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DRAFT  
Supplemental Investigation  
Report  
Midas Muffler Fauntleroy  
Site  
Seattle, Washington

26 June 2018

Prepared for  
Washington State  
Department of Ecology  
3190 160<sup>th</sup> Avenue SE  
Bellevue, Washington 98008

K/J Project No. 1696059.00

# Supplemental Investigation Report

Report Version: **Draft**

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Site Name: Midas Muffler Fauntleroy

Site Address: 4457 Fauntleroy Way SW  
Seattle, WA 98126

Tax Parcel No: 766620-3625

Ecology Facility Site ID No.: 72998672

Cleanup Site ID: 10302

Voluntary Cleanup Program Project No.: Not applicable

Order No.: Not applicable

Consent Decree No.: Not applicable

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Reminder: Geologic, Engineering, or Hydrogeologic work must be performed under the seal of an appropriately licensed professional, as required by Chapters 18.43 and 18.220, Revised Code of Washington (RCW).

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## List of Acronyms and Abbreviations

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APS	Applied Professional Services
bgs	below ground surface
BTEX	benzene, ethylbenzene, toluene, and xylenes
CSID	Cleanup Site Identification number
CUL	cleanup level
DRO	diesel-range organics
Ecology	Washington State Department of Ecology
ERTS	Environmental Report Tracking System
ESC	ESC Lab Sciences
FSID	Facility Site identification number
GPR	ground penetrating radar
GRO	gasoline-range organics
Holt	Holt Services, Inc.
IDW	investigation-derived waste
Kennedy/Jenks	Kennedy/Jenks Consultants
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MTCA	Model Toxics Control Act
NWRO	Northwest Regional Office (Ecology)
NWTPH-Gx	Northwest Total Petroleum Hydrocarbon - Gasoline Range
PCB	polychlorinated biphenyl
PCSM	preliminary conceptual site model
ppm	parts per million
PVC	polyvinyl chloride
ORO	oil-range organics
QAPP	Quality Assurance Project Plan
QC	quality control
SAP	Sampling and Analysis Plan
SIM	Select Ion Monitoring
Shell	Shell Oil Company
SVOC	semi-volatile organic compound
TPH	total petroleum hydrocarbon
UST	underground storage tank
VOC	volatile organic compound
WAC	Washington State Administrative Code

## **Executive Summary**

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This Supplemental Investigation Report was prepared for the Midas Muffler Fauntleroy Facility located at 4457 Fauntleroy Way Southwest in Seattle, Washington (Property) by Kennedy/Jenks Consultants (Kennedy/Jenks) on behalf of the Washington State Department of Ecology (Ecology). Supplemental investigations were performed to 1) understand current environmental Property conditions, 2) develop adequate information to rank the site using Ecology's Site Hazard Assessment (SHA) process, and 3) ultimately evaluate whether the Property may pose a contributing source of contaminants to the Lower Duwamish Waterway (LDW). This report summarizes the results of both historical environmental activities and current supplemental activities conducted at on-property portions of the site to characterize the current environmental conditions and evaluate whether they may contribute to contamination in the LDW. Off-property assessment of impacts resulting from the site were not performed as part of this investigation. (Note: Per WAC 173-340-200, site is defined as where a hazardous substance has come to be located. Because the work in this report is within the Property only, and the site may extend off the Property boundaries; the terms site and Property are used to distinguish statements that only apply to the Property versus those that may apply to the entire site.)

A review of Ecology's records did not contain specific documentation of past contaminant releases or remedial actions at the site, but did contain notes in a 1996 Environmental Report Tracking System Referral documenting soil sampling near two closed in-place 500-gallon underground storage tanks (USTs) which had reportedly contained heating oil and waste oil. Handwritten notes indicated that gasoline-range hydrocarbons and xylenes were detected in soil samples at concentrations that would be greater than current Model Toxics Control Act (MTCA; Washington Administrative Code 173-340) Method A soil cleanup levels; however, no laboratory analysis reports or formal investigation report was included or referenced.

Prior to the current ownership by Midas Properties and its use for automotive repairs, the Property was owned by Shell Oil Company from 1961 to 1976. The nature of Shell's business operation at the site was not stated in the records reviewed but it is expected that the Property was used as a retail gasoline station. A ground penetrating radar (GPR) survey conducted in February 2017 by Kennedy/Jenks Consultants did not find evidence of USTs or recent soil excavation at the Property.

