to 5 feet							Se	e Remarks		



Log of Boring ESD-2



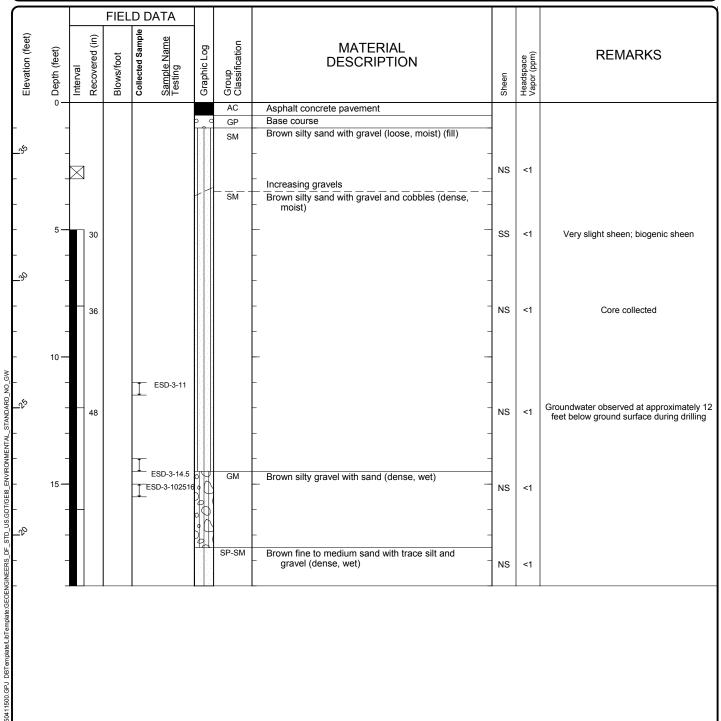
Note: See Figure A-1 for explanation of symbols.

Project: WA Ecology - Elma SWRO Tanks Model Remedies

Project Location: Elma, Washington
Project Number: 0504-115-00

Figure A-3 Sheet 1 of 1

<u>Start</u> Drilled 10/25/2016	<u>End</u> 10/25/2016	Total Depth (ft)	19	Logged By Checked By	7 Drillor Drillor			Direct-Push		
Surface Elevation (ft) Vertical Datum		37 VD88		Hammer Data			Drilling Geoprobe 5410		410	
Latitude Longitude		01515 447958		System Datum		Geographic WGS84	Groundwate	_	Depth to Water (ft)	Elevation (ft)
Notes:								Se	e Remarks	



Log of Boring ESD-3



Note: See Figure A-1 for explanation of symbols.

WA Ecology - Elma SWRO Tanks Model Remedies Project:

Project Location: Elma, Washington

Figure A-4 Sheet 1 of 1 Project Number: 0504-115-00

APPENDIX B Laboratory Analytical Report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 8, 2016

Sydney Bronson GeoEngineers, Inc. 8410 154th Avenue NE Redmond, WA 98052

Re: Analytical Data for Project 00504-115-00

Laboratory Reference No. 1610-292

Dear Sydney:

Enclosed are the analytical results and associated quality control data for samples submitted on October 26, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures



Project: 00504-115-00

Case Narrative

Samples were collected on October 25, 2016 and received by the laboratory on October 26, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH-Gx and Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Project: 00504-115-00

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
ESD-1-102516	10-292-01	Water	10-25-16	10-26-16	
ESD-2-102516	10-292-02	Water	10-25-16	10-26-16	
ESD-3-102516	10-292-03	Water	10-25-16	10-26-16	
ESD-1-14.5	10-292-04	Soil	10-25-16	10-26-16	
ESD-2-14.5	10-292-06	Soil	10-25-16	10-26-16	
ESD-3-14.5	10-292-08	Soil	10-25-16	10-26-16	

Project: 00504-115-00

NWTPH-Gx

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-1-14.5					
Laboratory ID:	10-292-04					
Gasoline	ND	5.2	NWTPH-Gx	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	63-124				
Client ID:	ESD-2-14.5					
Laboratory ID:	10-292-06					
Gasoline	ND	5.2	NWTPH-Gx	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	63-124				
Client ID:	ESD-3-14.5					
Laboratory ID:	10-292-08					
Gasoline	ND	5.1	NWTPH-Gx	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	92	63-124				

Project: 00504-115-00

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
ESD-1-102516					
10-292-01					
ND	100	NWTPH-Gx	11-1-16	11-1-16	
Percent Recovery	Control Limits				
82	61-118				
ESD-2-102516					
10-292-02					
ND	100	NWTPH-Gx	11-1-16	11-1-16	
Percent Recovery	Control Limits				
82	61-118				
ESD-3-102516					
10-292-03					
ND	100	NWTPH-Gx	11-1-16	11-1-16	
Percent Recovery	Control Limits				
82	61-118				
	ESD-1-102516 10-292-01 ND Percent Recovery 82 ESD-2-102516 10-292-02 ND Percent Recovery 82 ESD-3-102516 10-292-03 ND Percent Recovery	ESD-1-102516 10-292-01 ND	ESD-1-102516 10-292-01 ND	Result PQL Method Prepared ESD-1-102516 10-292-01 100 NWTPH-Gx 11-1-16 ND 100 NWTPH-Gx 11-1-16 Percent Recovery 82 61-118 Fercent Recovery 82 11-1-16 Percent Recovery 82 Control Limits 61-118 11-1-16 ESD-3-102516 10-292-03 ND 100 NWTPH-Gx 11-1-16 Percent Recovery Control Limits 100 NWTPH-Gx 11-1-16	Result PQL Method Prepared Analyzed ESD-1-102516 10-292-01 100 NWTPH-Gx 11-1-16 11-1-16 ND 100 NWTPH-Gx 11-1-16 11-1-16 ESD-2-102516 10-292-02 11-1-16 11-1-16 Percent Recovery 82 Control Limits 61-118 61-118 ESD-3-102516 10-292-03 ND 100 NWTPH-Gx 11-1-16 11-1-16 Percent Recovery Control Limits 11-1-16 11-1-16 11-1-16

Project: 00504-115-00

NWTPH-Dx

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-1-14.5					
Laboratory ID:	10-292-04					
Diesel Range Organics	ND	28	NWTPH-Dx	11-2-16	11-2-16	
Lube Oil Range Organics	ND	57	NWTPH-Dx	11-2-16	11-2-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	111	50-150				
Client ID:	ESD-2-14.5					
Laboratory ID:	10-292-06					
Diesel Range Organics	ND	27	NWTPH-Dx	11-2-16	11-2-16	
Lube Oil Range Organics	ND	54	NWTPH-Dx	11-2-16	11-2-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	114	50-150				
Client ID:	ESD-3-14.5					
Laboratory ID:	10-292-08					
Diesel Range Organics	ND	27	NWTPH-Dx	11-2-16	11-2-16	
Lube Oil Range Organics	ND	54	NWTPH-Dx	11-2-16	11-2-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	111	50-150				

