# Phase II Environmental Site Assessment State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity Seattle, Washington

Prepared for

Washington State Department of Transportation SR520 Bridge Replacement and HOV Program 999 3rd Ave Suite 2200 Seattle, WA 98104

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December 8, 2016

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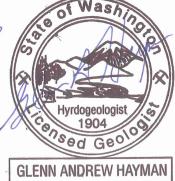
We have performed a Phase II environmental site assessment of the property at (SR) 520 Eastbound Off-Ramp to Montlake Vicinity Seattle, Washington in conformance with the scope and limitations of ASTM Practice E 1903-11 and for the following objectives:

The Phase II ESA was conducted to determine if petroleum related contamination is present in the subsurface of the Washington State Department of Transportation (WSDOT) and City of Seattle right-of-way adjacent to the property at 2625 East Montlake Place East due to potential releases from the underground storage tanks (USTs) and/or the auto body/service station. The USTs and potential contaminant source was identified in the Limited Phase I ESA conducted by WSDOT (WSDOT, 2016).

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## Acronyms and Abbreviations

bgs	below ground surface
COPC	contaminant of potential concern
CSM	Conceptual Site Model
Dx	Diesel-range petroleum hydrocarbons
Ecology	Washington Department of Ecology
ESA	Environmental Site Assessment
Gx	Gasoline-range hydrocarbons
HCID	Hydrocarbon Identification
INNOVEX	Innovex Environmental Management, Inc.
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MTCA	Model Toxics Control Act
NWTPH	Northwest Total Petroleum Hydrocarbons
OnSite	OnSite Environmental Inc.
РСВ	Polychlorinated Biphenyl
PDI	Photoionization Detector
PP-13	Priority Pollutant Metals
Program	SR 520 Bridge Replacement and HOV Program
QA	Quality Assurance
QC	Quality Control
RPD	Relative Percent Difference
SR	State Route
SAP	Sampling and Analysis Plan
SDOT	Seattle Department of Transportation
SVOC	Semivolatile Organic Compound
TPHg	Total Petroleum Hydrocarbons as Gasoline
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WAC	Washington Administrative Code
WSDOT	Washington State Department of Transportation

### 1.0 INTRODUCTION

#### 1.1 Authorization

Innovex Environmental Management, Inc. (INNOVEX) has completed a Phase II Environmental Site Assessment (ESA) of City of Seattle and WSDOT right-of-way in the vicinity of 2625 East Montlake Place East, Seattle, Washington (Site) for the Washington State Department of Transportation (WSDOT) SR520 Bridge Replacement and HOV Program (PROGRAM). This work was conducted under Master Subconsultant Agreement Y-11848, Task Order AU00.

A Sampling and Analysis Plan (SAP) was prepared to describe the Phase II ESA activities for WSDOT and as a guide for field activities, including explorations, field testing, soil and groundwater sampling, and the handling of investigation-derived waste (IDW). Deviations from the SAP are summarized in Section 4.8 of this report.

#### 1.2 Objective

The Phase II ESA was conducted to determine if petroleum related contamination was present in the subsurface of the right-of-ways adjacent to the property at 2625 East Montlake Place East due to the '76 gasoline and service station at this address. The USTs and potential contaminant source was identified in the Limited Phase I ESA conducted by WSDOT (WSDOT, 2016).

The scope of this investigation included the following tasks:

- Advancement of five soil borings to collect soil and, if encountered, groundwater samples for chemical analysis.
- Collection and analysis of soil and groundwater samples to determine if petroleum related contamination is present in the soil and groundwater beneath the Site.
- If petroleum related contamination is detected, additional samples were collected to determine the vertical and horizontal extent of the contamination plume when possible.
- Analysis of one soil sample from each boring for Site contaminants of concern. Additional samples were analyzed based on field observations and initial analytical results with the approval of the WSDOT Project Manager.
- The results of this Phase II investigation will be used to assist WSDOT in management of potential environmental risks associated with the reconstruction of the eastbound SR 520 off ramp to Montlake Boulevard East and East Montlake Place East.

### 2.0 SITE BACKGROUND

#### 2.1 Site Description

The areas investigated for the Phase II ESA are the City of Seattle and WSDOT SR 520 right-of-ways in the vicinity of 2625 East Montlake Place East, Seattle, Washington. The investigation took place in the northeast quarter of Township 25 North, Range 4 East and Section 21.

#### 2.2 Site History

East Montlake Place East was shown on the 1897 and the 1909 (reprinted 1936) topographic maps. The area of investigation was otherwise undeveloped. By 1949 the roads and streets in the area were largely in place, with the exception of SR 520. SR 520 was built in the early 1960's. The area adjacent to the Site is a residential neighborhood. The Montlake Playfield, a community center and sports field are a few blocks west of the Site.

#### 2.2.1 Limited Phase I Environmental Site Assessment (ESA) Results

WSDOT conducted a limited Phase I ESA of the property immediately south and west of the areas investigated. This property is occupied by a '76 gasoline and service station and the Montlake Boulevard Market. Historically the property has been operated as a gasoline station and grocery store since 1926. The findings of limited Phase I ESA relevant to this Phase II ESA are:

- There are three active single wall gasoline USTs on the property. The year of installation and the UST size are as follows: 1952, 5,000 gallons; 1962, 10,000 gallons; and 1975, 10,000 gallons. In addition, in 1975 a 300 gallon used waste oil UST was installed. This tank was closed in place at an unknown date.
- There was no known environmental documentation identified during the limited Phase I investigation indicating that an inadvertent spill or release was present at the Site.
- An oil and gasoline facility resided northwest of the Subject Property across West Montlake Place.

The Limited Phase I recommendations included that a Phase II ESA be conducted to determine if the USTs have failed and released petroleum hydrocarbons into the surrounding soils and/or groundwater.

#### 2.3 **Previous Environmental Sampling and Analysis**

WSDOT provided INNOVEX with copies of analytical reports for soil samples from nearby geotechnical explorations. The explorations are H-609p-11, H-667p-15 and H-691p-16 (Figure 2). Hydrocarbons were not detected in the soil sample from each exploration that was analyzed. The analytical results for a groundwater sample collected from H-667p-15 were also provided. In the sample, total petroleum hydrocarbons as gasoline (TPHg) was detected at a concentration of 170 micrograms per liter (ug/L) and total xylenes were detected at a concentration of 1.6 ug/L. The concentrations of the detected compounds are below the cleanup levels of 1,000 ug/L and 1,000 ug/L respectively. Laboratory analytical reports are presented in Appendix B. The Limited Phase I ESA identified a former oil and gasoline facility near the location of boring H-667p-15 from a Sanborn Map. An enlarged portion of the Sanborn Map is contained in Appendix C

### 3.0 PHYSICAL SETTING AND GEOLOGY

#### 3.1 Physical Setting

The Site lies within the Puget Sound Lowland, which consists of a broad, low-lying region situated between the Cascade Range to the east and the Olympic Mountains to the west. The Lowland depression is underlain by Tertiary volcanic and sedimentary bedrock and is filled to the present-day land surface with Quaternary glacial and non-glacial sediments.

The Puget Sound Lowland's present-day geomorphic features can be attributed to the last continental glacier, the Cordilleran ice sheet, which covered the region during the Fraser Glaciation. The ice sheet advanced from British Columbia 18,000 years ago to just south of Olympia and disappeared approximately 10,000 years ago (Lasmanis, 1991).

The area investigated was below paved surfaces within the right of way for East Montlake Place East and the SR 520 eastbound off ramp. The surface elevation was between approximately 50 and 60 feet above the NAVD 88 datum. The surface topography slopes to the west towards Portage Bay.

#### 3.2 Site Geology and Hydrogeology

The Site lies approximately 600 feet east of Portage Bay (Lake Union). Groundwater flow is inferred to follow surface topography and flow to the west. The topographic relief is less than 10 feet and primarily due to the slope of the SR 520 off ramp.

Subsurface conditions at the Site have been interpreted from the soil boring logs completed during this investigation, and from geotechnical boring logs provided by WSDOT. The borings were advanced as part of the geotechnical evaluation of the SR 520 Bridge Replacement and HOV Program. The borings are H-609p-15, H-667p-15 and H-691p-16 (Figure 2). Each boring had a transducer for water level measurements installed in it. The nominal depth to groundwater is generally 10 to 12 feet below ground surface (bgs). Boring logs, groundwater level measurements and a figure with boring locations are presented in Appendix B.

The near surface soils observed below the roadway subgrade were generally found to be silty sand with some fine gravel during the Phase II ESA fieldwork. Dense glacial till was encountered at a depth of between 15 and 24 feet bgs. The till was primarily fine silty sand and fine sandy silt with occasional fine to medium gravel and some clay. Boring logs are presented in Appendix A.

## 4.0 PHASE II ESA ACTIVITIES

#### 4.1 Scope of Assessment

A sampling and analysis plan was developed (INNOVEX, 2016) to investigate recognized environmental conditions (RECs) identified in the Limited Phase I ESA. A total of five soil borings were conducted. Subsurface soil samples and groundwater samples were submitted to OnSite Environmental Inc. (OnSite) in Redmond, Washington for chemical analysis. Our rationale and the results for the exploration program are summarized below.

#### 4.2 Conceptual Site Model and Sampling Plan

In order to provide a framework for evaluating data gaps and subsequent analytical data, a conceptual site model (CSM) depicting potential sources of chemicals, release mechanisms, means of retention in or migration to exposure media, exposure routes, and receptors was developed for the Site. The CSM describes, in a generalized way, the interactions of potential contaminants, mechanisms of contaminant migration, and possible routes of human and ecological exposure under site-specific conditions.

Based on background information previously presented, the contaminants of potential concern (COPCs) identified for the Site included:

- Gasoline-range petroleum hydrocarbons
- Diesel-range petroleum hydrocarbons
- Oil-range petroleum hydrocarbons
- Polychlorinated Biphenyls (PCBs)
- Volatile Organic Compounds (VOCs)
- Semi-volatile Organics (SVOCs)
- Priority Pollutant Metals (PP-13)

The PP-13 metals are; antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc.

#### 4.3 Utility Location

WSDOT coordinated the utility locating. There were no buried utilities at the boring locations. On East Montlake Place East there were overhead power lines for king County Metro electric trolleys. WSDOT arranged for the power to be turned off to allow soil borings to be advanced.

#### 4.4 Permits and Traffic Control

WSDOT obtained Street Use permits from WSDOT and SDOT for work on the SR 520 off ramp and East Montlake Place East respectively. In addition, they obtained a noise variance to allow the drilling to be conducted at night, and reducing the impacts to traffic and local businesses.

WSDOT prepared a traffic control plan. INNOVEX subcontracted GHD, Inc. to implement the plan.

#### 4.5 Mud Rotary Drilling

Five soil borings were advanced and sampled (Figure 2) by a WSDOT drilling crew with a mud rotary drill rig. The drilling mud consisted of water with no bentonite or other additives. Drilling fieldwork was conducted on the nights of October 6, 7, and 8, 2016. Although there were no known releases identified by the Limited Phase I ESA, the Program determined it prudent to investigate subsurface conditions within City and State right-of-ways adjacent to the '76 gasoline and service station.

Fieldwork consisted of collecting subsurface soil samples with a 2-inch split spoon from a total of five soil boring locations. A petroleum odor and elevated photoionization detector (PID) readings were noted in soil samples from four of the borings. Soil samples from boring H-1-16 did not have a petroleum odor or elevated PID readings.

Downhole drilling equipment, hoses, and storage tank and pump on the rig were decontaminated at the WSDOT facility on South Corson Avenue in Seattle before the start of drilling and after each nights work. The drilling mud (water) was changed between each boring.

#### 4.6 Soil and Groundwater Sampling

A total of 40 soil samples and one groundwater sample were collected from the soil borings. Eight soil samples were collected from each boring. The soil sample from each boring with the highest PID reading was selected for chemical analysis except as discussed in the next paragraph for samples from boring H-1-16. Additional samples were analyzed for selected analyses based on field screening and initial analytical results with the approval of the WSDOT Project Manager.

Soil samples from boring H-1-16 did not have elevated PID readings. The soil sample from above the contact with dense glacial till was selected for chemical analysis.

One groundwater sample was collected with the driller's bailer from boring H-3-16 located on the SR 520 off ramp. No other groundwater samples were collected.

#### 4.7 Analytical Methods

The COPCs identified for the Site include petroleum hydrocarbon related constituents. Selected soil and groundwater samples were analyzed to determine the concentrations of these COPCs using the following methods:

- Hydrocarbon Identification (HCID) Northwest Total Petroleum Hydrocarbon (NWTPH) HCID (Soil and water)
- Gasoline-range petroleum hydrocarbons –NWTPH-Gx (soil and water)
- Diesel-range petroleum hydrocarbons NWTPH-Dx (soil and water)
- Oil-range petroleum hydrocarbons NWTPH-Dx (soil and water)
- Polychlorinated Biphenyls (PCBs) EPA Method 8082 (soil and water)
- Volatile Organic Compounds (VOCs) EPA Method 8260 (soil and water)
- Semi-volatile Organics (SVOCs) EPA Method 8270 (soil and water)
- Priority Pollutant Metals (PP-13) EPA Method 6010 (soil and water)

Table 1 summarizes the samples submitted to OnSite Environmental (OnSite) for chemical analysis and the requested analyses.

#### 4.7.1 Soil Analytical Results

Detected analytes in soil are summarized in in the following tables:

- Table 4 HCID Soil Analytical Results
- Table 5 Volatile Organic Compounds Detected in Soil Samples
- Table 6 Semivolatile Organic Compounds Detected in Soil Samples
- Table 7 Polychlorinated Biphenyls Detected in Soil Samples
- Table 8 Metals Detected in Soil Samples

The analytical reports are included in Appendix D.

HCID analysis did not detect total petroleum hydrocarbons as gasoline (TPHg) in samples from borings H-1-16, H-2-16, H-3-16, and H-5-16 (Table 4). TPHg was detected in two soil samples from boring H-4-16.

VOCs were not detected in the analyzed soil sample from boring H-1-16. VOCS were detected in soils samples from soil borings H-2-16, H-3-16, H-4-16 and H-5-16 (Table 5). VOCs above the applicable cleanup level were detected soil samples from borings H-3-16, H-4-16, and H-5-16. The compounds that had concentrations above the cleanup level are benzene, ethylbenzene, total xylene, naphthalene, and methylene chloride.

SVOCs were not detected in the analyzed soil sample from boring H-1-16. SVOCS were detected in soils samples from soil borings H-2-16, H-3-16, H-4-16 and H-5-16 (Table 6). One SVOC, naphthalene, was above the applicable cleanup level in a soil sample from borings H-4-16. Naphthalene is an analyte for both the VOC and SVOS analytical method.

PCBs were not detected in any of the soil samples analyzed (Table 7).

Chromium, copper, lead, nickel and zinc were present in soil samples from each of the five boring at concentrations above the analytical method reporting limit (Table 8). Copper and nickel were present at concentrations above the applicable cleanup level.

#### 4.7.2 Groundwater Analytical Results

One groundwater sample was collected as part of the investigation. It was collected from boring H-3-16 and was analyzed for VOCs, SVOCs and dissolved metals. The detected analytes are summarized in Table 2. Three VOCs, benzene, bromochloromethane, and chloroform; and two dissolved metals, antimony and arsenic had concentrations greater than the applicable cleanup level.

#### 4.8 Deviations from the Sampling and Analysis Plan

The approved SAP identified the drilling method as auger drilling. The drilling crew arrived on site with a mud rotary drill rig. The WSDOT and Innovex project managers talked and recognized that by using mud rotary drilling the data quality would be of reduced and that the data would not be legally defensible. Contaminant concentrations could be impacted because the recirculated drilling mud (water with no additives) could reduce high contaminant concentrations and also increase low

contaminant concentrations in soil or groundwater. However; the data would be of sufficient quality to determine if contaminants of concern were present in the soil and to meet the needs of WSDOT.

#### 4.9 Data Quality

Data reports from OnSite were reviewed by INNOVEX. Laboratory provided data quality parameters were reviewed. Data qualifiers were applied as necessary. Data for VOCs, PAHs, PCBs, MTCA metals, and TPHs were determined by INNOVEX to be as qualified acceptable for all purposes following evaluation of the quality control specifications presented in the SAP; or equivalent requirements found in the contracted commercial laboratory analytical methods. Precision, accuracy, representativeness, comparability, and completeness parameters were evaluated for each method. In addition to laboratory control samples, the data were also reviewed for trip temperature and holding time.

The Method 5035A VOA vials provided for soil sample H-1-16-10 contained too much soil to perform the requested analysis. Therefore, the sample was extracted from an 8-ounce jar and analyzed. Some loss of volatiles may have occurred.

All four Internal Standards did not meet acceptance criteria for samples H-3-16-6 and H-3-16-8.5. The samples were re-analyzed with similar results. Leaks in the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. The samples were consequently extracted from their respective 8-ounce jars, analyzed, and reported. Some loss of volatiles may have occurred, and common laboratory solvents Acetone and Methylene Chloride may have been introduced during sample preparation. Acetone and Methylene Chloride were detected in sample H-3-16-8.5. Methylene Chloride was detected sample H-3-16-8.5. These results were "H" qualified indicating that the analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

OnSite followed most recent version of the specified analytical methods. Precision was acceptable as demonstrated by the reported matrix spike/matrix spike duplicate (MS/MSD) laboratory control sample/laboratory control sample duplicate (LCS/LCSD) relative percent difference (RPD) values. Accuracy was also acceptable, as demonstrated by the reported surrogate, MS/MSD and LCS/LCD percent recovery values. Samples were collected and field activities were conducted in accordance with the SAP, with the exception of the deviations described in the above section.

#### 4.10 Disposal of Investigation Derived Waste

Investigation Derived waste (IDW) including soil cuttings, decontamination water and drilling mud were containerized by the drilling crew and taken to the WSDOT facility on Corson Avenue, Seattle for temporary storage pending sample analytical results followed by proper disposal.

### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the above findings, deviations from the SAP and analytical results presented above we offer the following conclusions for this investigation.

- VOCs were the primary analytes detected in soil samples at concentrations above applicable MTCA cleanup levels.
- The only SVOC detected soil samples above the applicable MTCA cleanup level was naphthalene in one sample.
- PCBs were not detected in any of the soil or groundwater samples analyzed.
- Copper and Nickel are the only metals detected in soil samples at concentrations above the MTCA soil cleanup level for protection of groundwater.
- VOCs were present in the groundwater sample at concentrations above applicable MTCA cleanup levels.
- No SVOCs were detected in the groundwater sample at concentrations above applicable MTCA cleanup levels.
- PCBs were not detected in the groundwater sample.
- Antimony and arsenic were detected in the groundwater sample at concentrations above applicable MTCA cleanup levels.
- Soil and groundwater in the investigation area appear to be impacted by gasoline and related compounds at concentrations above applicable MTCA cleanup levels.
- Contamination was detected in soil samples collected from boring H-4-16 at depths of up to 25 feet bgs.

The source of the gasoline related analytes and contaminants detected in the soil and groundwater samples collected as part of this investigation is potentially the current or former USTs at the adjacent service station. It is recommended the additional investigation on the service station property be conducted to determine the extent of the contamination identified by this Phase II ESA.

To ensure the results of future environmental investigations are legally defensible INNOVEX recommends that mud rotary drilling not be used.

### 6.0 LIMITATIONS

This report is based on the Site conditions, data, and other information available as of the date of the report, and the conclusions herein are applicable only to the time frame in which the report was prepared. Background information used to prepare this report including, but not limited to Site plans and other data have been furnished to INNOVEX by WSDOT and as available on Ecology's website. INNOVEX has relied on this information as furnished, and is neither responsible for nor has confirmed the accuracy of this information.

### 7.0 REFERENCES

- WSDOT (Washington State Department of Transportation), 2016. Limited Phase I Environmental Site Assessment State Route (SR) 520 Montlake '76 Gasoline and Service Station, Seattle, Washington
- Lasmanis, Raymond, 1991. The Geology of Washington Rocks and Minerals. Volume 66, No. 4, p. 262-277.

## TABLES

Sample Name	Sample Depth (ft bgs)	HCID	TPHg	PCBs	VOCs	SVOCs	PP-13
			Soil Sample	s			
H-1-16-10	10	Х		Х	Х	Х	Х
H-2-16-13.5	13.5	Х		Х	Х	Х	Х
H-3-16-3	3	Х		Х	Х	Х	Х
H-3-16-6	6	Х		Х	Х	Х	Х
H-3-16-8.5	8.5	Х		Х	Х	Х	Х
H-4-16-3	3	Х	Х				
H-4-16-6	6	Х	Х				
H-4-16-8.5	8.5	Х	Х				
H-4-16-11	11	Х	Х				
H-4-16-16	16	Х	Х	Х	Х	Х	Х
H-4-16-18.5	18.5	Х	Х				
H-4-16-19.9	19.9	Х	Х				
H-4-16-25.4	25.4	Х	Х				
H-5-16-3	3	Х					
H-5-16-6	6	Х					
H-5-16-8.5	8.5	Х					
H-5-16-11	11	Х					
H-5-16-13.5	13.5	Х		Х	Х	Х	Х
H-5-16-16	16	Х					
H-5-16-18.5	18.5	Х					
		G	roundwater Sa	mple			
H-3-16	NA	Х		Х	Х	Х	X <sup>1</sup>

 Table 1 Summary of Sample Analyses, SR 520 Eastbound Off-Ramp to Montlake Vicinity Seattle, Washington

<sup>1</sup> Dissolved metals

Chemical Name	Analyte Type	<b>Sample</b> H-3-16 (μg/L)		MTCA Cleanup Level (µg/L)	CAS #
acetone	VOC	6.5	7200	Method B Non cancer	67-64-1
benzene	VOC	7.4	0.80	Method B Cancer	71-43-2
bromodichloromethane	VOC	1.0	0.71	Method B Cancer	75-27-4
chloroform	VOC	8.3	1.41	Method B Cancer	67-66-3
isopropylbenzene (cumene)	VOC	0.025	800	Method B Non cancer	98-82-8
ethylbenzene	VOC	0.7	700	Method A Unrestricted Land Use	100-41-4
propylbenzene;n-	VOC	0.37	800	Method B Non cancer	103-65-1
trimethylbenzene;1,2,4-	VOC	0.44		No Cleanup Level Listed in CLARC Table	95-63-6
trimethylbenzene;1,3,5-	VOC	0.30	80	Method B Non cancer	108-67-8
xylenes, total	VOC	2.77	1000	Method A Unrestricted Land Use	1330-20-7
benzo[a]anthracene	SVOC	0.082	0.12	Method B Cancer	56-55-3
bis(2-ethylhexyl) phthalate	SVOC	5.7	6.25	Method B Cancer	117-81-7
chrysene	SVOC	0.012	12	Method B Cancer	218-01-9
di-n-butylphthalate (di-butyl phthalate)	SVOC	9.3	1600	Method B Non cancer	84-74-2
diethyl phthalate	SVOC	1.3	12800	Method B Non cancer	84-66-2
methyl naphthalene;1-	SVOC	0.13	560	Method B Non cancer	90-12-0
methyl naphthalene;2-	SVOC	0.23	32	Method B Non cancer	91-57-6
naphthalene	SVOC	0.25	160	Method A Unrestricted Land Use	91-20-3
phenanthrene	SVOC	0.11		No Cleanup Level Listed in CLARC Table	85-01-8
antimony	Metal	18	6.40	Method B Non cancer	7440-36-0
arsenic, inorganic	Metal	3.3	0.06	Method B Cancer	7440-38-2
lead	Metal	2.5	15	Method A Unrestricted Land Use	7439-92-1

Table 2 Groundwater Cleanup Levels for Detected Analytes and Detected Analyte Concentrations in Sample H-3-16, SR 520 Eastbound Off-Rampto Montlake Vicinity Seattle, Washington

#### Exceeds cleanup level

Table derived from Ecology's CLARC Master Table at https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

VOC - Volatile Organic Compound

SVOC - Semivolatile Organic Compound

Metal - Dissolved Metal

		Highest Soil Concentration			
Chemical Name	Sample Name	(mg/kg)		MTCA Cleanup Level (mg/kg)	CAS #
acetone	H-2-16-13.5	0.060	2	Protective of Groundwater	67-64-1
benzene	H-3-16-8.5	0.35	0.0017	Protective of Groundwater	71-43-2
chromium(III)	H-5-16-13.5	64	2000	Method A Unrestricted Land Use	16065-83-1
copper	H-5-16-13.5	46	14	Protective of Groundwater	7440-50-8
isopropylbenzene (cumene)	H-5-16-13.5	0.19	8000	Method B Non cancer	98-82-8
ethylbenzene	H-4-16-18.5	1.4	0.34	Protective of Groundwater	100-41-4
lead	H-2-16-13.5	11	150	Protective of Groundwater	7439-92-1
2-butanone (methyl ethyl ketone)	H-3-16-8.5	0.021	48000	Method B Non cancer	78-93-3
p-isopropyltoluene	H-5-16-13.5	0.32		No Cleanup Level Listed in CLARC Table	99-87-6
1-methyl naphthalene	H-4-16-16	0.37	34	Method B Cancer	90-12-0
2-methyl naphthalene	H-4-16-16	0.74	320	Method B Non cancer	91-57-6
methylene chloride	H-3-16-6	0.053 H	0.0015	Protective of Groundwater	75-09-2
naphthalene	H-4-16-16	0.64	0.24	Protective of Groundwater	91-20-3
n-butylbenzene	H-5-16-13.5	2.0	4000	Method B Non cancer	104-51-8
nickel soluble salts	H-5-16-13.5	69	6.53	Protective of Groundwater	7440-02-0
n-propylbenzene	H-5-16-13.5	1.2	8000	Method B Non cancer	103-65-1
sec-butylbenzene	H-5-16-13.5	0.51	8000	Method B Non cancer	135-98-8
toluene	H-4-16-18.5	0.090	0.27	Protective of Groundwater	108-88-3
TPHg with benzene present	H-4-16-19.9	99	30	Method A Unrestricted Land Use	unavailable25
1,2,4-trimethylbenzene	H-3-16-8.5	1.8		No Cleanup Level Listed in CLARC Table	95-63-6
1,3,5-trimethylbenzene	H-4-16-16	0.56	800	Method B Non cancer	108-67-8
xylenes, total	H-4-16-18.5	2.28	1	Protective of Groundwater	1330-20-7
zinc	H-5-16-13.5	69	299	Protective of Groundwater	7440-66-6

#### Table 3 Soil Cleanup Levels for Detected Analytes, SR 520 Eastbound Off-Ramp to Montlake Vicinity Seattle, Washington

#### Exceeds cleanup level

H - The result indicated is a common laboratory contaminant and may have been introduced during sample preparation.

Table derived from Ecology's CLARC Master Table at https://fortress.wa.gov/ecy/clarc/CLARCDataTables.aspx

Sample ID	Sample Date	Sample depth (ft.)	TPHg (mg/kg)	TPHd (mg/kg)	TPHo (mg/kg)
H-1-16-10	10/6/2016	10	ND	ND	ND
H-2-16-13.5	10/7/2016	13.5	ND	ND	ND
H-3-16-3	10/7/2016	3	ND	ND	ND
H-3-16-6	10/7/2016	6	ND	ND	ND
H-3-16-8.5	10/7/2016	8.5	ND	ND	ND
H-4-16-3	10/8/2016	3	ND	ND	ND
H-4-16-6	10/8/2016	6	ND	ND	ND
H-4-16-8.5	10/8/2016	8.5	ND	ND	ND
H-4-16-11	10/8/2016	11	ND	ND	ND
H-4-16-16	10/8/2016	16	Detected	ND	ND
H-4-16-18.5	10/8/2016	18.5	Detected	ND	ND
H-4-16-19.9	10/8/2016	19.9	ND	ND	ND
H-4-16-25.4	10/8/2016	25.4	ND	ND	ND
H-5-16-3	10/8/2016	3	ND	ND	ND
H-5-16-6	10/8/2016	6	ND	ND	ND
H-5-16-8.5	10/8/2016	8.5	ND	ND	ND
H-5-16-11	10/8/2016	11	ND	ND	ND
H-5-16-13.5	10/8/2016	13.5	ND	ND	ND
H-5-16-16	10/8/2016	16	ND	ND	ND
H-5-16-18.5	10/8/2016	18.5	ND	ND	ND

 Table 4 HCID Soil Analytical Results, SR 520 Eastbound Off-Ramp to Montlake Vicinity Seattle, Washington

ND = Not Detected

Sample ID	Sample Date	Sample depth (ft.)	TPHg (mg/kg)	Acetone (mg/kg)	Methylene Chloride (mg/kg)	2-Butanone (mg/kg)	Benzene (mg/kg)	Toluene1 (mg/kg)	Ethyl- benzene (mg/kg)	Total- xylenes (mg/kg)	Isopropyl- benzene (mg/kg)	n-Propyl- benzene (mg/kg)	1,3,5-Trimethyl- benzene (mg/kg)	1,2,4-Trimethyl- benzene (mg/kg)	sec-Butyl- benzene (mg/kg)	p-Isopropyl- toluene (mg/kg)	n-Butyl- benzene (mg/kg)	Napthalene (mg/kg)
H-1-16-10	10/6/2016	10		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-2-16-13.5	10/7/2016	13.5		0.060	ND	0.021	0.0053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-3-16-3	10/7/2016	3		ND	ND	ND	0.0055	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-3-16-6	10/7/2016	6		0.023 H	0.053 H	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-3-16-8.5	10/7/2016	8.5		ND	0.022 H	ND	0.038	ND	0.0050	0.016	0.0018	0.0032	0.0015	0.0018	0.0013	0.002	ND	ND
H-4-16-3	10/8/2016	3	ND				ND	ND	ND	ND								
H-4-16-6	10/8/2016	6	ND				0.024	ND	ND	ND								
H-4-16-8.5	10/8/2016	8.5	ND				0.045	ND	ND	ND								
H-4-16-11	10/8/2016	11	ND				0.026	ND	ND	ND								
H-4-16-16	10/8/2016	16	69	ND	ND	ND	ND	ND	0.55	1.89	0.092	0.36	0.56	1.8	0.064	0.053	0.29	ND
H-4-16-18.5	10/8/2016	18.5	30				0.13	0.074	0.76	2.28								
H-4-16-19.9	10/8/2016	19.9	99				0.35	0.090	1.4	2.79								
H-4-16-25.4	10/8/2016	25.4	ND				0.092	0.064	ND	0.088								
H-5-16-13.5	10/8/2016	13.5		ND	ND	ND	ND	ND	0.089	ND	0.19	1.2	0.15	ND	0.51	0.32	2.0	0.64
MTCA Cleanu	ıp Level		30	2	0.0015	48000	0.0017	0.27	0.34	1	8000	8000	800	No CUL	8000	No CUL	4000	0.24

Table 5 Volatile Organic Compounds Detected in Soil Samples, SR 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington

-- Not Analyzed

ND Not Detected

## Exceeds Cleanup Level

**H** H - The result indicated is a common laboratory contaminant and may have been introduced during sample preparation.

CUL Cleanup Level

Sample ID	Sample Date	Sample depth (ft.)	Napthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	1-Methylnaphthalene (mg/kg)1
H-1-16-10	10/6/2016	10	ND	ND	ND
H-2-16-13.5	10/7/2016	13.5	0.0096	ND	ND
H-3-16-8.5	10/7/2016	8.5	ND	0.018	0.013
H-4-16-16	10/8/2016	16	0.59	0.74	0.37
H-5-16-13.5	10/8/2016	13.5	0.039	0.35	0.037
MTCA Cleanup Level			0.24	320	34

# Table 6Semi Volatile Organic Compounds Detected in Soil Samples, SR 520 Eastbound Off-Ramp<br/>to Montlake Vicinity, Seattle, Washington

ND = Not Detected

Sample ID	Samula Data	Sample	Aroclor 1016	Aroclor 1212	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
	Sample Date	depth (ft.)	(mg/kg)						
H-1-16-10	10/6/2016	10	ND						
H-2-16-13.5	10/7/2016	13.5	ND						
H-3-16-3	10/7/2016	3	ND						
H-3-16-6	10/7/2016	6	ND						
H-3-16-8.5	10/7/2016	8.5	ND						
H-4-16-16	10/8/2016	16	ND						
H-5-16-13.5	10/8/2016	13.5	ND						

 Table 7 Polychlorinated Biphenyls Detected in Soil Samples, SR 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington

ND = Not Detected

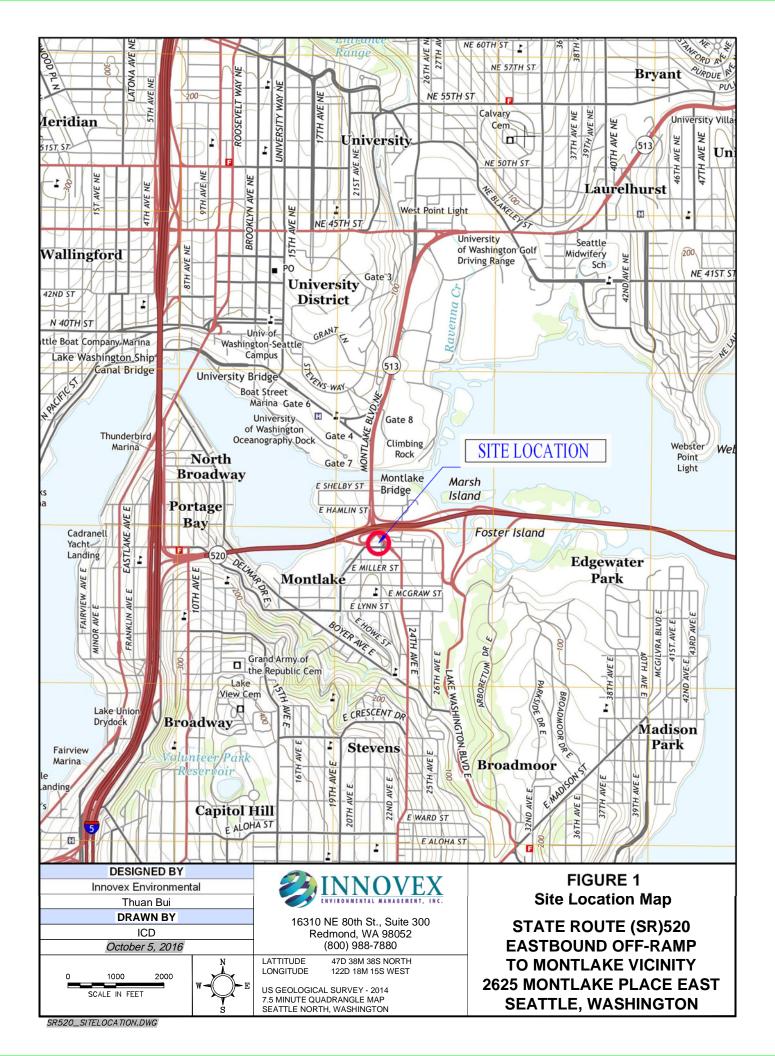
Sample ID	Sample Date	Sample depth (ft.)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
H-1-16-10	10/6/2016	10	36	8.4	ND	27	20
H-2-16-13.5	10/7/2016	13.5	37	24	11	36	56
H-3-16-3	10/7/2016	3	28	13	ND	33	26
H-3-16-6	10/7/2016	6	27	11	ND	30	24
H-3-16-8.5	10/7/2016	8.5	29	8.6	ND	24	26
H-4-16-16	10/8/2016	16	28	11	ND	30	24
H-5-16-13.5	10/8/2016	13.5	64	46	ND	69	69
MTCA Cleanup	Level		2,000	14	150	6.53	299

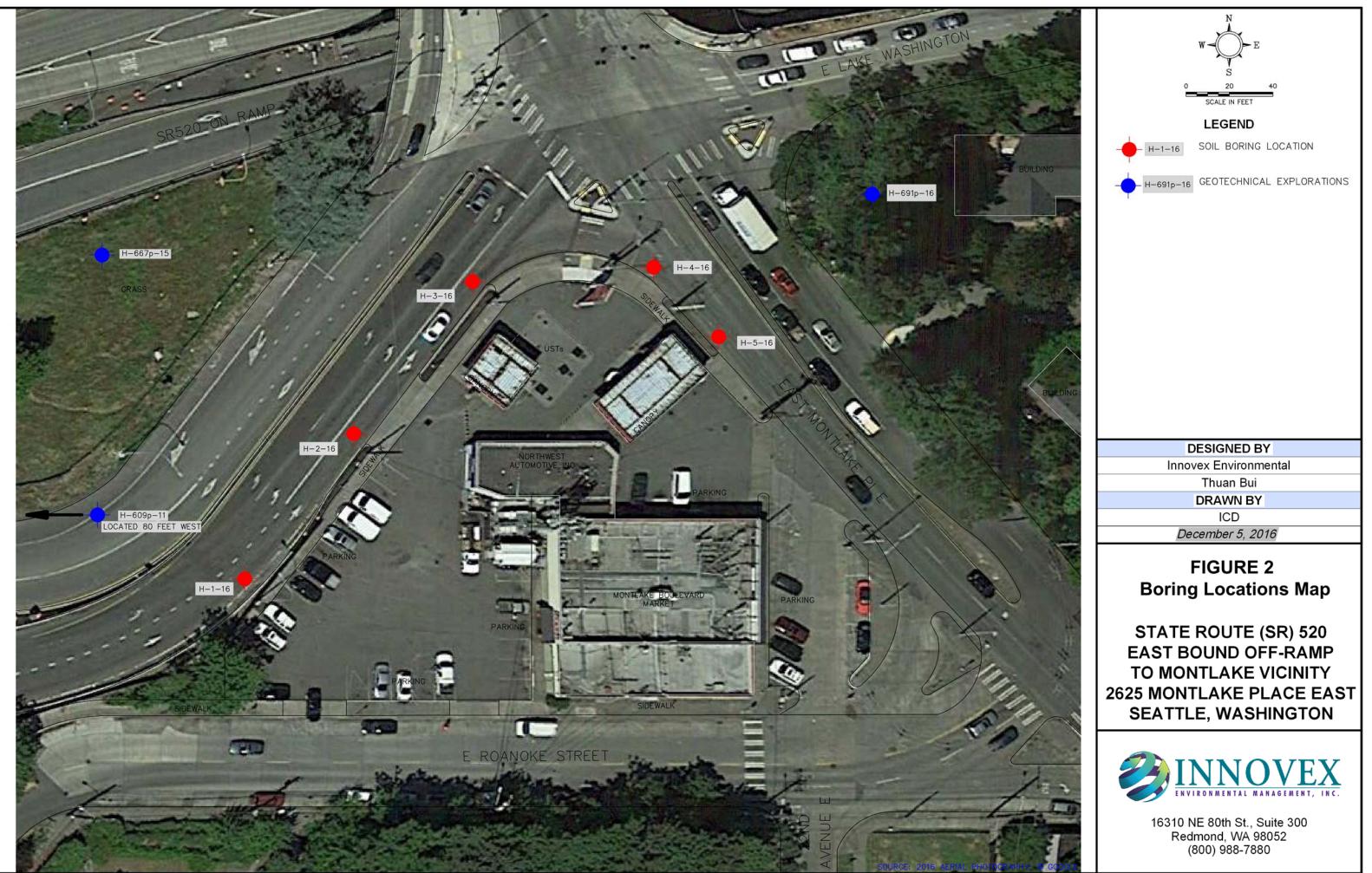
Table 8 Metals Detected in Soil Samples, SR 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington

ND = Not Detected

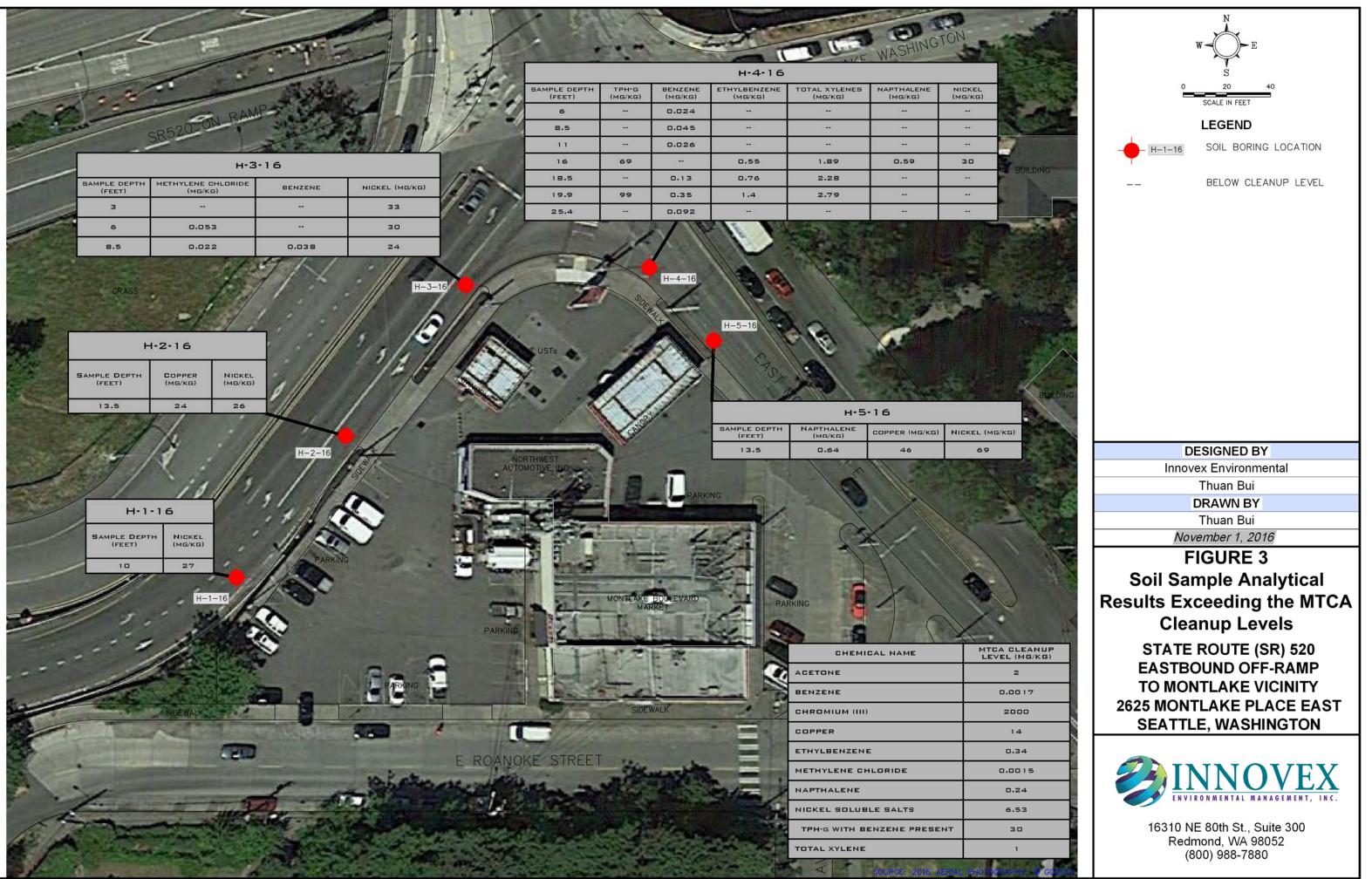
## = Exceeds Cleanup Level

## FIGURES





SR520\_16Q3\_FIGURE 2.DWG



SR520\_16Q3\_2.DWG



## FIELD LOG OF BORING

Page lof 3

Drilling Co. : Drilling Rig Eq : Drilling Method : Drill Diameter : Weather Conditions :		stary 5 rain sin	gua	rs		Job No. :Boring No. : Job Name :SR 520 Exploration Logged by : Location :ROMBER HEISE Start Date : Start Date :
Well Construction	Blows/6 in. Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
			2 4 0 8 0			Arilling begon (4-6) medium brown silty and w appel, single is the filling acaded, growel is Gree to the dometar, solo mewar to availate and is simple is domp, to add, the debas (g-11) too 1 feat is blue fine and wi little apped, the law of armse and, then 1' of gry and wisht and very little fine growel, no add, amy oils domp (15) very poor sample recovery (2 4") blue arry time sad will silt and growel = 1.5" diameter, danse any, no addr (20) very poor simple provery (- 6") similar to provides - lowe grow porty and clear withing to 1" any, no addr (20) very poor simple provery (- 6") similar to provides - lowe grow porty and clear withing to 1" any, no addr (20) very poor simple provery (- 6") similar to provides - lowe grow porty and clear withing to 1" any, no addr (20) very poor simple provery (- 6") similar to provides - lowe grow porty and clear withing to 1" simple is dry in o addr or addreed
	ROUNDW	ATER DA	ГА			COMMENTS (i.e. materials used, visitors, problems etc.) :
Water Depth Time Date Date SUMMARY OF TIME						
Boring/Sample : Setup/Cleanup : Boring No. :	hrs.		hrs. hrs. of			

			EMENT, INC.	·		ġ	FIELD LOG OF BORING
Drilling Co. : Drilling Rig Eq : _ Drilling Method : _ Drill Diameter : _ Weather Conditio							Job No. :
Well.construction	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
2.3				-21 -23 -24 -24 -24 -24 -24 -24 			24-25) (162t some recovery) apprentition apprend some of the some some in medium apprend some of the s
GROUNDWATER DATA Water Depth Time Date							COMMENTS (i.e. materials used, visitors, problems etc.) :
SUMMARY OF TIME           `ample :hrs.         Standby :hrs.          hrs.         Decon:hrs.           Sheetof         Sheetof							

IN	N	OV	ΈX
ENVIRON	MENTA	L MAHAGE	MENT, INC.