A subsurface investigation was performed in March 2017 which involved the collection and laboratory analyses of soil and groundwater samples. Both soil and groundwater samples collected from the Property contain petroleum hydrocarbons compounds consistent with a gasoline release at concentrations exceeding MTCA Method A cleanup levels.

Because the nature and extent of impacted media at the Property have not been adequately characterized, additional investigation is recommended.

## **Section 1: Introduction**

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This Supplemental Investigation Report was prepared to document available information regarding environmental conditions at the Midas Muffler property located at 4457 Fauntleroy Way Southwest in Seattle, Washington (Property), (Figure 1).

This report includes a summary of available Property history information, including previous environmental investigations, as well as the results of a supplemental investigation conducted in 2017. Supplemental investigations were performed to 1) understand current environmental Property conditions, 2) develop adequate information to rank the site using Ecology's Site Hazard Assessment (SHA) process, and 3) ultimately evaluate whether the Property may pose a contributing source of contaminants to the Lower Duwamish Waterway (LDW). These data are used to evaluate potential contaminant exposure pathways and to identify areas where data gaps may exist so they can be addressed during future investigations.

This report was prepared by Kennedy/Jenks on behalf of the Washington State Department of Ecology (Ecology), Northwest Regional Office (NWRO).

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### **1.1 General Site Information**

The Property is located on the northwestern corner of the intersection of Fauntleroy Way Southwest and 37<sup>th</sup> Avenue Southwest in Seattle, Washington. The Property is currently owned by Midas Properties Inc., and is operated as a Midas Muffler automotive repair facility. The Property has a single building that serves as the repair garage and customer waiting area. A map showing general site features and soil boring locations is presented as Figure 2.

- Ecology Site Name: Midas Muffler Fauntleroy
- Facility Site Identification Number (FSID): 72998672
- Cleanup Site Identification Number (CSID): 10302

The Property is located on tax parcel 095200-4790 and is zoned for commercial use. The legal description of the parcel is as follows:

**BOSTON COMPANYS PLAT OF W S & VAC POR ST ADJ LESS ST; Plat Block: 37; Plat Lot: 18 THRU 23**

Fauntleroy Way Southwest is a main arterial road in West Seattle with commercial properties on both sides of the road. Residential properties border the site to the north and west.

The nearest water body to the Property is the Longfellow Creek, located approximately 0.6 mile to the east. Longfellow creek is an approximately 4-mile long creek that drains into the West Duwamish Waterway and Elliot Bay, a bight of the Puget Sound.

## 1.2 Property History

Historical aerial photographs of the Property were obtained as follows (see Appendix A):

- King County (1936)
- United States Army Corp of Engineers (1942)
- Department of Natural Resources (1952, 1959, 1965, 1970, 1978, 1985, 1992)
- United States Geological Survey (1990, 2002)
- Google Earth (2011).

The results of a property title search show that the Property has changed ownership several times since the first recorded deed in 1943. The early use of the Property is unknown; however, the area along Fauntleroy Way Southwest appears to have been developed for commercial uses by 1936. Several small structures are visible in historical aerial photographs of the Property dating from 1936 to 1959. The Property was sold to Shell Oil Company (Shell) in 1961. King County Assessor's Office records indicate the current building was constructed in 1965, and aerial images from 1965 show the building with what appears to be a large canopy structure out front. The canopy is still visible in aerial images from 1970, but appears to have been removed in aerial images from 1978 (Appendix A, Figures A-1 through A-7). Shell sold the Property to Midas Realty Corporation in 1976. A copy of the title search and summarized title transactions is provided in Appendix B.

Whether or not Shell had underground storage tanks (USTs) on the Property during their ownership is unknown. Based review of historical aerial photographs for 1965 and 1970, a canopy may have been present in the southern portion of the Property which suggests that fueling activities were also performed on the Property. However, this has not been confirmed through review of the available file information.

An Ecology Environmental Report Tracking System (ERTS) Referral dated November 1996 (Appendix C) notes there were two 500-gallon USTs on the Property; one was reportedly used for heating oil, and the other for waste oil. Handwritten notes from Ecology's initial investigation visit indicate both USTs were closed in place prior to the November 1996 ERTS Referral. The notes indicate that "soil sample bore holes" were visible during the site visit, but no evidence was visible indicating the tanks had been removed (i.e., no signs of recent excavation or new asphalt). The Ecology notes indicate that petroleum (type not specified) was detected in soil

samples analyzed by Method 418.1 at concentrations up to 1,200 parts per million (ppm). Gasoline-range hydrocarbon was detected at a concentration of 2,600 ppm, and xylenes at 60 ppm. No analytical data or written field investigation report was included with the ERTS Referral.