Project: 00504-115-00

NWTPH-Dx

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-1-102516					
Laboratory ID:	10-292-01					
Diesel Range Organics	ND	0.27	NWTPH-Dx	11-4-16	11-4-16	
Lube Oil Range Organics	ND	0.43	NWTPH-Dx	11-4-16	11-4-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				
Client ID:	ESD-2-102516					
Laboratory ID:	10-292-02					
Diesel Range Organics	ND	0.28	NWTPH-Dx	11-4-16	11-4-16	
Lube Oil Range Organics	ND	0.45	NWTPH-Dx	11-4-16	11-4-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				
Client ID:	ESD-3-102516					
Laboratory ID:	10-292-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	11-4-16	11-4-16	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	11-4-16	11-4-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	95	50-150				

Project: 00504-115-00

VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-1-14.5					
Laboratory ID:	10-292-04					
Dichlorodifluoromethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	0.0081	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	

Date of Report: November 8, 2016 Samples Submitted: October 26, 2016 Laboratory Reference: 1610-292

Project: 00504-115-00

VOLATILES EPA 8260C

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				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-1-14.5					
Laboratory ID:	10-292-04					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	0.0010	0.00081	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	0.0032	0.0016	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	73-134				
Toluene-d8	104	81-124				

4-Bromofluorobenzene 97 80-131



Project: 00504-115-00

VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

Client ID: ESD-2-14.5 Laboratory ID: 10-292-06 Dichlorodifluoromethane ND 0.00086 EPA 8260C 11-1-16 11-116 Chloromethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Vinyl Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 In-Dichloroethane ND 0.0086 EPA 8260C 11-1-16 11-1-16 Idodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Wethylene Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16					Date	Date	
Laboratory ID: 10-292-06 Dichlorodiffluoromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloromethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Vinyl Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Trichloroffuoromethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Trichloroffuoromethane ND 0.0086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Iodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Iodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 (trans) 1,2-Dichloroethene	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Dichlorodiffluoromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloromethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Vinyl Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Trichlorofluoromethane ND 0.0036 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Idodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl t-Buryl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.00086 EPA 8260C 11-1-	Client ID:	ESD-2-14.5					
Chloromethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Vinyl Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Trichlorofluoromethane ND 0.0086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.0086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Iodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Iodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.00086 EPA 8260C 11-1-16 <	Laboratory ID:	10-292-06					
Vinyl Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Tricklorofuoromethane ND 0.0086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethene ND 0.0086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Idodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.0043 EPA 8260C 11-1-16 11-1-16 </td <td>Dichlorodifluoromethane</td> <td>ND</td> <td>0.00086</td> <td>EPA 8260C</td> <td>11-1-16</td> <td>11-1-16</td> <td></td>	Dichlorodifluoromethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Bromomethane	Chloromethane	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
Chloroethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Trichlorofluoromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Iodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Carbon Disulfide ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyle Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.0043 EPA 8260C <td< td=""><td>Vinyl Chloride</td><td>ND</td><td>0.00086</td><td>EPA 8260C</td><td>11-1-16</td><td>11-1-16</td><td></td></td<>	Vinyl Chloride	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Iodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Carbon Disulfide ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.0043 EPA 8260C 11-1-16 11-1-16 Q-2-Dichloroethane ND 0.00086 EPA 8260C	Bromomethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Lodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Carbon Disulfide ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.00086 EPA 8260C 11-1-16 11-1-16 2,2-Dichloroptopane ND 0.00086 EPA 8260C 11-1-16 11-1-16 G(is) 1,2-Dichloroethane ND 0.00086 EPA 8260C<	Chloroethane	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
Acetone ND 0.0086 EPA 8260C 11-1-16 11-1-16 Iodomethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 Carbon Disulfide ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 E	Trichlorofluoromethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
ND	1,1-Dichloroethene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 Cisb 1,2-Dichloroethane ND	Acetone	ND	0.0086	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride ND 0.0043 EPA 8260C 11-1-16 11-1-16 (trans) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.0043 EPA 8260C 11-1-16 11-1-16 2,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 (cis) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Butanone ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-1-Fichloroethane ND 0.00086 EPA 826	Iodomethane	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.0043 EPA 8260C 11-1-16 11-1-16 2,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 (cis) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Butanone ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1,1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA	Carbon Disulfide	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.0043 EPA 8260C 11-1-16 11-1-16 2,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 (cis) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Butanone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16	Methylene Chloride	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Vinyl Acetate ND 0.0043 EPA 8260C 11-1-16 11-1-16 2,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 (cis) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Butanone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-	(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate ND 0.0043 EPA 8260C 11-1-16 11-1-16 2,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 (cis) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Butanone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C <td>Methyl t-Butyl Ether</td> <td>ND</td> <td>0.00086</td> <td>EPA 8260C</td> <td>11-1-16</td> <td>11-1-16</td> <td></td>	Methyl t-Butyl Ether	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 (cis) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Butanone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1,1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloromethane ND 0.00086 EPA 8	1,1-Dichloroethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Butanone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1,1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Benzene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C <td>Vinyl Acetate</td> <td>ND</td> <td>0.0043</td> <td>EPA 8260C</td> <td>11-1-16</td> <td>11-1-16</td> <td></td>	Vinyl Acetate	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
2-Butanone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1,1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.0043 EPA	2,2-Dichloropropane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1,1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Benzene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.00086 EPA 8	(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Chloroform ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1,1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Benzene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.0043	2-Butanone	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Benzene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.0043 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043	Bromochloromethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Benzene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	Chloroform	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Benzene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Benzene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	Carbon Tetrachloride	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	1,1-Dichloropropene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Trichloroethene ND 0.00086 EPA 8260C 11-1-16 11-1-16 1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.0043 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	Benzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	1,2-Dichloroethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Dibromomethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	Trichloroethene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane ND 0.00086 EPA 8260C 11-1-16 11-1-16 2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	1,2-Dichloropropane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether ND 0.0043 EPA 8260C 11-1-16 11-1-16 (cis) 1,3-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	Dibromomethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16 Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	Bromodichloromethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone ND 0.0043 EPA 8260C 11-1-16 11-1-16 Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
Toluene ND 0.0043 EPA 8260C 11-1-16 11-1-16	(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
	Methyl Isobutyl Ketone	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene ND 0.00086 EPA 8260C 11-1-16 11-1-16	Toluene	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
	(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	

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VOLATILES EPA 8260C

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				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-2-14.5					
Laboratory ID:	10-292-06					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	0.0019	0.0017	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
ert-Butylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
o-Isopropyltoluene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	73-134				
Toluene-d8	102	81-124				

4-Bromofluorobenzene

80-131

100

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Matrix: Soil Units: mg/kg

	Result	PQL	Method	Date	Date	
Analyte				Prepared	Analyzed	Flags
Client ID:	ESD-3-14.5					
Laboratory ID:	10-292-08					
Dichlorodifluoromethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Acetone	0.012	0.0085	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	

Date of Report: November 8, 2016 Samples Submitted: October 26, 2016 Laboratory Reference: 1610-292

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				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-3-14.5					
Laboratory ID:	10-292-08					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.0017	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260C	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	73-134				
Toluene-d8	106	81-124				