## FIELD LOG OF BORING

Page 3 f

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						Salay ta ta conservação multida		
Drilling Co. :								Job No. :Boring No. : <u>H-1-16</u>
								Job Name :
								Logged by :
Drill Diamete Weather Co						-		Location :
vveatrier Co								
Well Construction	Well Construction Time Blows/6 in. Headspace PID/OVA Sample ID (X = Lab Sample) (X = Lab Sample) (X = Lab Sample) Sample Interval USCS Code					Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
					-			
					a#			·
	233050/3 45				-45	· · · · · · · · · · · · · · · · · · ·		(45) Gas sample recovery (~2-3")) fill-blue gray Billy sond wi little gravel, sample is any and
					ŀ			
2350 50/3 50				50		(	SO) poor sample recovery (=2-3") till-apply silty sound wi some medium grained sound, very little	
								fire gravel, no odar, dense, dry
								boring terminated at SD' bas
					-			
					rSS			
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	G	ROL	INDV	VATER DA	TA			COMMENTS (i.e. materials used; visitors, problems etc.) :
Water Depth Time Date						Date		· · · · · · · · · · · · · · · · · · ·
SUMMARY OF TIME								
Boring/Sample :hrs. Standby :hrs.								
Setup/Cleanup : hrs. Decon:hrs.						•		
Boring No. : No. Sheet of								

		<u>N</u>	XC M A H A G	EXTERNAL THE				FIELD LOG OF BORING H-2-16
Drilling F Drilling N Drill Diai	Co. :// <i>S</i> Rig Eq : Method :/ <sup>10</sup> meter : <sup>•</sup> Conditions :	rid	R D		fere			Job No.: _31008 Job Name: <u>SR 5200 Mowtlake PLater</u> Logged by: <u>G. Noyman</u> Location: <u>Scattle</u> Start Date: <u>10/7/16</u> End Date: <u>10/7/16</u>
Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
	21:20	2	Ø, D_		1.5-3		SM.	Arphalt Gray silty sund w/few gravel mount, Inste, woodsr, PID=0.0
	21135	2	7.7		4-6		- 10.4	NO recovery
	21,140		3.7		8.5		5 M	Gray silty sand moust viloose, No odor, PID:0.7 Same, petroleum odor
	21:45	1	4.7 3.0		12- 13.5 14- 16		SM.	same as above PID-4.7 wood debris@ 13feet, petroleum odor Parkingray selfy sand, stiff
	21:55	3 7 16 20 31	0,0		17- 18,5			Gray silty sand, dense, moist, wooder
	22100 G	50/4•7		ATER DA	19- 19.3			COMMENTS (i.e. materials used; visitors, problems etc.):
Water Depth Time Date						Date		
· · · ·				Y OF TIME				
Boring/Sample :hrs. Standby :hrs.								
Setup/Cleanup : hrs.         Decon: hrs.           Boring No. :         Sheet of								

3	IN	<u>N</u>		EX THE THE PARTY OF THE PARTY O				Page 2 of 2 FIELD LOG OF BORING H-2-16
Drilling Co. : _ Drilling Rig Eq Drilling Methor Drill Diameter Weather Conc	d: :	Ind	Ro	ſ				Job No. :Boring No. : Job Name : SR 520 @ Monthake Phase P Logged by : G. Hayman Location : Start Date : J16End Date :/1/6
Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
					24-24.5			same as above, very dense gray rilty sand woodor TDO 24.5 Ft
GROUNDWATER DATA Water Depth Time Date					TA	Date		COMMENTS (i.e. materials used; visitors, problems etc.) :
SUMMARY OF TIME           Boring/Sample :hrs.         Standby :hrs.           Setup/Cleanup :hrs.         Decon:hrs.           Boring No. :         Sheetof								

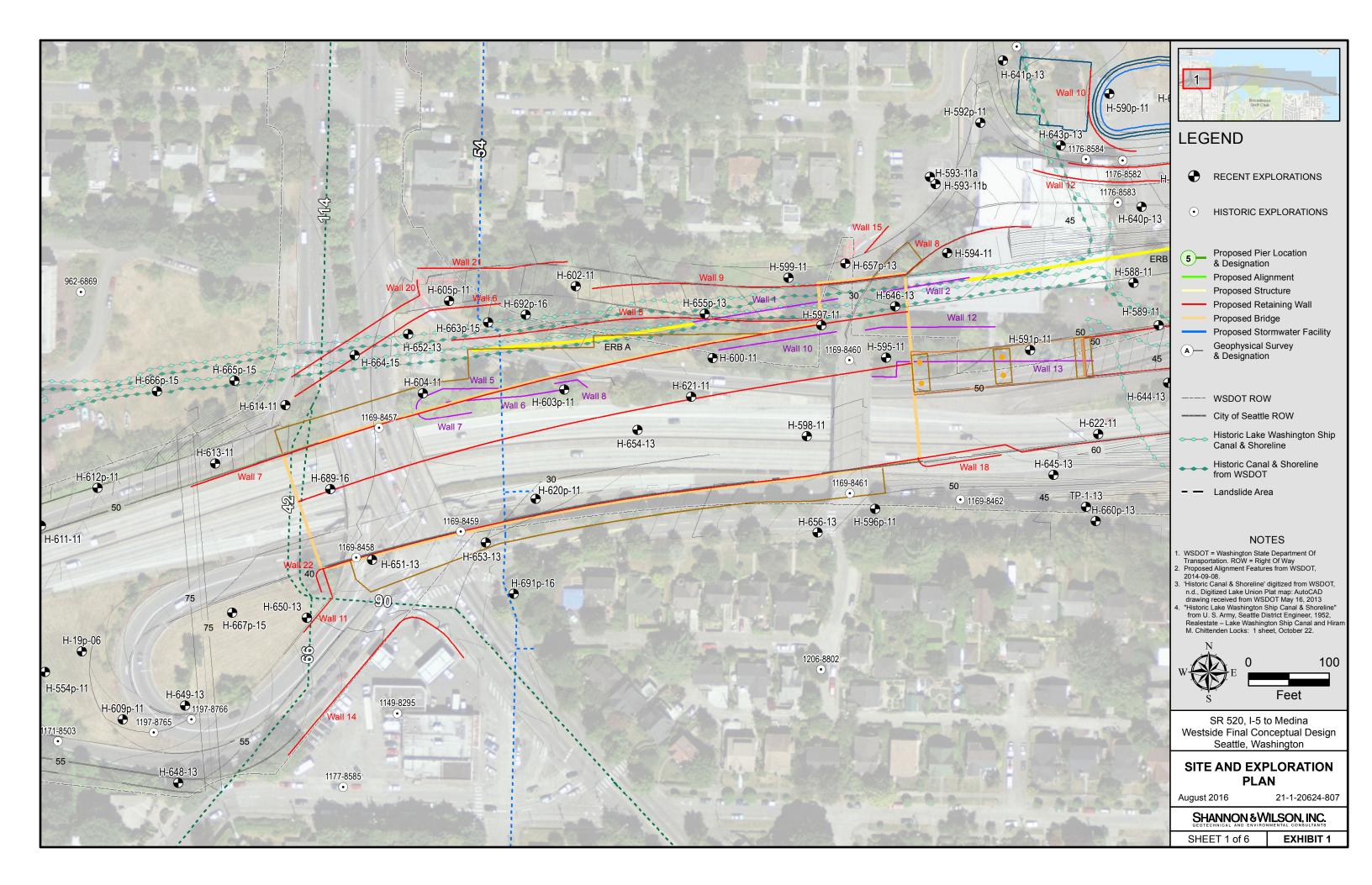
2		NENTA		VEX		program and an an an	Yenakanon karderovita	FIELD LOG OF BORING H-3-16
Drilling Rig Drilling Me Drill Diame	.:	ed.	-0+	6. °. Y				Job No.: 31008 Job Name: SR 520 @ E. Monstlake Phase II Logged by: G. Huyman Location: Seattle, WA Start Date: 10/7/16 End Date: 10/8/16
Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
	23:25	8 3 4 3 2 2 3 2 2 5 2 2 5 2 2 5 1 1 1 1 1 2 5 2 2 5 1 2 2 5 1 2 5 2 5	10.5 21,5 35.4 0		1.5-3 4-6 7-875		5 P 5M	Arphalt Sand w/Fine gravel, moist, lowse, petroleum odor PID=10.5 Gray silty sand, moist, very loose, petroleum odor, PID:21.5 Brown silty Finesand, Few Fine gravel VENT 1.05e, petroleum odor, PID:35.4 NO recovery Brown is, Ity sund, wet, dense, NO odoc PED=0 Builed boreng dry, allowed water to secover, 00:25 collected gravel water to pID:114 send w/Few fine gravel, no doc PID:0 TD:17.4 feet
GROUNDWATER DATA Water Depth Time Date								COMMENTS (i.e. materials used; visitors, problems etc.) :
						Dale		· · · · · · · · · · · · · · · · · · ·
		SU	MMA	RY OF TIME				
Boring/Sample :hrs. Standby :hrs.								
Setup/Cleanup : hrs. Decon:hrs.								
Boring No. : Mol Sheet of								

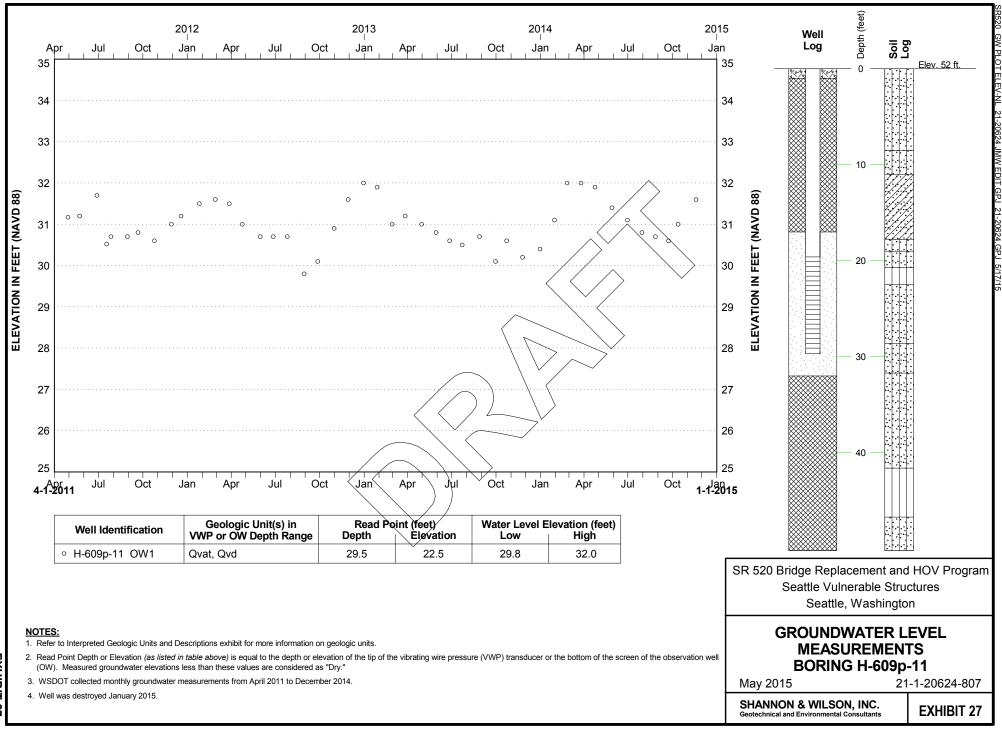
2		N		VEX				FIELD LOG OF BORING H-4-16
Drilling Co. Drilling Rig Drilling Met Drill Diamet Weather Co	Eq : hod : _ <i>M</i> ter :	nd 3'	rot	rhowers				Job No.: <u>310080</u> Job Name: <u>58520 @ E. Montelake Phare II</u> Logged by: <u>6. Huy mant</u> Location: <u>5euttle</u> , <u>MA</u> Start Date: <u>10/8/16</u> End Date: <u>10/8/16</u>
Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
	21:45	466	20.2		1.5-34-6		SM.	Asphalt gray silty sand, damp, loose, Petroleum odor, PID=20.2 Gray silty sand, damp, very loose, petroleum odor, PID=17
	2]:53 22:60		15.6 43		7- 8.5 9- 11		S M	Petroleum odor, PFD=15.6
-	22:05	10 mm q 0 2 mm L	720				5 M;	No recovery gray silty sind, wet, medium dense, very strong petroleumodor PID=720
	22:15	23	120	VATER DA	18,5 19- 19.9			gray silty sand, very dense, petroleum odor 2" till in tip of splitspoon COMMENTS (i.e. materials used; visitors, problems etc.):
Water Depth Time Date								ישטואבוייט נויפי ווימופווימוש משפט, אושונטוש, אושטופווש פוניין :
SUMMARY OF TIME Boring/Sample :hrs. Standby :hrs.								
Boring/Sample :      ns.       Standby :      ns.         Setup/Cleanup :      hrs.       Decon:      hrs.         Boring No. :        Sheet      of								

2		N		E AL NT, INC.				FIELD LOG OF BORING H-4-16
Drilling Rig Drilling Me Drill Diame	.:W j Eq : thod : <u>M</u> eter : <u>3</u> conditions :_	Ind	Ro	tupy shower	ſ			Job No. : Job Name : SR 520 @ F. Mow Take Phase JI Logged by : Logged by : Location : Start Date : I 0 0 16 End Date : Start Date : I 0 0 16 End Date :
Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
	22:35		3.4 0.3		24-25.4		5М	Gray silty very Five sand, very dense wooder, damp PID=3,4 Well graded, gravel, sand and silt, very dense, PID=0,3 TD=29,2Ft
Wotor		ROU			TA I	Date		COMMENTS (i.e. materials used; visitors, problems etc.) :
Water Depth Time Date						Dale		· · · · · · · · · · · · · · · · · · ·
	-	SU	MMAF	RY OF TIME				
Boring/Sample :hrs. Standby :hrs.								
Setup/Clea Borina No.	anup :			Decon: Sheet				

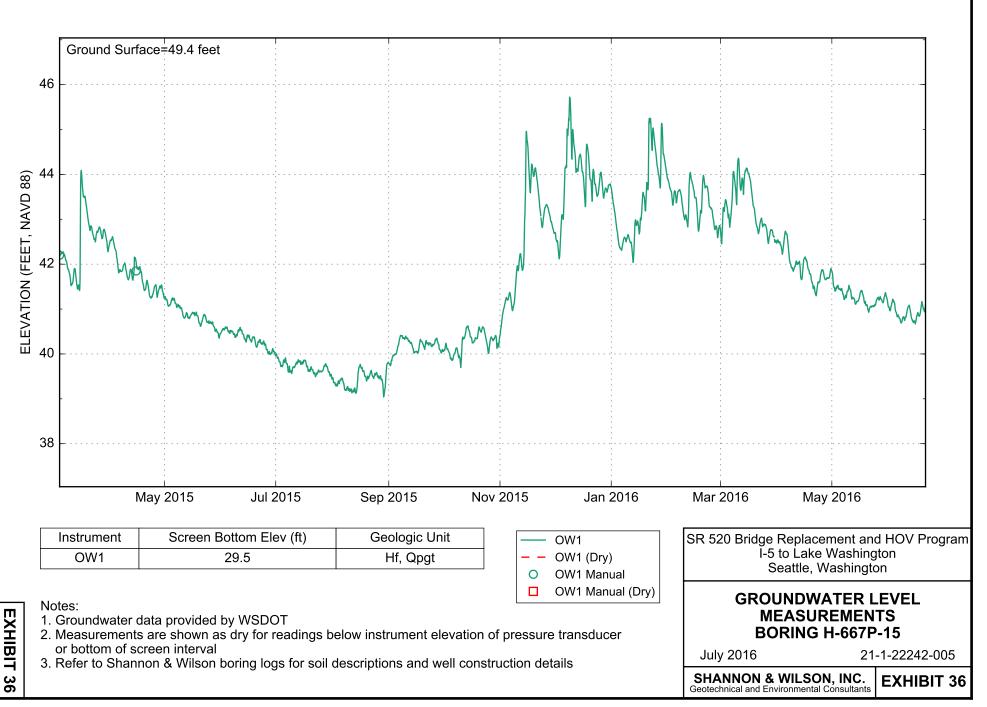
3	) IN	<u>N</u> (	<u>MAHA</u>	EAL WT, INC.				FIELD LOG OF BORING H-5-16
Drilling Co.		IS D	OT					Job No.: _31000 Boring No.: Job Name: SR 52 · @ E. Montlake Phase II
Drilling Rig I Drilling Meth	Eq: nod:/	Muc	l c	otary				Logged by: <u>G. Hayman</u>
Drill Diamet	er:	3 ''		showe	لـــر			Location : $\underline{Le_a + le_b}, \underline{WA}$ Start Date : $\underline{10} \underline{3} \underline{16}$ End Date : $\underline{10} \underline{3} \underline{16}$
structio	Je	/6 in.	PID/O	le ID Sampl	(ft)	Interva	Code	
Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	nscs	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
						,		8" Asphult & concerete
	23155	6	3.5		1.5-			grow selly sand w/ Few gravel, meist
		7				i	5M	lopse, No eder PID:3.5
	23159	4	16.5		4-		0 /4	entelling enter
		3			6		<u> </u>	petroleum odor, PID=16.5
								,
	0:05	1	1,6		7- 8.5		SM	gray silty fine rand w/ Few gravel
		2-	16			1		10010, NO odor PID=1.6
-     ~	0:10	4			9- 11			gran silty sund, dense,
		8						petrolemna odor, PID=16
	0115	24	380		12-		·	Some as above, strong petroleum, don
		5	6.6		14-			PID=38-0
-	0:20	11 15 13	25		16			Light group silty said, medium devise
		14					SM	petroleum odor, PID=25
	0:25	8' 14	215		17-			Silty sand w/ Few gravel, medium dense,
		18			18.5			No odor, PID = 2.5
	0:30	8 16	1.1		19-21			Sama as above
		25					1	
	G	ROU	NDW	ATER DA	TA			COMMENTS (i.e. materials used, visitors, problems etc.) :
Water Depth Time Date								
SUMMARY OF TIME								
Boring/Sample :hrs. Standby :hrs. Setup/Cleanup :hrs. Decon:hrs.								
Setup/Cleanup : nrs. Decon:nrs. Boring No. : Sheetof								

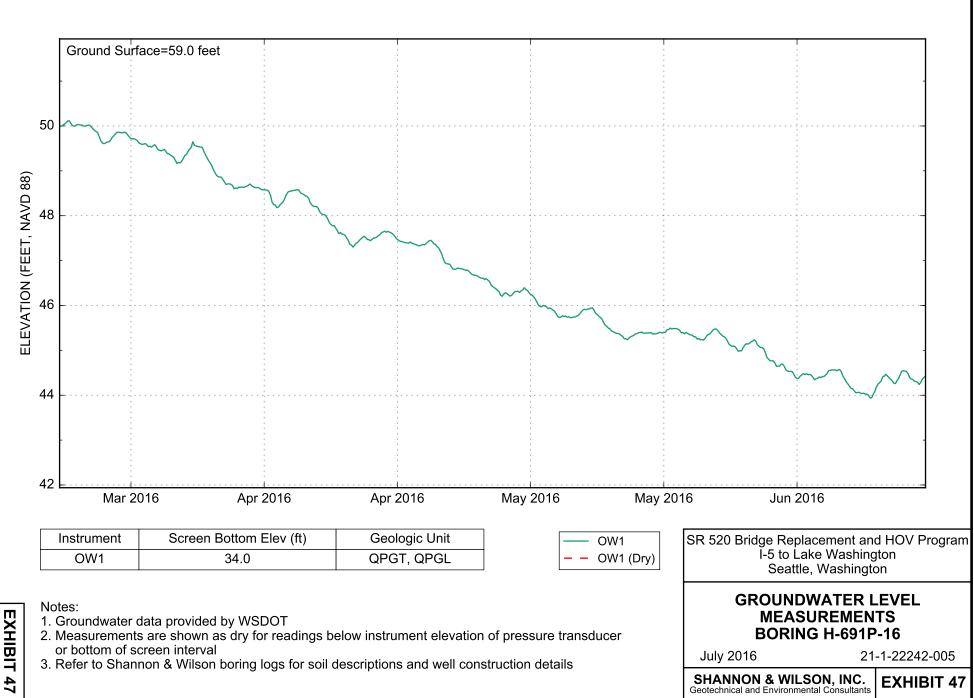
Optiming Ro :         M & S D & D T         Job No. :         Job No. :         Defining Ro :         Defining Ro :         Defining Ro :         Job Name: S R S D & D T         Job Name: S R S D & D & D T         Job Name: S R S D & D & D & D & D & D & D & D & D & D			VEX				Page 2 of 2 FIELD LOG OF BORING H-5-16
0:35 10       22- 11       25.5       SM       gray 51/by Fine stand, medium         0:40 50/0.0       24- 14       300 dor, PID=0.4         0:40 50/0.0       24- 14       24- 24- 24-         0:40 50/0.0       24- 14         0:40 50/0.0       24- 14- 14         0:40 50/0.0       24- 14- 14- 14         0:40 50/0.0       24- 14- 14- 14         0:40 50/0.0       24- 14- 14- 14- 14- 14- 14- 14- 14- 14- 1	Drilling Rig Eq : _ Drilling Method : _ Drill Diameter :	Mind 1 311	Rotany				Job Name: SR 520 DE. Montlake Phase F. Logged by: G. Huyman Location: Seattly WA
0:35       12       23.5       SM       gray 51/14 Fire sand, medium         0:40       20.0       24.1       gray brand selfty sund w/rew gravel         0:40       24.3       gray brand selfty sund w/rew gravel         0:45       24.3       gray brand selfty sund w/rew gravel         0:45       24.3       same as above, no odor, PSD:0.0         0:45       124       24.2         0:45       124       24.2         0:45       124       24.2         0:45       124       24.2         0:45       124       24.2         0:45       124       24.2         0:45       124       14.2         0:45       124       14.2         0:45       124       14.2         0:45       124       14.2         0:45       124       14.2         0:45       124       14.2         0:45       124       14.2         0:45       124       14.2         0:45       124.2       14.2         0:46       14.2       14.2         0:47       124.2       14.2         0:47       124.2       14.2         0:47	Well Construction	Lime Blows/6 in. Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	[Density/consistency, color, minor, MAJOR, then trace constituents; moisture :
	011	35 <u>9.0</u> 1) 12 12 12 12 12 12 12 12 12 12 12 12 12		23,5 24- 24,3 24-		5M	gray silty Five rand, medium densee, NO odor, PID=0.4 gray brown solty sand w/Few gravel very dense, NO odor, PID=0.0 Same as above, NO odor PID=0.0.
SUMMARY OF TIME           Boring/Sample :hrs.           Standby :hrs.           Setup/Cleanup :hrs.	Water Depth         Time         Date           SUMMARY OF TIME           Boring/Sample :hrs.         Standby :hrs.						COMMENTS (i.e. materials used; visitors, problems etc.) :