The detected concentrations of gasoline-range hydrocarbons and xylenes reported in Ecology's files also suggest there may have been a source of fuel contamination other than the heating oil and waste oil USTs.

### 1.3 Property Use

The Property is currently being used by Midas Muffler as an automotive repair facility. There is no information to indicate that fueling activity is part of this use or that fueling facilities are present. The entire Property is surfaced with asphalt pavement, and at least one stormwater catch basin was noted on the Property during site visits in 2017.

## **Section 2: Previous Investigations and Remedial Activities**

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Other than the soil samples described in Section 1.2, there is no record in Ecology's files of any previous investigations or remedial activities at the Property.

During field subsurface investigation activities in February and March 2017, an asphalt patch was observed in the parking area where two former USTs were believed to have been previously located, suggesting the USTs may have been removed. However, no report was found documenting such removal. [Note: As discussed in Section 3.1.1, a ground penetrating radar (GPR) survey did not detect evidence there are USTs remaining on-property.]

## **Section 3: 2017 Supplemental Investigation**

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This section presents the scope and methods of 2017 subsurface investigation activities, as well as a description of the geology. This work was conducted to provide preliminary data regarding the current subsurface environmental conditions at the Property.

- Site reconnaissance and assessment of existing underground utilities.
- A GPR survey was conducted in February 2017 to look for evidence of USTs on the Property.
- Six soil borings (B-1 through B-6) were advanced for soil and groundwater sampling in March 2017 (Figure 2).

### **3.1 Field Methods**

The field methods used during the 2017 supplemental investigation activities are described below. Field methods were conducted in accordance with the draft Sampling and Analysis Plan/Quality Assurance Project Plan (SAP/QAPP; Kennedy/Jenks Consultants 2017) and associated SAP addendum. A copy of the SAP addendum is included in Appendix D.

#### **3.1.1 Ground Penetrating Radar Survey**

A GPR survey was conducted on 28 February 2017 by Applied Professional Services of North Bend, Washington (APS). APS personnel surveyed the parking area of the Property using a GSSI UtilityScan® DF with a dual-frequency antenna (300 and 800 megahertz). APS reported the instrument sensing range extended to approximately 8 feet in depth during the Midas Survey. Several potential utility lines were detected during the GPR survey; however, no evidence of USTs was observed. Although no evidence of USTs was noted during the GPR survey, an asphalt patch was visible in the southwestern portion of the parking lot near boring B-6 where the former heating oil and waste oil USTs may have been located. This asphalt patch is located south-southwest from the former canopy identified in the 1965 and 1970 aerial photographs.

#### **3.1.2 Drilling and Soil Sampling**

Prior to performing drilling activities, publicly available information regarding the location of subsurface utilities was reviewed and a one-call public utility locate request (811) was made in order to identify public underground utilities on the Property. Following the public utility locate, a private utility survey was conducted by APS to attempt to locate underground utilities not listed in the public record. As a further precaution to avoid damaging underground utilities, prior to drilling, the upper 5 feet at each soil boring location was evaluated by removing soil using an air knife and vacuum truck (air knife).

Soil borings were advanced using a Geoprobe® direct-push drill rig operated by Holt Services, Inc., of Edgewood, Washington (Holt). Continuous soil cores were retrieved from the boreholes for lithologic classification, field screening, and soil sampling. Soil borings B-1, B-2, B-4, and B-5 were advanced to a final depth of 20 feet below ground surface (bgs). Borings B-3 and B-6

were advanced to a final depth of 15 feet and 6 feet bgs, respectively. A large piece of concrete was encountered in boring B-6 (as evidenced by concrete fragments in the drilling shoe) which prevented the boring from being advanced beyond 6 feet.

A total of 11 soil samples were collected for chemical analyses from borings B-1 through B-5 at selected depth intervals. Soil samples were labeled with the boring identification (B-1, B-2, etc.) followed by the depth in feet bgs that the samples were collected from. For example, the soil sample collected from boring B-2 at a depth of 19 to 20 feet bgs was labeled "B-2 (19.0-20.0)". Soil samples were placed directly into laboratory supplied containers, labeled with the sample identification and date and time of collection, and packed in a chilled ice chest which was shipped to ESC Lab Sciences in Mt. Juliet, Tennessee (ESC) (a Washington State accredited environmental laboratory), following standard chain-of-custody procedures.