4-Bromofluorobenzene 103 80-131



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Matrix: Water Units: ug/L

- · · · · · · · · · · · · · · · · · · ·				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-1-102516					
Laboratory ID:	10-292-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	9.2	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	1.0	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	5.0	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	

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Client ID:					Date	Date	
Laboratory ID:		Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane							
Tetrachloroethene 0.26 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 11-1-16 12-Hexanone ND 0.20 EPA 8260C 11-1-16 11-1							
1,3-Dichloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 21-1-16 11-1-16	,1,2-Trichloroethane			EPA 8260C		11-1-16	
ND 2.9	etrachloroethene			EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromoethane ND 0.20 EPA 8260C 11-1-16 11-1-16 Chlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 Ethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 m,p-Xylene ND 0.40 EPA 8260C 11-1-16 11-1-16 o-Xylene ND 0.20 EPA 8260C 11-1-16 11-1-16 Styrene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 0.20 EPA 8260C 11-1-16 11-1-16 stopropylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	3-Dichloropropane	ND	0.20		11-1-16	11-1-16	
1,2-Dibromoethane ND 0.20 EPA 8260C 11-1-16 11-1-16 Chlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 Ethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 m,p-Xylene ND 0.40 EPA 8260C 11-1-16 11-1-16 o-Xylene ND 0.20 EPA 8260C 11-1-16 11-1-16 Styrene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 1.0 EPA 8260C 11-1-16 11-1-16 Isopropylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 stopropylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16	-Hexanone	ND	_	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 Ethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 m,p-Xylene ND 0.40 EPA 8260C 11-1-16 11-1-16 o-Xylene ND 0.20 EPA 8260C 11-1-16 11-1-16 Styrene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 1.0 EPA 8260C 11-1-16 11-1-16 Isopropylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Isopropylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Isopropylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 In-Propylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 In-Propylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	ibromochloromethane			EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 Ethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 m,p-Xylene ND 0.40 EPA 8260C 11-1-16 11-1-16 O-Xylene ND 0.20 EPA 8260C 11-1-16 11-1-16 Styrene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 1.0 EPA 8260C 11-1-16 11-1-16 Isopropylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromopylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 11,2,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16	,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 m,p-Xylene ND 0.40 EPA 8260C 11-1-16 11-1-16 o-Xylene ND 0.20 EPA 8260C 11-1-16 11-1-16 Styrene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 1.0 EPA 8260C 11-1-16 11-1-16 Bromobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Propylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Propylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	hlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene ND 0.40 EPA 8260C 11-1-16 11-1-16 b-Xylene ND 0.20 EPA 8260C 11-1-16 11-1-16 Styrene ND 0.20 EPA 8260C 11-1-16 11-1-16 Bromoform ND 1.0 EPA 8260C 11-1-16 11-1-16 Bromobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,2-Trichloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Propylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 2-Chlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16	1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
D-Xylene	thylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Styrene ND 0.20 EPA 8260C 11-1-16	ı,p-Xylene	ND	0.40	EPA 8260C	11-1-16	11-1-16	
ND 1.0 EPA 8260C 11-1-16 1	-Xylene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
ND	tyrene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
ND 0.20 EPA 8260C 11-1-16	romoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Propylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 2-Chlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 4-Chlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 4-Chlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3,5-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dichlorobenzene ND 0.20 EPA 8260C	opropylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	romobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
NP	1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 4-Chlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3,5-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 826	2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3,5-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Disolorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 0.20 EPA 8260C </td <td>-Propylbenzene</td> <td>ND</td> <td>0.20</td> <td>EPA 8260C</td> <td>11-1-16</td> <td>11-1-16</td> <td></td>	-Propylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 tert-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 sec-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 p-Isopropyltoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 0.20 EPA 8260C	-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 sec-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dishlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibrorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 0.20 EPA 8260C <t< td=""><td>-Chlorotoluene</td><td>ND</td><td>0.20</td><td>EPA 8260C</td><td>11-1-16</td><td>11-1-16</td><td></td></t<>	-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 sec-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dishlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibrorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 0.20 EPA 8260C <t< td=""><td>3,5-Trimethylbenzene</td><td>ND</td><td>0.20</td><td>EPA 8260C</td><td>11-1-16</td><td>11-1-16</td><td></td></t<>	3,5-Trimethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 sec-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 p-Isopropyltoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	<u>-</u>	ND	0.20	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 0-Isopropyltoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	•	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 p-Isopropyltoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	-	ND		EPA 8260C	11-1-16	11-1-16	
Delsopropyltoluene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,4-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-16 11-16 11-1-16 11-1-16 11-1-16 11-16 11-		ND	0.20		11-1-16	11-1-16	
1,4-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16		ND			11-1-16	11-1-16	
1,2-Dichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16		ND		EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 1,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16						11-1-16	
1,2-Dibromo-3-chloropropane ND 1.3 EPA 8260C 11-1-16 11-1-16 1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16		ND				11-1-16	
1,2,4-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16 Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	•					11-1-16	
Hexachlorobutadiene ND 0.20 EPA 8260C 11-1-16 11-1-16 Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16							
Naphthalene ND 1.0 EPA 8260C 11-1-16 11-1-16 1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16	•				_	11-1-16	
1,2,3-Trichlorobenzene ND 0.20 EPA 8260C 11-1-16 11-1-16					_	11-1-16	
• •	•						
Surrogate: Percent Recovery Control Limits	urrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limit
Dibromofluoromethane 102 77-129
Toluene-d8 100 80-127
4-Bromofluorobenzene 94 80-125



Project: 00504-115-00

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Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-2-102516					
Laboratory ID:	10-292-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	9.2	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	1.0	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	5.0	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	

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				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-2-102516					
Laboratory ID:	10-292-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	0.57	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	2.9	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.40	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	77-129				

Dibromofluoromethane 103 77-129
Toluene-d8 102 80-127
4-Bromofluorobenzene 96 80-125



Project: 00504-115-00

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Matrix: Water Units: ug/L

- · · · · · · · · · · · · · · · · · · ·				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-3-102516					
Laboratory ID:	10-292-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	9.2	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	1.0	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	5.0	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	

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				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	ESD-3-102516					
Laboratory ID:	10-292-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	0.99	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	2.9	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.40	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	77-129				

Dibromofluoromethane 103 77-129
Toluene-d8 101 80-127
4-Bromofluorobenzene 96 80-125



Project: 00504-115-00

TOTAL LEAD EPA 6010C

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-292-04					
Client ID:	ESD-1-14.5					
Lead	ND	5.7	6010C	11-3-16	11-3-16	
Lab ID:	10-292-06					
Client ID:	ESD-2-14.5					
Lead	ND	5.4	6010C	11-3-16	11-3-16	
Lab ID:	10-292-08					
Client ID:	ESD-3-14.5					
Lead	ND	5.4	6010C	11-3-16	11-3-16	

Project: 00504-115-00

TOTAL LEAD EPA 200.8

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-292-01					
Lab ID:						
Client ID:	ESD-1-102516					
Lead	2.2	1.1	200.8	10-31-16	10-31-16	
Lab ID:	10-292-02					
Client ID:	ESD-2-102516					
Lead	41	1.1	200.8	10-31-16	10-31-16	
Lab ID:	10-292-03					
Client ID:	ESD-3-102516					
Lead	ND	1.1	200.8	10-31-16	10-31-16	