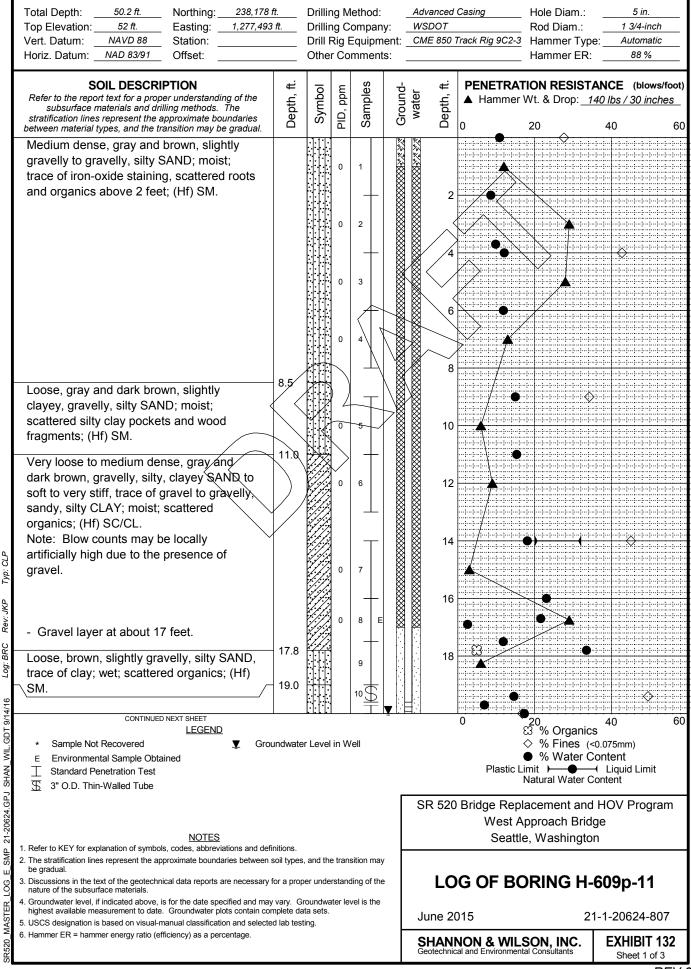


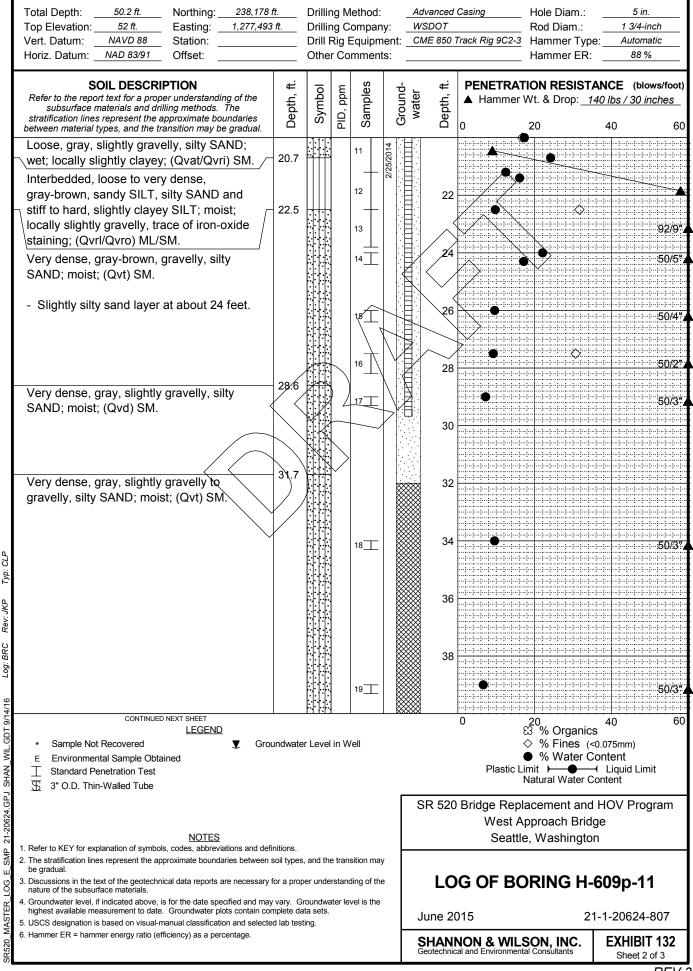


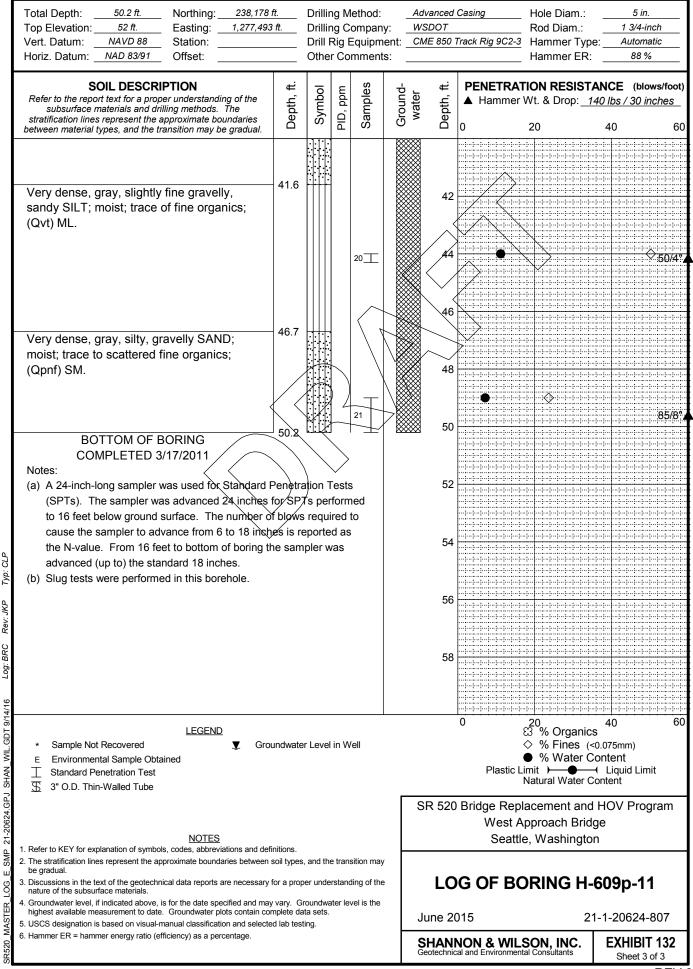


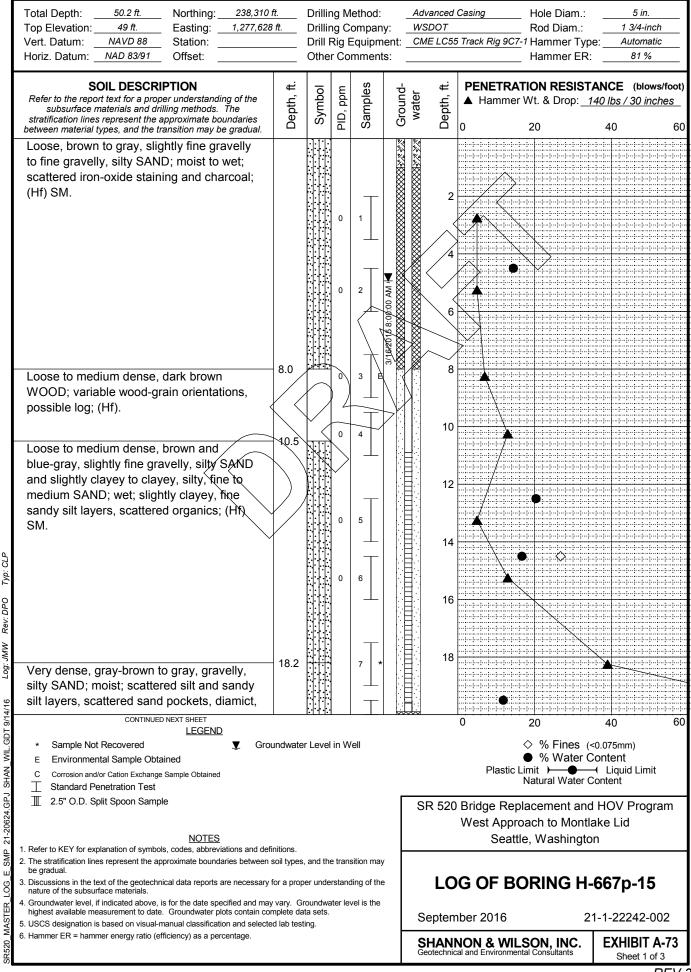


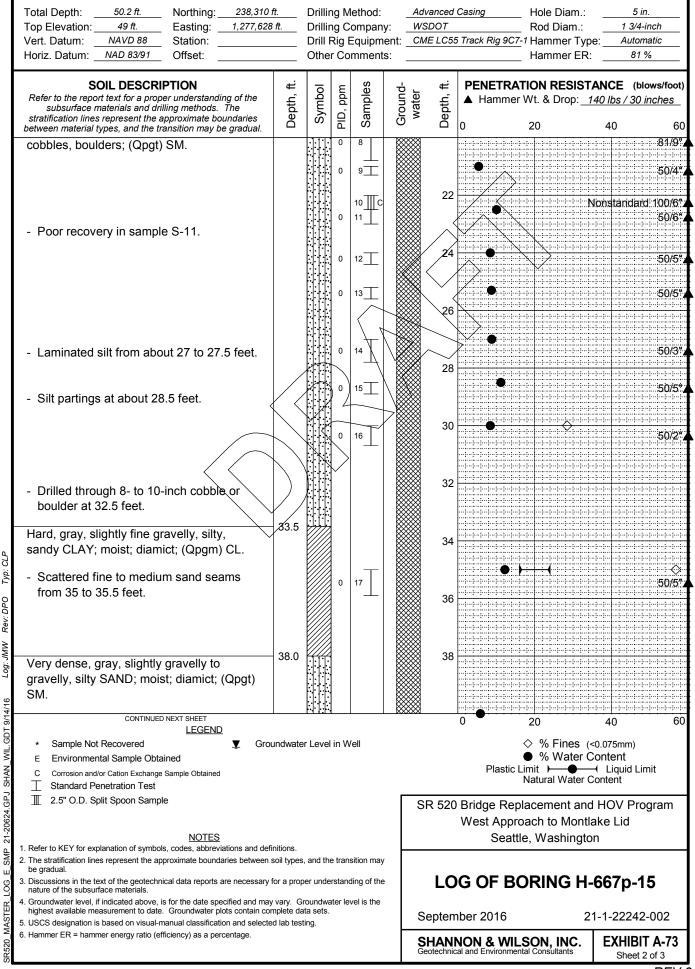


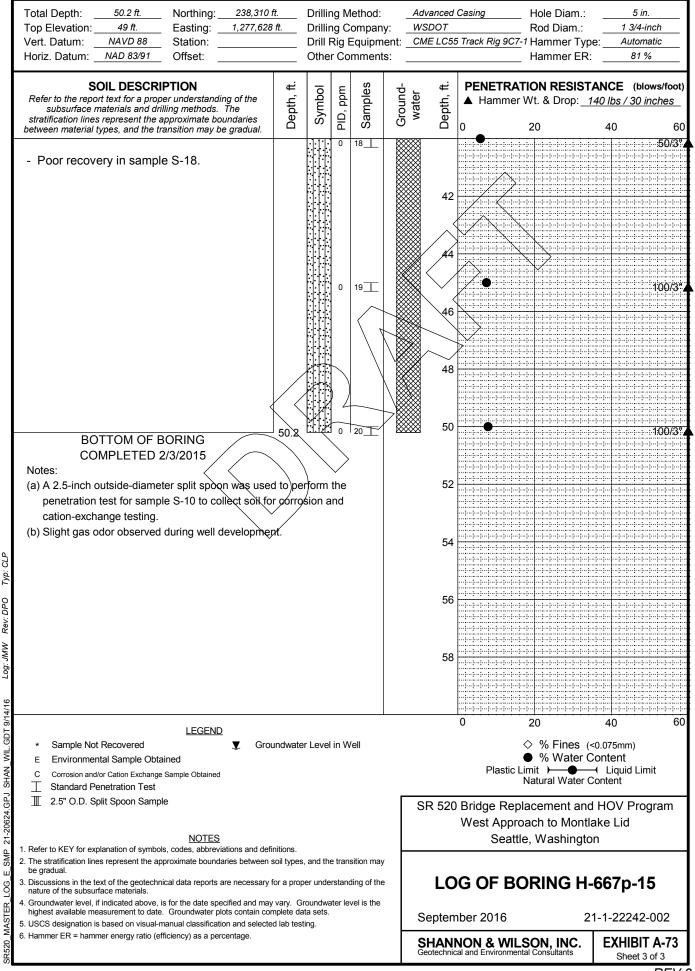


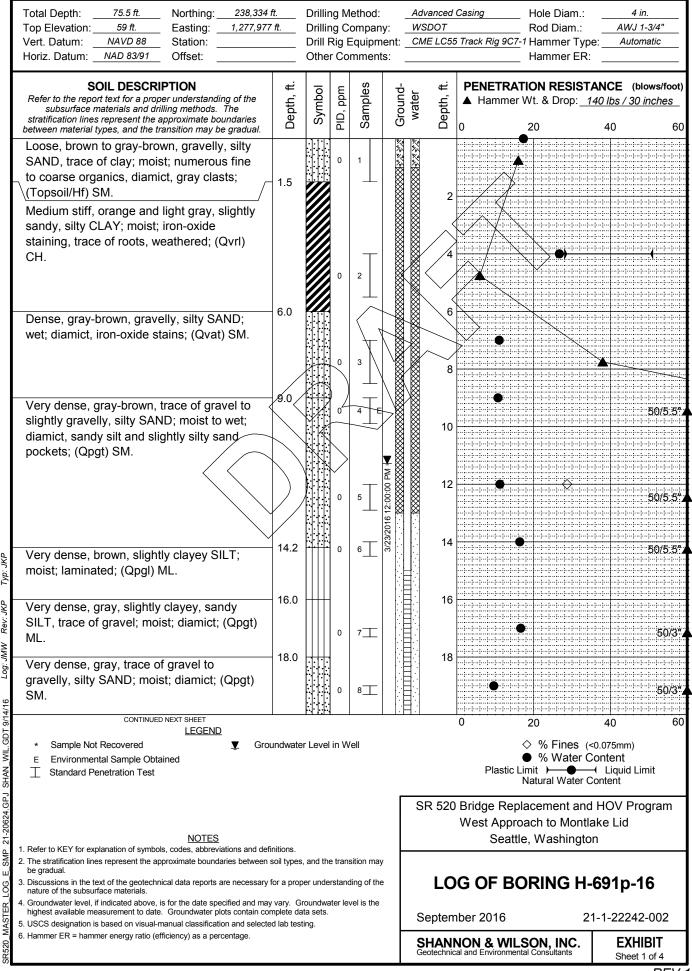


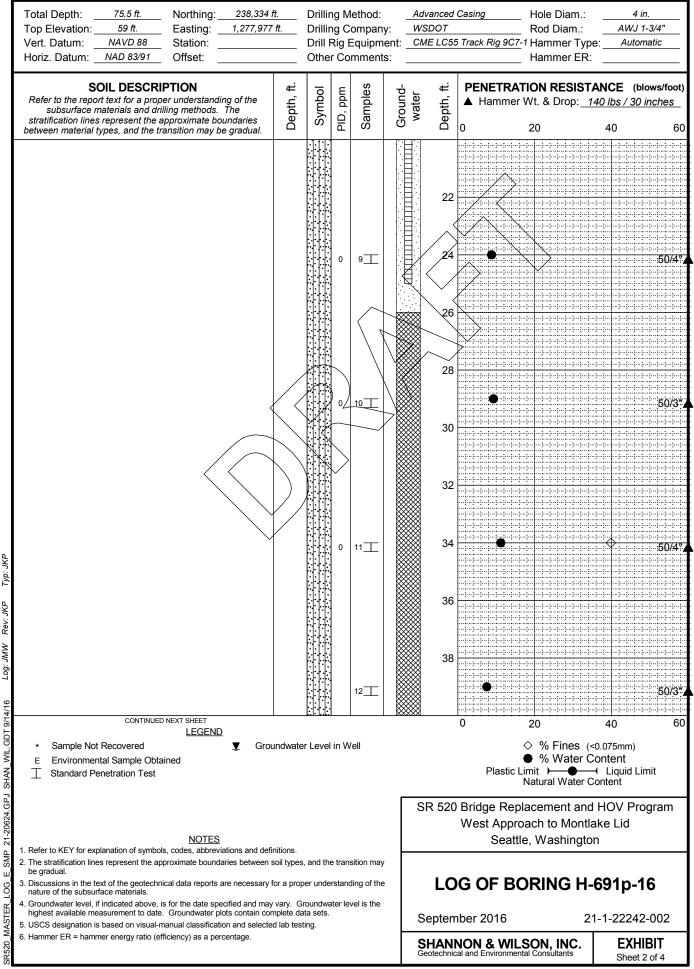


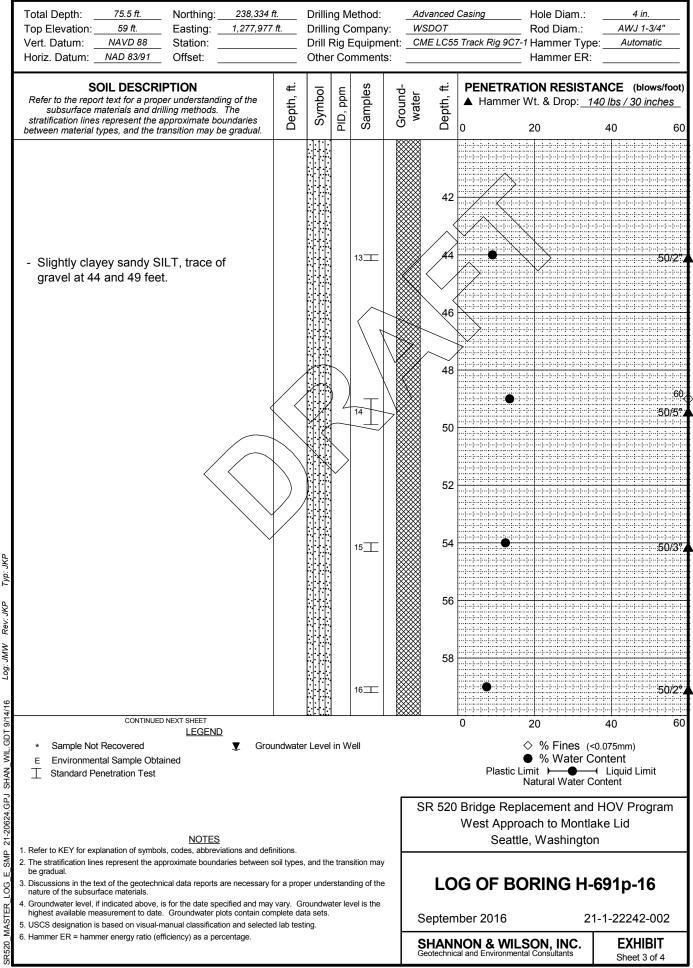


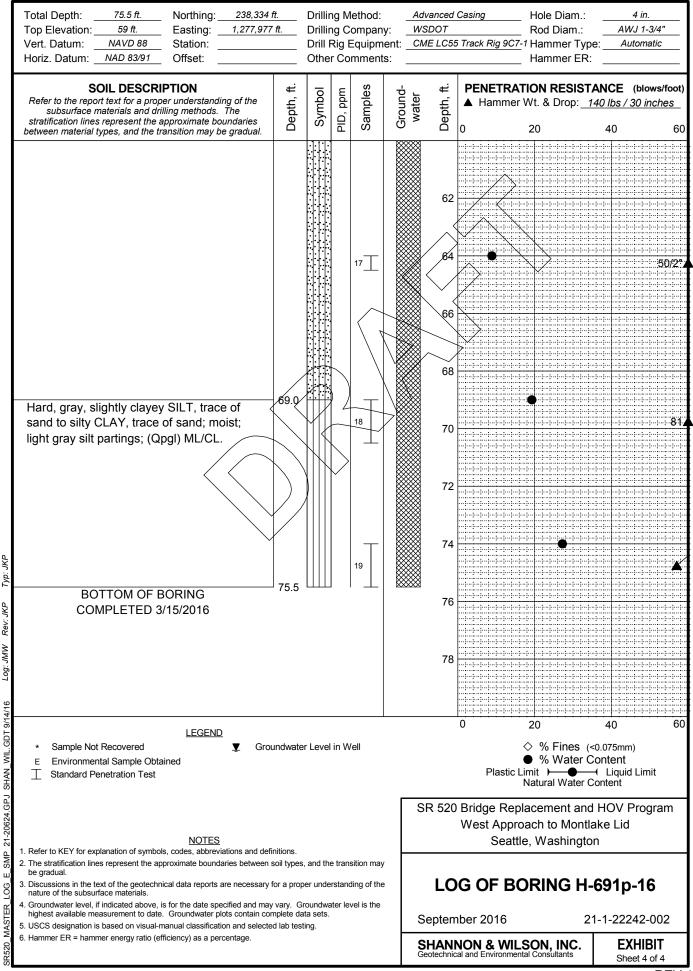














14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

March 30, 2011

Cody Johnson Shannon & Wilson, Inc. 400 N 34th Street, Suite 100 Seattle, WA 98103

Re: Analytical Data for Project 21-1-20624-612 Laboratory Reference No. 1103-188

Dear Cody:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2011.

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

#### **Case Narrative**

Samples were collected on March 15, 17 and 19, 2011 and received by the laboratory on March 21, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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-HCID**

Matrix: Soil Units: mg/Kg (ppm)

**Diesel Range Organics** 

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-552-11:4				,	1
Laboratory ID:	03-188-03					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-21-11	3-21-11	
Diesel Range Organics	ND	57	NWTPH-HCID	3-21-11	3-21-11	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-21-11	3-21-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	136	50-150				
Client ID:	H-609p-11:16.7					
Laboratory ID:	03-188-04					
Gasoline Range Organics	ND	24	NWTPH-HCID	3-21-11	3-21-11	

NWTPH-HCID

3-21-11

3-21-11

3-21-11

3-21-11

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Lube Oil Range Organics	ND	120	NWTPH-HCID
Surrogate:	Percent Recovery	Control Limits	
o-Terphenyl	128	50-150	

ND

### NWTPH-HCID QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	3-21-11	3-21-11	
Diesel Range Organics	ND	50	NWTPH-HCID	3-21-11	3-21-11	
Lube Oil Range Organics	ND	100	NWTPH-HCID	3-21-11	3-21-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	136	50-150				

# **NWTPH-Dx** (with acid/silica gel clean-up)

onita. ing/itg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-536-11:8					
Laboratory ID:	03-188-01					
Diesel Range Organics	ND	140	NWTPH-Dx	3-25-11	3-25-11	
Lube Oil Range Organics	ND	290	NWTPH-Dx	3-25-11	3-25-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	97	50-150				
Client ID:	H-561-11:4					
Laboratory ID:	03-188-02					
Diesel Range Organics	ND	54	NWTPH-Dx	3-25-11	3-25-11	
Lube Oil	140	110	NWTPH-Dx	3-25-11	3-25-11	
Surrogate:	Percent Recovery	Control Limits				

Surrogate:	Percent Recovery	Control Limits
o-Terphenyl	93	50-150

#### NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325S1					
Diesel Range Organics	ND	25	NWTPH-Dx	3-25-11	3-25-11	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-25-11	3-25-11	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	105	50-150				

			Perc	ent	Recovery		RPD	
Analyte	Res	sult	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	03-22	24-01						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil	54.4	53.9				1	NA	
Surrogate:								
o-Terphenyl			103	86	50-150			

# SEMIVOLATILES by EPA 8270D/SIM page 1 of 2

Matrix: Soil Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-536-11:8		MELIIUU	Fiepaleu	Analyzeu	i lays
	03-188-01					
Laboratory ID: n-Nitrosodimethylamine	ND	0.19	EPA 8270	3-28-11	3-28-11	
Pyridine	ND	1.9	EPA 8270	3-28-11	3-28-11	
Phenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
Aniline	ND	0.19	EPA 8270 EPA 8270	3-28-11	3-28-11	
bis(2-Chloroethyl)ether	ND	0.19	EPA 8270 EPA 8270	3-28-11	3-28-11	
	ND	0.19	EPA 8270	3-28-11	3-28-11	
2-Chlorophenol 1,3-Dichlorobenzene	ND	0.19	EPA 8270 EPA 8270	3-28-11	3-28-11	
1,4-Dichlorobenzene	ND	0.19		3-28-11	3-28-11	
,	ND	0.19	EPA 8270	3-28-11		
Benzyl alcohol			EPA 8270		3-28-11	
1,2-Dichlorobenzene 2-Methylphenol (o-Cresol)	ND ND	0.19	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroisopropyl)ether	ND	0.19	EPA 8270	3-28-11	3-28-11	
	ND	0.19 0.19	EPA 8270 EPA 8270	3-28-11 3-28-11	3-28-11 3-28-11	
(3+4)-Methylphenol (m,p-Cresol)						
n-Nitroso-di-n-propylamine	ND ND	0.19	EPA 8270	3-28-11	3-28-11	
Hexachloroethane	ND	0.19	EPA 8270	3-28-11	3-28-11	
Nitrobenzene		0.19	EPA 8270	3-28-11	3-28-11	
sophorone	ND	0.19	EPA 8270	3-28-11	3-28-11	
2-Nitrophenol	ND ND	0.19	EPA 8270	3-28-11	3-28-11	
2,4-Dimethylphenol		4.7	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroethoxy)methane	ND	0.19	EPA 8270	3-28-11	3-28-11	
2,4-Dichlorophenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
1,2,4-Trichlorobenzene	ND	0.19	EPA 8270	3-28-11	3-28-11	
Naphthalene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
4-Chloroaniline	ND	0.19	EPA 8270	3-28-11	3-28-11	
Hexachlorobutadiene	ND	0.19	EPA 8270	3-28-11	3-28-11	
4-Chloro-3-methylphenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
2-Methylnaphthalene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
1-Methylnaphthalene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Hexachlorocyclopentadiene	ND	0.19	EPA 8270	3-28-11	3-28-11	
2,4,6-Trichlorophenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
2,3-Dichloroaniline	ND	0.19	EPA 8270	3-28-11	3-28-11	
2,4,5-Trichlorophenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
2-Chloronaphthalene	ND	0.19	EPA 8270	3-28-11	3-28-11	
2-Nitroaniline	ND	0.19	EPA 8270	3-28-11	3-28-11	
1,4-Dinitrobenzene	ND	0.19	EPA 8270	3-28-11	3-28-11	
Dimethylphthalate	ND	0.19	EPA 8270	3-28-11	3-28-11	
1,3-Dinitrobenzene	ND	0.95	EPA 8270	3-28-11	3-28-11	
2,6-Dinitrotoluene	ND	0.19	EPA 8270	3-28-11	3-28-11	
1,2-Dinitrobenzene	ND	0.19	EPA 8270	3-28-11	3-28-11	
Acenaphthylene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
3-Nitroaniline	ND	0.19	EPA 8270	3-28-11	3-28-11	

# SEMIVOLATILES by EPA 8270D/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-536-11:8		motriou	Tiopaloa	, indigiou	. lugo
aboratory ID:	03-188-01					
2,4-Dinitrophenol	ND	0.95	EPA 8270	3-28-11	3-28-11	
cenaphthene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
-Nitrophenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
2,4-Dinitrotoluene	ND	0.19	EPA 8270	3-28-11	3-28-11	
Dibenzofuran	ND	0.19	EPA 8270	3-28-11	3-28-11	
2,3,5,6-Tetrachlorophenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
2,3,4,6-Tetrachlorophenol	ND	0.19	EPA 8270	3-28-11	3-28-11	
Diethylphthalate	ND	0.95	EPA 8270	3-28-11	3-28-11	
-Chlorophenyl-phenylether	ND	0.19	EPA 8270	3-28-11	3-28-11	
-Nitroaniline	ND	0.19	EPA 8270	3-28-11	3-28-11	
luorene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
,6-Dinitro-2-methylphenol	ND	0.95	EPA 8270	3-28-11	3-28-11	
-Nitrosodiphenylamine	ND	0.19	EPA 8270	3-28-11	3-28-11	
,2-Diphenylhydrazine	ND	0.19	EPA 8270	3-28-11	3-28-11	
-Bromophenyl-phenylether	ND	0.19	EPA 8270	3-28-11	3-28-11	
lexachlorobenzene	ND	0.19	EPA 8270	3-28-11	3-28-11	
Pentachlorophenol	ND	0.95	EPA 8270	3-28-11	3-28-11	
henanthrene	0.079	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Anthracene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Carbazole	ND	0.19	EPA 8270	3-28-11	3-28-11	
Di-n-butylphthalate	ND	0.19	EPA 8270	3-28-11	3-28-11	
luoranthene	0.10	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Benzidine	ND	1.9	EPA 8270	3-28-11	3-28-11	
Pyrene	0.10	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Butylbenzylphthalate	ND	0.19	EPA 8270	3-28-11	3-28-11	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270	3-28-11	3-28-11	
3'-Dichlorobenzidine	ND	1.9	EPA 8270	3-28-11	3-28-11	
Benz[a]anthracene	0.050	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Chrysene	0.057	0.038	EPA 8270/SIM	3-28-11	3-29-11	
is(2-Ethylhexyl)phthalate	0.44	0.19	EPA 8270	3-28-11	3-28-11	
Di-n-octylphthalate	ND	0.19	EPA 8270	3-28-11	3-28-11	
Benzo(b)fluoranthene	0.039	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Benzo(k)fluoranthene	ND	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Benzo(a)pyrene	0.050	0.038	EPA 8270/SIM	3-28-11	3-29-11	
ndeno[1,2,3-cd]pyrene	0.038	0.038	EPA 8270/SIM EPA 8270/SIM	3-28-11	3-29-11	
Dibenzo(a,h)anthracene		0.038	EPA 8270/SIM	3-28-11	3-29-11	
Benzo(ghi)perylene	ND 0.043	0.038	EPA 8270/SIM	3-28-11	3-29-11	
Surrogate:	Percent Recovery	Control Limits		5-20-11	5-29-11	
P-Fluorophenol	37	30 - 97				
Phenol-d6	54	30 - 97 40 - 104				
D5-Nitrobenzene	54 45	40 - 104 35 - 102				
2-Fluorobiphenyl	45 57	44 - 97				
	57	44 - 37				
2,4,6-Tribromophenol	69	41 - 110				

# SEMIVOLATILES by EPA 8270D/SIM page 1 of 2

Matrix: Soil Units: mg/Kg

Analuto	Bocult	PQL	Method	Date Prepared	Date Analyzed	Flage
Analyte Client ID:	Result H-561-11:4	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	03-188-02	0.070		0.00.11	0.00.11	
n-Nitrosodimethylamine	ND	0.072	EPA 8270	3-28-11	3-28-11	
Pyridine	ND ND	0.72	EPA 8270	3-28-11	3-28-11	
Phenol		0.072	EPA 8270	3-28-11	3-28-11	
Aniline	ND	0.072	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroethyl)ether	ND	0.072	EPA 8270	3-28-11	3-28-11	
2-Chlorophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,3-Dichlorobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,4-Dichlorobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
Benzyl alcohol	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,2-Dichlorobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
2-Methylphenol (o-Cresol)	ND	0.072	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroisopropyl)ether	ND	0.072	EPA 8270	3-28-11	3-28-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.072	EPA 8270	3-28-11	3-28-11	
n-Nitroso-di-n-propylamine	ND	0.072	EPA 8270	3-28-11	3-28-11	
Hexachloroethane	ND	0.072	EPA 8270	3-28-11	3-28-11	
Nitrobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
Isophorone	ND	0.072	EPA 8270	3-28-11	3-28-11	
2-Nitrophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,4-Dimethylphenol	ND	1.8	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroethoxy)methane	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,4-Dichlorophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,2,4-Trichlorobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
Naphthalene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
4-Chloroaniline	ND	0.072	EPA 8270	3-28-11	3-28-11	
Hexachlorobutadiene	ND	0.072	EPA 8270	3-28-11	3-28-11	
4-Chloro-3-methylphenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
2-Methylnaphthalene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
1-Methylnaphthalene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Hexachlorocyclopentadiene	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,4,6-Trichlorophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,3-Dichloroaniline	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,4,5-Trichlorophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
2-Chloronaphthalene	ND	0.072	EPA 8270	3-28-11	3-28-11	
2-Nitroaniline	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,4-Dinitrobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
Dimethylphthalate	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,3-Dinitrobenzene	ND	0.36	EPA 8270	3-28-11	3-28-11	
2,6-Dinitrotoluene	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,2-Dinitrobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
Acenaphthylene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
3-Nitroaniline	ND	0.072	EPA 8270	3-28-11	3-28-11	

# SEMIVOLATILES by EPA 8270D/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-561-11:4					
Laboratory ID:	03-188-02					
2,4-Dinitrophenol	ND	0.36	EPA 8270	3-28-11	3-28-11	
Acenaphthene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
4-Nitrophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,4-Dinitrotoluene	ND	0.072	EPA 8270	3-28-11	3-28-11	
Dibenzofuran	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,3,5,6-Tetrachlorophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
2,3,4,6-Tetrachlorophenol	ND	0.072	EPA 8270	3-28-11	3-28-11	
Diethylphthalate	ND	0.36	EPA 8270	3-28-11	3-28-11	
4-Chlorophenyl-phenylether		0.072	EPA 8270	3-28-11	3-28-11	
4-Nitroaniline	ND	0.072	EPA 8270	3-28-11	3-28-11	
Fluorene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
4,6-Dinitro-2-methylphenol	ND	0.36	EPA 8270	3-28-11	3-28-11	
n-Nitrosodiphenylamine	ND	0.072	EPA 8270	3-28-11	3-28-11	
1,2-Diphenylhydrazine	ND	0.072	EPA 8270	3-28-11	3-28-11	
4-Bromophenyl-phenylether		0.072	EPA 8270	3-28-11	3-28-11	
Hexachlorobenzene	ND	0.072	EPA 8270	3-28-11	3-28-11	
Pentachlorophenol	ND	0.36	EPA 8270	3-28-11	3-28-11	
Phenanthrene	0.016	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Anthracene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Carbazole	ND	0.072	EPA 8270	3-28-11	3-28-11	
Di-n-butylphthalate	ND	0.072	EPA 8270	3-28-11	3-28-11	
Fluoranthene	0.023	0.012	EPA 8270/SIM	3-28-11	3-29-11	
Benzidine	ND	0.72	EPA 8270	3-28-11	3-28-11	
Pyrene	0.023	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Butylbenzylphthalate	ND	0.072	EPA 8270/SIM	3-28-11	3-29-11	
	ND	0.072		3-28-11		
ois-2-Ethylhexyladipate 3,3'-Dichlorobenzidine	ND	0.72	EPA 8270		3-28-11	
	ND	0.014	EPA 8270 EPA 8270/SIM	3-28-11 3-28-11	3-28-11 3-29-11	
Benz[a]anthracene	0.020					
	0.020	0.014	EPA 8270/SIM	3-28-11	3-29-11	
bis(2-Ethylhexyl)phthalate		0.072	EPA 8270	3-28-11	3-28-11	
Di-n-octylphthalate	ND	0.072	EPA 8270	3-28-11	3-28-11	
Benzo(b)fluoranthene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Benzo(k)fluoranthene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Benzo(a)pyrene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Indeno[1,2,3-cd]pyrene	ND	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Dibenzo(a,h)anthracene	ND 0.016	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Benzo(ghi)perylene	0.016	0.014	EPA 8270/SIM	3-28-11	3-29-11	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	40	30 - 97				
Phenol-d6	58	40 - 104				
D5-Nitrobenzene	54	35 - 102				
2-Fluorobiphenyl	64	44 - 97				
2,4,6-Tribromophenol	78	41 - 110				
D14-Terphenyl	72	53 - 107				

#### SEMIVOLATILES by EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory (D)	MD000001					
Laboratory ID: n-Nitrosodimethylamine	MB0328S1 ND	0.022		2 20 11	0.00.11	
Pyridine	ND	0.033 0.33	EPA 8270	3-28-11	3-28-11	
-	ND		EPA 8270	3-28-11	3-28-11	
Phenol	ND	0.033	EPA 8270	3-28-11	3-28-11	
Aniline	ND	0.033 0.033	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270	3-28-11 3-28-11	3-28-11 3-28-11	
2-Chlorophenol	ND	0.033	EPA 8270		3-28-11	
1,3-Dichlorobenzene	ND		EPA 8270	3-28-11		
1,4-Dichlorobenzene	ND	0.033	EPA 8270	3-28-11	3-28-11	
Benzyl alcohol		0.033	EPA 8270	3-28-11	3-28-11	
1,2-Dichlorobenzene	ND	0.033	EPA 8270	3-28-11	3-28-11	
2-Methylphenol (o-Cresol)	ND ND	0.033	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroisopropyl)ether		0.033	EPA 8270	3-28-11	3-28-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270	3-28-11	3-28-11	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270	3-28-11	3-28-11	
Hexachloroethane	ND	0.033	EPA 8270	3-28-11	3-28-11	
Nitrobenzene	ND	0.033	EPA 8270	3-28-11	3-28-11	
sophorone	ND	0.033	EPA 8270	3-28-11	3-28-11	
2-Nitrophenol	ND	0.033	EPA 8270	3-28-11	3-28-11	
2,4-Dimethylphenol	ND	0.83	EPA 8270	3-28-11	3-28-11	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270	3-28-11	3-28-11	
2,4-Dichlorophenol	ND	0.033	EPA 8270	3-28-11	3-28-11	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270	3-28-11	3-28-11	
Naphthalene	ND	0.0067	EPA 8270/SIM	3-28-11	3-29-11	
4-Chloroaniline	ND	0.033	EPA 8270	3-28-11	3-28-11	
Hexachlorobutadiene	ND	0.033	EPA 8270	3-28-11	3-28-11	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270	3-28-11	3-28-11	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	3-28-11	3-29-11	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	3-28-11	3-29-11	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270	3-28-11	3-28-11	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270	3-28-11	3-28-11	
2,3-Dichloroaniline	ND	0.033	EPA 8270	3-28-11	3-28-11	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270	3-28-11	3-28-11	
2-Chloronaphthalene	ND	0.033	EPA 8270	3-28-11	3-28-11	
2-Nitroaniline	ND	0.033	EPA 8270	3-28-11	3-28-11	
1,4-Dinitrobenzene	ND	0.033	EPA 8270	3-28-11	3-28-11	
Dimethylphthalate	ND	0.033	EPA 8270	3-28-11	3-28-11	
1,3-Dinitrobenzene	ND	0.17	EPA 8270	3-28-11	3-28-11	
2,6-Dinitrotoluene	ND	0.033	EPA 8270	3-28-11	3-28-11	
1,2-Dinitrobenzene	ND	0.033	EPA 8270	3-28-11	3-28-11	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	3-28-11	3-29-11	
3-Nitroaniline	ND	0.033	EPA 8270	3-28-11	3-28-11	

# SEMIVOLATILES by EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 2 of 2

Laboratory ID:         MB0328S1           2.4-Dinitrophenol         ND         0.17         EPA 8270         3-28-11         3-28-11           Acenaphthene         ND         0.0067         EPA 8270         3-28-11         3-28-11           4-Nitrophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2.4-Dinitrotoluene         ND         0.033         EPA 8270         3-28-11         3-28-11           2.3,5.6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2.3,4.6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2.3,4.6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitrosodiphenylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1/2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1/2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1/2-Diphenylhydra		Result	PQL	Method	Date Prepared	Date Analyzed	Flags
2.4-Dinitrophenol         ND         0.17         EPA 8270         3:28-11         3:28-11           Acenaphthene         ND         0.0067         EPA 8270         3:28-11         3:29-11           Acenaphthene         ND         0.033         EPA 8270         3:28-11         3:28-11           2.4-Dinitrotoluene         ND         0.033         EPA 8270         3:28-11         3:28-11           2.3,6,6-Tetrachlorophenol         ND         0.033         EPA 8270         3:28-11         3:28-11           2.3,6,6-Tetrachlorophenol         ND         0.033         EPA 8270         3:28-11         3:28-11           2.3,6,6-Tetrachlorophenol         ND         0.033         EPA 8270         3:28-11         3:28-11           4.6-Initro:2-methylephenyl         ND         0.033         EPA 8270         3:28-11         3:28-11           4.6-Dinitro:2-methylephenol         ND         0.0067         EPA 8270         3:28-11         3:28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3:28-11         3:28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3:28-11         3:28-11           1,2-Diphenylhydrazine         ND         0.033		nooun		motriou	Toparoa	7.1141.9204	
Acenaphthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           4-Nitrophenol         ND         0.033         EPA 8270         3-28-11         3-28-11         3-28-11           2,4-Dinitrotoluene         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,6,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,4,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,4,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           Floorene         ND         0.017         EPA 8270         3-28-11         3-28-11           Horophenyl-phenylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1-2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1-2-Diphenylhydrazine         ND         0.033 <t< td=""><td>ory ID:</td><td>MB0328S1</td><td></td><td></td><td></td><td></td><td></td></t<>	ory ID:	MB0328S1					
4-Nitrophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,4-Dinitrotoluene         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,5,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,4,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,4,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,4,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Chlorophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Arrophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033	rophenol	ND	0.17	EPA 8270	3-28-11	3-28-11	
2,4 - Dinitrotoluene         ND         0.033         EPA 8270         3-28-11         3-28-11           Dibenzofuran         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,6,6 - Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,6,6 - Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,6,6 - Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Obintro-2-methylphenol         ND         0.017         EPA 8270         3-28-11         3-28-11           1-2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenyltyhenyltyhthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenyltyhthyltyhthalate         ND         0.0067         EPA 8270 (SIM 3-28-11         3-29-11           Anthracene         ND         0.033	nthene	ND	0.0067	EPA 8270/SIM	3-28-11	3-29-11	
Dibenzofuran         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,6,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,4,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           Diethylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.0067         EPA 8270         3-28-11         3-28-11           1,2-Diphenylphenylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylphanylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylphenylemene         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylphenylemene         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylphrazine         ND         0.0067         EPA 8270         3-28-11         3-28-11           1,2-Diphenylphthalate         ND         0.0067         EPA	henol	ND	0.033	EPA 8270	3-28-11	3-28-11	
2,3,5,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           2,3,4,6-Tetrachlorophenol         ND         0.17         EPA 8270         3-28.11         3-28.11           4-Chlorophenyl-phenylether         ND         0.033         EPA 8270         3-28.11         3-28.11           4-Chlorophenyl-phenylether         ND         0.0033         EPA 8270         3-28.11         3-28.11           4-Nitroaniline         ND         0.0067         EPA 8270         3-28.11         3-28.11           4-Sirtoniline-2-methylphenol         ND         0.017         EPA 8270         3-28.11         3-28.11           n-Nitrosodiphenyl-phenyl-phenylether         ND         0.033         EPA 8270         3-28.11         3-28.11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28.11         3-28.11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28.11         3-28.11           1,2-Diphenylhydrazine         ND         0.0067         EPA 8270         3-28.11         3-28.11           1,2-Diphenylhydrazine         ND         0.0067         EPA 8270/SIM         3-28.11         3-29.11           Arthracene         ND </td <td>rotoluene</td> <td>ND</td> <td>0.033</td> <td>EPA 8270</td> <td>3-28-11</td> <td>3-28-11</td> <td></td>	rotoluene	ND	0.033	EPA 8270	3-28-11	3-28-11	
2,3,4,6-Tetrachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           Diethylphthalate         ND         0.17         EPA 8270         3-28-11         3-28-11           4-Chlorophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.0067         EPA 8270         3-28-11         3-28-11           4-Dinitro-2-methylphenol         ND         0.17         EPA 8270         3-28-11         3-28-11           1.2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1.2-Diphenylphonolemzene         ND         0.033         EPA 8270         3-28-11         3-28-11           Hexachlorophenol         ND         0.17         EPA 8270         3-28-11         3-28-11           Prentachlorophenol         ND         0.033         EPA 8270         3-28-11         3-28-11           Prentachlorophenol         ND         0.0067         EPA 8270         3-28-11         3-28-11           Carbazole         ND         0.0033         EPA 8270	furan	ND	0.033	EPA 8270	3-28-11	3-28-11	
Diethylphthalate         ND         0.17         EPA 8270         3-28-11         3-28-11           4-Chirophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.0033         EPA 8270         3-28-11         3-28-11           Fluorene         ND         0.0067         EPA 8270         3-28-11         3-28-11           12-Diphenylhylmine         ND         0.017         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.017         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.0067         EPA 8270         3-28-11         3-28-11           Carbazole         ND         0.0067         EPA 8270         3-28-	Fetrachlorophenol	ND	0.033	EPA 8270	3-28-11	3-28-11	
4-Chlorophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Nitroaniline         ND         0.003         EPA 8270         3-28-11         3-28-11           Fluorene         ND         0.0067         EPA 8270         3-28-11         3-28-11           4-Ginitro-2-methylphenol         ND         0.17         EPA 8270         3-28-11         3-28-11           n-Nitrosodiphenylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           Hexachlorobenzene         ND         0.033         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.17         EPA 8270         3-28-11         3-28-11           Anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.033         EPA 8270         3-28-11	<b>Fetrachlorophenol</b>	ND	0.033	EPA 8270	3-28-11	3-28-11	
NItroaniline         ND         0.033         EPA 8270         3-28-11         3-28-11           Fluorene         ND         0.0067         EPA 8270(SIM         3-28-11         3-28-11           A,6-Dinitro-2-methylphenol         ND         0.17         EPA 8270         3-28-11         3-28-11           A,6-Dinitro-2-methylphenol         ND         0.033         EPA 8270         3-28-11         3-28-11           A,6-Dinitro-2-methylphenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           A,6-Dinitro-2-methylphenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           A-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           Hexachlorophenol         ND         0.17         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Anthracene         ND         0.033         EPA 8270         3-28-11         3-28-11           Carbazole         ND         0.033         EPA 8270/SIM         3-28-11         3-28-11           Di-n-butylphthalate         ND         0.033         EPA	hthalate	ND	0.17	EPA 8270	3-28-11	3-28-11	
Fluorene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           4,6-Dinitro-2-methylphenol         ND         0.17         EPA 8270         3-28-11         3-28-11           n-Nitrosodiphenylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.017         EPA 8270         3-28-11         3-28-11           Phenanthrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Anthracene         ND         0.033         EPA 8270         3-28-11         3-28-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Fluoranthene         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.033         EPA 8270         3-28-11	phenyl-phenylether	ND	0.033	EPA 8270	3-28-11	3-28-11	
4,6-Dinitro-2-methylphenol       ND       0.17       EPA 8270       3-28-11       3-28-11         n-Nitrosodiphenylamine       ND       0.033       EPA 8270       3-28-11       3-28-11         1,2-Diphenylhydrazine       ND       0.033       EPA 8270       3-28-11       3-28-11         4-Bromophenyl-phenylether       ND       0.033       EPA 8270       3-28-11       3-28-11         Hexachlorobenzene       ND       0.033       EPA 8270       3-28-11       3-28-11         Pentachlorophenol       ND       0.17       EPA 8270       3-28-11       3-28-11         Pentachlorophenol       ND       0.0067       EPA 8270       3-28-11       3-29-11         Anthracene       ND       0.0033       EPA 8270       3-28-11       3-29-11         Carbazole       ND       0.033       EPA 8270       3-28-11       3-28-11         Benzidine       ND       0.033       EPA 8270       3-28-11       3-28-11         Siebenzine       ND       0.033       EPA 8270       3-28-11       3-28-11         Siebenzine       ND       0.033       EPA 8270       3-28-11       3-28-11         Benzidine       ND       0.033       EPA 8270       3-28-1		ND	0.033	EPA 8270	3-28-11	3-28-11	
Nitrosodiphenylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           Hexachlorobenzene         ND         0.17         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.17         EPA 8270/SIM         3-28-11         3-28-11           Carbazole         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Benzidine         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.033         EPA 8270         3-28-11         3	Э	ND	0.0067	EPA 8270/SIM	3-28-11	3-29-11	
N-Nitrosodiphenylamine         ND         0.033         EPA 8270         3-28-11         3-28-11           1,2-Diphenylhydrazine         ND         0.033         EPA 8270         3-28-11         3-28-11           4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           Hexachlorobenzene         ND         0.033         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.17         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Anthracene         ND         0.0033         EPA 8270         3-28-11         3-28-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Di-n-butylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.0067         EPA 8270         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.0067         EPA 8270         3-28-11	ro-2-methylphenol	ND	0.17		3-28-11	3-28-11	
1,2-Diphenylhydrazine       ND       0.033       EPA 8270       3-28-11       3-28-11         4-Bromophenyl-phenylether       ND       0.033       EPA 8270       3-28-11       3-28-11         Hexachlorobenzene       ND       0.033       EPA 8270       3-28-11       3-28-11         Pentachlorophenol       ND       0.17       EPA 8270       3-28-11       3-28-11         Phenanthrene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Anthracene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Carbazole       ND       0.033       EPA 8270       3-28-11       3-28-11         Di-n-butylphthalate       ND       0.033       EPA 8270       3-28-11       3-28-11         Benzidine       ND       0.033       EPA 8270       3-28-11       3-28-11         Benzidine       ND       0.033       EPA 8270       3-28-11       3-28-11         Sys-2-Ethylhexyladipate       ND       0.033       EPA 8270       3-28-11       3-28-11         Sys-2-Ethylhexyladipate       ND       0.033       EPA 8270       3-28-11       3-28-11         Sys-2-Ethylhexyladipate       ND       0.0067       EPA 8		ND	0.033			3-28-11	
4-Bromophenyl-phenylether         ND         0.033         EPA 8270         3-28-11         3-28-11           Hexachlorobenzene         ND         0.033         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.17         EPA 8270         3-28-11         3-28-11           Phenanthrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Anthracene         ND         0.0067         EPA 8270         3-28-11         3-29-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.0067         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.033         EPA 8270         3-28-11         3-28-11           Systeme         ND         0.033         EPA 8270         3-28-11         3-28-11           Systeme         ND         0.033         EPA 8270         3-28-11         3-28-11           Syste		ND				3-28-11	
Hexachlorobenzene         ND         0.033         EPA 8270         3-28-11         3-28-11           Pentachlorophenol         ND         0.17         EPA 8270         3-28.11         3-28.11           Phenanthrene         ND         0.0067         EPA 8270/SIM         3-28.11         3-29.11           Anthracene         ND         0.0067         EPA 8270/SIM         3-28.11         3-29.11           Carbazole         ND         0.033         EPA 8270         3-28.11         3-28.11           Di-n-butylphthalate         ND         0.033         EPA 8270         3-28.11         3-28.11           Fluoranthene         ND         0.033         EPA 8270         3-28.11         3-29.11           Benzidine         ND         0.33         EPA 8270         3-28.11         3-29.11           Benzidine         ND         0.033         EPA 8270         3-28.11         3-29.11           Benzidine         ND         0.033         EPA 8270         3-28.11         3-28.11           Sis-2-Ethylhexyladipate         ND         0.033         EPA 8270         3-28.11         3-28.11           Sis(2-Ethylhexylophthalate         ND         0.0067         EPA 8270         3-28.11         3-29.11		ND					
Pentachlorophenol         ND         0.17         EPA 8270         3-28-11         3-28-11           Phenanthrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Di-n-butylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Fluoranthene         ND         0.0067         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.0067         EPA 8270         3-28-11         3-28-11           Pyrene         ND         0.0067         EPA 8270         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Sign-Dichlorobenzidine         ND         0.033         EPA 8270         3-28-11         3-28-11           Benz(ajanthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Chrysene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11							
Phenanthrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Di-n-butylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.0067         EPA 8270         3-28-11         3-28-11           Benzidine         ND         0.0067         EPA 8270         3-28-11         3-28-11           Pyrene         ND         0.0067         EPA 8270         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Benz[a]anthracene         ND         0.033         EPA 8270         3-28-11         3-28-11           Benz[d]anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Di-n-octylphthalate         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-						3-28-11	
ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Carbazole         ND         0.033         EPA 8270         3-28-11         3-28-11           Di-n-butylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzidine         ND         0.33         EPA 8270         3-28-11         3-28-11           Pyrene         ND         0.33         EPA 8270/SIM         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Bitylbenzylphthalate         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Chrysene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11      <	•					3-29-11	
Darbon         ND         0.033         EPA 8270         3-28-11         3-28-11           Di-n-butylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Banzidine         ND         0.33         EPA 8270/SIM         3-28-11         3-28-11           Pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.0033         EPA 8270         3-28-11         3-28-11           Bis-2-Ethylhexyladipate         ND         0.033         EPA 8270         3-28-11         3-28-11           3,3 -Dichlorobenzidine         ND         0.033         EPA 8270         3-28-11         3-28-11           3,3 -Dichlorobenzidine         ND         0.033         EPA 8270/SIM         3-28-11         3-28-11           Banz(a)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Di-n-octylphthalate         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Di-n-octylphthalate         ND         0.0067         EPA 8270/SIM	ene	ND					
Di-n-butylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzidine         ND         0.33         EPA 8270         3-28-11         3-29-11           Benzidine         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Barz[a]anthracene         ND         0.033         EPA 8270         3-28-11         3-28-11           Benz[a]anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Di-n-octylphthalate         ND         0.033         EPA 8270         3-28-11         3-29-11           Di-n-octylphthalate         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM	le						
Fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzidine         ND         0.33         EPA 8270         3-28-11         3-28-11         3-28-11           Pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-29-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           3,3'-Dichlorobenzidine         ND         0.033         EPA 8270         3-28-11         3-28-11           Benz[a]anthracene         ND         0.0067         EPA 8270         3-28-11         3-28-11           Benz[a]anthracene         ND         0.0067         EPA 8270         3-28-11         3-29-11           Dis/2-Ethylhexyl)phthalate         ND         0.0067         EPA 8270         3-28-11         3-29-11           Dis/2-Ethylhexyl)phthalate         ND         0.033         EPA 8270         3-28-11         3-29-11           Di-n-octylphthalate         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(b/fluoranthene         ND         0.0067							
Benzidine         ND         0.33         EPA 8270         3-28-11         3-28-11           Pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Butylbenzylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           bis-2-Ethylhexyladipate         ND         0.033         EPA 8270         3-28-11         3-28-11           3,3'-Dichlorobenzidine         ND         0.33         EPA 8270         3-28-11         3-28-11           3,3'-Dichlorobenzidine         ND         0.33         EPA 8270         3-28-11         3-28-11           Benz[a]anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Chrysene         ND         0.0067         EPA 8270         3-28-11         3-29-11           Di-n-octylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzo(b)fluoranthene         ND         0.033         EPA 8270         3-28-11         3-29-11           Benzo(k)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-							
PyreneND0.0067EPA 8270/SIM3-28-113-29-11ButylbenzylphthalateND0.033EPA 82703-28-113-28-11Dis-2-EthylhexyladipateND0.033EPA 82703-28-113-28-113,3'-DichlorobenzidineND0.033EPA 82703-28-113-28-11Benz[a]anthraceneND0.0067EPA 8270/SIM3-28-113-29-11ChryseneND0.0067EPA 8270/SIM3-28-113-29-11Dis(2-Ethylhexyl)phthalateND0.033EPA 82703-28-113-28-11Di-n-octylphthalateND0.033EPA 82703-28-113-28-11Benzo(b)fluorantheneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(k)fluorantheneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(a)pyreneND0.0067EPA 8270/SIM3-28-113-29-11Indeno[1,2,3-cd]pyreneND0.0067EPA 8270/SIM3-28-113-29-11Dibenzo(a,h)anthraceneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(ghi)peryleneND0.0067EPA 8270/SIM3-28-113-29-11Surrogate:Percent RecoveryControl Limits2-Fluorophenol4930 - 97Phenol-d65340 - 104D5-Nitrobenzene5335 - 1022-Fluorobiphenyl5844 - 97							
ButylbenzylphthalateND0.033EPA 82703-28-113-28-11Dis-2-EthylhexyladipateND0.033EPA 82703-28-113-28-113,3'-DichlorobenzidineND0.33EPA 82703-28-113-28-11Benz[a]anthraceneND0.0067EPA 8270/SIM3-28-113-29-11ChryseneND0.0067EPA 8270/SIM3-28-113-29-11Dis(2-Ethylhexyl)phthalateND0.033EPA 82703-28-113-28-11Di-n-octylphthalateND0.033EPA 82703-28-113-28-11Benzo(b)fluorantheneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(k)fluorantheneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(a)pyreneND0.0067EPA 8270/SIM3-28-113-29-11Indeno[1,2,3-cd]pyreneND0.0067EPA 8270/SIM3-28-113-29-11Dibenzo(a,h)anthraceneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(ghi)peryleneND0.0067EPA 8270/SIM3-28-113-29-11Surrogate:Percent RecoveryControl Limits3-29-113-29-112-Fluorophenol4930 - 9730 - 973-28-113-29-112-Fluorophenol4930 - 973-28-103-29-113-29-112-Fluorophenol5335 - 1023-213-29-113-29-112-Fluorobiphenyl5844 - 973-29-113-29-11							
Dis-2-Ethylhexyladipate         ND         0.033         EPA 8270         3-28-11         3-28-11           3,3'-Dichlorobenzidine         ND         0.33         EPA 8270         3-28-11         3-28-11           Benz[a]anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Chrysene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Di-n-octylphthalate         ND         0.0033         EPA 8270         3-28-11         3-29-11           Di-n-octylphthalate         ND         0.033         EPA 8270         3-28-11         3-29-11           Benzo(b)fluoranthene         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067	uzvlohthalate						
3,3'-Dichlorobenzidine       ND       0.33       EPA 8270       3-28-11       3-28-11         Benz[a]anthracene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Chrysene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Dis(2-Ethylhexyl)phthalate       ND       0.033       EPA 8270       3-28-11       3-28-11         Di-n-octylphthalate       ND       0.033       EPA 8270       3-28-11       3-28-11         Benzo(b)fluoranthene       ND       0.0067       EPA 8270/SIM       3-28-11       3-28-11         Benzo(b)fluoranthene       ND       0.0067       EPA 8270/SIM       3-28-11       3-28-11         Benzo(k)fluoranthene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Benzo(a)pyrene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Indeno[1,2,3-cd]pyrene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Dibenzo(a,h)anthracene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Benzo(ghi)perylene       ND       0.0067       EPA 8270/SIM       3-28-11       3-29-11         Surrogate:							
Benz[a]anthraceneND0.0067EPA 8270/SIM3-28-113-29-11ChryseneND0.0067EPA 8270/SIM3-28-113-29-11Dis(2-Ethylhexyl)phthalateND0.033EPA 82703-28-113-28-11Di-n-octylphthalateND0.033EPA 82703-28-113-28-11Benzo(b)fluorantheneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(b)fluorantheneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(a)pyreneND0.0067EPA 8270/SIM3-28-113-29-11Indeno[1,2,3-cd]pyreneND0.0067EPA 8270/SIM3-28-113-29-11Dibenzo(a,h)anthraceneND0.0067EPA 8270/SIM3-28-113-29-11Benzo(ghi)peryleneND0.0067EPA 8270/SIM3-28-113-29-11Surrogate:Percent RecoveryControl Limits2-2-113-29-112-Fluorophenol4930 - 9797Phenol-d65340 - 1042-2-102-2-112-Fluorobiphenyl5844 - 9797							
Chrysene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           bis(2-Ethylhexyl)phthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Di-n-octylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Disc         ND         0.033         EPA 8270         3-28-11         3-28-11           Di-n-octylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-28-11           Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         2-Fluorophenol         49         30 - 97           Phenol-d6         53         35 - 102							
Di-n-octylphthalate         ND         0.033         EPA 8270         3-28-11         3-28-11           Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(k)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         30 - 97         97           Phenol-d6         53         40 - 104         58         44 - 97         58         44 - 97							
Benzo(b)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(k)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         2-Fluorophenol         49         30 - 97           Phenol-d6         53         40 - 104         58         44 - 97         2-Fluorobiphenyl         58         44 - 97							
Benzo(k)fluoranthene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         2-Fluorophenol         49         30 - 97           Phenol-d6         53         40 - 104         58         44 - 97         2-Fluorobiphenyl         58         44 - 97							
Benzo(a)pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         30 - 97         53         40 - 104           D5-Nitrobenzene         53         35 - 102         58         44 - 97         58	-						
Indeno[1,2,3-cd]pyrene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Dibenzo(a,h)anthracene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         30 - 97         30 - 97           Phenol-d6         53         40 - 104         55         53         35 - 102           2-Fluorobiphenyl         58         44 - 97         58         44 - 97							
ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         3-28-11         3-29-11           2-Fluorophenol         49         30 - 97         30 - 97           Phenol-d6         53         40 - 104         55           D5-Nitrobenzene         53         35 - 102         2-Fluorobiphenyl         58         44 - 97							
Benzo(ghi)perylene         ND         0.0067         EPA 8270/SIM         3-28-11         3-29-11           Surrogate:         Percent Recovery         Control Limits         -<							
Surrogate: Percent Recovery Control Limits 2-Fluorophenol 49 30 - 97 Phenol-d6 53 40 - 104 D5-Nitrobenzene 53 35 - 102 2-Fluorobiphenyl 58 44 - 97							
2-Fluorophenol       49       30 - 97         Phenol-d6       53       40 - 104         D5-Nitrobenzene       53       35 - 102         2-Fluorobiphenyl       58       44 - 97					0-20-11	0-20-11	
Phenol-d6       53       40 - 104         D5-Nitrobenzene       53       35 - 102         2-Fluorobiphenyl       58       44 - 97		-					
D5-Nitrobenzene 53 35 - 102 2-Fluorobiphenyl 58 44 - 97							
2-Fluorobiphenyl 58 44 - 97							
2,4,6-Tribromophenol 80 41 - 110	, ,						
D14-Terphenyl 79 53 - 107							