Soil sample were analyzed in the laboratory for Gasoline-range Organics (GRO) by Ecology Method NWTPH-Gx, diesel-range organics (DRO) and oil-range organics (ORO) by Method NWTPH-Dx, and semi-volatile organic compounds (SVOCs) with Select Ion Monitoring (SIM) by Method 8270D SIM. Selected soil samples were also analyzed for volatile organic compounds (VOCs) by Method 8260C, total metals by Methods 6010C (arsenic, barium, cadmium, chromium, lead, selenium, and silver) and 7471A (mercury), and polychlorinated biphenyls (PCBs) by Method 8082.

Soil analytical results are discussed in Section 3.3.1. The soil boring logs are included in Appendix E.

### 3.1.3 Reconnaissance Groundwater Sampling

Reconnaissance groundwater samples were collected from borings B-1 and B-5. Once the borings had been advanced to their final depths, a temporary,  $\frac{3}{4}$ -inch diameter polyvinyl chloride (PVC) casing and machine-slotted well screen section were placed directly into the open bore hole. The temporary wells were screened from 10 to 20 feet bgs. Groundwater was purged from the temporary well using a peristaltic pump and dedicated polyethylene tubing. Samples were collected directly into laboratory-supplied sampling containers, labeled, and placed in a chilled ice chest for transport to ESC following standard chain-of-custody procedures.

Groundwater samples were analyzed for: GRO by Method NWTPH-Gx, DRO and ORO by Method NWTPH-Dx, VOCs by Method 8260C, SVOCs by Method 8270D-SIM, and dissolved metals by Methods 6010C (arsenic, barium, cadmium, chromium, lead, selenium, and silver) and 7470A (mercury). Samples for analysis of dissolved metals were filtered in the laboratory using a 0.45-micron filter prior to analysis. Groundwater analytical results are discussed in Section 3.3.2.

### 3.1.4 Investigation-Derived Waste Disposal

Investigation-derived waste (IDW) generated during the 2017 subsurface investigation consisted of soil cuttings, decontamination water, and purge water from groundwater sampling. The IDW was placed in 55-gallon drums, labeled, and temporarily stored on-property. A waste profile was generated for the waste based on soil and groundwater analytical results, and the waste was transported off-property by Cascade Drilling Inc., for disposal at Burlington Environmental,

LLC, in Kent, Washington. Copies of the waste disposal manifest and the waste profile are included in Appendix F.

### **3.2 Property Geology**

The generalized lithology noted during drilling activities in 2017 consists of alternating layers of silty sands, sands with silt, and silt, clay and gravel mixtures to a depth of 20 feet. Concrete (possibly fill material) was encountered in boring B-6 at a depth of 6 feet which prevented further drilling. Groundwater was encountered in only two of the borings advanced (B-1 and B-5) at a depth of approximately 15 feet. Because saturated conditions were only observed in two of the four borings advanced to a depth of 20 feet, it is possible that the groundwater occurs in localized perched lenses as opposed to in a laterally continuous shallow saturated unit. The saturated zone encountered in borings B-1 and B-5 was comprised of relatively permeable poorly graded sand with silt. The other two borings advanced to a depth of 20 feet (B-2 and B-4) penetrated lower permeability sandy clayey silt below 15 feet. The sandy clayey silt layer was observed to be "moist"; consequently, it is possible that it is saturated but yields groundwater slowly (none accumulated in the boring after approximately 10 minutes that the temporary wells were in place). Also, because B-2 and B-4 were terminated in sandy clayey silt unit, it was not determined whether or not a more permeable saturated zone may exist beneath these soils.

No permanent monitoring wells were completed at the Property. Consequently, information regarding the potential groundwater flow direction was not developed during this investigation.

A interpretive geologic cross section is presented on Figure 3.

While drilling, groundwater was encountered at 15 feet below grade in several borings and not encountered in other borings at depths of up to 20 feet. Due to the depth of groundwater (15 feet or deeper), surface water is not expected to have been directly impacted by releases to groundwater at the Property.