Project: 00504-115-00

DISSOLVED LEAD EPA 200.8

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-292-01					
Client ID:	ESD-1-102516					
Lead	ND	1.0	200.8		11-1-16	
Lab ID:	10-292-02					
Client ID:	ESD-2-102516					
Lead	ND	1.0	200.8		11-1-16	
Lab ID:	10-292-03					
Client ID:	ESD-3-102516					
Lead	ND	1.0	200.8		11-1-16	

Project: 00504-115-00

NWTPH-Gx QUALITY CONTROL

Matrix: Soil

Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101S1					
Gasoline	ND	5.0	NWTPH-Gx	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	63-124				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	10-34	10-06								
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						95 96	63-124			

Project: 00504-115-00

NWTPH-Gx QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101W1					
Gasoline	ND	100	NWTPH-Gx	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	61-118				

					Source	Perc	ent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recov	ery	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	10-33	39-01									
	ORIG	DUP									
Gasoline	ND	ND	NA	NA		N/	١	NA	NA	30	
Surrogate:											
Fluorobenzene						84	79	61-118			

Project: 00504-115-00

NWTPH-Dx **QUALITY CONTROL**

Matrix: Soil

Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						_
Laboratory ID:	MB1102S1					
Diesel Range Organics	ND	25	NWTPH-Dx	11-2-16	11-2-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-2-16	11-2-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	123	50-150				

					Source	Percent	Recovery		RPD	
Analyte	nalyte Res		Spike Level		Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										,
Laboratory ID:	10-29	92-06								
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Ternhenyl						114 108	50-150			

o-Terphenyl 50-150 108

Project: 00504-115-00

NWTPH-Dx QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

Amalusta	Decult	DOL	Mathad	Date	Date	Посто
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	11-4-16	11-4-16	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	11-4-16	11-4-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	80	50-150				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	10-29	92-01								
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						86 93	50-150			

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VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

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Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1101S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	0.010	EPA 8260C	11-1-16	11-1-16	
lodomethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	

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VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Allalyte	Result	FQL	Wethou	гтератец	Allalyzeu	riays
Laboratory ID:	MB1101S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.0020	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane		0.0050	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Surrogate:	Percent Recovery	Control Limits	/. 52555			
Dibromofluoromethane	110	73-134				
טוטוטווטוועטוטווetriane	110	13-134				



Project: 00504-115-00

VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Per	cent	Recovery		RPD	
Analyte	Result		Spike	Spike Level		Recovery		RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB11	01S2								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0479	0.0508	0.0500	0.0500	96	102	66-127	6	15	
Benzene	0.0479	0.0511	0.0500	0.0500	96	102	76-122	6	15	
Trichloroethene	0.0465	0.0476	0.0500	0.0500	93	95	78-120	2	15	
Toluene	0.0506	0.0507	0.0500	0.0500	101	101	83-120	0	15	
Chlorobenzene	0.0485	0.0503	0.0500	0.0500	97	101	81-120	4	15	
Surrogate:										
Dibromofluoromethane					97	102	73-134			
Toluene-d8					99	102	81-124			
4-Bromofluorobenzene					97	100	80-131			

Project: 00504-115-00

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

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Matrix: Water Units: ug/L

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1101W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	9.2	EPA 8260C	11-1-16	11-1-16	
lodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	1.0	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	5.0	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	

Project: 00504-115-00

VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
7 mary to	rooun		mourou	. ropa.oa	7a.y 20 a	1 1490
Laboratory ID:	MB1101W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	2.9	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.40	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Surrogate:	Percent Recovery					

Surrogate:	Percent Recovery	Control Limits
Dibromofluoromethane	105	77-129
Toluene-d8	100	80-127
4-Bromofluorobenzene	97	80-125



Project: 00504-115-00

VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

					Per	cent	Recovery		RPD	
Analyte	Result		Spike Level		Rece	Recovery		RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB11	01W1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.90	10.5	10.0	10.0	99	105	63-127	6	17	
Benzene	10.3	10.5	10.0	10.0	103	105	76-121	2	12	
Trichloroethene	9.16	8.88	10.0	10.0	92	89	64-114	3	15	
Toluene	10.3	10.1	10.0	10.0	103	101	82-115	2	13	
Chlorobenzene	9.76	9.74	10.0	10.0	98	97	80-115	0	14	
Surrogate:										
Dibromofluoromethane					99	105	77-129			
Toluene-d8					101	101	80-127			
4-Bromofluorobenzene					93	97	80-125			

Project: 00504-115-00

TOTAL LEAD EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted: 11-3-16
Date Analyzed: 11-3-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB1103SM4

Analyte Method Result PQL

Lead 6010C **ND** 5.0

Project: 00504-115-00

TOTAL LEAD EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted: 11-3-16
Date Analyzed: 11-3-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-292-04

Sample Duplicate
Analyte Result Result RPD PQL Flags

Lead ND ND NA 5.0

Project: 00504-115-00

TOTAL LEAD EPA 6010C MS/MSD QUALITY CONTROL

Date Extracted: 11-3-16
Date Analyzed: 11-3-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-292-04

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	221	88	208	83	6	

Project: 00504-115-00

TOTAL LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Extracted: 10-31-16
Date Analyzed: 10-31-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1031WM1

Analyte Method Result PQL

Lead 200.8 **ND** 1.1

Project: 00504-115-00

TOTAL LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Extracted: 10-31-16 Date Analyzed: 10-31-16

Matrix: Water Units: ug/L (ppb)

Lab ID: 10-269-04

Sample Duplicate Analyte Result Result **RPD** PQL Flags ND ND NA 1.1 Lead

Project: 00504-115-00

TOTAL LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Extracted: 10-31-16 Date Analyzed: 10-31-16

Matrix: Water Units: ug/L (ppb)

Lab ID: 10-269-04

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Lead	222	214	96	221	100	3	

Project: 00504-115-00

DISSOLVED LEAD EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Analyzed: 11-1-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1101D1

Analyte Method Result PQL
Lead 200.8 **ND** 1.0

Project: 00504-115-00

DISSOLVED LEAD EPA 200.8 DUPLICATE QUALITY CONTROL

Date Analyzed: 11-1-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-332-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	1.40	1.46	4	1.0	

Project: 00504-115-00

DISSOLVED LEAD EPA 200.8 MS/MSD QUALITY CONTROL

Date Analyzed: 11-1-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-332-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	200	180	89	182	90	1	

Project: 00504-115-00

% MOISTURE

Date Analyzed: 11-1-16

Client ID	Lab ID	% Moisture
ESD-1-14.5	10-292-04	12
ESD-2-14.5	10-292-06	7
ESD-3-14.5	10-292-08	8



Data Qualifiers and Abbreviations

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical ______.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