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# SEMIVOLATILES by EPA 8270D/SIM MS/MSD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-1	91-06									
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.985	1.07	1.33	1.33	ND	74	80	41 - 106	8	29	
2-Chlorophenol	0.987	1.08	1.33	1.33	ND	74	81	43 - 104	9	36	
1,4-Dichlorobenzene	0.410	0.445	0.667	0.667	ND	61	67	25 - 94	8	40	
n-Nitroso-di-n-propylamine	0.469	0.506	0.667	0.667	ND	70	76	40 - 100	8	34	
1,2,4-Trichlorobenzene	0.431	0.479	0.667	0.667	ND	65	72	39 - 86	11	34	
4-Chloro-3-methylphenol	1.17	1.19	1.33	1.33	ND	88	89	60 - 102	2	25	
Acenaphthene	0.522	0.535	0.667	0.667	ND	78	80	54 - 94	2	23	
4-Nitrophenol	1.18	1.19	1.33	1.33	ND	89	89	30 - 133	1	25	
2,4-Dinitrotoluene	0.630	0.645	0.667	0.667	ND	94	97	46 - 107	2	26	
Pentachlorophenol	1.24	1.28	1.33	1.33	ND	93	96	54 - 111	3	29	
Pyrene	0.704	0.719	0.667	0.667	0.193	77	79	54 - 108	2	21	
Surrogate:											
2-Fluorophenol						60	67	30 - 97			
Phenol-d6						69	74	40 - 104			
D5-Nitrobenzene						67	76	35 - 102			
2-Fluorobiphenyl						71	75	44 - 97			
2,4,6-Tribromophenol						85	90	41 - 110			
D14-Terphenyl						80	83	53 - 107			

# PCBs by EPA 8082

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-536-11:8					
Laboratory ID:	03-188-01					
PCB-aroclor 1016	ND	0.28	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1221	ND	0.28	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1232	ND	0.28	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1242	ND	0.28	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1248	ND	0.28	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1254	ND	0.28	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1260	ND	0.28	EPA 8082	3-23-11	3-23-11	
Surrogate:	Percent Recovery	Control Limits				
DCB	76	42-123				
Client ID:	H-561-11:4					
Laboratory ID:	03-188-02					
PCB-aroclor 1016	ND	0.11	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1221	ND	0.11	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1232	ND	0.11	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1242	ND	0.11	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1248	ND	0.11	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1254	ND	0.11	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1260	ND	0.11	EPA 8082	3-23-11	3-23-11	
Surrogate:	Percent Recovery	Control Limits				
DCB	75	42-123				

# PCBs by EPA 8082 QUALITY CONTROL

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323S1					
PCB-aroclor 1016	ND	0.050	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1221	ND	0.050	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1232	ND	0.050	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1242	ND	0.050	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1248	ND	0.050	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1254	ND	0.050	EPA 8082	3-23-11	3-23-11	
PCB-aroclor 1260	ND	0.050	EPA 8082	3-23-11	3-23-11	
Surrogate:	Percent Recovery	Control Limits				
DCB	88	42-123				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-19	91-06									
	MS	MSD	MS	MSD		MS	MSD				
PCB-aroclor 1260	0.442	0.435	0.500	0.500	ND	88	87	44-125	2	15	
Surrogate:											
DCB						87	85	42-123			

#### TOTAL METALS EPA 6010B/6020/7471A

Units:	mg/kg (ppm)					
				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: <b>Client ID:</b>	03-188-01 <b>H-536-11:8</b>					
Arsenic	ND	14	6020	3-22-11	3-28-11	
Barium	130	14	6010B	3-22-11	3-22-11	
Cadmium	ND	1.4	6020	3-22-11	3-28-11	
Chromium	66	2.8	6010B	3-22-11	3-22-11	
Lead	37	28	6010B	3-22-11	3-22-11	
Mercury	ND	1.4	7471A	3-23-11	3-23-11	
Selenium	ND	14	6020	3-22-11	3-28-11	
Silver	ND	2.8	6010B	3-22-11	3-22-11	

Client ID:	03-188-02 H-561-11:4					
Arsenic	ND	11	6010B	3-22-11	3-22-11	
Barium	48	5.4	6010B	3-22-11	3-22-11	
Cadmium	ND	1.1	6010B	3-22-11	3-22-11	
Chromium	32	1.1	6010B	3-22-11	3-22-11	
Lead	ND	11	6010B	3-22-11	3-22-11	
Mercury	ND	0.54	7471A	3-23-11	3-23-11	
Selenium	ND	22	6010B	3-22-11	3-22-11	
Silver	ND	1.1	6010B	3-22-11	3-22-11	

#### TOTAL METALS EPA 6010B/7471A

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	03-188-03					
Client ID:	H-552-11:4					
Arsenic	ND	5.7	6010B	3-22-11	3-22-11	
Barium	47	2.8	6010B	3-22-11	3-22-11	
Cadmium	ND	0.57	6010B	3-22-11	3-22-11	
Chromium	47	0.57	6010B	3-22-11	3-22-11	
Lead	ND	5.7	6010B	3-22-11	3-22-11	
Mercury	ND	0.28	7471A	3-23-11	3-23-11	
Selenium	ND	11	6010B	3-22-11	3-22-11	
Silver	ND	0.57	6010B	3-22-11	3-22-11	

Lab ID: Client ID:	03-188-04 <b>H-609p-11:16.7</b>				
Arsenic	ND	6.1	6010B	3-22-11	3-22-11
Barium	86	3.0	6010B	3-22-11	3-22-11
Cadmium	ND	0.61	6010B	3-22-11	3-22-11
Chromium	48	0.61	6010B	3-22-11	3-22-11
Lead	28	6.1	6010B	3-22-11	3-22-11
Mercury	ND	0.30	7471A	3-23-11	3-23-11
Selenium	ND	12	6010B	3-22-11	3-22-11
Silver	ND	0.61	6010B	3-22-11	3-22-11

### TOTAL METALS EPA 6010B/7471A METHOD BLANK QUALITY CONTROL

Date Extracted:	3-22&23-11
Date Analyzed:	3-22&23-11
Matrix:	Soil
Units:	mg/kg (ppm)

# Lab ID: MB0322S2,MB0322S3&MB0323S1

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.0
Barium	6010B	ND	2.5
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.25
Selenium	6010B	ND	10
Silver	6010B	ND	0.50

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Selenium

#### TOTAL METALS EPA 6010B METHOD BLANK QUALITY CONTROL

6010B

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PQL

2.5

0.25

2.5

ND

# TOTAL METALS EPA 6010B/7471A DUPLICATE QUALITY CONTROL

Date Extracted:	3-22&23-11
Date Analyzed:	3-22&23-11

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-162-05

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	5.0	
Barium	19.0	15.5	20	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	0 55	7 55	10	0.50	
Chromium	8.55	7.55	12	0.50	
Lead	ND	ND	NA	5.0	
Leau		NB	NA .	5.0	
Mercury	ND	ND	NA	0.25	
				0.20	
Selenium	ND	ND	NA	10	
				-	
Silver	ND	ND	NA	0.50	

# TOTAL METALS EPA 6010B DUPLICATE QUALITY CONTROL

Date Extracted:	3-22-11
Date Analyzed:	3-28-11

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-162-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	2.50	ND	NA	2.5	
Cadmium	ND	ND	NA	0.25	
Selenium	ND	ND	NA	2.5	

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# TOTAL METALS EPA 6010B/7471A MS/MSD QUALITY CONTROL

Date Extracted:	3-22&23-11
Date Analyzed:	3-22&23-11

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-162-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	93.5	93	96.1	96	3	
Barium	100	121	102	119	100	2	
Cadmium	50	46.4	93	47.4	95	2	
Chromium	100	101	93	104	95	2	
Lead	250	231	92	237	95	2	
Mercury	0.50	0.528	106	0.513	103	3	
Selenium	100	93.5	93	96.9	97	4	
Silver	25	23.4	94	23.6	94	1	

# TOTAL METALS EPA 6010B MS/MSD QUALITY CONTROL

Date Extracted:	3-22-11
Date Analyzed:	3-28-11

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-162-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	100	98	101	99	1	
Cadmium	50	48.3	97	51.0	102	6	
Selenium	100	103	103	103	103	0	

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### % MOISTURE

Date Analyzed: 3-21&23-11

Client ID	Lab ID	% Moisture
H-536-11:8	03-188-01	82
H-561-11:4	03-188-02	54
H-552-11:4	03-188-03	12
H-609p-11:16.7	03-188-04	17



### **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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit RPD - Relative Percent Difference

<b>MA OnSite</b>		Chain	5	<b>CUL LODY</b>	Ż							Pa	Page	of
Environmental Inc.		Turnaround Request (in working days)	luest ys)	Laboratory Number:	ory N	umbe						0	3-1	88
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February 6, 2015

Edwin Ptak Shannon & Wilson, Inc. 400 N 34th Street, Suite 100 Seattle, WA 98103

Re: Analytical Data for Project 21-1-20624 Laboratory Reference No. 1501-213

Dear Edwin:

Enclosed are the analytical results and associated quality control data for samples submitted on January 29, 2015.

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

Date of Report: February 6, 2015 Samples Submitted: January 29, 2015 Laboratory Reference: 1501-213 Project: 21-1-20624

#### **Case Narrative**

Samples were collected on January 28, 2015 and received by the laboratory on January 29, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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-HCID**

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-662p-15:7.5					
Laboratory ID:	01-213-01					
Gasoline Range Organics	ND	27	NWTPH-HCID	1-29-15	1-29-15	
Diesel Range Organics	ND	67	NWTPH-HCID	1-29-15	1-29-15	
Lube Oil Range Organics	ND	140	NWTPH-HCID	1-29-15	1-29-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				
Client ID:	H-667p-15:7.5					
Laboratory ID:	01-213-02					
Gasoline Range Organics	ND	23	NWTPH-HCID	1-29-15	1-29-15	
Diesel Range Organics	ND	57	NWTPH-HCID	1-29-15	1-29-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	1-29-15	1-29-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	99	50-150				

#### NWTPH-HCID QUALITY CONTROL

ee				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0129S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	1-29-15	1-29-15	
Diesel Range Organics	ND	50	NWTPH-HCID	1-29-15	1-29-15	
Lube Oil Range Organics	ND	100	NWTPH-HCID	1-29-15	1-29-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	104	50-150				

#### TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: <b>Client ID:</b>	01-213-01 <b>H-662p-15:7.5</b>					
Arsenic	ND	13	6010C	2-3-15	2-3-15	
Barium	160	3.4	6010C	2-3-15	2-3-15	
Cadmium	ND	0.67	6010C	2-3-15	2-3-15	
Chromium	79	0.67	6010C	2-3-15	2-3-15	
Lead	ND	6.7	6010C	2-3-15	2-3-15	
Mercury	ND	0.34	7471B	2-4-15	2-4-15	
Selenium	ND	13	6010C	2-3-15	2-3-15	
Silver	ND	1.3	6010C	2-3-15	2-3-15	

Lab ID: Client ID:	01-213-02 <b>H-667p-15:7.5</b>					
Arsenic	ND	11	6010C	2-3-15	2-3-15	
Barium	49	2.9	6010C	2-3-15	2-3-15	
Cadmium	ND	0.57	6010C	2-3-15	2-3-15	
Chromium	44	0.57	6010C	2-3-15	2-3-15	
Lead	20	5.7	6010C	2-3-15	2-3-15	
Mercury	ND	0.29	7471B	2-4-15	2-4-15	
Selenium	ND	11	6010C	2-3-15	2-3-15	
Silver	ND	1.1	6010C	2-3-15	2-3-15	

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Date of Report: February 6, 2015 Samples Submitted: January 29, 2015 Laboratory Reference: 1501-213 Project: 21-1-20624

#### TOTAL METALS EPA 6010C/7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	2-3&4-15
Date Analyzed:	2-3&4-15
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB0203SM1&MB0204S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 6, 2015 Samples Submitted: January 29, 2015 Laboratory Reference: 1501-213 Project: 21-1-20624

### TOTAL METALS EPA 6010C/7471B DUPLICATE QUALITY CONTROL

Date Extracted:	2-3&4-15
Date Analyzed:	2-3&4-15

- Matrix: Soil Units: mg/kg (ppm)
- Lab ID: 01-203-16

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	33.2	29.0	14	2.5	
Codmium		ND	ΝΙΔ	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	23.8	18.5	25	0.50	
	20.0	10.0	20	0.00	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

Date of Report: February 6, 2015 Samples Submitted: January 29, 2015 Laboratory Reference: 1501-213 Project: 21-1-20624

### TOTAL METALS EPA 6010C/7471B MS/MSD QUALITY CONTROL

Date Extracted:	2-3&4-15
Date Analyzed:	2-3&4-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 01-203-16

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Arsenic	100	93.1	93	94.4	94	1	
Barium	100	126	93	122	89	4	
Cadmium	50.0	46.0	92	45.8	92	0	
Chromium	100	112	88	109	86	2	
Lead	250	236	94	235	94	0	
Mercury	0.500	0.539	108	0.524	105	3	
Selenium	100	94.9	95	94.3	94	1	
Silver	25.0	21.9	88	21.9	88	0	

Date of Report: February 6, 2015 Samples Submitted: January 29, 2015 Laboratory Reference: 1501-213 Project: 21-1-20624

# % MOISTURE

Date Analyzed: 1-29-15

Client ID	Lab ID	% Moisture
H-662p-15:7.5	01-213-01	26
H-667p-15:7.5	01-213-02	12



### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

Reviewed by/Date	Received by	Relinquished by	Received by	Relinquished by	Received by	Relinquished by					4 6676-	2 H-667P-	1 H-662p-15:7.5	Lab ID Sai	Sampled by: Jennifer Parker	Jor El Ptak	SR 520	21-1-20624	Shannon S	Company: Phone: (425) 8	14648 NE 95tr	<b>MA OnSite</b>
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February 24, 2015

Edwin Ptak Shannon & Wilson, Inc. 400 N 34th Street, Suite 100 Seattle, WA 98103

Re: Analytical Data for Project 21-1-20624-802 Laboratory Reference No. 1502-107

Dear Edwin:

Enclosed are the analytical results and associated quality control data for samples submitted on February 11, 2015.

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

### **Case Narrative**

Samples were collected on February 10, 2015 and received by the laboratory on February 11, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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-HCID**

Matrix: Water Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-667p-15:GW					
Laboratory ID:	02-107-01					
Gasoline Range Organics	Detected	0.10	NWTPH-HCID	2-13-15	2-13-15	
Diesel Range Organics	ND	0.26	NWTPH-HCID	2-13-15	2-13-15	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	2-13-15	2-13-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	79	50-150				

### NWTPH-HCID QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

e				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0213W1					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	2-13-15	2-13-15	
Diesel Range Organics	ND	0.25	NWTPH-HCID	2-13-15	2-13-15	
Lube Oil Range Organics	ND	0.40	NWTPH-HCID	2-13-15	2-13-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	87	50-150				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

### TOTAL PP METALS EPA 200.8/7470A

Matrix:	Water
Units:	ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	02-107-01 <b>H-667p-15:GW</b>					
Antimony	ND	5.6	200.8	2-17-15	2-17-15	
Arsenic	5.8	3.3	200.8	2-17-15	2-17-15	
Beryllium	ND	11	200.8	2-17-15	2-17-15	
Cadmium	ND	4.4	200.8	2-17-15	2-17-15	
Chromium	ND	11	200.8	2-17-15	2-17-15	
Copper	ND	11	200.8	2-17-15	2-17-15	
Lead	ND	1.1	200.8	2-17-15	2-17-15	
Mercury	ND	0.50	7470A	2-12-15	2-12-15	
Nickel	ND	22	200.8	2-17-15	2-17-15	
Selenium	ND	5.6	200.8	2-17-15	2-17-15	
Silver	ND	11	200.8	2-17-15	2-17-15	
Thallium	ND	5.6	200.8	2-17-15	2-17-15	
Zinc	ND	28	200.8	2-17-15	2-17-15	

### TOTAL PP METALS EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Extracted:	2-17-15
Date Analyzed:	2-17-15
Matrix:	Water
Units:	ug/L (ppb)

Lab ID: MB0217WM1

Analyte	Method	Result	PQL
Antimony	200.8	ND	5.6
Arsenic	200.8	ND	3.3
Beryllium	200.8	ND	11
Cadmium	200.8	ND	4.4
Chromium	200.8	ND	11
Copper	200.8	ND	11
Lead	200.8	ND	1.1
Nickel	200.8	ND	22
Selenium	200.8	ND	5.6
Silver	200.8	ND	11
Thallium	200.8	ND	5.6
Zinc	200.8	ND	28

### TOTAL MERCURY EPA 7470A METHOD BLANK QUALITY CONTROL

Date Extracted: Date Analyzed:	2-12-15 2-12-15		
Matrix: Units:	Water ug/L (ppb)		
Lab ID:	MB0212W1		
Analyte	Method	Result	PQL
Mercury	7470A	ND	0.50

# TOTAL PP METALS EPA 200.8 DUPLICATE QUALITY CONTROL

Date Extracted:	2-17-15
Date Analyzed:	2-17-15

- Matrix: Water Units: ug/L (ppb)
- Lab ID: 02-055-05

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.6	
Arsenic	ND	ND	NA	3.3	
Beryllium	ND	ND	NA	11	
Cadmium	ND	ND	NA	4.4	
Chromium	ND	ND	NA	11	
Copper	ND	ND	NA	11	
Lead	ND	ND	NA	1.1	
Nickel	ND	ND	NA	22	
Selenium	ND	ND	NA	5.6	
Silver	ND	ND	NA	11	
Thallium	ND	ND	NA	5.6	
Zinc	ND	ND	NA	28	

### TOTAL MERCURY EPA 7470A DUPLICATE QUALITY CONTROL

Date Extracted:	2-12-15
Date Analyzed:	2-12-15

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 02-107-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.50	

# TOTAL PP METALS EPA 200.8 MS/MSD QUALITY CONTROL

Date Extracted:	2-17-15
Date Analyzed:	2-17-15

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 02-055-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	111	115	104	115	104	0	
Arsenic	111	115	103	117	105	2	
Beryllium	111	109	98	109	98	0	
Cadmium	111	112	101	113	102	0	
Chromium	111	103	93	101	91	2	
Copper	111	100	90	98.8	89	2	
Lead	111	107	97	108	98	1	
Nickel	111	101	91	104	93	2	
Selenium	111	118	107	121	109	2	
Silver	111	107	96	106	96	0	
Thallium	111	110	99	112	100	1	
Zinc	111	120	108	118	106	1	

## TOTAL MERCURY EPA 7470A MS/MSD QUALITY CONTROL

Date Extracted:	2-12-15
Date Analyzed:	2-12-15

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 02-107-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Mercury	12.5	11.4	91	11.6	93	2	

### DISSOLVED PP METALS EPA 200.8/7470A

Matrix:	Water
Units:	ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	02-107-01 <b>H-667p-15:GW</b>					
Antimony	ND	5.0	200.8	2-11-15	2-19-15	
Arsenic	3.4	3.0	200.8	2-11-15	2-19-15	
Beryllium	ND	10	200.8	2-11-15	2-19-15	
Cadmium	ND	4.0	200.8	2-11-15	2-19-15	
Chromium	ND	10	200.8	2-11-15	2-19-15	
Copper	ND	10	200.8	2-11-15	2-19-15	
Lead	ND	1.0	200.8	2-11-15	2-19-15	
Mercury	ND	0.50	7470A	2-11-15	2-12-15	
Nickel	ND	20	200.8	2-11-15	2-19-15	
Selenium	ND	5.0	200.8	2-11-15	2-19-15	
Silver	ND	10	200.8	2-11-15	2-19-15	
Thallium	ND	5.0	200.8	2-11-15	2-19-15	
Zinc	ND	25	200.8	2-11-15	2-19-15	

# DISSOLVED PP METALS EPA 200.8/7470A METHOD BLANK QUALITY CONTROL

Date Filtered:	2-11-15
Date Analyzed:	2-12&19-15
Matrix:	Water
Units:	ug/L (ppb)
Lab ID:	MB0211F1

Analyte	Method	Result	PQL
Antimony	200.8	ND	5.0
Arsenic	200.8	ND	3.0
Beryllium	200.8	ND	10
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Copper	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50
Nickel	200.8	ND	20
Selenium	200.8	ND	5.0
Silver	200.8	ND	10
Thallium	200.8	ND	5.0
Zinc	200.8	ND	25

# DISSOLVED PP METALS EPA 200.8/7470A DUPLICATE QUALITY CONTROL

Date Filtered:	2-11-15
Date Analyzed:	2-12&19-15

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 02-107-01

Sample	Duplicate			
Result	Result	RPD	PQL	Flags
ND	ND	NA	5.0	
3.36	3.32	1	3.0	
ND	ND	NA	10	
ND	ND	NA	4.0	
ND	ND	NA	10	
ND	ND	NA	10	
ND	ND	NA	1.0	
ND	ND	NA	0.5	
ND	ND	NA	20	
ND	ND	NA	5.0	
ND	ND	NA	10	
ND	ND	NA	5.0	
ND	ND	NA	25	
	Result ND 3.36 ND ND ND ND ND ND ND ND ND	ResultResultNDND3.363.32ND	ResultResultRPDNDNDNA3.363.321NDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNANDNDNA	ResultRPDPQLNDNDNA5.03.363.3213.0NDNDNA10NDNDNA4.0NDNDNA10NDNDNA10NDNDNA10NDNDNA10NDNDNA10NDNDNA20NDNDNA5.0NDNDNA5.0NDNDNA5.0

# DISSOLVED PP METALS EPA 200.8/7470A MS/MSD QUALITY CONTROL

Date Filtered:	2-11-15
Date Analyzed:	2-12&19-15

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 02-107-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	200	206	103	211	105	2	
Arsenic	200	203	100	205	101	1	
Beryllium	200	199	99	197	98	1	
Cadmium	200	199	100	200	100	0	
Chromium	200	192	96	191	95	1	
Copper	200	185	92	186	93	0	
Lead	200	196	98	196	98	0	
Mercury	12.5	11.2	89	11.6	93	4	
Nickel	200	192	96	191	95	1	
Selenium	200	223	112	223	111	0	
Silver	200	174	87	177	89	2	
Thallium	200	201	101	202	101	0	
Zinc	200	205	103	211	105	3	

15

### NWTPH-Gx/BTEX

Matrix: Water Units: ug/L (ppb)

5 (11 )				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-667p-15:GW					
Laboratory ID:	02-107-01					
Benzene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
Toluene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
Ethyl Benzene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
m,p-Xylene	1.6	1.0	EPA 8021B	2-20-15	2-20-15	
o-Xylene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
Gasoline	170	100	NWTPH-Gx	2-20-15	2-20-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	71-113				

### NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

orinto: ug/= (ppo)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0220W1					
Benzene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
Toluene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
Ethyl Benzene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
m,p-Xylene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
o-Xylene	ND	1.0	EPA 8021B	2-20-15	2-20-15	
Gasoline	ND	100	NWTPH-Gx	2-20-15	2-20-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	100	71-113				

					Source	Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	02-17	73-05									
	ORIG	DUP									
Benzene	ND	ND	NA	NA		Ν	JA	NA	NA	30	
Toluene	ND	ND	NA	NA		Ν	IA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		Ν	JA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA		Ν	JA	NA	NA	30	
o-Xylene	ND	ND	NA	NA		Ν	JA	NA	NA	30	
Gasoline	ND	ND	NA	NA		Ν	JA	NA	NA	30	
Surrogate:											
Fluorobenzene						103	103	71-113			
SPIKE BLANKS											
Laboratory ID:	SB02	20W1									
	SB	SBD	SB	SBD		SB	SBD				
Benzene	55.0	52.7	50.0	50.0		110	105	80-118	4	11	
Toluene	56.8	54.4	50.0	50.0		114	109	81-119	4	11	
Ethyl Benzene	55.7	53.2	50.0	50.0		111	106	80-121	5	12	
m,p-Xylene	56.0	53.7	50.0	50.0		112	107	81-121	4	12	
o-Xylene	54.8	52.7	50.0	50.0		110	105	81-119	4	12	
Surrogate:											
Fluorobenzene						105	105	71-113			



### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

in of Custody	est Laboratory Number: 02 - 107		2025 2025 2025 2025 2025 2026 2026 2027 2010 2027 2027 2027 2027 2027 2027	-Gx/BTEX -Gx/BTEX -Gx/BTEX -Gx -Dx -Dx -Bx -Gx -Gx -Gx -Gx -Gx -Gx -Gx -Gx -Gx -G	имтрн имтрн имтрн имтрн уогалос Споалос Огдалос Огдалос Огдалос Огдалос Огдалос Огдалос Огдалос Огдалос Огдалос Огдалос Огдалос						Date Time Comments/Special Instructions	( 2/16/5 700 An 16 2/20/5 23 (574)	-LA 5/11/12 1017 (DAMO) - 101 51/11/2 LA	50-2.1 SI/11/pz Ldd	21/11/2 (a05			
Chain	Turnaround Request (in working days)	(Check One)	2 Days 1 X Standard (7 Days)	(other)	Date Time Sampled Sampled	= lolis 1600					Company	244	572	5 Pa	2			
Environmental Inc	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Company: Company: Project Number:	Project Name: SR S20 Project Mananer:	Sampled by: Jeff Wield	Lab ID Sample Identification	1 H-66Z0-15:GW	-				Signature	Relinquished	Received	Relinquished	Received	Relinquished	Received	

X



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

March 24, 2016

Edwin Ptak Shannon & Wilson, Inc. 400 N 34th Street, Suite 100 Seattle, WA 98103

Re: Analytical Data for Project 21-1-20624-822 Laboratory Reference No. 1603-150

Dear Edwin:

Enclosed are the analytical results and associated quality control data for samples submitted on March 16, 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

### **Case Narrative**

Samples were collected on March 15, 2016 and received by the laboratory on March 16, 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.

#### Total Metals EPA 6010C/7471B Analysis

The duplicate RPD for Chromium is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

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.

# **NWTPH-HCID**

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-691p-16:9				,	
Laboratory ID:	03-150-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-17-16	3-17-16	
Diesel Range Organics	ND	56	NWTPH-HCID	3-17-16	3-17-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-17-16	3-17-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	119	50-150				

# NWTPH-HCID QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

e				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	3-17-16	3-17-16	
Diesel Range Organics	ND	50	NWTPH-HCID	3-17-16	3-17-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	3-17-16	3-17-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	125	50-150				

### TOTAL METALS EPA 6010C/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: <b>Client ID:</b>	03-150-01 <b>H-691p-16:9</b>					
Arsenic	ND	11	6010C	3-23-16	3-23-16	
Barium	37	2.8	6010C	3-23-16	3-23-16	
Cadmium	ND	0.56	6010C	3-23-16	3-23-16	
Chromium	32	0.56	6010C	3-23-16	3-23-16	
Lead	ND	5.6	6010C	3-23-16	3-23-16	
Mercury	ND	0.28	7471B	3-21-16	3-21-16	
Selenium	ND	11	6010C	3-23-16	3-23-16	
Silver	ND	1.1	6010C	3-23-16	3-23-16	

5

# TOTAL METALS EPA 6010C/7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	3-21&23-16
Date Analyzed:	3-21&23-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB0323SM1&MB0321S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

# TOTAL METALS EPA 6010C/7471B DUPLICATE QUALITY CONTROL

Date Extracted:	3-21&23-16
Date Analyzed:	3-21&23-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-150-01

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	32.9	30.9	6	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	28.3	36.9	27	0.50	к
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

# TOTAL METALS EPA 6010C/7471B MS/MSD QUALITY CONTROL

Date Extracted:	3-21&23-16
Date Analyzed:	3-21&23-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 03-150-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Arsenic	100	100	100	99.0	99	1	
Barium	100	123	91	123	90	0	
Cadmium	50.0	48.6	97	48.2	96	1	
Chromium	100	112	84	112	84	0	
Lead	250	217	87	216	86	0	
Mercury	0.500	0.458	92	0.461	92	1	
Selenium	100	93.4	93	90.6	91	3	
Silver	25.0	22.8	91	22.4	90	2	

# % MOISTURE

Date Analyzed: 3-18-16

Client ID Lab ID % Moisture

H-691p-16:9

03-150-01

10



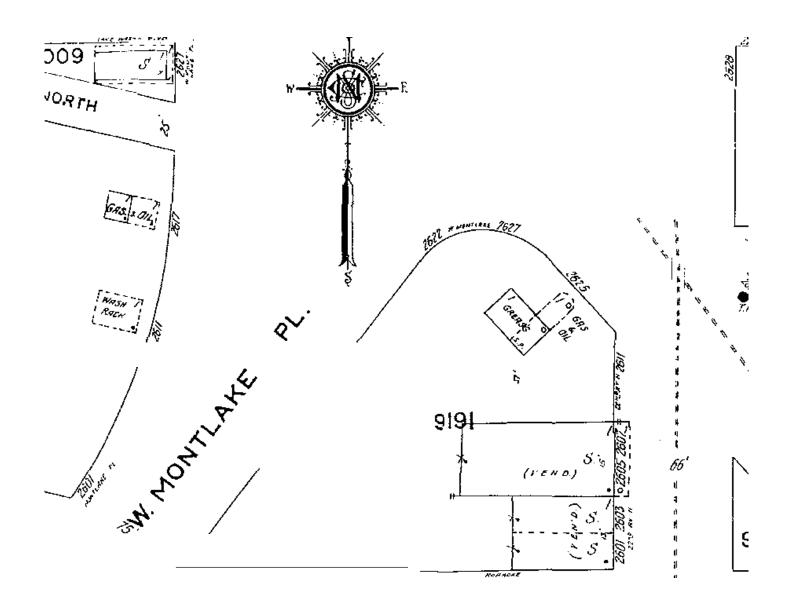
## **Data Qualifiers and Abbreviations**

- 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.
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- 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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

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23 3/16/16 1/05	7-1 3/18/16



Portion of 1930 Sanborn Map.



October 17, 2016

Glenn Hayman INNOVEX Environmental Mgt., Inc. 16310 NE 80th St., Suite 300 Redmond, WA 98052

Re: Analytical Data for Project 31008 Laboratory Reference No. 1610-071

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 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



#### **Case Narrative**

Samples were collected on October 6, 2016 and received by the laboratory on October 7, 2016. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ 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.

#### Volatiles EPA 8260C Analysis

The Method 5035A VOA vials provided for sample H-1-16-10 contained too much soil to perform the requested analysis. Therefore, the sample was extracted from an 8-ounce jar and analyzed. Some loss of volatiles may have occurred.

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.



## **NWTPH-HCID**

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-1-16-10					
Laboratory ID:	10-071-02					
Gasoline Range Organics	ND	23	NWTPH-HCID	10-10-16	10-10-16	
Diesel Range Organics	ND	58	NWTPH-HCID	10-10-16	10-10-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	101	50-150				



#### NWTPH-HCID QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1010S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	10-10-16	10-10-16	
Diesel Range Organics	ND	50	NWTPH-HCID	10-10-16	10-10-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				



# VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

0.0				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-1-16-10					
Laboratory ID:	10-071-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Chloromethane	ND	0.0095	EPA 8260C	10-7-16	10-7-16	
Vinyl Chloride	ND	0.0019	EPA 8260C	10-7-16	10-7-16	
Bromomethane	ND	0.0015	EPA 8260C	10-7-16	10-7-16	
Chloroethane	ND	0.0097	EPA 8260C	10-7-16	10-7-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Acetone	ND	0.0083	EPA 8260C	10-7-16	10-7-16	
lodomethane	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
Carbon Disulfide	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Methylene Chloride	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Vinyl Acetate	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
2-Butanone	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Chloroform	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Benzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Methyl Isobutyl Ketone	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
Toluene	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	



<b>VOLATILES EPA 8260C</b>	
page 2 of 2	

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-1-16-10				/	
Laboratory ID:	10-071-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
2-Hexanone	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Ethylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
m,p-Xylene	ND	0.0023	EPA 8260C	10-7-16	10-7-16	
o-Xylene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Styrene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Bromoform	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Isopropylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
n-Propylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
tert-Butylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
sec-Butylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
p-Isopropyltoluene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
n-Butylbenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	10-7-16	10-7-16	
Naphthalene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-7-16	10-7-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	76-131				
Toluene-d8	104	80-126				
4-Bromofluorobenzene	101	60-146				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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# VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/kg

	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Analyte	nesun	FQL	Wethou	Fiepaleu	Anaryzeu	Flags
Laboratory ID:	MB1007S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Chloromethane	ND	0.0082	EPA 8260C	10-7-16	10-7-16	
Vinyl Chloride	ND	0.0016	EPA 8260C	10-7-16	10-7-16	
Bromomethane	ND	0.0013	EPA 8260C	10-7-16	10-7-16	
Chloroethane	ND	0.0083	EPA 8260C	10-7-16	10-7-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Acetone	ND	0.0071	EPA 8260C	10-7-16	10-7-16	
lodomethane	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
2-Butanone	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Chloroform	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Benzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
Toluene	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	



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# VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 2 of 2

Amelia	Desut	DOI		Date	Date	<b>F</b> lama
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1007S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
2-Hexanone	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Ethylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
m,p-Xylene	ND	0.0020	EPA 8260C	10-7-16	10-7-16	
o-Xylene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Styrene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Bromoform	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-7-16	10-7-16	
Naphthalene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-7-16	10-7-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	76-131				
Toluene-d8	111	80-126				
4-Bromofluorobenzene	108	60-146				



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# VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB10	07S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0402	0.0409	0.0500	0.0500	80	82	68-126	2	15	
Benzene	0.0488	0.0523	0.0500	0.0500	98	105	70-121	7	15	
Trichloroethene	0.0470	0.0494	0.0500	0.0500	94	99	75-120	5	15	
Toluene	0.0500	0.0525	0.0500	0.0500	100	105	80-120	5	15	
Chlorobenzene	0.0475	0.0502	0.0500	0.0500	95	100	76-120	6	15	
Surrogate:										
Dibromofluoromethane					100	102	76-131			
Toluene-d8					101	101	80-126			
4-Bromofluorobenzene					102	99	60-146			



# SEMIVOLATILES EPA 8270D/SIM

page 1 of 2

Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-1-16-10			-		
Laboratory ID:	10-071-02					
n-Nitrosodimethylamine	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Pyridine	ND	0.39	EPA 8270D	10-10-16	10-11-16	
Phenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Aniline	ND	0.19	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2-Chlorophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
1,3-Dichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
1,4-Dichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Benzyl alcohol	ND	0.19	EPA 8270D	10-10-16	10-11-16	
1,2-Dichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270D	10-10-16	10-11-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270D	10-10-16	10-11-16	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Hexachloroethane	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Nitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Isophorone	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2-Nitrophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,4-Dimethylphenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,4-Dichlorophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Naphthalene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
4-Chloroaniline	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Hexachlorobutadiene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
1-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Hexachlorocyclopentadiene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,3-Dichloroaniline	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2-Chloronaphthalene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2-Nitroaniline	ND	0.039	EPA 8270D	10-10-16	10-11-16	
1,4-Dinitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Dimethylphthalate	ND	0.039	EPA 8270D	10-10-16	10-11-16	
1,3-Dinitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,6-Dinitrotoluene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
1,2-Dinitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Acenaphthylene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
3-Nitroaniline	ND	0.039	EPA 8270D	10-10-16	10-11-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-1-16-10	I GL	Method	Treparea	Analyzeu	Tiugo
Laboratory ID:	10-071-02					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Acenaphthene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,4-Dinitrotoluene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Dibenzofuran	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Diethylphthalate	ND	0.19	EPA 8270D	10-10-16	10-11-16	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270D	10-10-16	10-11-16	
4-Nitroaniline	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Fluorene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	10-10-16	10-11-16	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270D	10-10-16	10-11-16	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270D	10-10-16	10-11-16	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Hexachlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Pentachlorophenol	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Phenanthrene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Anthracene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Carbazole	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Di-n-butylphthalate	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Fluoranthene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Benzidine	ND	0.39	EPA 8270D	10-10-16	10-11-16	
Pyrene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Butylbenzylphthalate	ND	0.039	EPA 8270D	10-10-16	10-11-16	
pis-2-Ethylhexyladipate	ND	0.039	EPA 8270D	10-10-16	10-11-16	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Benzo[a]anthracene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
pis(2-Ethylhexyl)phthalate	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Di-n-octylphthalate	ND	0.039	EPA 8270D	10-10-16	10-11-16	
Benzo[b]fluoranthene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
ndeno[1,2,3-cd]pyrene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0077	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	57	24 - 117				
Phenol-d6	60	30 - 120				
Nitrobenzene-d5	61	27 - 112				
2-Fluorobiphenyl	62	35 - 113				
2,4,6-Tribromophenol	65	21 - 120				
Terphenyl-d14	63	39 - 121				



#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1010S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Pyridine	ND	0.33	EPA 8270D	10-10-16	10-11-16	
Phenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Aniline	ND	0.17	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Chlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	10-10-16	10-11-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	10-10-16	10-11-16	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Hexachloroethane	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Nitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Isophorone	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Nitrophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Naphthalene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Hexachlorobutadiene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Chloronaphthalene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Nitroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Dimethylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
3-Nitroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	

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#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1010S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Dibenzofuran	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-10-16	10-11-16	
4-Chlorophenyl-phenylether		0.033	EPA 8270D	10-10-16	10-11-16	
4-Nitroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
4-Bromophenyl-phenylether		0.033	EPA 8270D	10-10-16	10-11-16	
Hexachlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Carbazole	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzidine	ND	0.33	EPA 8270D	10-10-16	10-11-16	
<sup>D</sup> yrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Butylbenzylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
pis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
ois(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Di-n-octylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
ndeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	81	24 - 117				
Phenol-d6	83	30 - 120				
Nitrobenzene-d5	85	27 - 112				
2-Fluorobiphenyl	84	35 - 113				
2,4,6-Tribromophenol	85	21 - 120				
Terphenyl-d14	85	39 - 121				



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#### SEMIVOLATILES EPA 8270D/SIM MS/MSD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-08	80-03									
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.914	0.997	1.33	1.33	ND	69	75	31 - 108	9	36	
2-Chlorophenol	0.940	1.03	1.33	1.33	ND	71	77	38 - 103	9	38	
1,4-Dichlorobenzene	0.465	0.502	0.667	0.667	ND	70	75	25 - 101	8	40	
n-Nitroso-di-n-propylamine	0.452	0.494	0.667	0.667	ND	68	74	26 - 102	9	38	
1,2,4-Trichlorobenzene	0.451	0.513	0.667	0.667	ND	68	77	27 - 101	13	40	
4-Chloro-3-methylphenol	0.914	1.02	1.33	1.33	ND	69	77	42 - 106	11	29	
Acenaphthene	0.460	0.513	0.667	0.667	ND	69	77	42 - 103	11	30	
4-Nitrophenol	0.927	1.02	1.33	1.33	ND	70	77	25 - 125	10	29	
2,4-Dinitrotoluene	0.466	0.507	0.667	0.667	ND	70	76	45 - 107	8	30	
Pentachlorophenol	1.03	1.15	1.33	1.33	ND	77	86	30 - 103	11	31	
Pyrene	0.478	0.532	0.667	0.667	ND	72	80	50 - 118	11	28	
Surrogate:											
2-Fluorophenol						69	75	24 - 117			
Phenol-d6						71	77	30 - 1 <i>2</i> 0			
Nitrobenzene-d5						72	79	27 - 112			
2-Fluorobiphenyl						71	76	35 - 113			
2,4,6-Tribromophenol						75	81	21 - 120			
Terphenyl-d14						72	79	39 - 121			



# PCBs EPA 8082A

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-1-16-10					
Laboratory ID:	10-071-02					
Aroclor 1016	ND	0.058	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.058	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.058	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.058	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.058	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.058	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.058	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	78	50-139				



# PCBs EPA 8082A QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1011S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	50-139				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-08	80-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.389	0.387	0.500	0.500	ND	78	77	49-133	1	17	
Surrogate:											
DCB						80	81	50-139			



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### TOTAL METALS EPA 6010C/6020A/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	10-071-02 <b>H-1-16-10</b>					
Antimony	ND	5.8	6010C	10-13-16	10-13-16	
Arsenic	ND	12	6010C	10-13-16	10-13-16	
Beryllium	ND	0.58	6010C	10-13-16	10-13-16	
Cadmium	ND	0.58	6010C	10-13-16	10-13-16	
Chromium	36	0.58	6010C	10-13-16	10-13-16	
Copper	8.4	1.2	6010C	10-13-16	10-13-16	
Lead	ND	5.8	6010C	10-13-16	10-13-16	
Mercury	ND	0.29	7471B	10-11-16	10-11-16	
Nickel	27	2.9	6010C	10-13-16	10-13-16	
Selenium	ND	12	6010C	10-13-16	10-13-16	
Silver	ND	0.58	6010C	10-13-16	10-13-16	
Thallium	ND	1.4	6020A	10-13-16	10-17-16	
Zinc	20	2.9	6010C	10-13-16	10-13-16	



# TOTAL METALS EPA 6010C/6020A/7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB1013SH1&MB1011S1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	0.50
Thallium	6020A	ND	1.3
Zinc	6010C	ND	2.5



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# TOTAL METALS EPA 6010C/6020A/7471B DUPLICATE QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10.0	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	25.9	24.3	6	0.50	
Copper	11.7	10.9	7	1.0	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Nickel	30.4	29.2	4	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	0.50	
Thallium	ND	ND	NA	1.3	
Zinc	24.0	22.0	9	2.5	



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# TOTAL METALS EPA 6010C/6020A/7471B MS/MSD QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Antimony	100	95.4	95	88.3	88	8	
Arsenic	100	101	101	94.3	94	6	
Beryllium	50.0	50.8	102	47.6	95	7	
Cadmium	50.0	49.3	99	47.5	95	4	
Chromium	100	128	102	119	93	7	
Copper	50.0	63.9	105	60.4	97	6	
Lead	250	238	95	232	93	3	
Mercury	0.500	0.499	100	0.546	109	9	
Nickel	100	127	96	120	89	6	
Selenium	100	104	104	99.4	99	5	
Silver	25.0	24.4	97	23.1	92	5	
Thallium	50.0	44.2	88	44.8	90	1	
Zinc	100	120	96	115	91	4	



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# % MOISTURE

Date Analyzed: 10-7-16

Client ID	Lab ID	% Moisture

H-1-16-10

10-071-02

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#### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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OnSite Environmental Inc. Analytical Laboratory Testing Services 14448 NE 95th Street · Redmond, WA 98052 Phone: (425) 883-3881 · www.onsite-env.com WEX VEX VEX VEX VEX VEX VEX VEX VEX VEX V
(Che analy s Day
NWTPH-HCID
Chain of Custody Cone
Semivolatiles 8270D/SIM (with low-level PAHs)     10       PAHs 8270D/SIM (low-level)     10       PCBs 8082A     0rganochlorine Pesticides 8081B       Organophosphorus Pesticides 8270D/SIM       Chlorinated Acid Herbicides 8151A       Total RCRA Metals       Total MTCA Metals       TCLP Metals       HEM (oil and grease) 1664A       PP13* - 6010



October 17, 2016

Glenn Hayman INNOVEX Environmental Mgt., Inc. 16310 NE 80th St., Suite 300 Redmond, WA 98052

Re: Analytical Data for Project 31008 Laboratory Reference No. 1610-079

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 8, 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



#### **Case Narrative**

Samples were collected on October 7, 2016 and received by the laboratory on October 8, 2016. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ 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.

#### Volatiles EPA 8260C 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.



### **NWTPH-HCID**

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-2-16-13.5					
Laboratory ID:	10-079-04					
Gasoline Range Organics	ND	29	NWTPH-HCID	10-10-16	10-10-16	
Diesel Range Organics	ND	71	NWTPH-HCID	10-10-16	10-10-16	
Lube Oil Range Organics	ND	140	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				



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#### NWTPH-HCID QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1010S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	10-10-16	10-10-16	
Diesel Range Organics	ND	50	NWTPH-HCID	10-10-16	10-10-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				



# VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-2-16-13.5					
Laboratory ID:	10-079-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Chloromethane	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Bromomethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Chloroethane	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Acetone	0.060	0.0054	EPA 8260C	10-10-16	10-10-16	
lodomethane	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
Carbon Disulfide	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Methylene Chloride	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Vinyl Acetate	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
2-Butanone	0.021	0.0054	EPA 8260C	10-10-16	10-10-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Chloroform	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Benzene	0.0053	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Methyl Isobutyl Ketone	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
Toluene	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
· ·						



VOLATILES EPA 8260C	
page 2 of 2	

Analida	Result	PQL	Method	Date Prepared	Date Analyzed	Flogo
Analyte Client ID:	H-2-16-13.5	FQL	Methoa	Flepaleu	Analyzeu	Flags
Laboratory ID:	10-079-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Tetrachloroethene	ND	0.0022	EPA 8260C	10-10-16	10-10-16	
1,3-Dichloropropane	ND	0.0022	EPA 8260C	10-10-16	10-10-16	
2-Hexanone	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
	ND	0.0011	EPA 8260C EPA 8260C	10-10-16	10-10-16	
1,1,1,2-Tetrachloroethane	ND					
Ethylbenzene		0.0011	EPA 8260C	10-10-16	10-10-16	
m,p-Xylene	ND	0.0022	EPA 8260C	10-10-16	10-10-16	
o-Xylene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Styrene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Bromoform	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Isopropylbenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
n-Propylbenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-10-16	10-10-16	
Naphthalene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	97	76-131				
Toluene-d8	98	80-126				
4-Bromofluorobenzene	87	60-146				



# VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
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Laboratory ID:	MB1010S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Chloromethane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromomethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Chloroethane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Acetone	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
lodomethane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
2-Butanone	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Chloroform	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Benzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Toluene	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	



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# VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 2 of 2

A		501		Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1010S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Tetrachloroethene	ND	0.0020	EPA 8260C	10-10-16	10-10-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
2-Hexanone	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Ethylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
m,p-Xylene	ND	0.0020	EPA 8260C	10-10-16	10-10-16	
o-Xylene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Styrene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromoform	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
p-lsopropyltoluene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Naphthalene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	76-131				
Toluene-d8	103	80-126				
4-Bromofluorobenzene	102	60-146				



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

## VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Pe	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB10	10S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0457	0.0490	0.0500	0.0500	91	98	68-126	7	15	
Benzene	0.0461	0.0480	0.0500	0.0500	92	96	70-121	4	15	
Trichloroethene	0.0455	0.0476	0.0500	0.0500	91	95	75-120	5	15	
Toluene	0.0468	0.0495	0.0500	0.0500	94	99	80-120	6	15	
Chlorobenzene	0.0475	0.0490	0.0500	0.0500	95	98	76-120	3	15	
Surrogate:										
Dibromofluoromethane					94	94	76-131			
Toluene-d8					94	100	80-126			
4-Bromofluorobenzene					96	96	60-146			



## SEMIVOLATILES EPA 8270D/SIM

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Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-2-16-13.5			ł		
Laboratory ID:	10-079-04					
n-Nitrosodimethylamine	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Pyridine	ND	0.48	EPA 8270D	10-10-16	10-11-16	
Phenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Aniline	ND	0.24	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethyl)ether	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2-Chlorophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
1,3-Dichlorobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
1,4-Dichlorobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Benzyl alcohol	ND	0.24	EPA 8270D	10-10-16	10-11-16	
1,2-Dichlorobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2-Methylphenol (o-Cresol)	ND	0.048	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroisopropyl)ether	ND	0.048	EPA 8270D	10-10-16	10-11-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.048	EPA 8270D	10-10-16	10-11-16	
n-Nitroso-di-n-propylamine	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Hexachloroethane	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Nitrobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Isophorone	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2-Nitrophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,4-Dimethylphenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethoxy)methane	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,4-Dichlorophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Naphthalene	0.0096	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
4-Chloroaniline	ND	0.24	EPA 8270D	10-10-16	10-11-16	
Hexachlorobutadiene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
4-Chloro-3-methylphenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2-Methylnaphthalene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
1-Methylnaphthalene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Hexachlorocyclopentadiene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,4,6-Trichlorophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,3-Dichloroaniline	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,4,5-Trichlorophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2-Chloronaphthalene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2-Nitroaniline	ND	0.048	EPA 8270D	10-10-16	10-11-16	
1,4-Dinitrobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Dimethylphthalate	ND	0.048	EPA 8270D	10-10-16	10-11-16	
1,3-Dinitrobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,6-Dinitrotoluene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
1,2-Dinitrobenzene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Acenaphthylene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
3-Nitroaniline	ND	0.048	EPA 8270D	10-10-16	10-11-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-2-16-13.5				,	- <b>J</b> -
Laboratory ID:	10-079-04					
2,4-Dinitrophenol	ND	0.24	EPA 8270D	10-10-16	10-11-16	
Acenaphthene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,4-Dinitrotoluene	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Dibenzofuran	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,3,5,6-Tetrachlorophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
2,3,4,6-Tetrachlorophenol	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Diethylphthalate	ND	0.24	EPA 8270D	10-10-16	10-11-16	
4-Chlorophenyl-phenylether	ND	0.048	EPA 8270D	10-10-16	10-11-16	
4-Nitroaniline	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Fluorene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.24	EPA 8270D	10-10-16	10-11-16	
n-Nitrosodiphenylamine	ND	0.048	EPA 8270D	10-10-10	10-11-16	
1,2-Diphenylhydrazine	ND	0.048	EPA 8270D	10-10-10	10-11-16	
4-Bromophenyl-phenylether	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Hexachlorobenzene	ND	0.048	EPA 8270D	10-10-10	10-11-16	
Pentachlorophenol	ND	0.24	EPA 8270D	10-10-10	10-11-16	
Phenanthrene	ND	0.0095	EPA 8270D/SIM	10-10-10	10-10-16	
Anthracene	ND	0.0095	EPA 8270D/SIM	10-10-10	10-10-16	
Carbazole	ND	0.0095	EPA 8270D/Sil	10-10-16	10-11-16	
Di-n-butylphthalate	ND	0.24	EPA 8270D	10-10-16	10-11-16	
Fluoranthene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Benzidine	ND	0.0095	EPA 8270D/Sil	10-10-16	10-11-16	
	ND	0.48	EPA 8270D/SIM	10-10-16	10-10-16	
Pyrene Butulbonzulahthalata	ND					
Butylbenzylphthalate	ND	0.048	EPA 8270D	10-10-16	10-11-16	
bis-2-Ethylhexyladipate		0.048	EPA 8270D	10-10-16	10-11-16	
3,3'-Dichlorobenzidine	ND	0.24	EPA 8270D	10-10-16	10-11-16	
Benzo[a]anthracene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
bis(2-Ethylhexyl)phthalate	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Di-n-octylphthalate	ND	0.048	EPA 8270D	10-10-16	10-11-16	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	64	24 - 117				
Phenol-d6	66	30 - 120				
Nitrobenzene-d5	69	27 - 112				
2-Fluorobiphenyl	70	35 - 113				
2,4,6-Tribromophenol	75	21 - 120				
Terphenyl-d14	70	39 - 121				



#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/Kg

Analyte         Result         PQL         Method         Prepared         Analyzed         Flags           Laboratory ID:         MB1010S1           n-Nitrosodimethylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Pyridine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Phenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           Aniline         ND         0.17         EPA 8270D         10-10-16         10-11-16           2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,3-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenze
n-Nitrosodimethylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Pyridine         ND         0.33         EPA 8270D         10-10-16         10-11-16           Phenol         ND         0.17         EPA 8270D         10-10-16         10-11-16           Aniline         ND         0.17         EPA 8270D         10-10-16         10-11-16           2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,3-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,3-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D <td< th=""></td<>
n-Nitrosodimethylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Pyridine         ND         0.33         EPA 8270D         10-10-16         10-11-16           Phenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           Aniline         ND         0.17         EPA 8270D         10-10-16         10-11-16           2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,3-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D <t< td=""></t<>
Pyridine         ND         0.33         EPA 8270D         10-10-16         10-11-16           Phenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           Aniline         ND         0.17         EPA 8270D         10-10-16         10-11-16           Sig2-Chloroethyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (n.p.Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           1/4-Mithylphenol (m.p.Cresol)         ND         0.033         EPA 827
Phenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           Aniline         ND         0.17         EPA 8270D         10-10-16         10-11-6           bis(2-Chloroethyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (n_p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-4-Wethylphenol (m_p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           3-4-Methylphenol (m_p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           3-4-Dichloroethane         ND         0.033
Aniline         ND         0.17         EPA 8270D         10-10-16         10-11-16           bis(2-Chloroethyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,3-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (o-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (m,p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           Hexachloroethane         ND         0.033         EPA 8270D         10-10-16         10-11-16           Hexachloroethane         ND         0.033         EPA 8270D         10-10-16         10-11-16           Sophorone         ND         0.033         E
bis(2-Chloroethyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,3-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.17         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (o-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           3(2-Chloroisopropyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           (3+4)-Methylphenol (m,p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           Hexachloroethane         ND         0.033         EPA 8270D         10-10-16         10-11-16           Ikroso-di-n-propylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Ikroso-di-n-propylamine         N
2-Chlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,3-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,4-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (o-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (m,p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           1/3-4/Methylphenol (m,p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           1/3-Methylphenol (m,p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           1/3-tripphenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Nitrophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-A-Dirophenol         ND
1,3-Dichlorobenzene       ND       0.033       EPA 8270D       10-10-16       10-11-16         1,4-Dichlorobenzene       ND       0.033       EPA 8270D       10-10-16       10-11-16         Benzyl alcohol       ND       0.17       EPA 8270D       10-10-16       10-11-16         1,2-Dichlorobenzene       ND       0.033       EPA 8270D       10-10-16       10-11-16         2-Methylphenol (o-Cresol)       ND       0.033       EPA 8270D       10-10-16       10-11-16         bis(2-Chloroisopropyl)ether       ND       0.033       EPA 8270D       10-10-16       10-11-16         (3-4)-Methylphenol (m,p-Cresol)       ND       0.033       EPA 8270D       10-10-16       10-11-16         Hexachloroethane       ND       0.033       EPA 8270D       10-10-16       10-11-16         Hexachloroethane       ND       0.033       EPA 8270D       10-10-16       10-11-16         Isophorone       ND       0.033       EPA 8270D       10-10-16       10-11-16         Isophorone       ND       0.033       EPA 8270D       10-10-16       10-11-16         2,4-Dichlorophenol       ND       0.033       EPA 8270D       10-10-16       10-11-16         2,4-Dichlorophenol
1,4-DichlorobenzeneND0.033EPA 8270D10-10-1610-11-16Benzyl alcoholND0.17EPA 8270D10-10-1610-11-161,2-DichlorobenzeneND0.033EPA 8270D10-10-1610-11-162-Methylphenol (o-Cresol)ND0.033EPA 8270D10-10-1610-11-163:40-Methylphenol (m,p-Cresol)ND0.033EPA 8270D10-10-1610-11-16(3+4)-Methylphenol (m,p-Cresol)ND0.033EPA 8270D10-10-1610-11-16(3+4)-Methylphenol (m,p-Cresol)ND0.033EPA 8270D10-10-1610-11-16(3+4)-Methylphenol (m,p-Cresol)ND0.033EPA 8270D10-10-1610-11-16(3+4)-Methylphenol (m,p-Cresol)ND0.033EPA 8270D10-10-1610-11-16HexachloroethaneND0.033EPA 8270D10-10-1610-11-16HexachloroethaneND0.033EPA 8270D10-10-1610-11-16IsophoroneND0.033EPA 8270D10-10-1610-11-162-NitrophenolND0.033EPA 8270D10-10-1610-11-162,4-DichlorophenolND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorophenolND0.033
Benzyl alcohol         ND         0.17         EPA 8270D         10-10-16         10-11-16           1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (o-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           5/(2-Chloroisopropyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           6/(3+4)-Methylphenol (m, p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           -Nitroso-di-n-propylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Hexachloroethane         ND         0.033         EPA 8270D         10-10-16         10-11-16           Nitrobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           Isophorone         ND         0.033         EPA 8270D         10-10-16         10-11-16           2.4-Dimethylphenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2.4-Dichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2.4-Dichlorophenol         ND         0.
1,2-Dichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylphenol (o-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           bis(2-Chloroisopropyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           (3-4)-Methylphenol (m,-p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           n-Nitroso-di-n-propylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Hexachloroethane         ND         0.033         EPA 8270D         10-10-16         10-11-16           Nitrobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           Isophorone         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Nitrophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4-Dichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4-Dichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2,4-Trichlorobenzene         ND <t< td=""></t<>
2-Methylphenol (o-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           bis(2-Chloroisopropyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           (3+4)-Methylphenol (m,p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           n-Nitroso-di-n-propylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Hexachloroethane         ND         0.033         EPA 8270D         10-10-16         10-11-16           Nitrobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           Isophorone         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Nitrophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4-Dimethylphenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4-Dichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2,4-Trichlorophenol         ND         <
bis(2-Chloroisopropyl)ether         ND         0.033         EPA 8270D         10-10-16         10-11-16           (3+4)-Methylphenol (m,p-Cresol)         ND         0.033         EPA 8270D         10-10-16         10-11-16           n-Nitroso-di-n-propylamine         ND         0.033         EPA 8270D         10-10-16         10-11-16           Hexachloroethane         ND         0.033         EPA 8270D         10-10-16         10-11-16           Nitrobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           Isophorone         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Nitrophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4-Dimethylphenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4-Dichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.033         EPA 8270D         10-10-16         10-11-16           1,2,4-Trichlorobenzene         ND <td< td=""></td<>
(3+4)-Methylphenol (m,p-Cresol)ND0.033EPA 8270D10-10-1610-11-16n-Nitroso-di-n-propylamineND0.033EPA 8270D10-10-1610-11-16HexachloroethaneND0.033EPA 8270D10-10-1610-11-16NitrobenzeneND0.033EPA 8270D10-10-1610-11-16IsophoroneND0.033EPA 8270D10-10-1610-11-162-NitrophenolND0.033EPA 8270D10-10-1610-11-162,4-DimethylphenolND0.033EPA 8270D10-10-1610-11-162,4-DirothylphenolND0.033EPA 8270D10-10-1610-11-162,4-DirothoxylmethaneND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.0067EPA 8270D10-10-1610-11-164-ChloroanilineND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0033EPA 8270D10-10-1610-10-161-MethylnaphthaleneND0.0033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.033EPA 8270D10-10-16
n-Nitroso-di-n-propylamineND0.033EPA 8270D10-10-1610-11-16HexachloroethaneND0.033EPA 8270D10-10-1610-11-16NitrobenzeneND0.033EPA 8270D10-10-1610-11-16IsophoroneND0.033EPA 8270D10-10-1610-11-162-NitrophenolND0.033EPA 8270D10-10-1610-11-162,4-DimethylphenolND0.033EPA 8270D10-10-1610-11-162,4-Diroethoxy)methaneND0.033EPA 8270D10-10-1610-11-162,4-DirobenolND0.033EPA 8270D10-10-1610-11-162,4-DirobehonolND0.033EPA 8270D10-10-1610-11-162,4-DirobehonolND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-164-ChloroanilineND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-11-164-MethylnaphthaleneND0.033EPA 8270D10-10-1610-11-164-MethylnaphthaleneND0.033EPA 8270D10-10-1610-11-164-MethylnaphthaleneND0.033EPA 8270D10-10-1610-11-16<
HexachloroethaneND0.033EPA 8270D10-10-1610-11-16NitrobenzeneND0.033EPA 8270D10-10-1610-11-16IsophoroneND0.033EPA 8270D10-10-1610-11-162-NitrophenolND0.033EPA 8270D10-10-1610-11-162,4-DimethylphenolND0.033EPA 8270D10-10-1610-11-16bis(2-Chloroethoxy)methaneND0.033EPA 8270D10-10-1610-11-162,4-DichlorophenolND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.0067EPA 8270D10-10-1610-11-16A-ChloroanilineND0.17EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.0067EPA 8270D/SIM10-10-1610-11-164-Chloro-3-methylphenolND0.0067EPA 8270D/SIM10-10-1610-11-164-Chloro-3-methylphenolND0.0067EPA 8270D/SIM10-10-1610-10-161-MethylnaphthaleneND0.0033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-
NitrobenzeneND0.033EPA 8270D10-10-1610-11-16IsophoroneND0.033EPA 8270D10-10-1610-11-162-NitrophenolND0.033EPA 8270D10-10-1610-11-162,4-DimethylphenolND0.033EPA 8270D10-10-1610-11-16bis(2-Chloroethoxy)methaneND0.033EPA 8270D10-10-1610-11-162,4-DichlorophenolND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-16NaphthaleneND0.0067EPA 8270D10-10-1610-11-164-ChloroanilineND0.17EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-11-161-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
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2-NitrophenolND0.033EPA 8270D10-10-1610-11-162,4-DimethylphenolND0.033EPA 8270D10-10-1610-11-16bis(2-Chloroethoxy)methaneND0.033EPA 8270D10-10-1610-11-162,4-DichlorophenolND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-16NaphthaleneND0.0067EPA 8270D10-10-1610-11-164-ChloroanilineND0.17EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
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2,4-DichlorophenolND0.033EPA 8270D10-10-1610-11-161,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-16NaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-164-ChloroanilineND0.17EPA 8270D10-10-1610-11-16HexachlorobutadieneND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-161-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
1,2,4-TrichlorobenzeneND0.033EPA 8270D10-10-1610-11-16NaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-164-ChloroanilineND0.17EPA 8270D10-10-1610-11-16HexachlorobutadieneND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-161-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-164-chlorocyclopentadieneND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
Naphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           4-Chloroaniline         ND         0.17         EPA 8270D         10-10-16         10-11-16           Hexachlorobutadiene         ND         0.033         EPA 8270D         10-10-16         10-11-16           4-Chloro-3-methylphenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           1-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           1-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-11-16           2,4,6-Trichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,3-Dichloroaniline         ND         0.033         EPA 8270D         10-10-16         10-11-16
4-ChloroanilineND0.17EPA 8270D10-10-1610-11-16HexachlorobutadieneND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-161-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-164-ChlorocyclopentadieneND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
HexachlorobutadieneND0.033EPA 8270D10-10-1610-11-164-Chloro-3-methylphenolND0.033EPA 8270D10-10-1610-11-162-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-161-MethylnaphthaleneND0.0067EPA 8270D/SIM10-10-1610-10-16HexachlorocyclopentadieneND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
4-Chloro-3-methylphenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           1-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           1-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           Hexachlorocyclopentadiene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4,6-Trichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,3-Dichloroaniline         ND         0.033         EPA 8270D         10-10-16         10-11-16
2-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           1-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           Hexachlorocyclopentadiene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4,6-Trichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,3-Dichloroaniline         ND         0.033         EPA 8270D         10-10-16         10-11-16
1-Methylnaphthalene         ND         0.0067         EPA 8270D/SIM         10-10-16         10-10-16           Hexachlorocyclopentadiene         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,4,6-Trichlorophenol         ND         0.033         EPA 8270D         10-10-16         10-11-16           2,3-Dichloroaniline         ND         0.033         EPA 8270D         10-10-16         10-11-16
HexachlorocyclopentadieneND0.033EPA 8270D10-10-1610-11-162,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
2,4,6-TrichlorophenolND0.033EPA 8270D10-10-1610-11-162,3-DichloroanilineND0.033EPA 8270D10-10-1610-11-16
2,3-Dichloroaniline ND 0.033 EPA 8270D 10-10-16 10-11-16
2,4,5-Trichlorophenol ND 0.033 EPA 8270D 10-10-16 10-11-16
2-Chloronaphthalene ND 0.033 EPA 8270D 10-10-16 10-11-16
2-Nitroaniline ND 0.033 EPA 8270D 10-10-16 10-11-16
1,4-Dinitrobenzene ND 0.033 EPA 8270D 10-10-16 10-11-16
Dimethylphthalate ND 0.033 EPA 8270D 10-10-16 10-11-16
1,3-Dinitrobenzene ND 0.033 EPA 8270D 10-10-16 10-11-16
2,6-Dinitrotoluene ND 0.033 EPA 8270D 10-10-16 10-11-16
1,2-Dinitrobenzene ND 0.033 EPA 8270D 10-10-16 10-11-16
Acenaphthylene ND 0.0067 EPA 8270D/SIM 10-10-16 10-10-16
3-Nitroaniline ND 0.033 EPA 8270D 10-10-16 10-11-16

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#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1010S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Dibenzofuran	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-10-16	10-11-16	
4-Chlorophenyl-phenylether		0.033	EPA 8270D	10-10-16	10-11-16	
4-Nitroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
4-Bromophenyl-phenylether		0.033	EPA 8270D	10-10-16	10-11-16	
Hexachlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Carbazole	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzidine	ND	0.33	EPA 8270D	10-10-16	10-11-16	
<sup>D</sup> yrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Butylbenzylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
pis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
ois(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Di-n-octylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
ndeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	81	24 - 117				
Phenol-d6	83	30 - 120				
Nitrobenzene-d5	85	27 - 112				
2-Fluorobiphenyl	84	35 - 113				
2,4,6-Tribromophenol	85	21 - 120				
Terphenyl-d14	85	39 - 121				



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#### SEMIVOLATILES EPA 8270D/SIM MS/MSD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-08	80-03									
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.914	0.997	1.33	1.33	ND	69	75	31 - 108	9	36	
2-Chlorophenol	0.940	1.03	1.33	1.33	ND	71	77	38 - 103	9	38	
1,4-Dichlorobenzene	0.465	0.502	0.667	0.667	ND	70	75	25 - 101	8	40	
n-Nitroso-di-n-propylamine	0.452	0.494	0.667	0.667	ND	68	74	26 - 102	9	38	
1,2,4-Trichlorobenzene	0.451	0.513	0.667	0.667	ND	68	77	27 - 101	13	40	
4-Chloro-3-methylphenol	0.914	1.02	1.33	1.33	ND	69	77	42 - 106	11	29	
Acenaphthene	0.460	0.513	0.667	0.667	ND	69	77	42 - 103	11	30	
4-Nitrophenol	0.927	1.02	1.33	1.33	ND	70	77	25 - 125	10	29	
2,4-Dinitrotoluene	0.466	0.507	0.667	0.667	ND	70	76	45 - 107	8	30	
Pentachlorophenol	1.03	1.15	1.33	1.33	ND	77	86	30 - 103	11	31	
Pyrene	0.478	0.532	0.667	0.667	ND	72	80	50 - 118	11	28	
Surrogate:											
2-Fluorophenol						69	75	24 - 117			
Phenol-d6						71	77	30 - 120			
Nitrobenzene-d5						72	79	27 - 112			
2-Fluorobiphenyl						71	76	35 - 113			
2,4,6-Tribromophenol						75	81	21 - 120			
Terphenyl-d14						72	79	39 - 121			



#### PCBs EPA 8082A

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-2-16-13.5					
Laboratory ID:	10-079-04					
Aroclor 1016	ND	0.071	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.071	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.071	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.071	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.071	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.071	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.071	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	73	50-139				



#### PCBs EPA 8082A QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1011S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	50-139				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-08	80-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.389	0.387	0.500	0.500	ND	78	77	49-133	1	17	
Surrogate:											
DCB						80	81	50-139			



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#### TOTAL METALS EPA 6010C/6020A/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	10-079-04 <b>H-2-16-13.5</b>					
Antimony	ND	7.1	6010C	10-13-16	10-13-16	
Arsenic	ND	14	6010C	10-13-16	10-13-16	
Beryllium	ND	0.71	6010C	10-13-16	10-13-16	
Cadmium	ND	0.71	6010C	10-13-16	10-13-16	
Chromium	37	0.71	6010C	10-13-16	10-13-16	
Copper	24	1.4	6010C	10-13-16	10-13-16	
Lead	11	7.1	6010C	10-13-16	10-13-16	
Mercury	ND	0.36	7471B	10-11-16	10-11-16	
Nickel	36	3.6	6010C	10-13-16	10-13-16	
Selenium	ND	14	6010C	10-13-16	10-13-16	
Silver	ND	0.71	6010C	10-13-16	10-13-16	
Thallium	ND	1.8	6020A	10-13-16	10-17-16	
Zinc	56	3.6	6010C	10-13-16	10-13-16	



#### TOTAL METALS EPA 6010C/6020A/7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB1013SH1&MB1011S1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	0.50
Thallium	6020A	ND	1.3
Zinc	6010C	ND	2.5



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#### TOTAL METALS EPA 6010C/6020A/7471B DUPLICATE QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10.0	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	25.9	24.3	6	0.50	
Copper	11.7	10.9	7	1.0	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Nickel	30.4	29.2	4	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	0.50	
Thallium	ND	ND	NA	1.3	
Zinc	24.0	22.0	9	2.5	



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#### TOTAL METALS EPA 6010C/6020A/7471B MS/MSD QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Antimony	100	95.4	95	88.3	88	8	
Arsenic	100	101	101	94.3	94	6	
Beryllium	50.0	50.8	102	47.6	95	7	
Cadmium	50.0	49.3	99	47.5	95	4	
Chromium	100	128	102	119	93	7	
Copper	50.0	63.9	105	60.4	97	6	
Lead	250	238	95	232	93	3	
Mercury	0.500	0.499	100	0.546	109	9	
Nickel	100	127	96	120	89	6	
Selenium	100	104	104	99.4	99	5	
Silver	25.0	24.4	97	23.1	92	5	
Thallium	50.0	44.2	88	44.8	90	1	
Zinc	100	120	96	115	91	4	



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#### % MOISTURE

Date Analyzed: 10-10-16

Client ID Lab ID % Moisture

H-2-16-13.5

10-079-04

30

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#### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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Reviewed/Date	Received	Relinquished	Received	1 Juni Amarian	Delinguished	Relinquished	Signature	14 pr - 20	A ch I	8 H-2-16-25	7 H-2-16-19,4	6 H-2-16-18.5	5 H-2-16-16	4 14-2-16-13.5	3 H-2-16-11	2 H-2-16-8.5	1 4-2-16-3	Lab ID Sample Identification	amperey. Andrealwinder	Olenn Hayman	S & 52 O	SI 608		14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Environmental Inc.
Reviewed/Date			Onve t	Ind Nex	INNOVEY	INNOVEX	Company			2205 I	2200	2155	2150	2145	2140	2135	10/1/16 2120 S 5	Date Time Sampled Sampled Matrix	(other)		(TPH analysis 5 Days)		Check One)	lurnaround Request (in working days)	Chain of
			- 12/8/10 102	10/8/16 10:20	5120 91/2/01	10/16/16 0215	Date Time							X				NWTP NWTP NWTP NWTP Volatile Haloge	H-Gx Y H-Dx ([ es 8260 mated \	TEX Acid / C	2 SG Cle 8260C	an-up)		Laboratory Number:	Custody
Chromatograms with final report 🗌 Electronic Data Deliverables (EDDs) 🗌	Data Package: Standard  Level III  Level IV					- * follow - w/ appropriate TPH	Comments/Special Instructions											Semivo (with lo PAHs 8 PCBs 8 Organo Organo Chlorin Total R( Total M TCLP M HEM (of	blatiles & w-level 270D/S 3082A bchloring phosph ated Ac CRA Me TCA Me Ietals	3270D/S PAHs) iIM (low e Pestic orus Pe id Herb etals etals	-level) ides 808 esticides 8 icides 8	8270D/	SIM	er: 10-079	Page of



October 17, 2016

Glenn Hayman INNOVEX Environmental Mgt., Inc. 16310 NE 80th St., Suite 300 Redmond, WA 98052

Re: Analytical Data for Project 31008 Laboratory Reference No. 1610-080

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 8, 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



#### **Case Narrative**

Samples were collected on October 7, 2016 and received by the laboratory on October 8, 2016. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ 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.

#### Volatiles EPA 8260C 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.

All four Internal Standards did not meet acceptance criteria for samples H-3-16-6 and H-3-16-8.5. The samples were re-analyzed with similar results. Leaks in the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. The samples were consequently extracted from their respective 8-ounce jars, analyzed, and reported. Some loss of volatiles may have occurred, and common laboratory solvents Acetone and Methylene Chloride may have been introduced during sample preparation.

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.