7 -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference





Turnaround Request	Chain of Custody
101	Page

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished Such A-	Signature	8 650-3-14.5	7 ESD-3-11.5	9 ESD-5-14,5	5 850-2-11.5	4 ESD-1-14,5	3 ESD-3-102S16	2 ESD-2-102516	[ESD-1-102516	Lab ID Sample Identification	Sampled by: Sydney Browson	Sydney Branson	WA ECY - Elma SWRE Panks (Elma)	00-511-40500	Project Number	Phone: (425) 883-3881 • www.onsite-env.com	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052
							00	4						_	10/25/10	Date Sampled			Tann	2 Days	Same Day	_	Tur (ir
Reviewed/Date					8	661	Company	001	Shol	1230	1715	1410	1130	1250	1430	Time Sampled	(other)		Standard (7 Days) (TPH analysis 5 Days)	/s 	Day	(Check One)	Turnaround Request (in working days)
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Chromatograms with final report Electronic Data Deliverables (EDDs)	rd □ Lev	0	CDD Requested Total analysis	dusty ses	Hughes to Contrict w/ request ter	Jevemy	Comments/Special Instructions	X X)	(X)		(X)	88	(X) (X)	××××××××××××××××××××××××××××××××××××××	Semiv (with In PAHs PCBs Organ Organ Chlorin Total F Total P	olatiles ow-level 8270D/88082A ochlorir ophosp nated ARCRA MATCA Motale	8270Del PAHs SIM (Ico ne Pesi chorus deid He Metals Metals)/SIM	081B es 8270 8151A)	10-292

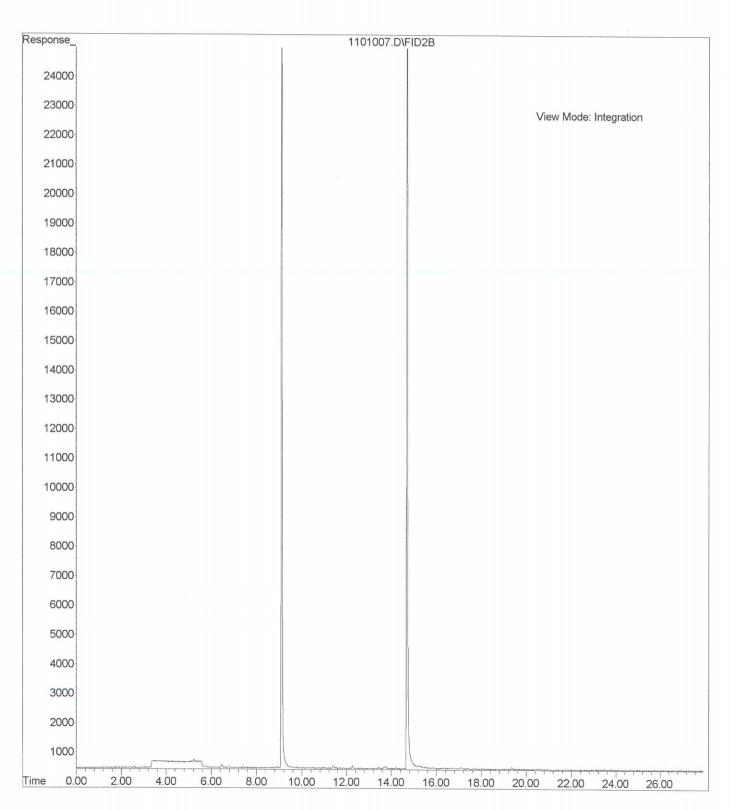
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Instrument : Hope

Sample Name: 10-292-01f

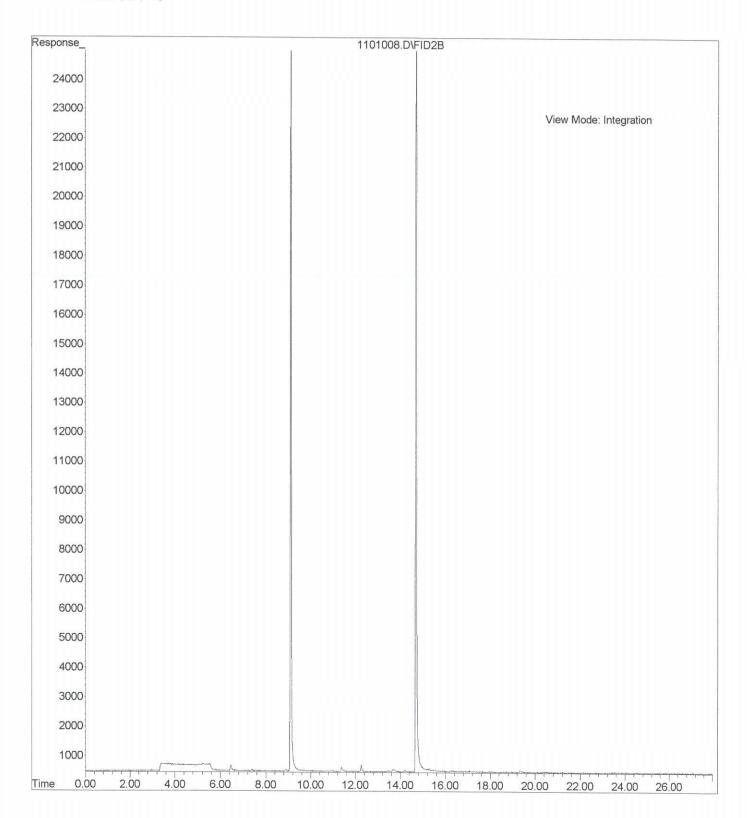


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Instrument : Hope
Sample Name: 10-292-02f

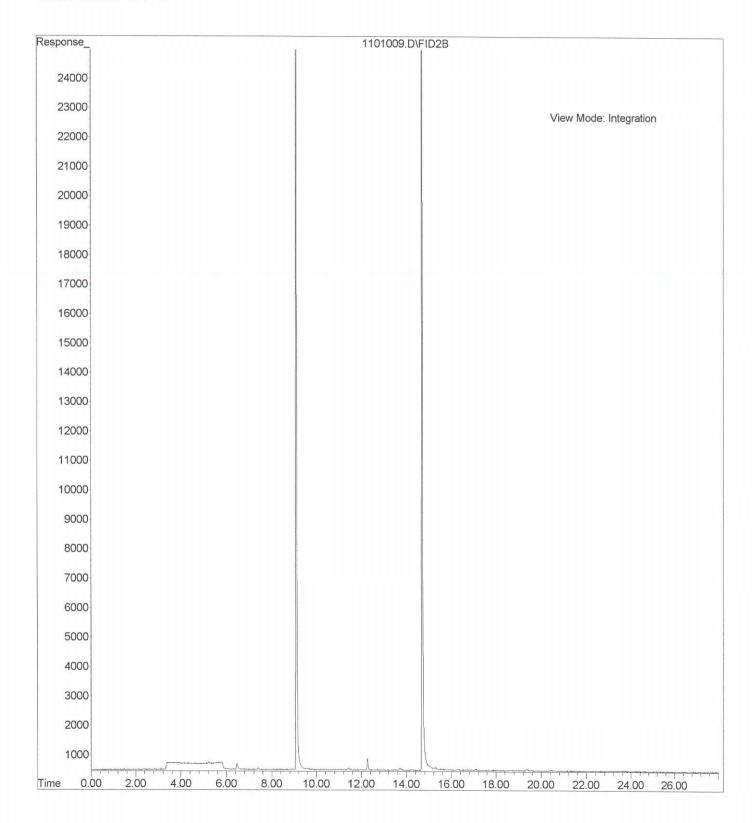


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Operator :