#### **NWTPH-HCID**

Matrix: Soil Units: mg/Kg (ppm)

onits. mg/kg (ppm)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-3			-	-	
Laboratory ID:	10-080-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	10-10-16	10-10-16	
<b>Diesel Range Organics</b>	ND	55	NWTPH-HCID	10-10-16	10-10-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	122	50-150				
Client ID:	H-3-16-6					
•						
Laboratory ID:	10-080-02					
Gasoline Range Organics	ND	23	NWTPH-HCID	10-10-16	10-10-16	
Diesel Range Organics	ND	57	NWTPH-HCID	10-10-16	10-10-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	128	50-150				
Client ID:	H-3-16-8.5					
Laboratory ID:	10-080-03					
	ND	24	NWTPH-HCID	10-10-16	10-10-16	
Gasoline Range Organics	ND	24 59	NWTPH-HCID		10-10-16	
Diesel Range Organics				10-10-16		
Lube Oil Range Organics	ND	120	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	119	50-150				



3

#### NWTPH-HCID QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1010S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	10-10-16	10-10-16	
Diesel Range Organics	ND	50	NWTPH-HCID	10-10-16	10-10-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				



#### VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-3					
Laboratory ID:	10-080-01					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Chloromethane	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Bromomethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Chloroethane	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Acetone	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
lodomethane	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
Carbon Disulfide	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Methylene Chloride	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Methyl t-Butyl Ether	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Vinyl Acetate	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
2-Butanone	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
Bromochloromethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Chloroform	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Benzene	0.0055	0.00090	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Trichloroethene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Dibromomethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Methyl Isobutyl Ketone	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
Toluene	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	



#### VOLATILES EPA 8260C page 2 of 2

Client ID:         H-3-16-3           Laboratory ID:         10-080-01           1,1,2-Trichloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichloroptopane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Hexanone         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Hexanone         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromoethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.00090         EPA 8260C         10-10-16         10-10-1	Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:         10-080-01           1,1,2-Trichloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichloropropane         ND         0.0018         EPA 8260C         10-10-16         10-10-16           1,3-Dichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Hexanone         ND         0.00090         EPA 8260C         10-10-16         10-10-16           12-Dibromoethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           5yrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16				mounou	Topulou	7.1141/204	. luge
1,1,2-Trichloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Tetrachioroethene         ND         0.00080         EPA 8260C         10-10-16         10-10-16           1,3-Dichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Hexanone         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromoethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Chiorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Chiorobenzene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           Stylene         ND         0.00090         EPA 8260C							
Tetrachloroethene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           1,3-Dichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Hexanone         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1/2-Dibromoethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1/1,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Ethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.00090         EPA 8260C         10-10-16         <			0.00090	EPA 8260C	10-10-16	10-10-16	
1,3-Dichloropropane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         2-Hexanone       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2-Dibromochloromethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dibromochlaromethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,1,1,2-Tetrachloroethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,1,1,2-Tetrachloroethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         m,p-Xylene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Styrene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,2-Trichloropropane       ND							
2-Hexanone         ND         0.0045         EPA 8260C         10-10-16         10-10-16           Dibromochloromethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromoethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Ethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Sylene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           Sylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Sylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16							
Dibromochloromethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromoethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Li,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Ethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Sylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Sylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Syrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16	2-Hexanone						
1,2-Dibromoethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Chlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,1,1,2-Tetrachloroethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Ethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         over thylene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Styrene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,2-Tretrachloroethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichloropropane       ND       0.00090       EPA	Dibromochloromethane	ND	0.00090		10-10-16		
Chlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Ethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           m,p-Xylene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           >-Xylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Isomobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           I,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           I,2,2-Tritchloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           I,2,3-Trimethylbenzene         ND         0.00090         EPA 826	1,2-Dibromoethane	ND			10-10-16	10-10-16	
Ethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           m,p-Xylene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           0-Xylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrenprophenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrenprophenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Trickloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-5-Trimethylbenzene         ND         0.00090         EPA 8260C         <	Chlorobenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
n.p. Xylene         ND         0.0018         EPA 8260C         10-10-16         10-10-16           b-Xylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Stopropylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Stopropylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Triholropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichylbenzene         ND         0.00090         EPA 8260C<	1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
b-Xylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Sopropylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,2-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090	Ethylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
b-Xylene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Sopropylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,2-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090	m,p-Xylene	ND	0.0018	EPA 8260C	10-10-16	10-10-16	
Styrene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND <t< td=""><td>o-Xylene</td><td>ND</td><td>0.00090</td><td>EPA 8260C</td><td>10-10-16</td><td>10-10-16</td><td></td></t<>	o-Xylene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Isopropylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           n-Propylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND	Styrene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Bromobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,1,2,2-Tetrachloroethane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND </td <td>Bromoform</td> <td>ND</td> <td>0.00090</td> <td>EPA 8260C</td> <td>10-10-16</td> <td>10-10-16</td> <td></td>	Bromoform	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,1,2,2-Tetrachloroethane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichloropropane       ND       0.00090       EPA 8260C       10-10-16       10-10-16         n-Propylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         2-Chlorotoluene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         4-Chlorotoluene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         4-Chlorotoluene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,3,5-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16	Isopropylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1.2.3-Trichloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           n-Propylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND<	Bromobenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
n-Propylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,4-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane <t< td=""><td>1,1,2,2-Tetrachloroethane</td><td>ND</td><td>0.00090</td><td>EPA 8260C</td><td>10-10-16</td><td>10-10-16</td><td></td></t<>	1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Participation         ND         0.00090         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,4-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane         ND         0.00045         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene	1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
A-Chlorotoluene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,3,5-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         tert-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16	n-Propylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,3,5-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         tert-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         sec-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2-A-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16	2-Chlorotoluene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Itert-Butylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,4-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane         ND         0.0045         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene	4-Chlorotoluene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trimethylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         sec-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         o-Isopropyltoluene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16	1,3,5-Trimethylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Sec-Butylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           o-Isopropyltoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,4-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Naphthalene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recove	tert-Butylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,3-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         0-Isopropyltoluene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       99       76-131	1,2,4-Trimethylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
b-Isopropyltoluene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,4-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           n-Butylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane         ND         0.0045         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           Hexachlorobutadiene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           Naphthalene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recov	sec-Butylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,4-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       99       76-131         Toluene-d8       100       80-126       80-126       80-126       10-10-16 <td>1,3-Dichlorobenzene</td> <td>ND</td> <td>0.00090</td> <td>EPA 8260C</td> <td>10-10-16</td> <td>10-10-16</td> <td></td>	1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,2-Dichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       99       76-131         Toluene-d8       100       80-126       80-126       10-126       10-126	p-Isopropyltoluene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
n-Butylbenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane         ND         0.0045         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           Hexachlorobutadiene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           Naphthalene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits         Dibromofluoromethane         99         76-131           Toluene-d8         100         80-126         10-126         10-126	1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
1,2-Dibromo-3-chloropropane       ND       0.0045       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0045       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.00090       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       99       76-131         Toluene-d8       100       80-126       100       80-126       100       100	1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
ND         0.00090         EPA 8260C         10-10-16         10-10-16           Hexachlorobutadiene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           Naphthalene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits         10-10-16         10-10-16           Dibromofluoromethane         99         76-131         76-131         100         80-126	n-Butylbenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Hexachlorobutadiene         ND         0.0045         EPA 8260C         10-10-16         10-10-16           Naphthalene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits               Dibromofluoromethane         99         76-131                Toluene-d8         100         80-126	1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
Naphthalene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.00090         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits         10-10-16         10-10-16           Dibromofluoromethane         99         76-131         100         80-126	1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
ND         0.00090         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits           Dibromofluoromethane         99         76-131           Toluene-d8         100         80-126	Hexachlorobutadiene	ND	0.0045	EPA 8260C	10-10-16	10-10-16	
Surrogate:Percent RecoveryControl LimitsDibromofluoromethane9976-131Toluene-d810080-126	Naphthalene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Dibromofluoromethane         99         76-131           Toluene-d8         100         80-126	1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	10-10-16	10-10-16	
Toluene-d8 100 80-126	Surrogate:	Percent Recovery	Control Limits				
	Dibromofluoromethane	99	76-131				
4-Bromofluorobenzene 99 60-146	Toluene-d8	100	80-126				
	4-Bromofluorobenzene	99	60-146				



#### VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-6					
Laboratory ID:	10-080-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Acetone	0.023	0.0057	EPA 8260C	10-11-16	10-11-16	Н
Iodomethane	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	0.053	0.0057	EPA 8260C	10-11-16	10-11-16	Н
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Chloroform	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Benzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	



VOLATILES EPA 8260C	
page 2 of 2	

Analyte Client ID: Laboratory ID: 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene	Result           H-3-16-6           10-080-02           ND           ND	PQL 0.0011 0.0023 0.0011 0.0057 0.0011 0.0011 0.0011 0.0011	Method EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	Prepared 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	Analyzed 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	Flags
Laboratory ID: 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane	10-080-02 ND ND ND ND ND ND ND ND ND ND ND ND	0.0023 0.0011 0.0057 0.0011 0.0011 0.0011 0.0011	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	10-11-16 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	
1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND ND ND ND ND ND ND ND ND	0.0023 0.0011 0.0057 0.0011 0.0011 0.0011 0.0011	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	10-11-16 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	
Tetrachloroethene 1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND ND ND ND ND ND ND	0.0023 0.0011 0.0057 0.0011 0.0011 0.0011 0.0011	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	10-11-16 10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	
1,3-Dichloropropane 2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND ND ND ND ND ND ND	0.0011 0.0057 0.0011 0.0011 0.0011 0.0011	EPA 8260C EPA 8260C EPA 8260C EPA 8260C EPA 8260C	10-11-16 10-11-16 10-11-16 10-11-16 10-11-16	10-11-16 10-11-16 10-11-16 10-11-16	
2-Hexanone Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND ND ND ND ND	0.0057 0.0011 0.0011 0.0011 0.0011	EPA 8260C EPA 8260C EPA 8260C EPA 8260C	10-11-16 10-11-16 10-11-16 10-11-16	10-11-16 10-11-16 10-11-16	
Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND ND ND ND ND	0.0011 0.0011 0.0011 0.0011	EPA 8260C EPA 8260C EPA 8260C	10-11-16 10-11-16 10-11-16	10-11-16 10-11-16	
1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND ND ND ND	0.0011 0.0011 0.0011	EPA 8260C EPA 8260C	10-11-16 10-11-16	10-11-16	
Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND ND ND	0.0011 0.0011	EPA 8260C	10-11-16		
1,1,1,2-Tetrachloroethane	ND ND ND	0.0011			10-11-16	
	ND ND		EPA 8260C		10-11-10	
Ethylbenzene	ND	0.0011		10-11-16	10-11-16	
			EPA 8260C	10-11-16	10-11-16	
m,p-Xylene	ND	0.0023	EPA 8260C	10-11-16	10-11-16	
o-Xylene	110	0.0011	EPA 8260C	10-11-16	10-11-16	
Styrene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Bromoform	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
lsopropylbenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
o-Isopropyltoluene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	10-11-16	10-11-16	
Naphthalene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-11-16	10-11-16	
	Percent Recovery	Control Limits				
Dibromofluoromethane	100	76-131				
Toluene-d8	96	80-126				
4-Bromofluorobenzene	100	60-146				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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#### VOLATILES EPA 8260C page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-8.5					
Laboratory ID:	10-080-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Acetone	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
lodomethane	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	0.022	0.0058	EPA 8260C	10-11-16	10-11-16	Н
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Chloroform	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Benzene	0.038	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
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VOLATILES EPA 8260C	
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Analista	Decult	DOI	Mathad	Date	Date	Flows
Analyte Client ID:	Result H-3-16-8.5	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID: 1,1,2-Trichloroethane	10-080-03	0.0010	EPA 8260C	10-11-16	10-11-16	
	ND	0.0012				
Tetrachloroethene	ND	0.0023	EPA 8260C	10-11-16	10-11-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
2-Hexanone	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Ethylbenzene	0.0050	0.0012	EPA 8260C	10-11-16	10-11-16	
m,p-Xylene	0.014	0.0023	EPA 8260C	10-11-16	10-11-16	
o-Xylene	0.0026	0.0012	EPA 8260C	10-11-16	10-11-16	
Styrene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Bromoform	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Isopropylbenzene	0.0018	0.0012	EPA 8260C	10-11-16	10-11-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene	0.0032	0.0012	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene	0.0015	0.0012	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene	0.0018	0.0012	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene	0.0013	0.0012	EPA 8260C	10-11-16	10-11-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
p-Isopropyltoluene	0.0020	0.0012	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	10-11-16	10-11-16	
Naphthalene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits		-	-	
Dibromofluoromethane	87	76-131				
Toluene-d8	89	80-126				
4-Bromofluorobenzene	83	60-146				
. 2.00	00	00 170				



#### VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/kg

Analysis	Decult	PQL	Method	Date	Date	Flore
Analyte	Result	PQL	wethod	Prepared	Analyzed	Flags
Laboratory ID:	MB1010S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Chloromethane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromomethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Chloroethane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Acetone	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
lodomethane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
2-Butanone	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Chloroform	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Benzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Toluene	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

#### VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 2 of 2

Analyte         Hesult         POL         Method         Prepared         Analyzed         Fridgs           Laboratory ID:         MB1010S1			501		Date	Date	
1,1,2-Trichloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Tetrachloroethene         ND         0.0020         EPA 8260C         10-10-16         10-10-16           1,3-Dichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Hexanone         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           mp-Xylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           strypene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromobanzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.0010<	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Tetrachloroethene         ND         0.0020         EPA 8260C         10-10-16         10-10-16           1,3-Dichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Hexanone         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           mp-Xylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           strypene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromobanzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.0010<	Laboratory ID:	MB1010S1					
Tetrachloroethene         ND         0.0020         EPA 8260C         10-10-16         10-10-16           1,3-Dichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Dibromochloromethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Lip-Zibromoethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Lip-Zibromoethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C <td< td=""><td></td><td></td><td>0.0010</td><td>EPA 8260C</td><td>10-10-16</td><td>10-10-16</td><td></td></td<>			0.0010	EPA 8260C	10-10-16	10-10-16	
1,3-Dichloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         2-Hexanone       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Dibromochloromethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromoethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,1,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,1,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         m,p-Xylene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         styrene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Bromoform       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Isopropylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Isopropylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,2-Trimethylbenzene       ND		ND			10-10-16	10-10-16	
2-Hexanone         ND         0.0050         EPA 8260C         10-10-16         10-10-16           Dibromochloromethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           L2-Dibromoethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           L1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Ethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Ethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachoroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachoroethane         ND         0.0010         EPA 8260C </td <td>1,3-Dichloropropane</td> <td>ND</td> <td>0.0010</td> <td>EPA 8260C</td> <td>10-10-16</td> <td>10-10-16</td> <td></td>	1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dibromoethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Chlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,1,1,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         thylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         m,p-Xylene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Styrene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Bromoform       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Isopropylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Isopropylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichloropropane       ND		ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Chlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Ethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           or,p-Xylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           or,ylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trickloroppane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3-5-Trimethylbenzene         ND         0.0010         EPA 8260C	Dibromochloromethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,1,1,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Ethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         m,p-Xylene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         c-Xylene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Styrene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Bromoform       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Isopropylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,1,2,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         2-Chlorotoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3,5-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND	1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Ethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           m.p-Xylene         ND         0.0020         EPA 8260C         10-10-16         10-10-16           o-Xylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2,2-Hiorobluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         <	Chlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Ethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           m.p-Xylene         ND         0.0020         EPA 8260C         10-10-16         10-10-16           o-Xylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2,2-Hiorobluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         <	1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
m.p-Xylene         ND         0.0020         EPA 8260C         10-10-16         10-10-16           c-Xylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           -Propylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-1		ND	0.0010	EPA 8260C	10-10-16	10-10-16	
o-Xylene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.0010         EPA		ND	0.0020	EPA 8260C	10-10-16	10-10-16	
Styrene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromoform         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010		ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromoform         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Bromobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichorobenzene         ND         0.0010 </td <td>-</td> <td>ND</td> <td>0.0010</td> <td>EPA 8260C</td> <td>10-10-16</td> <td>10-10-16</td> <td></td>	-	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Brombenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND		ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Bromobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-10-16         10-10-16           n-Propylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Vi-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Vi-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Vi-Dichorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND	Isopropylbenzene	ND				10-10-16	
1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         n-Propylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         2-Chlorotoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         4-Chlorotoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3,5-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         tert-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorob		ND					
1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         n-Propylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         2-Chlorotoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         4-Chlorotoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3,5-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         tert-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorob	1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
n-Propylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND		ND	0.0010	EPA 8260C		10-10-16	
2-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,4-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane         ND <td></td> <td>ND</td> <td>0.0010</td> <td>EPA 8260C</td> <td>10-10-16</td> <td>10-10-16</td> <td></td>		ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,3,5-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         tert-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         sec-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16		ND	0.0010	EPA 8260C	10-10-16	10-10-16	
tert-Butylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           sec-Butylbenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           p-Isopropyltoluene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,4-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2-Dibromo-3-chloropropane         ND         0.0050         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.0050         EPA 8260C         10-10-16         10-10-16           1,2,4-Trichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND<	4-Chlorotoluene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         sec-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         p-Isopropyltoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-A-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Tr	1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         sec-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         p-Isopropyltoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16	tert-Butylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         p-Isopropyltoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16 <i>Surrogate:</i> Percent Recovery       Control Limits       Dibromofluoromethane       98       76-131	1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
p-Isopropyltoluene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       98       76-131	-	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       98       76-131	1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       98       76-131         Toluene-d8       103       80-126       10-126       10-10-16       10-10-16	p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
n-Butylbenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       98       76-131         Toluene-d8       103       80-126       10-126       10-126       10-126	1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-10-16       10-10-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16 <i>Surrogate:</i> Percent Recovery       Control Limits       Dibromofluoromethane       98       76-131         Toluene-d8       103       80-126       10-126       10-126	1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-10-16       10-10-16         Naphthalene       ND       0.0010       EPA 8260C       10-10-16       10-10-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-10-16       10-10-16 <i>1,2,3-Trichlorobenzene</i> ND       0.0010       EPA 8260C       10-10-16       10-10-16 <i>surrogate:</i> Percent Recovery       Control Limits       Voltabelee       Voltabelee       Voltabelee         Dibromofluoromethane       98       76-131       Voltabelee       Voltabelee       Voltabelee         Toluene-d8       103       80-126       Voltabelee       Voltabelee       Voltabelee	n-Butylbenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Hexachlorobutadiene         ND         0.0050         EPA 8260C         10-10-16         10-10-16           Naphthalene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits         10-10-16         10-10-16           Dibromofluoromethane         98         76-131         76-131         103         80-126	1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-10-16	10-10-16	
Naphthalene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           1,2,3-Trichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits         Voltable	1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
1,2,3-Trichlorobenzene         ND         0.0010         EPA 8260C         10-10-16         10-10-16           Surrogate:         Percent Recovery         Control Limits         Image: Control Limits							
Surrogate:Percent RecoveryControl LimitsDibromofluoromethane9876-131Toluene-d810380-126	Naphthalene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Surrogate:Percent RecoveryControl LimitsDibromofluoromethane9876-131Toluene-d810380-126	1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-10-16	10-10-16	
Dibromofluoromethane         98         76-131           Toluene-d8         103         80-126		Percent Recovery	Control Limits				
	-	98	76-131				
4-Bromofluorobenzene 102 60-146	Toluene-d8	103	80-126				
	4-Bromofluorobenzene	102	60-146				



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#### VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
					,	
Laboratory ID:	MB1011S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Acetone	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Iodomethane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Chloroform	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Benzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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# VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 2 of 2

Analyte         Result         POL         Method         Prepared         Analyzed         Flags           Laboratory ID:         MB1011S1	A		501		Date	Date	
1,1,2-Trichloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Tetrachioroethene         ND         0.0020         EPA 8260C         10-11-16         10-11-16           1.3-Dichtoropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Hexanone         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromoethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           mp-Xylene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.0010         EPA	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Tetrachioroethene         ND         0.0020         EPA 8260C         10-11-16         10-11-16           1.3-Dichtoropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Hexanone         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromochlaromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2-Dibromoethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           mp-Xylene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.0010         EPA	Laboratory ID:	MB1011S1					
Tetrachloroethene         ND         0.0020         EPA 8260C         10-11-16         10-11-16           1,3-Dichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Dibromochloromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Dibromochloromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Ethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16			0.0010	EPA 8260C	10-11-16	10-11-16	
2-Hexanone         ND         0.0050         EPA 8260C         10-11-16         10-11-16           Dibromochloromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dibromoethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           ethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           exylene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromoberzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           I1.2.2-Tetrachoroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromoberzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1.2.2-Tetrachoroethane         ND         0.0010         EPA 8260C </td <td></td> <td>ND</td> <td>0.0020</td> <td>EPA 8260C</td> <td>10-11-16</td> <td>10-11-16</td> <td></td>		ND	0.0020	EPA 8260C	10-11-16	10-11-16	
2-Hexanone         ND         0.0050         EPA 8260C         10-11-16         10-11-16           Dibromochloromethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dibromoethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           L1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           any-Xylene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           oxylene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,2-Tetrachoroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,2-Tetrachoroethane         ND         0.0010         EPA 8260C         <	1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromoethane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Chlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,1,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         tethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         m,p-Xylene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Styrene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Bromoform       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Isopropylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Isopropylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichloroblenzene       ND		ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Chlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,1,1,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Ethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           orweit         ND         0.0010         EPA 8260C         10-11-16         10-11-16           orweit         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           I_2_3-Trickloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           I_2_3-Trickloropropane         ND         0.0010         EPA 8260C         1	Dibromochloromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1,1,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Ethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         m,p-Xylene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         o-Xylene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Styrene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Bromobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Bromobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,2-Tetrachloroethane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,2-Trinchloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,2-Chrotoluene       ND <td>1,2-Dibromoethane</td> <td>ND</td> <td>0.0010</td> <td>EPA 8260C</td> <td>10-11-16</td> <td>10-11-16</td> <td></td>	1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Ethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           m.p-Xylene         ND         0.0020         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           -Propylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11	Chlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
mp-Xylene         ND         0.0020         EPA 8260C         10-11-16         10-11-16           o-Xylene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           System         ND         0.0010         EPA 8260C         10-11-16         10-11-16           ND         0.0010         EPA 8260C         10-11-16         10-11-16           ND         0.0010         EPA 8260C         10-11-16         10-11-16           -Propylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzen	1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
o-Xylene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromoborm         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA	Ethylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Styrene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isoproylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trinethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010	m,p-Xylene	ND	0.0020	EPA 8260C	10-11-16	10-11-16	
Bromoform         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           -Propylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010	o-Xylene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromoform         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND	-	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Brondbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND	Bromoform	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.0010         EPA 8260C         10-11-16         10-11-16           n-Propylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND <t< td=""><td>Isopropylbenzene</td><td>ND</td><td>0.0010</td><td>EPA 8260C</td><td>10-11-16</td><td>10-11-16</td><td></td></t<>	Isopropylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         n-Propylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         2-Chlorotoluene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         4-Chlorotoluene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobe		ND	0.0010	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dibromo-3-chloropropane         ND	1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dibromo-3-chloropropane         ND	1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         tert-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16	n-Propylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         tert-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         sec-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16	2-Chlorotoluene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         sec-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         p-lsopropyltoluene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16	4-Chlorotoluene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         sec-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         p-Isopropyltoluene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16	1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           p-Isopropyltoluene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2-Dibromo-3-chloropropane         ND         0.0050         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recov	tert-Butylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,3-Dichorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         p-Isopropyltoluene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       104       76-131	1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
p-IsopropyltolueneND0.0010EPA 8260C10-11-1610-11-161,4-DichlorobenzeneND0.0010EPA 8260C10-11-1610-11-161,2-DichlorobenzeneND0.0010EPA 8260C10-11-1610-11-16n-ButylbenzeneND0.0010EPA 8260C10-11-1610-11-161,2-Dibromo-3-chloropropaneND0.0050EPA 8260C10-11-1610-11-161,2,4-TrichlorobenzeneND0.0050EPA 8260C10-11-1610-11-161,2,4-TrichlorobenzeneND0.0050EPA 8260C10-11-1610-11-16HexachlorobutadieneND0.0010EPA 8260C10-11-1610-11-16NaphthaleneND0.0010EPA 8260C10-11-1610-11-16 <i>1,2,3-Trichlorobenzene</i> ND0.0010EPA 8260C10-11-1610-11-16 <i>Surrogate:</i> Percent RecoveryControl LimitsDibromofluoromethane10476-13110780-126	sec-Butylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16 <i>Surrogate:</i> Percent Recovery       Control Limits       Dibromofluoromethane       104       76-131         Toluene-d8       107       80-126       10-126       10-11-16       10-11-16 <td>1,3-Dichlorobenzene</td> <td>ND</td> <td>0.0010</td> <td>EPA 8260C</td> <td>10-11-16</td> <td>10-11-16</td> <td></td>	1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         n-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Surrogate:       Percent Recovery       Control Limits       In-11-16       In-11-16       In-11-16         Dibromofluoromethane       104       76-131       In-126       In-11-16       In-11-16	p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Surrogate:       Percent Recovery       Control Limits       10-11-16       10-11-16       10-11-16         Dibromofluoromethane       104       76-131       76-131       107       80-126       107       107	1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane       ND       0.0050       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16 <i>Surrogate:</i> Percent Recovery       Control Limits       Dibromofluoromethane       104       76-131         Toluene-d8       107       80-126       10-126       10-126       10-126	1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.0050       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.0010       EPA 8260C       10-11-16       10-11-16         surrogate:       Percent Recovery       Control Limits       10-11-16       10-11-16         Dibromofluoromethane       104       76-131       76-131       107       80-126	n-Butylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene         ND         0.0050         EPA 8260C         10-11-16         10-11-16           Naphthalene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recovery         Control Limits         10-11-16         10-11-16           Dibromofluoromethane         104         76-131         76-131         107         80-126	1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Naphthalene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recovery         Control Limits         104         76-131         107         80-126	1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichlorobenzene         ND         0.0010         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recovery         Control Limits         Image: Control Limits	Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Surrogate:Percent RecoveryControl LimitsDibromofluoromethane10476-131Toluene-d810780-126	Naphthalene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Dibromofluoromethane         104         76-131           Toluene-d8         107         80-126	1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Toluene-d8 107 80-126	Surrogate:	Percent Recovery	Control Limits				
	Dibromofluoromethane	104	76-131				
4-Bromofluorobenzene 102 60-146	Toluene-d8	107	80-126				
	4-Bromofluorobenzene	102	60-146				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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## VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB10	10S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0457	0.0490	0.0500	0.0500	91	98	68-126	7	15	
Benzene	0.0461	0.0480	0.0500	0.0500	92	96	70-121	4	15	
Trichloroethene	0.0455	0.0476	0.0500	0.0500	91	95	75-120	5	15	
Toluene	0.0468	0.0495	0.0500	0.0500	94	99	80-120	6	15	
Chlorobenzene	0.0475	0.0490	0.0500	0.0500	95	98	76-120	3	15	
Surrogate:										
Dibromofluoromethane					94	94	76-131			
Toluene-d8					94	100	80-126			
4-Bromofluorobenzene					96	96	60-146			



## VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rece	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB10	11S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0472	0.0496	0.0500	0.0500	94	99	68-126	5	15	
Benzene	0.0473	0.0487	0.0500	0.0500	95	97	70-121	3	15	
Trichloroethene	0.0440	0.0462	0.0500	0.0500	88	92	75-120	5	15	
Toluene	0.0459	0.0487	0.0500	0.0500	92	97	80-120	6	15	
Chlorobenzene	0.0474	0.0478	0.0500	0.0500	95	96	76-120	1	15	
Surrogate:										
Dibromofluoromethane					98	99	76-131			
Toluene-d8					98	100	80-126			
4-Bromofluorobenzene					100	101	60-146			



# SEMIVOLATILES EPA 8270D/SIM

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Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-3			-	-	
Laboratory ID:	10-080-01					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Pyridine	ND	0.37	EPA 8270D	10-10-16	10-12-16	
Phenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Aniline	ND	0.18	EPA 8270D	10-10-16	10-12-16	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2-Chlorophenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-10-16	10-12-16	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	10-10-16	10-12-16	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	10-10-16	10-12-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	10-10-16	10-12-16	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Hexachloroethane	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Nitrobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Isophorone	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2-Nitrophenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Naphthalene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-10-16	10-12-16	
Hexachlorobutadiene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2-Chloronaphthalene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2-Nitroaniline	ND	0.037	EPA 8270D	10-10-16	10-12-16	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Dimethylphthalate	ND	0.037	EPA 8270D	10-10-16	10-12-16	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
3-Nitroaniline	ND	0.037	EPA 8270D	10-10-16	10-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-3-16-3	FQL	Wethou	Fiepaleu	Analyzeu	i lays
Laboratory ID:	10-080-01					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-10-16	10-12-16	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.0073	EPA 8270D	10-10-16	10-12-16	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Dibenzofuran	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	10-10-16	10-12-16	
-	ND	0.037	EPA 8270D	10-10-16	10-12-16	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D EPA 8270D	10-10-16	10-12-16	
Diethylphthalate	ND					
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	10-10-16	10-12-16	
4-Nitroaniline		0.037	EPA 8270D	10-10-16	10-12-16	
Fluorene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-10-16	10-12-16	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	10-10-16	10-12-16	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	10-10-16	10-12-16	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Hexachlorobenzene	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-10-16	10-12-16	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Anthracene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Carbazole	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-10-16	10-12-16	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Benzidine	ND	0.37	EPA 8270D	10-10-16	10-12-16	
Pyrene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Butylbenzylphthalate	ND	0.037	EPA 8270D	10-10-16	10-12-16	
bis-2-Ethylhexyladipate	ND	0.037	EPA 8270D	10-10-16	10-12-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-10-16	10-12-16	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
bis(2-Ethylhexyl)phthalate	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Di-n-octylphthalate	ND	0.037	EPA 8270D	10-10-16	10-12-16	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	57	24 - 117				
Phenol-d6	61	30 - 120				
Nitrobenzene-d5	61	27 - 112				
2-Fluorobiphenyl	62	35 - 113				
2,4,6-Tribromophenol	67	21 - 120				
Terphenyl-d14	65	39 - 121				



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# SEMIVOLATILES EPA 8270D/SIM

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Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-6					
Laboratory ID:	10-080-02					
n-Nitrosodimethylamine	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Pyridine	ND	0.38	EPA 8270D	10-10-16	10-11-16	
Phenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Aniline	ND	0.19	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2-Chlorophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
1,3-Dichlorobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
1,4-Dichlorobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Benzyl alcohol	ND	0.19	EPA 8270D	10-10-16	10-11-16	
1,2-Dichlorobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270D	10-10-16	10-11-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270D	10-10-16	10-11-16	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Hexachloroethane	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Nitrobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Isophorone	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2-Nitrophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,4-Dimethylphenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,4-Dichlorophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Naphthalene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
4-Chloroaniline	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Hexachlorobutadiene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
1-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Hexachlorocyclopentadiene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,3-Dichloroaniline	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2-Chloronaphthalene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2-Nitroaniline	ND	0.038	EPA 8270D	10-10-16	10-11-16	
1,4-Dinitrobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Dimethylphthalate	ND	0.038	EPA 8270D	10-10-16	10-11-16	
1,3-Dinitrobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,6-Dinitrotoluene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
1,2-Dinitrobenzene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Acenaphthylene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
3-Nitroaniline	ND	0.038	EPA 8270D	10-10-16	10-11-16	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-3-16-6		Method	Tiepareu	Analyzeu	i lago
Laboratory ID:	10-080-02					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Acenaphthene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,4-Dinitrotoluene	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Dibenzofuran	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Diethylphthalate	ND	0.19	EPA 8270D	10-10-16	10-11-16	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270D	10-10-16	10-11-16	
4-Nitroaniline	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Fluorene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D/SIM	10-10-16	10-11-16	
n-Nitrosodiphenylamine	ND	0.19	EPA 8270D EPA 8270D	10-10-16	10-11-16	
	ND	0.038	EPA 8270D	10-10-16		
1,2-Diphenylhydrazine 4-Bromophenyl-phenylether	ND	0.038	EPA 8270D EPA 8270D	10-10-16	10-11-16 10-11-16	
Hexachlorobenzene	ND	0.038	EPA 8270D EPA 8270D	10-10-16	10-11-16	
Pentachlorophenol	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Phenanthrene	ND	0.19		10-10-16		
Anthracene	ND		EPA 8270D/SIM		10-10-16	
		0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Carbazole	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Di-n-butylphthalate	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Fluoranthene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Benzidine	ND	0.38	EPA 8270D	10-10-16	10-11-16	
Pyrene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Butylbenzylphthalate	ND	0.038	EPA 8270D	10-10-16	10-11-16	
bis-2-Ethylhexyladipate	ND	0.038	EPA 8270D	10-10-16	10-11-16	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	10-10-16	10-11-16	
Benzo[a]anthracene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
bis(2-Ethylhexyl)phthalate	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Di-n-octylphthalate	ND	0.038	EPA 8270D	10-10-16	10-11-16	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Indeno[1,2,3-cd]pyrene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0076	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	71	24 - 117				
Phenol-d6	75	30 - 120				
Nitrobenzene-d5	77	27 - 112				
2-Fluorobiphenyl	76	35 - 113				
2,4,6-Tribromophenol	79	21 - 120				
Terphenyl-d14	78	39 - 121				



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## SEMIVOLATILES EPA 8270D/SIM

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Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-8.5			-1		· J ·
Laboratory ID:	10-080-03					
n-Nitrosodimethylamine	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Pyridine	ND	0.39	EPA 8270D	10-10-16	10-12-16	
Phenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Aniline	ND	0.20	EPA 8270D	10-10-16	10-12-16	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2-Chlorophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
1,3-Dichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
1,4-Dichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Benzyl alcohol	ND	0.20	EPA 8270D	10-10-16	10-12-16	
1,2-Dichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270D	10-10-16	10-12-16	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270D	10-10-16	10-12-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270D	10-10-16	10-12-16	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Hexachloroethane	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Nitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Isophorone	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2-Nitrophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,4-Dimethylphenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,4-Dichlorophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Naphthalene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
4-Chloroaniline	ND	0.20	EPA 8270D	10-10-16	10-12-16	
Hexachlorobutadiene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2-Methylnaphthalene	0.018	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
1-Methylnaphthalene	0.013	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Hexachlorocyclopentadiene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,3-Dichloroaniline	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2-Chloronaphthalene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2-Nitroaniline	ND	0.039	EPA 8270D	10-10-16	10-12-16	
1,4-Dinitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Dimethylphthalate	ND	0.039	EPA 8270D	10-10-16	10-12-16	
1,3-Dinitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,6-Dinitrotoluene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
1,2-Dinitrobenzene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Acenaphthylene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
3-Nitroaniline	ND	0.039	EPA 8270D	10-10-16	10-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-3-16-8.5					
Laboratory ID:	10-080-03					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	10-10-16	10-12-16	
Acenaphthene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,4-Dinitrotoluene	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Dibenzofuran	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Diethylphthalate	ND	0.20	EPA 8270D	10-10-16	10-12-16	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270D	10-10-16	10-12-16	
4-Nitroaniline	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Fluorene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	10-10-10	10-12-16	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270D	10-10-16	10-12-16	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270D	10-10-16	10-12-16	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Hexachlorobenzene	ND	0.039	EPA 8270D	10-10-10	10-12-16	
Pentachlorophenol	ND	0.20	EPA 8270D	10-10-16	10-12-16	
Phenanthrene	ND	0.20	EPA 8270D/SIM	10-10-16	10-12-16	
Anthracene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Carbazole	ND	0.039	EPA 8270D/31M	10-10-16	10-12-16	
Di-n-butylphthalate	ND	0.20	EPA 8270D	10-10-16	10-12-16	
Fluoranthene	ND	0.20	EPA 8270D/SIM	10-10-16		
Benzidine	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
	ND	0.0078	EPA 8270D/SIM	10-10-16	10-12-16 10-10-16	
Pyrene Butulbonstulabthalata	ND					
Butylbenzylphthalate	ND	0.039	EPA 8270D	10-10-16	10-12-16	
bis-2-Ethylhexyladipate		0.039	EPA 8270D	10-10-16	10-12-16	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	10-10-16	10-12-16	
Benzo[a]anthracene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
bis(2-Ethylhexyl)phthalate	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Di-n-octylphthalate	ND	0.039	EPA 8270D	10-10-16	10-12-16	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Indeno[1,2,3-cd]pyrene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol Rhanal de	69 71	24 - 117				
Phenol-d6	71	30 - 120				
Nitrobenzene-d5	70	27 - 112				
2-Fluorobiphenyl	71	35 - 113				
2,4,6-Tribromophenol	77	21 - 120				
Terphenyl-d14	73	39 - 121				



#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1010S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Pyridine	ND	0.33	EPA 8270D	10-10-16	10-11-16	
Phenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Aniline	ND	0.17	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Chlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	10-10-16	10-11-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	10-10-16	10-11-16	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Hexachloroethane	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Nitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Isophorone	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Nitrophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Naphthalene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Hexachlorobutadiene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Chloronaphthalene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2-Nitroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Dimethylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
3-Nitroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	

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#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1010S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4-Nitrophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Dibenzofuran	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-10-16	10-11-16	
4-Chlorophenyl-phenylether		0.033	EPA 8270D	10-10-16	10-11-16	
4-Nitroaniline	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-10-16	10-11-16	
4-Bromophenyl-phenylether		0.033	EPA 8270D	10-10-16	10-11-16	
Hexachlorobenzene	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Carbazole	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzidine	ND	0.33	EPA 8270D	10-10-16	10-11-16	
<sup>D</sup> yrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Butylbenzylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
pis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-10-16	10-11-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
ois(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Di-n-octylphthalate	ND	0.033	EPA 8270D	10-10-16	10-11-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
ndeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	81	24 - 117				
Phenol-d6	83	30 - 120				
Nitrobenzene-d5	85	27 - 112				
2-Fluorobiphenyl	84	35 - 113				
2,4,6-Tribromophenol	85	21 - 120				
Terphenyl-d14	85	39 - 121				



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## SEMIVOLATILES EPA 8270D/SIM MS/MSD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-08	80-03									
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.914	0.997	1.33	1.33	ND	69	75	31 - 108	9	36	
2-Chlorophenol	0.940	1.03	1.33	1.33	ND	71	77	38 - 103	9	38	
1,4-Dichlorobenzene	0.465	0.502	0.667	0.667	ND	70	75	25 - 101	8	40	
n-Nitroso-di-n-propylamine	0.452	0.494	0.667	0.667	ND	68	74	26 - 102	9	38	
1,2,4-Trichlorobenzene	0.451	0.513	0.667	0.667	ND	68	77	27 - 101	13	40	
4-Chloro-3-methylphenol	0.914	1.02	1.33	1.33	ND	69	77	42 - 106	11	29	
Acenaphthene	0.460	0.513	0.667	0.667	ND	69	77	42 - 103	11	30	
4-Nitrophenol	0.927	1.02	1.33	1.33	ND	70	77	25 - 125	10	29	
2,4-Dinitrotoluene	0.466	0.507	0.667	0.667	ND	70	76	45 - 107	8	30	
Pentachlorophenol	1.03	1.15	1.33	1.33	ND	77	86	30 - 103	11	31	
Pyrene	0.478	0.532	0.667	0.667	ND	72	80	50 - 118	11	28	
Surrogate:											
2-Fluorophenol						69	75	24 - 117			
Phenol-d6						71	77	30 - 1 <i>2</i> 0			
Nitrobenzene-d5						72	79	27 - 112			
2-Fluorobiphenyl						71	76	35 - 113			
2,4,6-Tribromophenol						75	81	21 - 120			
Terphenyl-d14						72	79	39 - 121			



### PCBs EPA 8082A

Matrix: Soil Units: mg/Kg (ppm)

5 5 (1 )				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16-3					
Laboratory ID:	10-080-01					
Aroclor 1016	ND	0.055	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.055	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.055	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.055	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.055	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.055	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.055	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	82	50-139				
Client ID:	H-3-16-6					
Laboratory ID:	10-080-02					
Aroclor 1016	ND	0.057	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.057	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.057	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.057	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.057	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.057	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.057	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	77	50-139				
Client ID:	H-3-16-8.5					
Laboratory ID:	10-080-03					
Aroclor 1016	ND	0.059	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.059	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.059	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.059	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.059	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.059	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.059	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	70	50-139				



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## PCBs EPA 8082A QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1011S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.050	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	50-139				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-08	80-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.389	0.387	0.500	0.500	ND	78	77	49-133	1	17	
Surrogate:											
DCB						80	81	50-139			



#### TOTAL METALS EPA 6010C/6020A/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	10-080-01 <b>H-3-16-3</b>					
Antimony	ND	5.5	6010C	10-13-16	10-13-16	
Arsenic	ND	11	6010C	10-13-16	10-13-16	
Beryllium	ND	0.55	6010C	10-13-16	10-13-16	
Cadmium	ND	0.55	6010C	10-13-16	10-13-16	
Chromium	28	0.55	6010C	10-13-16	10-13-16	
Copper	13	1.1	6010C	10-13-16	10-13-16	
Lead	ND	5.5	6010C	10-13-16	10-13-16	
Mercury	ND	0.28	7471B	10-11-16	10-11-16	
Nickel	33	2.8	6010C	10-13-16	10-13-16	
Selenium	ND	11	6010C	10-13-16	10-13-16	
Silver	ND	0.55	6010C	10-13-16	10-13-16	
Thallium	ND	1.4	6020A	10-13-16	10-17-16	
Zinc	26	2.8	6010C	10-13-16	10-13-16	



#### TOTAL METALS EPA 6010C/6020A/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-080-02					
Client ID:	H-3-16-6					
Antimony	ND	5.7	6010C	10-13-16	10-13-16	
Arsenic	ND	11	6010C	10-13-16	10-13-16	
Beryllium	ND	0.57	6010C	10-13-16	10-13-16	
Cadmium	ND	0.57	6010C	10-13-16	10-13-16	
Chromium	27	0.57	6010C	10-13-16	10-13-16	
Copper	11	1.1	6010C	10-13-16	10-13-16	
Lead	ND	5.7	6010C	10-13-16	10-13-16	
Mercury	ND	0.29	7471B	10-11-16	10-11-16	
Nickel	30	2.9	6010C	10-13-16	10-13-16	
Selenium	ND	11	6010C	10-13-16	10-13-16	
Silver	ND	0.57	6010C	10-13-16	10-13-16	
Thallium	ND	1.4	6020A	10-13-16	10-17-16	
Zinc	24	2.9	6010C	10-13-16	10-13-16	



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### TOTAL METALS EPA 6010C/6020A/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-080-03					
Client ID:	H-3-16-8.5					
Antimony	ND	5.9	6010C	10-13-16	10-13-16	
Arsenic	ND	12	6010C	10-13-16	10-13-16	
Beryllium	ND	0.59	6010C	10-13-16	10-13-16	
Cadmium	ND	0.59	6010C	10-13-16	10-13-16	
Chromium	29	0.59	6010C	10-13-16	10-13-16	
Copper	8.6	1.2	6010C	10-13-16	10-13-16	
Lead	ND	5.9	6010C	10-13-16	10-13-16	
Mercury	ND	0.29	7471B	10-11-16	10-11-16	
Nickel	24	2.9	6010C	10-13-16	10-13-16	
Selenium	ND	12	6010C	10-13-16	10-13-16	
Silver	ND	0.59	6010C	10-13-16	10-13-16	
Thallium	ND	1.5	6020A	10-13-16	10-17-16	
Zinc	26	2.9	6010C	10-13-16	10-13-16	



## TOTAL METALS EPA 6010C/6020A/7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB1013SH1&MB1011S1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	0.50
Thallium	6020A	ND	1.3
Zinc	6010C	ND	2.5



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## TOTAL METALS EPA 6010C/6020A/7471B DUPLICATE QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10.0	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	25.9	24.3	6	0.50	
Copper	11.7	10.9	7	1.0	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Nickel	30.4	29.2	4	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	0.50	
Thallium	ND	ND	NA	1.3	
Zinc	24.0	22.0	9	2.5	



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## TOTAL METALS EPA 6010C/6020A/7471B MS/MSD QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Antimony	100	95.4	95	88.3	88	8	
Arsenic	100	101	101	94.3	94	6	
Beryllium	50.0	50.8	102	47.6	95	7	
Cadmium	50.0	49.3	99	47.5	95	4	
Chromium	100	128	102	119	93	7	
Copper	50.0	63.9	105	60.4	97	6	
Lead	250	238	95	232	93	3	
Mercury	0.500	0.499	100	0.546	109	9	
Nickel	100	127	96	120	89	6	
Selenium	100	104	104	99.4	99	5	
Silver	25.0	24.4	97	23.1	92	5	
Thallium	50.0	44.2	88	44.8	90	1	
Zinc	100	120	96	115	91	4	



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## % MOISTURE

Date Analyzed: 10-10-16

Client ID	Lab ID	% Moisture
H-3-16-3	10-080-01	9
	10 000 01	0
H-3-16-6	10-080-02	12
H-3-16-8.5	10-080-03	15



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#### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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Reviewed/Date	Received	Relinquished	Received	Relinquished	Received J. K. Heur	Relinquished	Signature		for for	5 H-3-16-17.4	4 H-3-16-135	3 H-3-16-8.5	2 11-3-16-6	1 H-3-16-3	Lab ID Sample Identification	Sampled by Andrew Dinden	Glann Haynan	SR520	SIOO8	Company: I WANK	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Environmental Inc.
Reviewed/Date			On yok	INNOVER	Innovex	INNOVER	Company		116	1 2450 1 1	2350	2335	2330	10/1/16 2325 S 5	Date Time Sampled Sampled Matrix	(other)		(TPH analysis 5 Days)	2 Days 3 Days	Same Day 1 Day	(in working days)	Chain of Custody
			10/SIL 1020	10/8/16 10:20	10/0/16 02:15	198/16 0215	Date Time					×	X	×	NWTF NWTF NWTF Volatil Haloge	PH-HCID PH-Gx/B PH-Gx ★ PH-Dx ([ es 8260 enated \	) TEX ] Acid / C /olatiles	/ SG Cle 8260C	51 51	*	Laboratory Number:	Custody
Chromatograms with final report   Electronic Data Deliverables (EDDs)	Data Package: Standard  Level III  Level IV				based on	* Follow up in appropriate anelyin	Comments/Special Instructions						×××		Semiv (with I PAHs PCBs Organ Organ Chlorii Total F Total N TCLP HEM (	PA 801 <sup>-1</sup> olatiles i ow-level 8270D/S 8082A ochlorin ophosph nated Ac RCRA Mi ATCA M Metals oil and g	8270D/ I PAHs) SIM (Iow e Pestii norus P cid Hert etals etals grease)	SIM /-level) cides 8( esticide bicides bicides	081B 95 82701 8151A		r: 10-080	Page 1 of 1



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

October 18, 2016

Glenn Hayman INNOVEX Environmental Mgt., Inc. 16310 NE 80th St., Suite 300 Redmond, WA 98052

Re: Analytical Data for Project 31008 Laboratory Reference No. 1610-081

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 8, 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



#### **Case Narrative**

Samples were collected on October 7, 2016 and received by the laboratory on October 8, 2016. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ 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.

## PCBs EPA 8082A Analysis

Due to limited sample volume, H-3-16 was extracted from a 500 mL poly bottle.

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.



#### **NWTPH-HCID**

Matrix: Water Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-3-16			•		
Laboratory ID:	10-081-01					
Gasoline Range Organics	ND	0.11	NWTPH-HCID	10-12-16	10-12-16	
Diesel Range Organics	ND	0.29	NWTPH-HCID	10-12-16	10-12-16	
Lube Oil Range Organics	ND	0.46	NWTPH-HCID	10-12-16	10-12-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	112	50-150				



#### NWTPH-HCID QUALITY CONTROL

Matrix: Water Units: mg/L (ppm)

ee				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012W1					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	10-12-16	10-12-16	
Diesel Range Organics	ND	0.25	NWTPH-HCID	10-12-16	10-12-16	
Lube Oil Range Organics	ND	0.40	NWTPH-HCID	10-12-16	10-12-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				



## VOLATILES EPA 8260C page 1 of 2

Matrix: Water Units: ug/L

5				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16					
Laboratory ID:	10-081-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Acetone	6.5	5.0	EPA 8260C	10-11-16	10-11-16	
lodomethane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-11-16	10-11-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	5.0	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Chloroform	8.3	0.20	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Benzene	7.4	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	1.0	0.20	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	1.0	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-11-16	10-11-16	



Analyte         Result         PQL         Method         Prepared         Analyzed         Flags           Client ID:         H-3-16           Laboratory ID:         10-081-01           1.1,2-Trichloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Jabichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1.3-Dichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1.1,2-Tottachlorophane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1.1,2-Tottachlorophane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1.1,2-Tottachlorophane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Chiorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Chiorobenzene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Stypene         0.70         0.20         EPA 8260C					Date	Date	
Laboratory ID:         10-081-01           1,1,2-Trichloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Hexanone         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1-2:Totronoethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1.2:Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1.2:Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Chiorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Ethylbenzene         0.70         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Isopropylenzene <td< th=""><th>Analyte</th><th>Result</th><th>PQL</th><th>Method</th><th>Prepared</th><th>Analyzed</th><th>Flags</th></td<>	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
1,1,2-Trichloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Hexanone         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Hexanone         ND         0.20         EPA 8260C         10-11-16         10-11-16           Dibromochloromethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         0.70         0.20         EPA 8260C         10-11-16         10-11-16           Ethylbenzene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         1.0         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         1.0         EPA 8260C         10-11-16         10-11-16           I_1,2,2-Tertachloroethane         ND         0.20         EPA 8260C         10-11-16 <t< th=""><th>Client ID:</th><th>H-3-16</th><th></th><th></th><th></th><th></th><th></th></t<>	Client ID:	H-3-16					
Tetrachloroethene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Hexanone         ND         0.20         EPA 8260C         10-11-16         10-11-16           1biromochloromethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1.1.2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1.1.2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Ethylbenzene         0.70         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         1.0         EPA 8260C         10-11-16         10-11-16           Styrene         ND         1.0         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           1,2.2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-	Laboratory ID:	10-081-01					
1,3-Dichloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         2-Hexanone       ND       2.0       EPA 8260C       10-11-16       10-11-16         Dibromochloromethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dibromochtane       ND       0.20       EPA 8260C       10-11-16       10-11-16         Chlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,1,2-Tetrachloroethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         m,p-Xylene       0.70       0.20       EPA 8260C       10-11-16       10-11-16         oxylene       0.67       0.20       EPA 8260C       10-11-16       10-11-16         Sytrene       ND       1.0       EPA 8260C       10-11-16       10-11-16         Bromoform       ND       1.0       EPA 8260C       10-11-16       10-11-16         I,1,2,2-Tetrachloroethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,1,2,2-Tetrachloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trindihoropropane       ND       0.20 <td< td=""><td>1,1,2-Trichloroethane</td><td>ND</td><td>0.20</td><td>EPA 8260C</td><td>10-11-16</td><td>10-11-16</td><td></td></td<>	1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
2-Hexanone         ND         2.0         EPA 8260C         10-11-16         10-11-16           Dibromochloromethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dibromoethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,1,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,1,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           ethylbenzene         0.70         0.20         EPA 8260C         10-11-16         10-11-16           orybylenzene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         1.0         EPA 8260C         10-11-16         10-11-16           Styrene         ND         1.0         EPA 8260C         10-11-16         10-11-16           Isopropylenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Tricholoropropane         ND         0.20         EPA 8260C         <	Tetrachloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Dibromochloromethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dibromoethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Chlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           L1,1,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           ethylbenzene         0.70         0.20         EPA 8260C         10-11-16         10-11-16           ethylbenzene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         1.0         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           I,1,2.2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2.2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2.2-Tetrachloroethane         ND         0.20         EPA 8260C	1,3-Dichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromoethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         Chlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,1,1,2-Tetrachloroethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         Ethylbenzene       0.70       0.20       EPA 8260C       10-11-16       10-11-16         m,p-Xylene       2.1       0.40       EPA 8260C       10-11-16       10-11-16         oxYlene       0.67       0.20       EPA 8260C       10-11-16       10-11-16         Styrene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Bromoform       ND       1.0       EPA 8260C       10-11-16       10-11-16         Isopropylbenzene       0.25       0.20       EPA 8260C       10-11-16       10-11-16         Isopropylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,2-Tetrachloroethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trimethylbenzene       ND       0.20       EPA	2-Hexanone	ND	2.0	EPA 8260C	10-11-16	10-11-16	
Chlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,1,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           Ethylbenzene         0.70         0.20         EPA 8260C         10-11-16         10-11-16           on-Xylene         2.1         0.40         EPA 8260C         10-11-16         10-11-16           o-Xylene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,2-Tictrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Tirchloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Timethylbenzene         0.44         0.20         EPA 8260C         1	Dibromochloromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1,1,2-Tetrachloroethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         Ethylbenzene       0.70       0.20       EPA 8260C       10-11-16       10-11-16         m,p-Xylene       2.1       0.40       EPA 8260C       10-11-16       10-11-16         o-Xylene       0.67       0.20       EPA 8260C       10-11-16       10-11-16         Styrene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Bromoform       ND       1.0       EPA 8260C       10-11-16       10-11-16         Isopropylbenzene       0.25       0.20       EPA 8260C       10-11-16       10-11-16         Bromobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,1,2,2-Tetrachloroethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       0.30       0.20       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       ND       0.20	1,2-Dibromoethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Ethylbenzene         0.70         0.20         EPA 8260C         10-11-16         10-11-16           m.p-Xylene         2.1         0.40         EPA 8260C         10-11-16         10-11-16           o-Xylene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         1.0         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trimethylbenzene         0.37         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16 <td>Chlorobenzene</td> <td>ND</td> <td>0.20</td> <td>EPA 8260C</td> <td>10-11-16</td> <td>10-11-16</td> <td></td>	Chlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
m.p-Xylene         2.1         0.40         EPA 8260C         10-11-16         10-11-16           o-Xylene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         1.0         EPA 8260C         10-11-16         10-11-16           Bromobenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-bichlorobenzene         ND         0.20         EPA 8260C         10-11-16	1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
o-Xylene         0.67         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         1.0         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-L-Artimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C <t< td=""><td>Ethylbenzene</td><td>0.70</td><td>0.20</td><td>EPA 8260C</td><td>10-11-16</td><td>10-11-16</td><td></td></t<>	Ethylbenzene	0.70	0.20	EPA 8260C	10-11-16	10-11-16	
Styrene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Bromoform         ND         1.0         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trimethylbenzene         0.37         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 826	m,p-Xylene	2.1	0.40	EPA 8260C	10-11-16	10-11-16	
Bromoform         ND         1.0         EPA 8260C         10-11-16         10-11-16           Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20         EPA	o-Xylene	0.67	0.20	EPA 8260C	10-11-16	10-11-16	
Isopropylbenzene         0.25         0.20         EPA 8260C         10-11-16         10-11-16           Bromobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloroppane         ND         0.20         EPA 8260C         10-11-16         10-11-16           n-Propylbenzene         0.37         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20	Styrene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Bromobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,1,2,2-Tetrachloroethane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20	Bromoform	ND	1.0	EPA 8260C	10-11-16	10-11-16	
1,1,2,2-Tetrachloroethane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         n-Propylbenzene       0.37       0.20       EPA 8260C       10-11-16       10-11-16         2-Chlorotoluene       ND       0.20       EPA 8260C       10-11-16       10-11-16         4-Chlorotoluene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       0.30       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene	Isopropylbenzene	0.25	0.20	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         n-Propylbenzene       0.37       0.20       EPA 8260C       10-11-16       10-11-16         2-Chlorotoluene       ND       0.20       EPA 8260C       10-11-16       10-11-16         4-Chlorotoluene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       0.30       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene	Bromobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene         0.37         0.20         EPA 8260C         10-11-16         10-11-16           2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20	1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           4-Chlorotoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         0.30         0.20         EPA 8260C         10-11-16         10-11-16           1,3,5-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         0.44         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dibromo-3-chloropropane         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0	1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3,5-Trimethylbenzene       0.30       0.20       EPA 8260C       10-11-16       10-11-16         tert-Butylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       0.44       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobe	n-Propylbenzene	0.37	0.20	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene       0.30       0.20       EPA 8260C       10-11-16       10-11-16         tert-Butylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trimethylbenzene       0.44       0.20       EPA 8260C       10-11-16       10-11-16         sec-Butylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Diblorom-3-chloropropane       ND       1.0       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenz	2-Chlorotoluene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trimethylbenzene         0.44         0.20         EPA 8260C         10-11-16         10-11-16           sec-Butylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           p-Isopropyltoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Diblorono-3-chloropropane         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20<	4-Chlorotoluene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene       0.44       0.20       EPA 8260C       10-11-16       10-11-16         sec-Butylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         p-Isopropyltoluene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobe	1,3,5-Trimethylbenzene	0.30	0.20	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,3-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           p-Isopropyltoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dibromo-3-chloropropane         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20	tert-Butylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,3-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         p-lsopropyltoluene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         n-Butylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       1.0       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       1.0       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Surrogate:       Percent	1,2,4-Trimethylbenzene	0.44	0.20	EPA 8260C	10-11-16	10-11-16	
p-Isopropyltoluene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,4-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           n-Butylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dibromo-3-chloropropane         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Hexachlorobutadiene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Naphthalene         ND         0.20         EPA 8260C         10-11-16         10-11-16 <i>Surrogate:</i> Percent Recovery         Control Limits         Dibromofluoromethane         104         71-131	sec-Butylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         n-Butylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16 <i>Surrogate:</i> Percent Recovery       Control Limits       Dibromofluoromethane       104       71-131	1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         n-Butylbenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2-Dibromo-3-chloropropane       ND       1.0       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       1.0       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       104       71-131	p-Isopropyltoluene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2-Dibromo-3-chloropropane         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Hexachlorobutadiene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Naphthalene         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recovery         Control Limits         10-11-16         10-11-16           Dibromofluoromethane         104         71-131         10-11-13         10-11-16	1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane       ND       1.0       EPA 8260C       10-11-16       10-11-16         1,2,4-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Hexachlorobutadiene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Naphthalene       ND       1.0       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         1,2,3-Trichlorobenzene       ND       0.20       EPA 8260C       10-11-16       10-11-16         Surrogate:       Percent Recovery       Control Limits       Dibromofluoromethane       104       71-131	1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Hexachlorobutadiene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Naphthalene         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recovery         Control Limits         Voltable         Voltable         Voltable           Dibromofluoromethane         104         71-131         Voltable         Voltable         Voltable	n-Butylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Naphthalene         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recovery         Control Limits         104         71-131         71-131	1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Naphthalene         ND         1.0         EPA 8260C         10-11-16         10-11-16           1,2,3-Trichlorobenzene         ND         0.20         EPA 8260C         10-11-16         10-11-16           Surrogate:         Percent Recovery         Control Limits         Image: Control Limits	1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2,3-TrichlorobenzeneND0.20EPA 8260C10-11-1610-11-16Surrogate:Percent RecoveryControl LimitsDibromofluoromethane10471-131	Hexachlorobutadiene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Surrogate:Percent RecoveryControl LimitsDibromofluoromethane10471-131	Naphthalene	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Dibromofluoromethane 104 71-131	1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Dibromofluoromethane 104 71-131	Surrogate:	Percent Recovery	Control Limits				
Toluene-d8 102 80-127	-	104	71-131				
	Toluene-d8	102	80-127				
4-Bromofluorobenzene 100 80-125	4-Bromofluorobenzene	100	80-125				

VOLATILES EPA 8260C page 2 of 2



#### VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Water Units: ug/L

	<b>-</b> <i>v</i>	501		Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1011W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Acetone	ND	5.0	EPA 8260C	10-11-16	10-11-16	
lodomethane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-11-16	10-11-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	5.0	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Chloroform	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Benzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	1.0	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-11-16	10-11-16	



# VOLATILES by EPA 8260C METHOD BLANK QUALITY CONTROL page 2 of 2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1011W2		<b>EDA 00000</b>	40.44.40	40.44.40	
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
2-Hexanone	ND	2.0	EPA 8260C	10-11-16	10-11-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Ethylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
m,p-Xylene	ND	0.40	EPA 8260C	10-11-16	10-11-16	
o-Xylene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Styrene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Bromoform	ND	1.0	EPA 8260C	10-11-16	10-11-16	
Isopropylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Bromobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Naphthalene	ND	1.0	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits		10-11-10	10-11-10	
Dibromofluoromethane	102	71-131				
Toluene-d8	99	80-127				
4-Bromofluorobenzene						
4-DIVITIONUORODENZENE	95	80-125				



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## VOLATILES by EPA 8260C SB/SBD QUALITY CONTROL

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB10 <sup>-</sup>	11W2								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.76	9.64	10.0	10.0	98	96	62-132	1	20	
Benzene	9.37	9.66	10.0	10.0	94	97	75-121	3	15	
Trichloroethene	8.72	8.92	10.0	10.0	87	89	65-115	2	15	
Toluene	8.96	9.43	10.0	10.0	90	94	78-120	5	15	
Chlorobenzene	8.98	9.32	10.0	10.0	90	93	77-118	4	15	
Surrogate:										
Dibromofluoromethane					104	102	71-131			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					97	98	80-125			



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#### SEMIVOLATILES EPA 8270D/SIM page 1 of 2

Matrix: Water Units: ug/L

Units: ug/L				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16					
Laboratory ID:	10-081-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Pyridine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Phenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Aniline	ND	5.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzyl alcohol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachloroethane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Nitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Isophorone	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitrophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Naphthalene	0.25	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4-Chloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachlorobutadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylnaphthalene	0.23	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	0.13	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chloronaphthalene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Dimethylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	



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SEMIVOLATILES	EPA 8270D/SIM

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Analyta	Decult	DOI	Motherd	Date	Date	Elear-
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16					
Laboratory ID:	10-081-01	5.0		40.40.40	10-13-16	
2,4-Dinitrophenol	ND	5.0	EPA 8270D	10-13-16		
Acenaphthene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4-Nitrophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Dibenzofuran	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Diethylphthalate	1.3	1.0	EPA 8270D	10-13-16	10-13-16	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Fluorene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Pentachlorophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Phenanthrene	0.11	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Anthracene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Carbazole	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Di-n-butylphthalate	9.3	1.0	EPA 8270D	10-13-16	10-13-16	
Fluoranthene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Benzidine	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Pyrene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Butylbenzylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo[a]anthracene	0.024	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Chrysene	0.012	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
bis(2-Ethylhexyl)phthalate	5.7	1.0	EPA 8270D	10-13-16	10-13-16	
Di-n-octylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo[b]fluoranthene	0.082	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo(j,k)fluoranthene	0.023	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	37	19 - 87				
Phenol-d6	39	10 - 83				
Nitrobenzene-d5	65	35 - 112				
2-Fluorobiphenyl	59	45 - 112				
2,4,6-Tribromophenol	39	37 - 115				
Terphenyl-d14	61	49 - 126				



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#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Water Units: ug/L

Units: ug/L				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1013W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Pyridine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Phenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Aniline	ND	5.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzyl alcohol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachloroethane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Nitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Isophorone	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitrophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Naphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4-Chloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachlorobutadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chloronaphthalene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Dimethylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
		1.0		10 10-10	10 10-10	



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#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 2 of 2

Aboratory ID:         MB1013W1           2,4-Dinitrophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           Vecnaphthene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Vecnaphthene         ND         1.0         EPA 8270D         10-13-16         10-13-16           2,4-Dinitrotoluene         ND         1.0         EPA 8270D         10-13-16         10-13-16           3,2,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           2,3,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           1,2,3,6-Tetrachlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           1,0,0,0         EPA 8270D         10-13-16         10-13-16         10-13-16         10-13-16           1,0,0	Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
PA-Dinitrophenol         ND         5.0         EPA 8270D         10.13-16         10.13-16           Acenaphthene         ND         0.10         EPA 8270D/SIM         10.13-16         10.13-16           Acenaphthene         ND         1.0         EPA 8270D         10.13-16         10.13-16           A-Dinitrotoluene         ND         1.0         EPA 8270D         10.13-16         10.13-16           2,3,4,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10.13-16         10.13-16           2,3,4,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10.13-16         10.13-16           Dichtylphthalate         ND         1.0         EPA 8270D         10.13-16         10.13-16           Uchtylphthalate         ND         1.0         EPA 8270D         10.13-16         10.13-16           Uchtylphthylphthalate         ND         1.0         EPA 8270D         10		MD1012\\//1			•	-	
Acenaphiene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           L-Nitrophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           Jblenzofuran         ND         1.0         EPA 8270D         10-13-16         10-13-16           JS, 5.6 Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           Z3, 4.6 Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           Chlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Chlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Flororene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Flororene         ND         1.0         EPA 8270D         10-13-16 <td< td=""><td></td><td></td><td>5.0</td><td></td><td>10 12 16</td><td>10 12 16</td><td></td></td<>			5.0		10 12 16	10 12 16	
Hitrophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           2,4-Dinitrotoluene         ND         1.0         EPA 8270D         10-13-16         10-13-16           2,3,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           2,3,4,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           2,3,4,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           10-thyphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Chlorophenyl-phenylsther         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Chlorophenyl-phenylsther         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Nitrosodiphenylsther         ND         1.0         EPA 8270D         10-13-16         10-13-16           12-Diphenyltrydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           12-Diphenyltrydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           12-Ditrydphthalate         ND         1.0 <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-						
A-Dimitrotoluene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Dibenzofuran         ND         1.0         EPA 8270D         10-13-16         10-13-16           3.3, 6.5 Tetrachiorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           3.3, 6.5 Tetrachiorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           1.23, 4.6 Tetrachiorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           1.0 Cipting A-Dimensional International Internatinternational Inter	-						
Dibenzofuran         ND         1.0         EPA 8270D         10-13-16         10-13-16           2,3,5,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           2,3,4,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           Diethylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           L-Chlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           L-Chlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           F-Dintro-2-methylphenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           I-Pornophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           I-Pornophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           I-Pornophenyl-phenylether         ND         0.10         EPA 8270D         10-13-16         10-13-16           I-Pornophenyl-phenylether         ND         0.10         EPA 8270D         10-13-16         10-13-16           Penaathrene         ND	-						
ND         1.0         EPA 8270D         10-13-16         10-13-16           1,3,4,6-Tetrachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           1,2,4,6-Tetrachlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Chlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Vitroanilline         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Vitrosodiphenyl-phenylether         ND         0.10         EPA 8270D         10-13-16         10-13-16           1-Vitrosodiphenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-2-Diphenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-exachlorophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           2-biphenyl-phenylether         ND         0.10         EPA 8270D         10-13-16         10-13-16           4enachlorophenol         ND         0.10         EPA 8270D         10-13-16         10-13-16           2-brachylethidate         ND         1.0							
ND         1.0         EPA 8270D         10-13-16         10-13-16           Diethylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Chlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Florene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Florene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Florene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Florene         ND         1.0         EPA 8270D         10-13-16         10-13-16           L2-Diphenylhydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Heromophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Pentachlorophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           Pentachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           Pentachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16							
Diethylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Chlorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Voltrophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Uorene         ND         0.10         EPA 8270D         10-13-16         10-13-16           1-Querne         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-Querne         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-2-Diphenylhydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           1-2-Chonophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           +Bromophenzene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Verachlorobenzene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Antracene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Orbutylphthalate         ND         1.0         EPA 8270D         10	-						
L-Chorophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           L-Nitroanline         ND         0.10         EPA 8270D         10-13-16         10-13-16           Lourene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Loorene         ND         5.0         EPA 8270D         10-13-16         10-13-16           Locrente         ND         1.0         EPA 8270D         10-13-16         10-13-16           L-Diphenylhydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           L-Scholenyhylydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Veratophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           Veratophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>							
ND         1.0         EPA 8270D         10-13-16         10-13-16           Fluorene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Fluorene         ND         5.0         EPA 8270D         10-13-16         10-13-16           Fluorene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Fluorene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Floorenpheryl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Floorenpheryl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Floorenpheryl-phenylether         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Penanthrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Anthracene         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Or-notylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Floorenthene         ND         1.0         EPA 8270D         10-13-16         10-13-16							
Fluorene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           1,6-Dinitro-2-methylphenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           1,6-Dinitro-2-methylphenylamine         ND         1.0         EPA 8270D         10-13-16         10-13-16           1,2-Diphenylhydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           1,2-Diphenylphenylenther         ND         1.0         EPA 8270D         10-13-16         10-13-16           1exachlorobenzene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Pentachlorophenol         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Anthracene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Sarbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Din-butylphthalate         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Barzidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Sizebazdiphetxyladipate         ND         1.0         EPA 8270D							
I,6-Dinitro-2-methylphenol       ND       5.0       EPA 8270D       10-13-16       10-13-16         I-Nitrosodiphenylamine       ND       1.0       EPA 8270D       10-13-16       10-13-16         J-Diphenylhydrazine       ND       1.0       EPA 8270D       10-13-16       10-13-16         J-Diphenylhylphenylether       ND       1.0       EPA 8270D       10-13-16       10-13-16         Jeromophenyl-phenylether       ND       1.0       EPA 8270D       10-13-16       10-13-16         Penachlorophenol       ND       5.0       EPA 8270D/SIM       10-13-16       10-13-16         Phenanthrene       ND       0.10       EPA 8270D/SIM       10-13-16       10-13-16         Ohra-butylphthalate       ND       1.0       EPA 8270D       10-13-16       10-13-16         Oin-butylphthalate       ND       1.0       EPA 8270D       10-13-16       10-13-16         Uoranthene       ND       0.10       EPA 8270D/SIM       10-13-16       10-13-16         Sutylbenzylphthalate       ND       1.0       EPA 8270D       10-13-16       10-13-16         Sutylbenzylphthalate       ND       1.0       EPA 8270D       10-13-16       10-13-16         Sutylbenzylphthalate							
Nitrosodiphenylamine         ND         1.0         EPA 8270D         10-13-16         10-13-16           1,2-Diphenylhydrazine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Hormophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Vexachlorophenol         ND         1.0         EPA 8270D         10-13-16         10-13-16           Pentachlorophenol         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Anthracene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Choranthene         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Sortiphexylphthalate         ND         0.10         EPA 8270D         10-13-16         10-13-16           Sortiphexylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Sortiphexylphthalate         ND         1.0         EPA 8270D							
I,2-Diphenylhydrazine       ND       1.0       EPA 8270D       10-13-16       10-13-16         I-Bromophenyl-phenylether       ND       1.0       EPA 8270D       10-13-16       10-13-16         Verachlorobenzene       ND       1.0       EPA 8270D       10-13-16       10-13-16         Verachlorophenol       ND       5.0       EPA 8270D       10-13-16       10-13-16         Pentachlorophenol       ND       0.10       EPA 8270D/SIM       10-13-16       10-13-16         Pentanthrene       ND       0.10       EPA 8270D/SIM       10-13-16       10-13-16         Carbazole       ND       1.0       EPA 8270D       10-13-16       10-13-16         Carbazole       ND       1.0       EPA 8270D       10-13-16       10-13-16         Carbazole       ND       1.0       EPA 8270D       10-13-16       10-13-16         Carbazole       ND       0.10       EPA 8270D       10-13-16       10-13-16         Serzethylkeyladiate       ND       1.0       EPA 8270D       10-13-16       10-13-16         Barzolajathracene       ND       1.0       EPA 8270D       10-13-16       10-13-16         Serzethylkeyladipate       ND       0.010       EPA 8270D							
H-Bromophenyl-phenylether         ND         1.0         EPA 8270D         10-13-16         10-13-16           Verschlorobenzene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Pentachlorophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           Phenanthrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Anthracene         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Choranthene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Choranthene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Starbidine         ND         0.10         EPA 8270D         10-13-16         10-13-16           Starbidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Starbidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Starbidine         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16							
Hexachlorobenzene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Pentachlorophenol         ND         5.0         EPA 8270D/SIM         10-13-16         10-13-16           Phenanthrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Anthracene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Senzidine         ND         0.10         EPA 8270D         10-13-16         10-13-16           Senzidine         ND         0.10         EPA 8270D         10-13-16         10-13-16           Senzidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Sutylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Solg-Ethylkexylopththalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Solg-Ethylkexyliphthalate         ND         0.010         EPA 8270D/SIM         10-13-16							
Pentachlorophenol         ND         5.0         EPA 8270D         10-13-16         10-13-16           Phenanthrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Anthracene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Din-butylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Din-butylphthalate         ND         0.10         EPA 8270D         10-13-16         10-13-16           Sanzdine         ND         0.10         EPA 8270D         10-13-16         10-13-16           Sanzdine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Sanzolajine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Sanzolajanthracene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Sanzolajanthracene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Sanzolajanthracene         ND         0.010         EPA 8270D/SIM         10-13-16 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Phenanthrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Anthracene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Din-butylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Cloranthene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Benzidine         ND         5.0         EPA 8270D/SIM         10-13-16         10-13-16           Barylenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Banzo[a]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16							
Nh         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Carbazole         ND         1.0         EPA 8270D         10-13-16         10-13-16           Din-butylphthalate         ND         0.10         EPA 8270D         10-13-16         10-13-16           Senzidine         ND         5.0         EPA 8270D         10-13-16         10-13-16           Senzidine         ND         0.10         EPA 8270D         10-13-16         10-13-16           Syrpene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrpene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrpene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrpene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Syrpene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Chrysene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Chrysene         ND         0	-						
ND         1.0         EPA 8270D         10-13-16         10-13-16           Din-butylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Fluoranthene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Benzidine         ND         5.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Syrene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Syrene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Syrene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Syrene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Syrene         ND         0.010 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Din-butylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Fluoranthene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Banzidine         ND         5.0         EPA 8270D/SIM         10-13-16         10-13-16           Pyrene         ND         0.10         EPA 8270D         10-13-16         10-13-16           Baytybenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Bis-2-Ethylhexyladipate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Say-Dichlorobenzidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Say-Dichlorobenzidine         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Banzo[a]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Chrysene         ND         0.010         EPA 8270D         10-13-16         10-13-16           Ohn-octylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Benzo[a]kylfluoranthene         ND         0.010         EPA 8270D/SIM<							
Fluoranthene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Benzidine         ND         5.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Butylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Butylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Syrene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Banzo[ajanthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Chrysene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Di-n-octylphthalate         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Senzo[jhfluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16							
Banzidine         ND         5.0         EPA 8270D         10-13-16         10-13-16           Dyrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Butylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Butylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Barzo[ajanthracene         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Chrysene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Ohnocklphthalate         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Ohnocklphthalate         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Ohnocklphthalate         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Ohnocklphthalate         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[ajhtynoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[ajhtynoranthene         ND         0.010         EPA 8270D							
Pyrene         ND         0.10         EPA 8270D/SIM         10-13-16         10-13-16           Butylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Butylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Batylbenzylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Batylbenzylphthalate         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Batylbexylphthalate         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Batylbexylphthalate         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Chrysene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Din-octylphthalate         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Banzo[jfluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Banzo[jfluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Banzo[jfluoranthene         ND         0.010							
Automatical Structure         ND         1.0         EPA 8270D         10-13-16         10-13-16           bis-2-Ethylhexyladipate         ND         1.0         EPA 8270D         10-13-16         10-13-16           8,3'-Dichlorobenzidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           8,3'-Dichlorobenzidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           8,3'-Dichlorobenzidine         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           8,a'-Dichlorobenzidine         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Banzo[a]anthracene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Chrysene         ND         1.0         EPA 8270D         10-13-16         10-13-16           Di-n-octylphthalate         ND         1.0         EPA 8270D/SIM         10-13-16         10-13-16           Banzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Obibenz[a,h]anthracene         ND         <							
bis-2-Ethylhexyladipate         ND         1.0         EPA 8270D         10-13-16         10-13-16           3,3'-Dichlorobenzidine         ND         1.0         EPA 8270D         10-13-16         10-13-16           Benzo[a]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Chrysene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Di-noctylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Oi-noctylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Benzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010	Pyrene						
ND         1.0         EPA 8270D         10-13-16         10-13-16           Benzo[a]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Chrysene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dis(2-Ethylhexyl)phthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Dis(2-Ethylhexyl)phthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Di-n-octylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Di-n-octylphthalate         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits							
Benzo[a]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Chrysene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           bis(2-Ethylhexyl)phthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Di-n-octylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Benzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[g,h,i]perylene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           bis(2-Ethylhexyl)phthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Di-n-octylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Benzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[j,k)fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits	3,3'-Dichlorobenzidine	ND		EPA 8270D	10-13-16	10-13-16	
Dis(2-Ethylhexyl)phthalate       ND       1.0       EPA 8270D       10-13-16       10-13-16         Di-n-octylphthalate       ND       1.0       EPA 8270D       10-13-16       10-13-16         Benzo[b]fluoranthene       ND       0.010       EPA 8270D/SIM       10-13-16       10-13-16         Benzo[b]fluoranthene       ND       0.010       EPA 8270D/SIM       10-13-16       10-13-16         Benzo[a]pyrene       ND       0.010       EPA 8270D/SIM       10-13-16       10-13-16         Benzo[a]pyrene       ND       0.010       EPA 8270D/SIM       10-13-16       10-13-16         Benzo[a,h]anthracene       ND       0.010       EPA 8270D/SIM       10-13-16       10-13-16         Dibenz[a,h]anthracene       ND       0.010       EPA 8270D/SIM       10-13-16       10-13-16         Benzo[g,h,i]perylene       ND       0.010       EPA 8270D/SIM       10-13-16       10-13-16         Surrogate:       Percent Recovery       Control Limits       2-Fluorophenol       50       19 - 87       2-Fluorophenol       50       19 - 87         Phenol-d6       38       10 - 83       38       10 - 83       37 - 112       2-Fluorobiphenyl       75       45 - 112       2-Fluorobiphenyl       53	Benzo[a]anthracene			EPA 8270D/SIM	10-13-16	10-13-16	
Di-n-octylphthalate         ND         1.0         EPA 8270D         10-13-16         10-13-16           Benzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[i,k)fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Indeno[1,2,3-cd]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         2-Fluorophenol         50         19 - 87           Phenol-d6         38         10 - 83         10 - 83         10 - 83           Vitrobenzene-d5         79         35 - 112 <td>Chrysene</td> <td>ND</td> <td></td> <td>EPA 8270D/SIM</td> <td>10-13-16</td> <td>10-13-16</td> <td></td>	Chrysene	ND		EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[b]fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo(j,k)fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Indeno[1,2,3-cd]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[g,h,i]perylene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         10-13-16         10-13-16           Phenol-d6         38         10 - 83         10 - 83         10 - 83         10 - 13-16           Vitrobenzene-d5         79         35 - 112	bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo(j,k)fluoranthene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Indeno[1,2,3-cd]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[g,h,i]perylene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         10-13-16         10-13-16           Surrogate:         90         19 - 87         19-87         10-13-16         10-13-16           Phenol-d6         38         10 - 83         10-83         10-83         10-13-16         10-13-16           2-Fluorobiphenyl         75         45 - 112         2,4,6-Tribrom	Di-n-octylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo[a]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           indeno[1,2,3-cd]pyrene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[g,h,i]perylene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         10-13-16         10-13-16           Surroghenol         50         19 - 87         19 - 87         10 - 83           Phenol-d6         38         10 - 83         10 - 83           Nitrobenzene-d5         79         35 - 112         2-Fluorobiphenyl         75           2-Fluorobiphenyl         75         45 - 112         2-4,6-Tribromophenol         85	Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[g,h,i]perylene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         10-13-16         10-13-16           Surrogate:         90         19 - 87         19-87         19-87           Phenol-d6         38         10 - 83         10-13-16         10-13-16           Vitrobenzene-d5         79         35 - 112         10-13-16         10-13-16           2-Fluorobiphenyl         75         45 - 112         10-13-16 </td <td>Benzo(j,k)fluoranthene</td> <td>ND</td> <td>0.010</td> <td>EPA 8270D/SIM</td> <td>10-13-16</td> <td>10-13-16</td> <td></td>	Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Benzo[g,h,i]perylene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         10-13-16         10-13-16           Surrogate:         9         35         19 - 87         10-13-16         10-13-16           Phenol-d6         38         10 - 83         10-83         10-83         10-83         10-83           Vitrobenzene-d5         79         35 - 112         2-Fluorobiphenyl         75         45 - 112         2-Fluorobiphenol         85         37 - 115	Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene         ND         0.010         EPA 8270D/SIM         10-13-16         10-13-16           Surrogate:         Percent Recovery         Control Limits         2         2         2         2         2         2         19 - 87         2         2         2         2         2         38         10 - 83         2         2         2         2         2         2         2         2         2         2         2         2         45 - 112         2         2         45 - 37 - 115         37 - 115	Indeno[1,2,3-cd]pyrene	ND			10-13-16	10-13-16	
Surrogate:         Percent Recovery         Control Limits           2-Fluorophenol         50         19 - 87           Phenol-d6         38         10 - 83           Nitrobenzene-d5         79         35 - 112           2-Fluorobiphenyl         75         45 - 112           2,4,6-Tribromophenol         85         37 - 115	Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	10-13-16		
2-Fluorophenol       50       19 - 87         Phenol-d6       38       10 - 83         Nitrobenzene-d5       79       35 - 112         2-Fluorobiphenyl       75       45 - 112         2,4,6-Tribromophenol       85       37 - 115	Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Phenol         38         10 - 83           Nitrobenzene-d5         79         35 - 112           2-Fluorobiphenyl         75         45 - 112           2,4,6-Tribromophenol         85         37 - 115	Surrogate:	Percent Recovery	Control Limits				
Nitrobenzene-d5         79         35 - 112           2-Fluorobiphenyl         75         45 - 112           2,4,6-Tribromophenol         85         37 - 115	2-Fluorophenol	50	19 - 87				
2-Fluorobiphenyl 75 45 - 112 2,4,6-Tribromophenol 85 37 - 115	Phenol-d6	38	10 - 83				
2,4,6-Tribromophenol 85 37 - 115	Nitrobenzene-d5	79	35 - 112				
	2-Fluorobiphenyl	75					
Formhonyl d14 95 40 126	2,4,6-Tribromophenol	85	37 - 115				
ειρπεπιγι-α 14 δο 49 - 120	Terphenyl-d14	85	49 - 126				



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#### SEMIVOLATILES EPA 8270D/SIM SB/SBD QUALITY CONTROL

Matrix: Water Units: ug/L

					Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB10	13W1								
	SB	SBD	SB	SBD	SB	SBD				
Phenol	17.1	17.4	40.0	40.0	43	44	25 - 70	2	32	
2-Chlorophenol	30.8	31.8	40.0	40.0	77	80	55 - 99	3	27	
1,4-Dichlorobenzene	14.5	14.5	20.0	20.0	73	73	48 - 93	0	30	
n-Nitroso-di-n-propylamine	15.3	15.4	20.0	20.0	77	77	47 - 108	1	26	
1,2,4-Trichlorobenzene	14.8	15.1	20.0	20.0	74	76	52 - 94	2	24	
4-Chloro-3-methylphenol	32.1	32.7	40.0	40.0	80	82	67 - 108	2	16	
Acenaphthene	16.2	15.5	20.0	20.0	81	78	50 - 113	4	17	
4-Nitrophenol	16.9	16.4	40.0	40.0	42	41	29 - 78	3	37	
2,4-Dinitrotoluene	14.8	14.2	20.0	20.0	74	71	64 - 107	4	19	
Pentachlorophenol	26.5	27.3	40.0	40.0	66	68	35 - 116	3	25	
Pyrene	17.0	16.8	20.0	20.0	85	84	61 - 112	1	15	
Surrogate:										
2-Fluorophenol					56	57	19 - 87			
Phenol-d6					43	44	10 - 83			
Nitrobenzene-d5					84	86	35 - 112			
2-Fluorobiphenyl					80	79	45 - 112			
2,4,6-Tribromophenol					86	87	37 - 115			
Terphenyl-d14					89	86	49 - 126			



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#### PCBs EPA 8082A

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-3-16					
Laboratory ID:	10-081-01					
Aroclor 1016	ND	0.045	EPA 8082A	10-10-16	10-10-16	
Aroclor 1221	ND	0.045	EPA 8082A	10-10-16	10-10-16	
Aroclor 1232	ND	0.045	EPA 8082A	10-10-16	10-10-16	
Aroclor 1242	ND	0.045	EPA 8082A	10-10-16	10-10-16	
Aroclor 1248	ND	0.045	EPA 8082A	10-10-16	10-10-16	
Aroclor 1254	ND	0.045	EPA 8082A	10-10-16	10-10-16	
Aroclor 1260	ND	0.045	EPA 8082A	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	79	38-137				



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#### PCBs EPA 8082A QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1010W1					
Aroclor 1016	ND	0.020	EPA 8082A	10-10-16	10-10-16	
Aroclor 1221	ND	0.020	EPA 8082A	10-10-16	10-10-16	
Aroclor 1232	ND	0.020	EPA 8082A	10-10-16	10-10-16	
Aroclor 1242	ND	0.020	EPA 8082A	10-10-16	10-10-16	
Aroclor 1248	ND	0.020	EPA 8082A	10-10-16	10-10-16	
Aroclor 1254	ND	0.020	EPA 8082A	10-10-16	10-10-16	
Aroclor 1260	ND	0.020	EPA 8082A	10-10-16	10-10-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	84	38-137				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB10	10W1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.382	0.406	0.500	0.500	N/A	76	81	68-114	6	12	
Surrogate:											
DCB						74	86	38-137			



#### DISSOLVED METALS EPA 200.8/7470A

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	10-081-01 <b>H-3-16</b>					
Antimony	18	5.0	200.8	10-10-16	10-12-16	
Arsenic	3.3	3.0	200.8	10-10-16	10-12-16	
Beryllium	ND	10	200.8	10-10-16	10-12-16	
Cadmium	ND	4.0	200.8	10-10-16	10-12-16	
Chromium	ND	10	200.8	10-10-16	10-12-16	
Copper	ND	10	200.8	10-10-16	10-12-16	
Lead	2.5	1.0	200.8	10-10-16	10-12-16	
Mercury	ND	0.50	7470A	10-10-16	10-11-16	
Nickel	ND	20	200.8	10-10-16	10-12-16	
Selenium	ND	5.0	200.8	10-10-16	10-12-16	
Silver	ND	10	200.8	10-10-16	10-12-16	
Thallium	ND	5.0	200.8	10-10-16	10-12-16	
Zinc	ND	25	200.8	10-10-16	10-12-16	



#### DISSOLVED METALS EPA 200.8 METHOD BLANK QUALITY CONTROL

Date Filtered:	10-10-16
Date Analyzed:	10-12-16

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: MB1010F1

Analyte	Method	Result	PQL
Antimony	200.8	ND	5.0
Arsenic	200.8	ND	3.0
Beryllium	200.8	ND	10
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Copper	200.8	ND	10
Lead	200.8	ND	1.0
Nickel	200.8	ND	20
Selenium	200.8	ND	5.0
Silver	200.8	ND	10
Thallium	200.8	ND	5.0
Zinc	200.8	ND	25



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#### DISSOLVED MERCURY EPA 7470A METHOD BLANK QUALITY CONTROL

Date Filtered:	10-10-16
Date Analyzed:	10-11-16

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: MB1010F1

Analyte	Method	Result	PQL
Mercury	7470A	ND	0.50



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#### DISSOLVED METALS EPA 200.8 DUPLICATE QUALITY CONTROL

Date Filtered:	10-10-16
Date Analyzed:	10-12-16

Matrix:	Water	
Units:	ug/L (ppb)	

Lab ID: 10-081-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	17.7	16.3	8	5.0	
Arsenic	3.33	3.59	8	3.0	
Beryllium	ND	ND	NA	10	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	ND	NA	10	
Lead	2.46	2.47	0	1.0	
Nickel	ND	ND	NA	20	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	10	
Thallium	ND	ND	NA	5.0	
Zinc	ND	ND	NA	25	



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## DISSOLVED MERCURY EPA 7470A DUPLICATE QUALITY CONTROL

Date Filtered:	10-10-16
Date Analyzed:	10-11-16

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 10-051-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.50	



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## **DISSOLVED METALS** EPA 200.8 **MS/MSD QUALITY CONTROL**

Date Filtered:	10-10-16
Date Analyzed:	10-12-16

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 10-081-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	200	213	98	231	107	8	
Arsenic	200	207	102	224	110	8	
Beryllium	200	200	100	217	109	9	
Cadmium	200	199	99	213	107	7	
Chromium	200	193	96	207	104	7	
Copper	200	194	97	208	104	7	
Lead	200	189	93	205	101	8	
Nickel	200	188	94	203	102	8	
Selenium	200	202	101	230	115	13	
Silver	200	182	91	202	101	10	
Thallium	200	183	92	197	98	7	
Zinc	200	211	106	228	114	8	

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## DISSOLVED MERCURY EPA 7470A MS/MSD QUALITY CONTROL

Date Filtered:	10-10-16
Date Analyzed:	10-11-16

Matrix:	Water
Units:	ug/L (ppb)

Lab ID: 10-051-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Mercury	12.5	13.5	108	12.7	102	6	



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#### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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Reviewed/Date	Received	Relinquished	Received	Relinquished	Received R May	Relinquished	Signature	Phone: (425) 883-3881 • www.onsite-env.com Company: WWWEX Project Number: Sampled by: Marad Sample Identification Lab ID Sample Identification 1 H-3-16 1 H-3-16	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052	Environmental Inc.
Reviewed/Date			OG NYTA	INWOVER	FARNIOVER	INNOVER	Company	(Check One) □ Same Day □ 1 Day □ 2 Days □ 3 Days X Standard (7 Days) (TPH analysis 5 Days) (TPH analysis 5 Days) · · · · · · · · · · · · · · · · · · ·	Turnaround Request (in working days)	Chain of
			12/8/11e 1020	10/4/1 10:20	10/0/16 0215	5120 91/8/01	Date Time	Image: Number of Containers         Image: Number of Containers <td>Laboratory Number:</td> <td>Chain of Custody</td>	Laboratory Number:	Chain of Custody
Chromatograms with final report	Data Package: Standard  Level III				bused on HCID	* follow up w/ app	Comments/Special Instructions	EDB EPA 8011 (Waters Only)         EDB EPA 8011 (Waters Only)         Semivolatiles 8270D/SIM (with low-level PAHs)         PAHs 8270D/SIM (low-level)         PAHs 8270D/SIM (low-level)         PCBs 8082A         Organochlorine Pesticides 8081B         Organophosphorus Pesticides 8270D/SIM         Chlorinated Acid Herbicides 8151A         Total RCRA Metals         Total MTCA Metals	'n	
Electronic Data Deliverables (EDDs)					Ø	appropriate analysis		Image: Solution of the field of the fie	10-081	Page of



October 19, 2016

Glenn Hayman INNOVEX Environmental Mgt., Inc. 16310 NE 80th St., Suite 300 Redmond, WA 98052

Re: Analytical Data for Project 31008 Laboratory Reference No. 1610-084

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 10, 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



#### **Case Narrative**

Samples were collected on October 8, 2016 and received by the laboratory on October 10, 2016. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ 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/BTEX and Volatiles EPA 8260C Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

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.