Acquired: 1 Nov 2016 11:57 using AcqMethod 160630BG.M

Instrument: Hope Sample Name: 10-292-03f

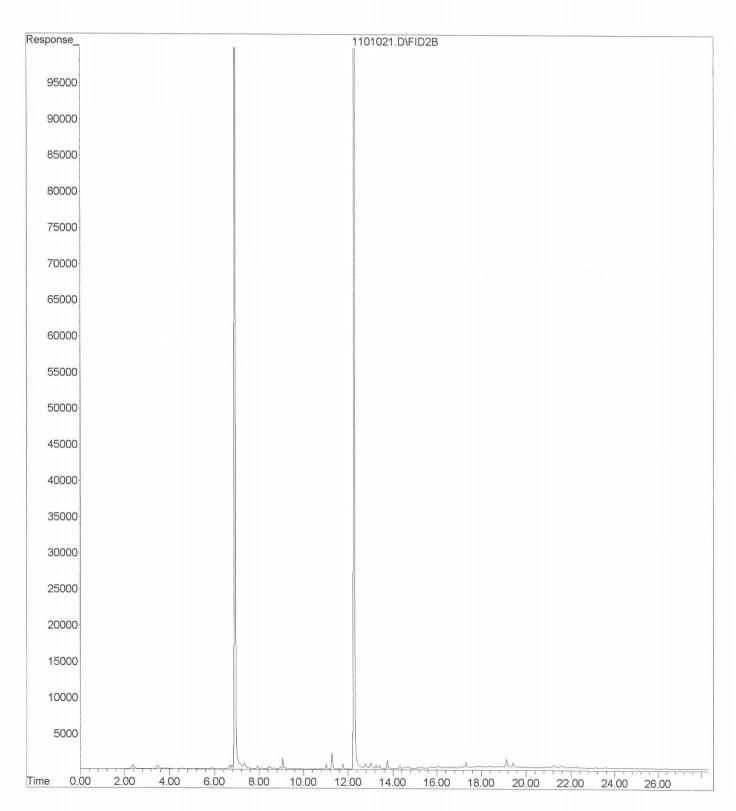


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Instrument : Daryl Sample Name: 10-292-04s

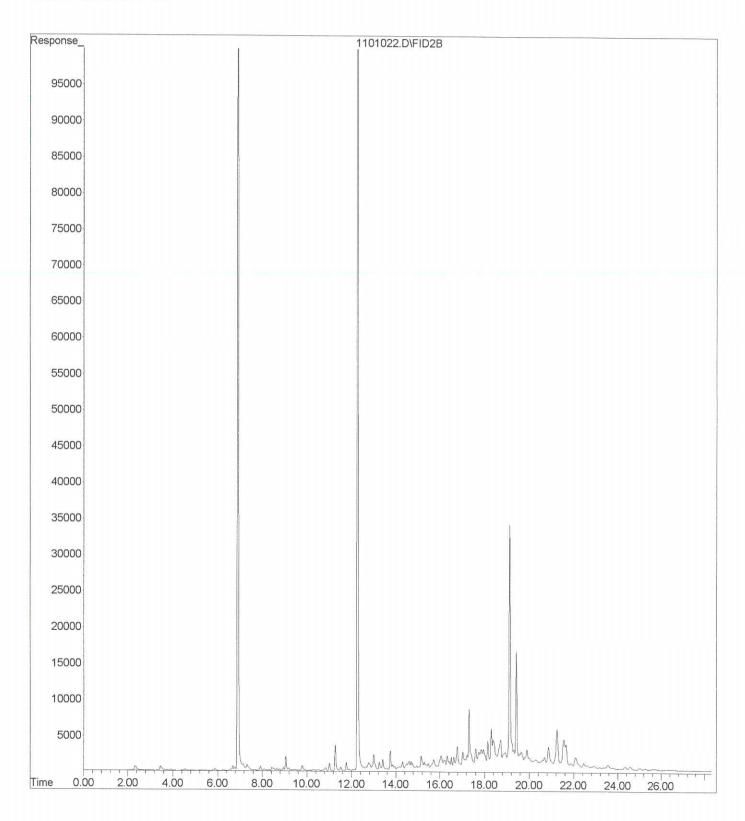


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Operator :

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Instrument : Daryl
Sample Name: 10-292-06s

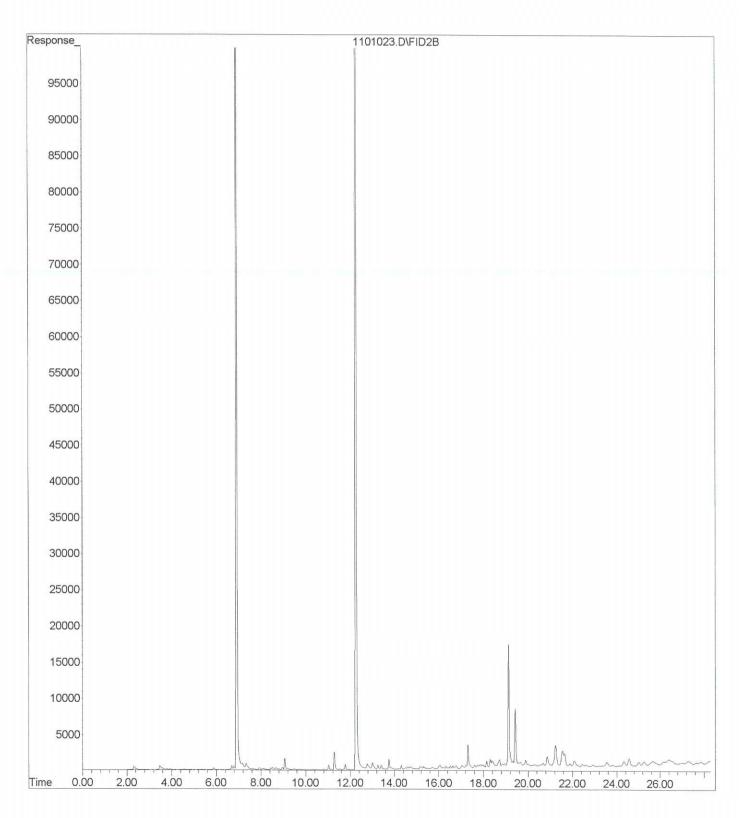


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Instrument : Daryl
Sample Name: 10-292-08s