#### **NWTPH-HCID**

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-5-16-3	FQL	Wethou	Flepaleu	Anaryzeu	Tiags
Laboratory ID:	10-084-01					
Gasoline Range Organics	<u>ND</u>	23	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	57	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits		10-11-10	10-11-10	
o-Terphenyl	119	50-150				
0-reiphenyr	115	50-150				
Client ID:	H-5-16-6					
Laboratory ID:	10-084-02					
Gasoline Range Organics	ND	22	NWTPH-HCID	10-11-16	10-11-16	
<b>Diesel Range Organics</b>	ND	56	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	116	50-150				
Client ID:	H-5-16-8.5					
Laboratory ID: Gasoline Range Organics	10-084-03 ND	29	NWTPH-HCID	10-11-16	10-11-16	
	ND	29 72	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics Lube Oil Range Organics	ND	140				
Surrogate:	Percent Recovery	Control Limits	NWTPH-HCID	10-11-16	10-11-16	
o-Terphenyl	111	50-150				
0-Terphenyi	111	50-150				
Client ID:	H-5-16-11					
Laboratory ID:	10-084-04					
Gasoline Range Organics	ND	29	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	73	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	150	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	106	50-150				
Client ID:	H-5-16-13.5					
Laboratory ID:	10-084-05					
Gasoline Range Organics	ND	28	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	69	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	140	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	111	50-150				



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#### **NWTPH-HCID**

Matrix: Soil Units: mg/Kg (ppm)

Analuta	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Analyte Client ID:	H-5-16-16	FQL	Wethou	Flepaleu	Anaryzeu	Flags
Laboratory ID:	10-084-06					
Gasoline Range Organics	ND	00	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	23 58	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND		NWTPH-HCID			
Surrogate:	Percent Recovery	120 Control Limits		10-11-16	10-11-16	
o-Terphenyl	116	50-150				
0-Terphenyi	110	50-150				
Client ID:	H-5-16-18.5					
Laboratory ID:	10-084-07					
Gasoline Range Organics	ND	23	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	57	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	114	50-150				
Client ID:	H-4-16-3					
Laboratory ID:	10-084-12					
Gasoline Range Organics	ND	22	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	55	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	108	50-150				
Client ID:	H-4-16-6					
Laboratory ID:	10-084-13					
Gasoline Range Organics	ND	23	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	57	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	106	50-150				
Client ID:	H-4-16-8.5					
Laboratory ID:	10-084-14					
Gasoline Range Organics	ND	27	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	67	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	130	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	104	50-150				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

#### **NWTPH-HCID**

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-4-16-11				7	1
Laboratory ID:	10-084-15					
Gasoline Range Organics	ND	26	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	66	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	130	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	89	50-150				
Client ID:	H-4-16-16					
Laboratory ID:	10-084-16					
Gasoline Range Organics	Detected	23	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	56	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	111	50-150				
Client ID:	H-4-16-18.5					
Laboratory ID:	10-084-17					
Gasoline Range Organics	Detected	23	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	110	NWTPH-HCID	10-11-16	10-11-16	U1
Lube Oil Range Organics	ND	120	NWTPH-HCID	10-11-16	10-11-16	01
Surrogate:	Percent Recovery	Control Limits		10 11 10	10 11 10	
o-Terphenyl	112	50-150				
o reipiloliji						
Client ID:	H-4-16-19.9					
Laboratory ID:	10-084-18					
Gasoline Range Organics	ND	23	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	58	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				
Client ID:	H-4-16-25.4					
Laboratory ID:	10-084-19					
Gasoline Range Organics	ND	24	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	60	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	108	50-150				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

## NWTPH-HCID QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

oo				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1011S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	10-11-16	10-11-16	
Diesel Range Organics	ND	50	NWTPH-HCID	10-11-16	10-11-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				



# NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-4-16-16					
Laboratory ID:	10-084-16					
Gasoline	69	23	NWTPH-Gx	10-17-16	10-17-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	63-124				
Client ID:	H-4-16-18.5					
Laboratory ID:	10-084-17					
Benzene	0.13	0.020	EPA 8021B	10-17-16	10-18-16	
Toluene	0.074	0.058	EPA 8021B	10-17-16	10-18-16	
Ethyl Benzene	0.76	0.058	EPA 8021B	10-17-16	10-18-16	
m,p-Xylene	1.9	0.058	EPA 8021B	10-17-16	10-18-16	
o-Xylene	0.38	0.058	EPA 8021B	10-17-16	10-18-16	
Gasoline	30	5.8	NWTPH-Gx	10-17-16	10-18-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	111	63-124				



#### NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Soil Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1017S1					
Benzene	ND	0.020	EPA 8021B	10-17-16	10-17-16	
Toluene	ND	0.050	EPA 8021B	10-17-16	10-17-16	
Ethyl Benzene	ND	0.050	EPA 8021B	10-17-16	10-17-16	
m,p-Xylene	ND	0.050	EPA 8021B	10-17-16	10-17-16	
o-Xylene	ND	0.050	EPA 8021B	10-17-16	10-17-16	
Gasoline	ND	5.0	NWTPH-Gx	10-17-16	10-17-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	63-124				

					Source	Per	rcent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
DUPLICATE											
Laboratory ID:	10-08	34-17									
	ORIG	DUP									
Benzene	0.111	0.112	NA	NA		1	٨N	NA	1	30	
Toluene	0.0634	0.0510	NA	NA		1	٨٧	NA	22	30	
Ethyl Benzene	0.652	0.645	NA	NA		1	٨٧	NA	1	30	
m,p-Xylene	1.65	1.62	NA	NA		1	٨٧	NA	2	30	
o-Xylene	0.326	0.316	NA	NA		1	٨٧	NA	3	30	
Gasoline	25.2	23.3	NA	NA		1	NA	NA	8	30	
Surrogate:											
Fluorobenzene						111	111	63-124			
SPIKE BLANKS											
Laboratory ID:	SB10	17S1									
	SB	SBD	SB	SBD		SB	SBD				
Benzene	0.914	0.902	1.00	1.00		91	90	70-124	1	12	
Toluene	0.965	0.910	1.00	1.00		97	91	73-119	6	12	
Ethyl Benzene	0.934	0.911	1.00	1.00		93	91	74-117	2	12	
m,p-Xylene	0.949	0.885	1.00	1.00		95	89	75-117	7	13	
o-Xylene	0.929	0.907	1.00	1.00		93	91	75-116	2	12	

Surrogate:

Fluorobenzene

89 89 63-124



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## VOLATILES EPA 8260C Page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-5-16-13.5					
Laboratory ID:	10-084-05					
Dichlorodifluoromethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	0.41	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	0.41	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Acetone	ND	0.41	EPA 8260C	10-11-16	10-11-16	
lodomethane	ND	0.41	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	ND	0.41	EPA 8260C	10-11-16	10-11-16	
(trans) 1,2-Dichloroethene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	0.41	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	0.41	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Chloroform	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Benzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	0.41	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	0.41	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	0.41	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.083	EPA 8260C	10-11-16	10-11-16	



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A		501		Date	Date	
Analyte	Result H-5-16-13.5	PQL	Method	Prepared	Analyzed	Flags
Client ID:						
Laboratory ID:	10-084-05	0.000		10-11-16	10 11 10	
1,1,2-Trichloroethane	ND	0.083	EPA 8260C		10-11-16	
Tetrachloroethene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,3-Dichloropropane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
2-Hexanone	ND	0.41	EPA 8260C	10-11-16	10-11-16	
Dibromochloromethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromoethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Chlorobenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,1,1,2-Tetrachloroethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Ethylbenzene	0.089	0.083	EPA 8260C	10-11-16	10-11-16	
m,p-Xylene	ND	0.17	EPA 8260C	10-11-16	10-11-16	
o-Xylene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Styrene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Bromoform	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Isopropylbenzene	0.19	0.083	EPA 8260C	10-11-16	10-11-16	
Bromobenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,1,2,2-Tetrachloroethane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane	ND	0.083	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene	1.2	0.083	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene	0.15	0.083	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene	0.51	0.083	EPA 8260C	10-11-16	10-11-16	
1,3-Dichlorobenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
p-lsopropyltoluene	0.32	0.083	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene	2.0	0.083	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane	ND	0.41	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene	ND	0.41	EPA 8260C	10-11-16	10-11-16	
Naphthalene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichlorobenzene	ND	0.083	EPA 8260C	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits		10-11-10	10-11-10	
•						
Dibromofluoromethane	<i>93</i>	76-131				
Toluene-d8	102	80-126				
4-Bromofluorobenzene	96	60-146				

## VOLATILES EPA 8260C Page 2 of 2



## VOLATILES EPA 8260C Page 1 of 2

Matrix: Soil Units: mg/kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-4-16-16					
Laboratory ID:	10-084-16					
Dichlorodifluoromethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	0.25	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	0.25	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Acetone	ND	0.25	EPA 8260C	10-11-16	10-11-16	
lodomethane	ND	0.25	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	ND	0.25	EPA 8260C	10-11-16	10-11-16	
(trans) 1,2-Dichloroethene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	0.25	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	0.25	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Chloroform	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Benzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	0.25	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	0.25	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	0.25	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.051	EPA 8260C	10-11-16	10-11-16	



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A	Desuth	DOI		Date	Date	<b>F</b> 1
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-4-16-16					
Laboratory ID:	10-084-16	0.051		10 11 10	10 11 10	
1,1,2-Trichloroethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Tetrachloroethene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,3-Dichloropropane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
2-Hexanone	ND	0.25	EPA 8260C	10-11-16	10-11-16	
Dibromochloromethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromoethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Chlorobenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,1,1,2-Tetrachloroethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Ethylbenzene	0.55	0.051	EPA 8260C	10-11-16	10-11-16	
m,p-Xylene	1.4	0.10	EPA 8260C	10-11-16	10-11-16	
o-Xylene	0.49	0.051	EPA 8260C	10-11-16	10-11-16	
Styrene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Bromoform	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Isopropylbenzene	0.092	0.051	EPA 8260C	10-11-16	10-11-16	
Bromobenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,1,2,2-Tetrachloroethane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane	ND	0.051	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene	0.36	0.051	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene	0.56	0.051	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene	1.8	0.051	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene	0.064	0.051	EPA 8260C	10-11-16	10-11-16	
1,3-Dichlorobenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
p-lsopropyltoluene	0.053	0.051	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene	0.29	0.051	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane	ND	0.25	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene	ND	0.25	EPA 8260C	10-11-16	10-11-16	
Naphthalene	0.64	0.051	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichlorobenzene	ND	0.051	EPA 8260C	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits	LI / 02000	10 11-10	10 11-10	
Dibromofluoromethane	92	76-131				
Toluene-d8	92 95	76-131 80-126				
4-Bromofluorobenzene						
4-DromonuoroDenzene	96	60-146				

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#### VOLATILES EPA 8260C METHOD BLANK QUALITY CONTROL Page 1 of 2

Matrix: Soil Units: mg/kg

Analyta	Decult	PQL	Method	Date Prepared	Date	Flore
Analyte	Result	FQL	Method	Flepaleu	Analyzed	Flags
Laboratory ID:	MB1011S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Chloromethane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromomethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Chloroethane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Acetone	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
lodomethane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
2-Butanone	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Chloroform	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Benzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Toluene	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	



#### VOLATILES EPA 8260C METHOD BLANK QUALITY CONTROL Page 2 of 2

Analista	Decult	DOI	Mothod	Date	Date	Flogo
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1011S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
2-Hexanone	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Ethylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
m,p-Xylene	ND	0.0020	EPA 8260C	10-11-16	10-11-16	
o-Xylene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Styrene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromoform	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-11-16	10-11-16	
Naphthalene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	76-131				
Toluene-d8	103	80-126				
4-Bromofluorobenzene	103	60-146				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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# VOLATILES EPA 8260C SB/SBD QUALITY CONTROL

Matrix: Soil Units: mg/kg

					Per	cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB10	11S1								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0472	0.0496	0.0500	0.0500	94	99	68-126	5	15	
Benzene	0.0473	0.0487	0.0500	0.0500	95	97	70-121	3	15	
Trichloroethene	0.0440	0.0462	0.0500	0.0500	88	92	75-120	5	15	
Toluene	0.0459	0.0487	0.0500	0.0500	92	97	80-120	6	15	
Chlorobenzene	0.0474	0.0478	0.0500	0.0500	95	96	76-120	1	15	
Surrogate:										
Dibromofluoromethane					98	99	76-131			
Toluene-d8					98	100	80-126			
4-Bromofluorobenzene					100	101	60-146			



# SEMIVOLATILES EPA 8270D/SIM

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Matrix: Soil Units: mg/Kg

Units: mg/kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-5-16-13.5					
Laboratory ID:	10-084-05					
n-Nitrosodimethylamine	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Pyridine	ND	0.46	EPA 8270D	10-12-16	10-13-16	
Phenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Aniline	ND	0.23	EPA 8270D	10-12-16	10-13-16	
bis(2-Chloroethyl)ether	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2-Chlorophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
1,3-Dichlorobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
1,4-Dichlorobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Benzyl alcohol	ND	0.23	EPA 8270D	10-12-16	10-13-16	
1,2-Dichlorobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2-Methylphenol (o-Cresol)	ND	0.046	EPA 8270D	10-12-16	10-13-16	
bis(2-Chloroisopropyl)ether	ND	0.046	EPA 8270D	10-12-16	10-13-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.046	EPA 8270D	10-12-16	10-13-16	
n-Nitroso-di-n-propylamine	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Hexachloroethane	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Nitrobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Isophorone	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2-Nitrophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,4-Dimethylphenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
bis(2-Chloroethoxy)methane	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,4-Dichlorophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
1,2,4-Trichlorobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Naphthalene	0.039	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
4-Chloroaniline	ND	0.23	EPA 8270D	10-12-16	10-13-16	
Hexachlorobutadiene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
4-Chloro-3-methylphenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2-Methylnaphthalene	0.35	0.046	EPA 8270D	10-12-16	10-13-16	
1-Methylnaphthalene	0.037	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Hexachlorocyclopentadiene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,4,6-Trichlorophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,3-Dichloroaniline	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,4,5-Trichlorophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2-Chloronaphthalene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2-Nitroaniline	ND	0.046	EPA 8270D	10-12-16	10-13-16	
1,4-Dinitrobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Dimethylphthalate	ND	0.046	EPA 8270D	10-12-16	10-13-16	
1,3-Dinitrobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,6-Dinitrotoluene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
1,2-Dinitrobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Acenaphthylene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
3-Nitroaniline	ND	0.046	EPA 8270D	10-12-16	10-13-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-5-16-13.5		motriou	Topulou	, maryzou	. lugo
Laboratory ID:	10-084-05					
2,4-Dinitrophenol	ND	0.23	EPA 8270D	10-12-16	10-13-16	
Acenaphthene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
4-Nitrophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,4-Dinitrotoluene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Dibenzofuran	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,3,5,6-Tetrachlorophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
2,3,4,6-Tetrachlorophenol	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Diethylphthalate	ND	0.23	EPA 8270D	10-12-16	10-13-16	
4-Chlorophenyl-phenylether	ND	0.046	EPA 8270D	10-12-16	10-13-16	
4-Nitroaniline	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Fluorene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	0.23	EPA 8270D	10-12-16	10-13-16	
n-Nitrosodiphenylamine	ND	0.046	EPA 8270D	10-12-16	10-13-16	
1,2-Diphenylhydrazine	ND	0.046	EPA 8270D	10-12-16	10-13-16	
4-Bromophenyl-phenylether	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Hexachlorobenzene	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Pentachlorophenol	ND	0.23	EPA 8270D	10-12-16	10-13-16	
Phenanthrene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Anthracene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Carbazole	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Di-n-butylphthalate	ND	0.23	EPA 8270D	10-12-16	10-13-16	
Fluoranthene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Benzidine	ND	0.46	EPA 8270D	10-12-16	10-13-16	
Pyrene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Butylbenzylphthalate	ND	0.046	EPA 8270D	10-12-16	10-13-16	
bis-2-Ethylhexyladipate	ND	0.046	EPA 8270D	10-12-16	10-13-16	
3,3'-Dichlorobenzidine	ND	0.23	EPA 8270D	10-12-16	10-13-16	
Benzo[a]anthracene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Chrysene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Di-n-octylphthalate	ND	0.046	EPA 8270D	10-12-16	10-13-16	
Benzo[b]fluoranthene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo[a]pyrene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.0092	EPA 8270D/SIM	10-12-16	10-13-16	
Surrogate:	Percent Recovery	Control Limits		10-12-10	10-10-10	
2-Fluorophenol	62	24 - 117				
Phenol-d6	65	30 - 120				
Nitrobenzene-d5	67	27 - 112				
2-Fluorobiphenyl	66	35 - 113				
2,4,6-Tribromophenol	68	21 - 120				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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# SEMIVOLATILES EPA 8270D/SIM

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Matrix: Soil Units: mg/Kg

Units: mg/Kg	_	_		Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-4-16-16					
Laboratory ID:	10-084-16					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Pyridine	ND	0.37	EPA 8270D	10-12-16	10-13-16	
Phenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Aniline	ND	0.19	EPA 8270D	10-12-16	10-13-16	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2-Chlorophenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Benzyl alcohol	ND	0.19	EPA 8270D	10-12-16	10-13-16	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	10-12-16	10-13-16	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	10-12-16	10-13-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	10-12-16	10-13-16	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Hexachloroethane	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Nitrobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Isophorone	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2-Nitrophenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Naphthalene	0.59	0.037	EPA 8270D	10-12-16	10-13-16	
4-Chloroaniline	ND	0.19	EPA 8270D	10-12-16	10-13-16	
Hexachlorobutadiene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2-Methylnaphthalene	0.74	0.037	EPA 8270D	10-12-16	10-13-16	
1-Methylnaphthalene	0.37	0.037	EPA 8270D	10-12-16	10-13-16	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2-Chloronaphthalene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2-Nitroaniline	ND	0.037	EPA 8270D	10-12-16	10-13-16	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Dimethylphthalate	ND	0.037	EPA 8270D	10-12-16	10-13-16	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Acenaphthylene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
3-Nitroaniline	ND	0.037	EPA 8270D	10-12-16	10-13-16	



SEMIVOLATILES EPA	8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-4-16-16	FQL	Method	Flepaleu	Analyzeu	Flays
	10-084-16					
Laboratory ID: 2,4-Dinitrophenol	ND	0.19	EPA 8270D	10-12-16	10-13-16	
Acenaphthene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
4-Nitrophenol	ND	0.0075	EPA 8270D/Sil	10-12-16	10-13-16	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Dibenzofuran	ND	0.037	EPA 8270D		10-13-16	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D EPA 8270D	10-12-16 10-12-16		
· · · ·	ND				10-13-16	
2,3,4,6-Tetrachlorophenol		0.037	EPA 8270D	10-12-16	10-13-16	
Diethylphthalate	ND	0.19	EPA 8270D	10-12-16	10-13-16	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	10-12-16	10-13-16	
4-Nitroaniline	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Fluorene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	10-12-16	10-13-16	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	10-12-16	10-13-16	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	10-12-16	10-13-16	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Hexachlorobenzene	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Pentachlorophenol	ND	0.19	EPA 8270D	10-12-16	10-13-16	
Phenanthrene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Anthracene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Carbazole	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Di-n-butylphthalate	ND	0.19	EPA 8270D	10-12-16	10-13-16	
Fluoranthene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Benzidine	ND	0.37	EPA 8270D	10-12-16	10-13-16	
Pyrene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Butylbenzylphthalate	ND	0.037	EPA 8270D	10-12-16	10-13-16	
bis-2-Ethylhexyladipate	ND	0.037	EPA 8270D	10-12-16	10-13-16	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	10-12-16	10-13-16	
Benzo[a]anthracene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Chrysene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Di-n-octylphthalate	ND	0.037	EPA 8270D	10-12-16	10-13-16	
Benzo[b]fluoranthene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo[a]pyrene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.0075	EPA 8270D/SIM	10-12-16	10-13-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	67	24 - 117				
Phenol-d6	69	30 - 120				
Nitrobenzene-d5	71	27 - 112				
2-Fluorobiphenyl	70	35 - 113				
2,4,6-Tribromophenol	74	21 - 120				
Terphenyl-d14	76	39 - 121				



# SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 1 of 2

Matrix: Soil Units: mg/Kg

Units: mg/Kg				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1012S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Pyridine	ND	0.33	EPA 8270D	10-12-16	10-12-16	
Phenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Aniline	ND	0.17	EPA 8270D	10-12-16	10-12-16	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2-Chlorophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-12-16	10-12-16	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	10-12-16	10-12-16	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	10-12-16	10-12-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	10-12-16	10-12-16	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Hexachloroethane	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Nitrobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Isophorone	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2-Nitrophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Naphthalene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-12-16	10-12-16	
Hexachlorobutadiene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2-Chloronaphthalene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2-Nitroaniline	ND	0.033	EPA 8270D	10-12-16	10-12-16	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Dimethylphthalate	ND	0.033	EPA 8270D	10-12-16	10-12-16	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
3-Nitroaniline	ND	0.033	EPA 8270D	10-12-16	10-12-16	
		0.000		10-12-10	10-12-10	

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#### SEMIVOLATILES EPA 8270D/SIM METHOD BLANK QUALITY CONTROL page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1012S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-12-16	10-12-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
4-Nitrophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Dibenzofuran	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-12-16	10-12-16	
4-Chlorophenyl-phenylether		0.033	EPA 8270D	10-12-16	10-12-16	
4-Nitroaniline	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-12-16	
4,6-Dinitro-2-methylphenol	ND	0.0067	EPA 8270D/SIM EPA 8270D	10-12-16	10-12-16	
n-Nitrosodiphenylamine	ND	0.17	EPA 8270D	10-12-16	10-12-16	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-12-16	10-12-16	
4-Bromophenyl-phenylether		0.033	EPA 8270D	10-12-16	10-12-16	
Hexachlorobenzene	ND			10-12-16		
	ND	0.033	EPA 8270D		10-12-16	
Pentachlorophenol Phenanthrene	ND	0.17	EPA 8270D	10-12-16	10-12-16	
	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Carbazole	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Di-n-butylphthalate		0.17	EPA 8270D	10-12-16	10-12-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Benzidine	ND	0.33	EPA 8270D	10-12-16	10-12-16	
Pyrene But ille a suita lath a lath	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Butylbenzylphthalate	ND	0.033	EPA 8270D	10-12-16	10-12-16	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	10-12-16	10-12-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-12-16	10-12-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Di-n-octylphthalate	ND	0.033	EPA 8270D	10-12-16	10-12-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-12-16	10-13-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	89	24 - 117				
Phenol-d6	94	30 - 120				
Nitrobenzene-d5	96	27 - 112				
2-Fluorobiphenyl	89	35 - 113				
2,4,6-Tribromophenol	97	21 - 120				
Terphenyl-d14	93	39 - 121				



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# SEMIVOLATILES EPA 8270D/SIM MS/MSD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-0	15-01									
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.679	0.658	1.33	1.33	ND	51	49	31 - 108	3	36	
2-Chlorophenol	0.671	0.659	1.33	1.33	ND	50	50	38 - 103	2	38	
1,4-Dichlorobenzene	0.325	0.329	0.667	0.667	ND	49	49	25 - 101	1	40	
n-Nitroso-di-n-propylamine	0.322	0.324	0.667	0.667	ND	48	49	26 - 102	1	38	
1,2,4-Trichlorobenzene	0.325	0.328	0.667	0.667	ND	49	49	27 - 101	1	40	
4-Chloro-3-methylphenol	0.765	0.802	1.33	1.33	ND	58	60	42 - 106	5	29	
Acenaphthene	0.385	0.404	0.667	0.667	ND	58	61	42 - 103	5	30	
4-Nitrophenol	0.664	0.713	1.33	1.33	ND	50	54	25 - 125	7	29	
2,4-Dinitrotoluene	0.403	0.422	0.667	0.667	ND	60	63	45 - 107	5	30	
Pentachlorophenol	0.629	0.625	1.33	1.33	ND	47	47	30 - 103	1	31	
Pyrene	0.488	0.500	0.667	0.667	ND	73	75	50 - 118	2	28	
Surrogate:											
2-Fluorophenol						47	48	24 - 117			
Phenol-d6						52	50	30 - 120			
Nitrobenzene-d5						54	54	27 - 112			
2-Fluorobiphenyl						53	55	35 - 113			
2,4,6-Tribromophenol						69	74	21 - 120			
Terphenyl-d14						73	75	39 - 121			



# PCBs EPA 8082A

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-5-16-13.5					
Laboratory ID:	10-084-05					
Aroclor 1016	ND	0.069	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.069	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.069	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.069	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.069	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.069	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.069	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	70	50-139				
Client ID:	H-4-16-16					
Laboratory ID:	10-084-16					
Aroclor 1016	ND	0.056	EPA 8082A	10-11-16	10-11-16	
Aroclor 1221	ND	0.056	EPA 8082A	10-11-16	10-11-16	
Aroclor 1232	ND	0.056	EPA 8082A	10-11-16	10-11-16	
Aroclor 1242	ND	0.056	EPA 8082A	10-11-16	10-11-16	
Aroclor 1248	ND	0.056	EPA 8082A	10-11-16	10-11-16	
Aroclor 1254	ND	0.056	EPA 8082A	10-11-16	10-11-16	
Aroclor 1260	ND	0.056	EPA 8082A	10-11-16	10-11-16	
Surrogate:	Percent Recovery	Control Limits				
DCB	85	50-139				

# PCBs EPA 8082A QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date		
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags	
METHOD BLANK							
Laboratory ID:	MB1011S1						
Aroclor 1016	ND	0.050	EPA 8082A	10-11-16	10-11-16		
Aroclor 1221	ND	0.050	EPA 8082A	10-11-16	10-11-16		
Aroclor 1232	ND	0.050	EPA 8082A	10-11-16	10-11-16		
Aroclor 1242	ND	0.050	EPA 8082A	10-11-16	10-11-16		
Aroclor 1248	ND	0.050	EPA 8082A	10-11-16	10-11-16		
Aroclor 1254	ND	0.050	EPA 8082A	10-11-16	10-11-16		
Aroclor 1260	ND	0.050	EPA 8082A	10-11-16	10-11-16		
Surrogate:	Percent Recovery	Control Limits					
DCB	86	50-139					

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-08	80-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.389	0.387	0.500	0.500	ND	78	77	49-133	1	17	
Surrogate:											
DCB						80	81	50-139			



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# TOTAL METALS EPA 6010C/6020A/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	10-084-05 <b>H-5-16-13.5</b>					
Antimony	ND	6.9	6010C	10-13-16	10-13-16	
Arsenic	ND	14	6010C	10-13-16	10-13-16	
Beryllium	ND	0.69	6010C	10-13-16	10-13-16	
Cadmium	ND	0.69	6010C	10-13-16	10-13-16	
Chromium	64	0.69	6010C	10-13-16	10-13-16	
Copper	46	1.4	6010C	10-13-16	10-13-16	
Lead	ND	6.9	6010C	10-13-16	10-13-16	
Mercury	ND	0.35	7471B	10-11-16	10-11-16	
Nickel	69	3.5	6010C	10-13-16	10-13-16	
Selenium	ND	14	6010C	10-13-16	10-13-16	
Silver	ND	0.69	6010C	10-13-16	10-13-16	
Thallium	ND	1.7	6020A	10-13-16	10-17-16	
Zinc	69	3.5	6010C	10-13-16	10-13-16	



## TOTAL METALS EPA 6010C/6020A/7471B

Matrix:	Soil
Units:	mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-084-16					
Client ID:	H-4-16-16					
Antimony	ND	5.6	6010C	10-13-16	10-13-16	
Arsenic	ND	11	6010C	10-13-16	10-13-16	
Beryllium	ND	0.56	6010C	10-13-16	10-13-16	
Cadmium	ND	0.56	6010C	10-13-16	10-13-16	
Chromium	28	0.56	6010C	10-13-16	10-13-16	
Copper	11	1.1	6010C	10-13-16	10-13-16	
Lead	ND	5.6	6010C	10-13-16	10-13-16	
Mercury	ND	0.28	7471B	10-11-16	10-11-16	
Nickel	30	2.8	6010C	10-13-16	10-13-16	
Selenium	ND	11	6010C	10-13-16	10-13-16	
Silver	ND	0.56	6010C	10-13-16	10-13-16	
Thallium	ND	1.4	6020A	10-13-16	10-17-16	
Zinc	24	2.8	6010C	10-13-16	10-13-16	



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# TOTAL METALS EPA 6010C/6020A/7471B METHOD BLANK QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB1013SH1&MB1011S1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	0.50
Thallium	6020A	ND	1.3
Zinc	6010C	ND	2.5



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# TOTAL METALS EPA 6010C/6020A/7471B DUPLICATE QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Sample	Duplicate			
Analyte	Result	Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10.0	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	25.9	24.3	6	0.50	
Copper	11.7	10.9	7	1.0	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Nickel	30.4	29.2	4	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	0.50	
Thallium	ND	ND	NA	1.3	
Zinc	24.0	22.0	9	2.5	



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# TOTAL METALS EPA 6010C/6020A/7471B MS/MSD QUALITY CONTROL

Date Extracted:	10-11&13-16
Date Analyzed:	10-11,13&17-16

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 10-080-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Antimony	100	95.4	95	88.3	88	8	
Arsenic	100	101	101	94.3	94	6	
Beryllium	50.0	50.8	102	47.6	95	7	
Cadmium	50.0	49.3	99	47.5	95	4	
Chromium	100	128	102	119	93	7	
Copper	50.0	63.9	105	60.4	97	6	
Lead	250	238	95	232	93	3	
Mercury	0.500	0.499	100	0.546	109	9	
Nickel	100	127	96	120	89	6	
Selenium	100	104	104	99.4	99	5	
Silver	25.0	24.4	97	23.1	92	5	
Thallium	50.0	44.2	88	44.8	90	1	
Zinc	100	120	96	115	91	4	



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# % MOISTURE

Date Analyzed: 10-12-16

Client ID	Lab ID	% Moisture
H-5-16-3	10-084-01	13
H-5-16-6	10-084-02	10
H-5-16-8.5	10-084-03	31
H-5-16-11	10-084-04	31
H-5-16-13.5	10-084-05	28
H-5-16-16	10-084-06	13
H-5-16-18.5	10-084-07	12
H-4-16-3	10-084-12	9
H-4-16-6	10-084-13	12
H-4-16-8.5	10-084-14	26
H-4-16-11	10-084-15	24
H-4-16-16	10-084-16	11
H-4-16-18.5	10-084-17	15
H-4-16-19.9	10-084-18	13
H-4-16-25.4	10-084-19	17



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#### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	11 H-5- Signature 16-29,2	10 H-5-16-24.3	9 HABANAAH-5-16-23.5	8 H-5-1621:5	7 4-5-16-18.5	6 1-5-16-16	5 H-5-16-13.5	4 4-5-16-11	3 H-5-16- 8.5	2 H-5-16-6	1 4-5-16-3	Lab ID Sample Identification	samplied by: Andrew Under	Stenn Hayman	Project Manager	31608	INNOVEX	Analytical Laboratory Jesting Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Environmental Inc.
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(s(									×.	X	×	×	×	×	×	×	% Mo	isture						



October 28, 2016

Glenn Hayman INNOVEX Environmental Mgt., Inc. 16310 NE 80th St., Suite 300 Redmond, WA 98052

Re: Analytical Data for Project 31008 Laboratory Reference No. 1610-084B

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 10, 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



## **Case Narrative**

Samples were collected on October 8, 2016 and received by the laboratory on October 10, 2016. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ 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/BTEX Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

Samples H-4-16-3, H-4-16-6, H-4-16-8.5, H-4-16-11, H-4-16-19.9 and H-4-16-25.4 were extracted and analyzed outside the holding time. Some loss of volatiles might have occurred.

The surrogate recovery was above the upper control limit for sample H-4-16-6. The recovery was confirmed by reanalysis.

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.



#### NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

Analyte Client ID:	Result					
Oliant ID.	nesun	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-4-16-3					
Laboratory ID:	10-084-12					
Benzene	ND	0.020	EPA 8021B	10-27-16	10-27-16	
Toluene	ND	0.055	EPA 8021B	10-27-16	10-27-16	
Ethyl Benzene	ND	0.055	EPA 8021B	10-27-16	10-27-16	
m,p-Xylene	ND	0.055	EPA 8021B	10-27-16	10-27-16	
o-Xylene	ND	0.055	EPA 8021B	10-27-16	10-27-16	
Gasoline	ND	5.5	NWTPH-Gx	10-27-16	10-27-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	109	63-124				
Client ID:	H-4-16-6					
Laboratory ID:	10-084-13					
Benzene	0.024	0.020	EPA 8021B	10-27-16	10-27-16	
Toluene	ND	0.068	EPA 8021B	10-27-16	10-27-16	
Ethyl Benzene	ND	0.068	EPA 8021B	10-27-16	10-27-16	
m,p-Xylene	ND	0.068	EPA 8021B	10-27-16	10-27-16	
o-Xylene	ND	0.068	EPA 8021B	10-27-16	10-27-16	
Gasoline	ND	6.8	NWTPH-Gx	10-27-16	10-27-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	147	63-124				Q
Client ID:	H-4-16-8.5					
Laboratory ID:	10-084-14					
Benzene	0.045	0.020	EPA 8021B	10-27-16	10-27-16	
Toluene	ND	0.077	EPA 8021B	10-27-16	10-27-16	
Ethyl Benzene	ND	0.077	EPA 8021B	10-27-16	10-27-16	
m,p-Xylene	ND	0.077	EPA 8021B	10-27-16	10-27-16	
o-Xylene	ND	0.077	EPA 8021B	10-27-16	10-27-16	
Gasoline	ND	7.7	NWTPH-Gx	10-27-16	10-27-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	103	63-124				



#### NWTPH-Gx/BTEX

Matrix: Soil Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	H-4-16-11					
Laboratory ID:	10-084-15					
Benzene	0.026	0.020	EPA 8021B	10-27-16	10-27-16	
Toluene	ND	0.069	EPA 8021B	10-27-16	10-27-16	
Ethyl Benzene	ND	0.069	EPA 8021B	10-27-16	10-27-16	
m,p-Xylene	ND	0.069	EPA 8021B	10-27-16	10-27-16	
o-Xylene	ND	0.069	EPA 8021B	10-27-16	10-27-16	
Gasoline	ND	6.9	NWTPH-Gx	10-27-16	10-27-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	111	63-124				
Client ID:	H-4-16-19.9					
Laboratory ID:	10-084-18					
Benzene	0.35	0.020	EPA 8021B	10-27-16	10-27-16	
Toluene	0.090	0.053	EPA 8021B	10-27-16	10-27-16	
Ethyl Benzene	1.4	0.053	EPA 8021B	10-27-16	10-27-16	
m,p-Xylene	2.2	0.053	EPA 8021B	10-27-16	10-27-16	
o-Xylene	0.59	0.053	EPA 8021B	10-27-16	10-27-16	
Gasoline	99	5.3	NWTPH-Gx	10-27-16	10-27-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	100	63-124				
Client ID:	H-4-16-25.4					
Laboratory ID:	10-084-19					
Benzene	0.092	0.020	EPA 8021B	10-27-16	10-27-16	
Toluene	0.064	0.060	EPA 8021B	10-27-16	10-27-16	
Ethyl Benzene	ND	0.060	EPA 8021B	10-27-16	10-27-16	
m,p-Xylene	0.088	0.060	EPA 8021B	10-27-16	10-27-16	
o-Xylene	ND	0.060	EPA 8021B	10-27-16	10-27-16	
Gasoline	ND	6.0	NWTPH-Gx	10-27-16	10-27-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	105	63-124				



4

## NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Soil Units: mg/kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB1027S2					
ND	0.020	EPA 8021B	10-27-16	10-27-16	
ND	0.050	EPA 8021B	10-27-16	10-27-16	
ND	0.050	EPA 8021B	10-27-16	10-27-16	
ND	0.050	EPA 8021B	10-27-16	10-27-16	
ND	0.050	EPA 8021B	10-27-16	10-27-16	
ND	5.0	NWTPH-Gx	10-27-16	10-27-16	
Percent Recovery	Control Limits				
92	63-124				
	MB1027S2 ND ND ND ND ND ND Percent Recovery	MB1027S2           ND         0.020           ND         0.050           ND         0.050           ND         0.050           ND         0.050           ND         0.050           ND         5.0           Percent Recovery         Control Limits	MB1027S2           ND         0.020         EPA 8021B           ND         0.050         EPA 8021B           ND         5.0         NWTPH-Gx           Percent Recovery         Control Limits	Result         PQL         Method         Prepared           MB1027S2	Result         PQL         Method         Prepared         Analyzed           MB1027S2           ND         0.020         EPA 8021B         10-27-16         10-27-16           ND         0.050         EPA 8021B         10-27-16         10-27-16           ND         5.0         NWTPH-Gx         10-27-16         10-27-16           Percent Recovery         Control Limits         V         V         V

					Source			Recovery		RPD		
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags	
DUPLICATE												
Laboratory ID:	10-08	34-19										
	ORIG	DUP										
Benzene	0.0766	0.0696	NA	NA		Ν	JA	NA	10	30		
Toluene	0.0534	ND	NA	NA		Ν	JA	NA	NA	30		
Ethyl Benzene	ND	ND	NA	NA		Ν	JA	NA	NA	30		
m,p-Xylene	0.0734	0.0621	NA	NA		Ν	JA	NA	17	30		
o-Xylene	ND	ND	NA	NA		Ν	JA	NA	NA	30		
Gasoline	ND	ND	NA	NA		Ν	JA	NA	NA	30		
Surrogate:												
Fluorobenzene						105	105	63-124				
SPIKE BLANKS												
Laboratory ID:	SB10	27S1										
	SB	SBD	SB	SBD		SB	SBD					
Benzene	0.934	0.951	1.00	1.00		93	95	70-124	2	12		
Toluene	0.932	0.957	1.00	1.00		93	96	73-119	3	12		
Ethyl Benzene	0.952	0.972	1.00	1.00		95	97	74-117	2	12		
m,p-Xylene	0.900	0.923	1.00	1.00		90	92	75-117	3	13		
o-Xylene	0.935	0.951	1.00	1.00		94	95	75-116	2	12		
Surrogate:												
Fluorobenzene						98	93	63-124				





#### **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.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference



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				/	10/10/20 930	10/10/18 9:30	LA Date Time	5 5 6			×	*	×	×	×	*	X	NWTF NWTF NWTF Volatil Halog	es 826 enated	D BTEX Acid DC Volatile	I / SG CI 258 82600	)	×.	Laboratory Number:	of Custody
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Chromatograms with final report 🗌 Electronic Data Deliverables (EDDs) 🗌	Data Package: Standard 🛛 Level III 🗍 Level IV 🗌				bard on ACIU	* following w/ appropriate analysis	Comments/Special Instructions						×					Semiv (with I PAHs PCBs Organ Organ Chlori Total I Total I TCLP HEM (	volatiles ow-lev 8270D 8082A nochlor nochlor nated A RCRA I WTCA I Metals (oil and	s 8270E el PAH /SIM (lo ine Pes phorus Acid He Metals	D/SIM s) w-level) ticides 8 Pesticide erbicides	081B es 8270	erone orcoo	- 10-UX4		dt