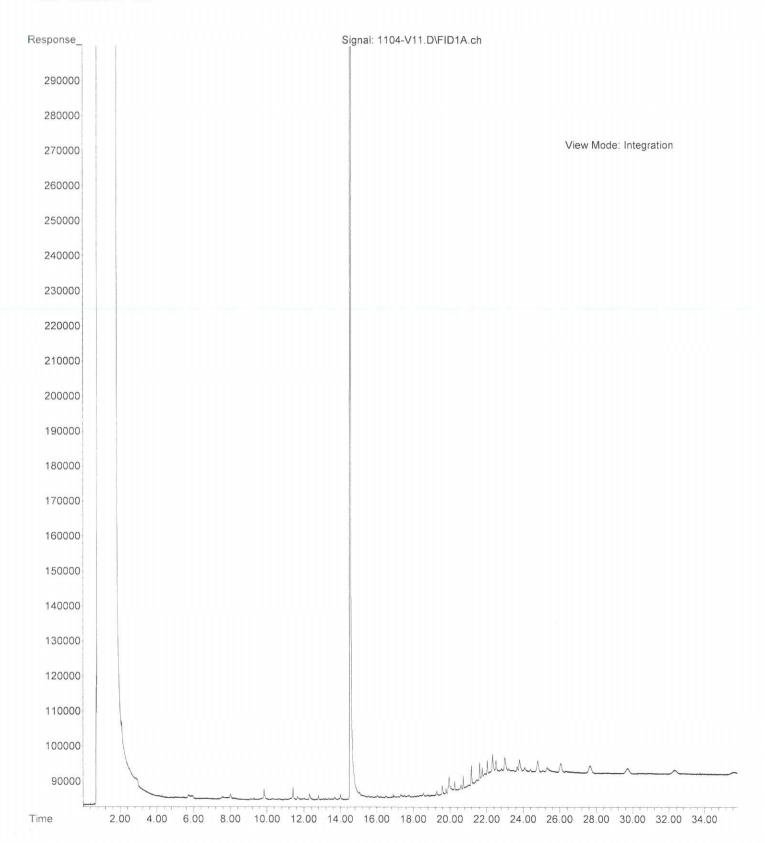


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Operator :

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Instrument : Vigo Sample Name: 10-292-01

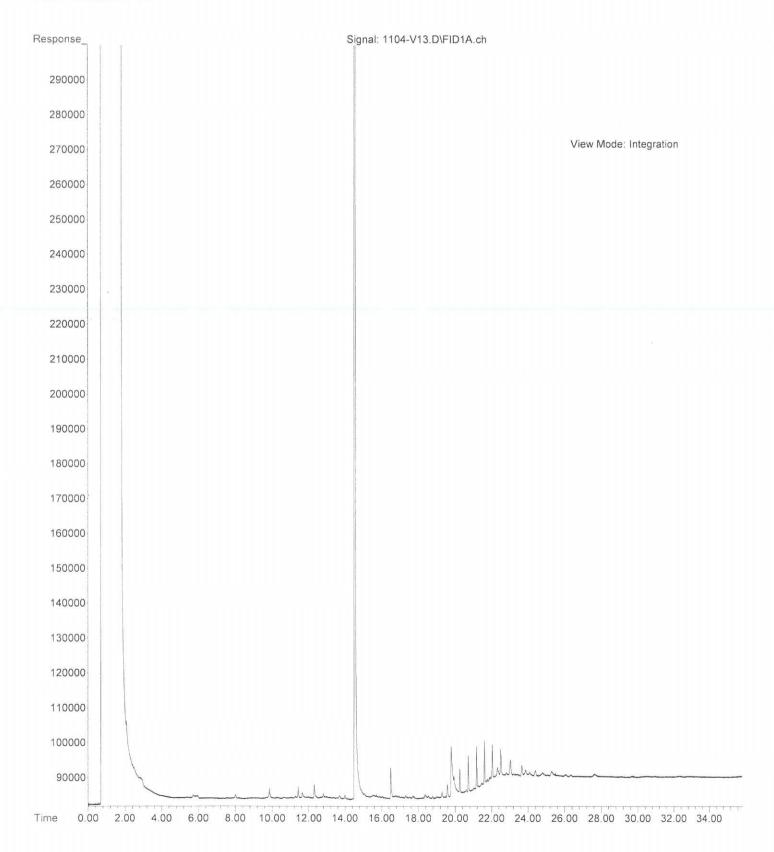


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Operator

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Instrument : Vigo Sample Name: 10-292-02

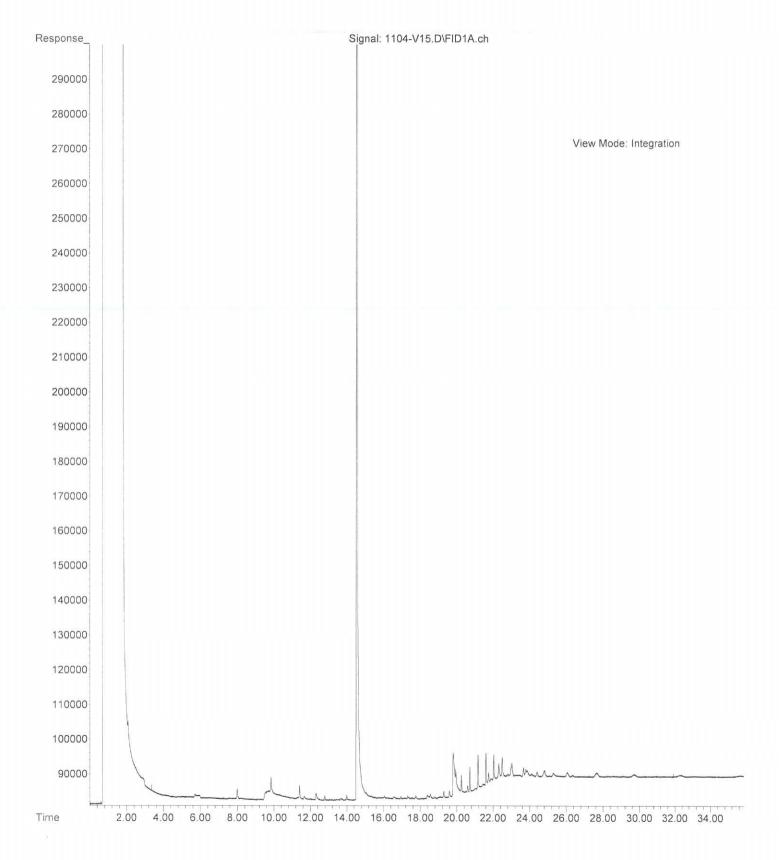


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Operator :

Acquired : 4 Nov 2016 19:44 using AcqMethod V160602F.M

Instrument : Vigo Sample Name: 10-292-03

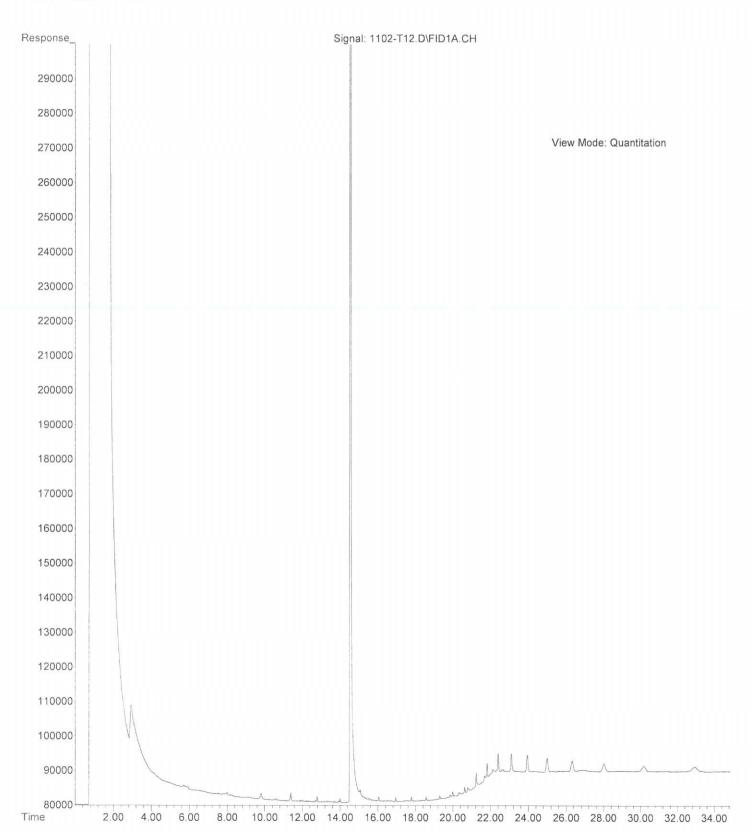


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Operator : ZT

Acquired : 02 Nov 2016 18:01 using AcqMethod T160812F.M

Instrument : Teri Sample Name: 10-292-04

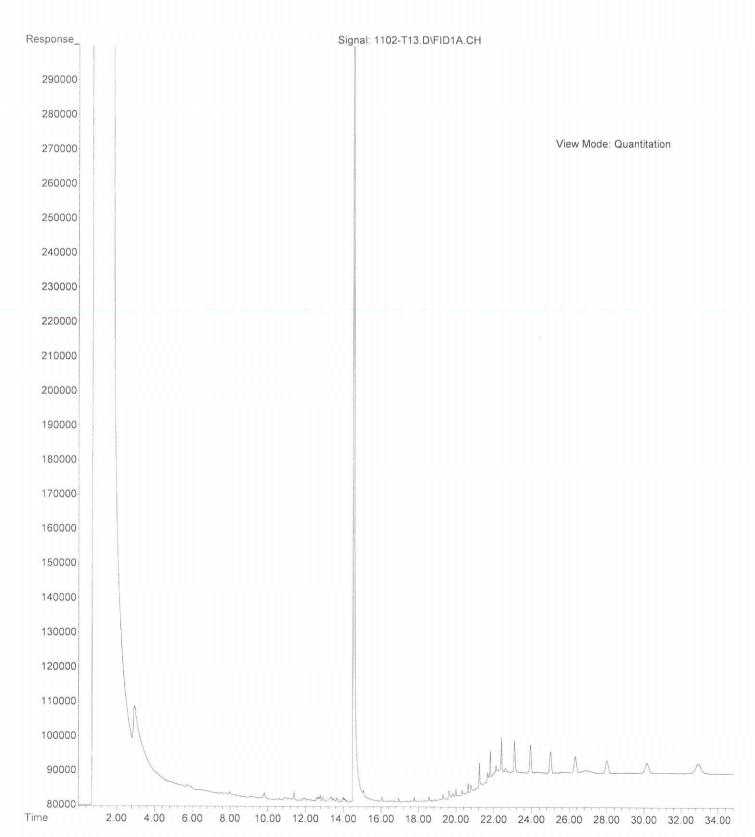


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Operator : ZT

Acquired : 02 Nov 2016 18:43 using AcqMethod T160812F.M

Instrument : Teri Sample Name: 10-292-06

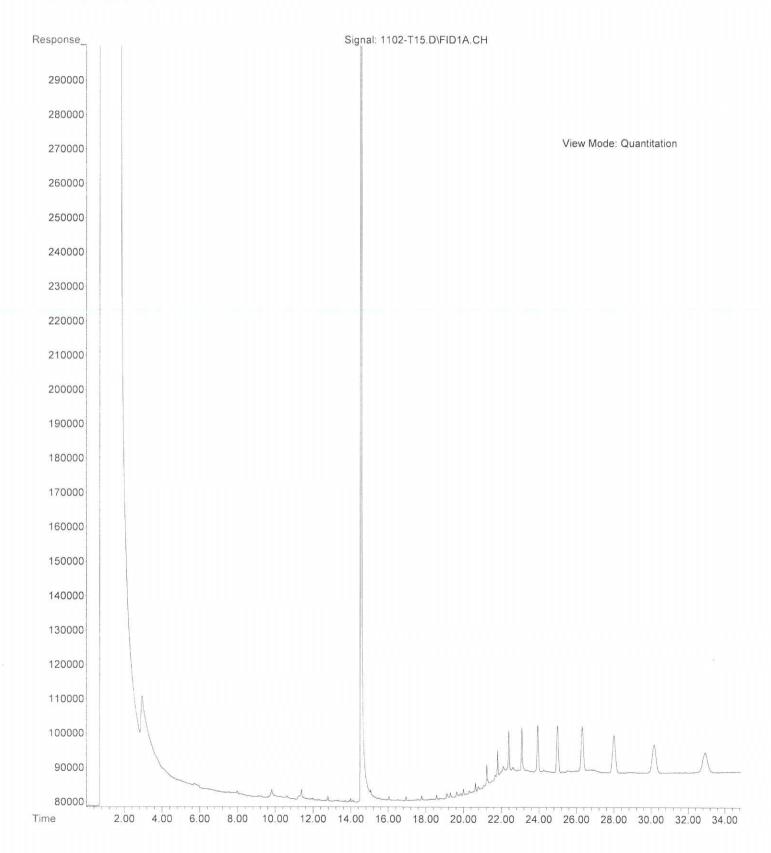


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Operator : ZT

Acquired: 02 Nov 2016 20:09 using AcqMethod T160812F.M

Instrument : Teri Sample Name: 10-292-08



APPENDIX C Report Limitations and Guidelines for Use

APPENDIX C REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This appendix provides information to help you manage your risks with respect to the use of this report.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or site.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for the exclusive use of the Washington State Department of Ecology, their authorized agents and regulatory agencies. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment or remedial action study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except the Washington State Department of Ecology should rely on this plan without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report Is Based on a Unique Set of Project-Specific Factors

GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.

If important changes are made after the date of this remedial action plan, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

No third party may rely on the product of our services unless GeoEngineers agrees in advance, and in writing to such reliance. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

Environmental Regulations Are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Subsurface Conditions Can Change

This report is based on conditions that existed at the time our site studies were performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Soil and Groundwater End Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other sites or for other on-Site uses of the affected media (soil and/or groundwater). Note that hazardous substances may be present in some of the Site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject Site or reuse of the affected media on Site to evaluate the potential for associated environmental liabilities. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject Site to another location or its reuse on Site in instances that we were not aware of or could not control.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If Client desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.

Do Not Redraw the Exploration Logs

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design drawings. Only photographic or electronic reproduction is acceptable, but recognize that separating logs from the report can elevate risk.

Geotechnical, Geologic and Environmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from the sampling locations at the site documented in past reports. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. There is always a potential that areas of contamination exist in portions of the site that were not sampled or tested during this or previous studies. Our remedial action plan, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.