### **3.3 Analytical Results**

This section presents the analytical results for the soil and groundwater samples collected in 2017. Analytical results discussed below are compared to the Model Toxics Control Act [MTCA; Washington Administrative Code (WAC) 173-340] Method A or B cleanup levels (CULs) for unrestricted land use and the protection of potable groundwater. Soil and groundwater laboratory analytical reports are included in Appendix G.

#### **3.3.1 Soil Analytical Results**

GRO was detected in two soil samples at a concentration greater than the MTCA Method A soil cleanup level of 30 milligrams per kilogram (mg/kg). GRO was detected at a concentration of 13,800 mg/kg and 289 mg/kg in samples B-3 (6.0-7.0) and B-4 (6.0-7.0), respectively.

DRO or ORO were not detected in any soil samples at a concentration greater than the MTCA Method A soil CUL. The highest DRO concentration detected was 166 mg/kg and ORO was not detected above the reporting limit.

Several SVOCs were detected at concentrations greater than the laboratory reporting limit in soil samples collected from borings B-3, B-4, and B-5. However, naphthalene was the only compound detected at a concentration greater than the MTCA Method A soil CUL from sample B-3 (6.0-7.0). Naphthalene was detected at a reported concentration of 12.6 mg/kg. As discussed below, naphthalene was also analyzed as a VOC as part of Method 8260C, and a higher concentration of 45.9 mg/kg was reported for the same sample using this method. Soil samples submitted for cPAHs were not detected at a concentration greater than the laboratory reporting limits.

VOCs were only detected at concentrations above the soil screening CULs in one sample, B-3 (6.0-7.0). The compounds detected above soil screening CULs were benzene (3.48 mg/kg), ethylbenzene (177 mg/kg), naphthalene (45.9 mg/kg), toluene (19.7 mg/kg), and xylenes (938 mg/kg). The presence of these compounds at concentrations greater than the soil CULs may be indicative of a prior gasoline release. Due to the need for the analytical laboratory to perform dilutions to complete sample analyses, several VOC analytes were reported with laboratory reporting limits that are greater than their respective soil CULs.

None of the metals analyzed (arsenic, barium, cadmium, chromium, lead, mercury, selenium, or silver) were detected in soil samples at a concentration greater than their respective soil screening CULs.

PCBs were analyzed in samples B-3 (6.0-7.0) and B-4 (6.0-7.0) and were not detected at a concentration greater than the laboratory reporting limit of approximately 0.02 mg/kg.

Soil analytical results are summarized in Table 1 and displayed on Figures 4 and 5.

### 3.3.2 Groundwater Analytical Results

Reconnaissance groundwater samples were collected from borings B-1 and B-5, and a field duplicate sample was collected from boring B-5. Groundwater analytical results are summarized in Table 2.

*(Note: In discussions of all reconnaissance groundwater sample results, it is acknowledged that analyte concentrations, especially total metals, are biased high due to excessive turbidity in the sample (which is characteristic of reconnaissance groundwater samples.) Consequently, reconnaissance sample results should not be used for making regulatory decisions for the site.*

GRO and DRO were detected in reconnaissance groundwater samples from both B-1 and B-5 at a concentration greater than the MTCA Method A groundwater cleanup level of 800 micrograms per liter ( $\mu\text{g/L}$ ) and 500  $\mu\text{g/L}$ . GRO was detected at a concentration of 2,440  $\mu\text{g/L}$  and 6,120  $\mu\text{g/L}$ , respectively. DRO was detected at a concentration of 599  $\mu\text{g/L}$  and 771  $\mu\text{g/L}$ , respectively.

Two SVOCs, 1-methylnaphthalene and 2-methylnaphthalene, were detected in groundwater at concentrations greater than their respective MTCA Method B groundwater CULs. Several VOCs were detected in groundwater samples at concentrations greater than the respective groundwater CULs, including:

- 1,3,5-trimethylbenzene was detected in the sample from B-5 at a concentration of 181 µg/L, greater than the MTCA Method B groundwater CUL of 80 µg/L.
- Benzene was detected at concentrations of 27.3 µg/L and 5.40 µg/L in samples from borings B-1 and B-5, respectively, greater than the MTCA Method A groundwater CUL of 5 µg/L.
- Chloroform was detected at a concentration of 7.06 µg/L in the sample from boring B-1, greater than the MTCA Method B groundwater CUL of 1.41 µg/L.

Dissolved arsenic, cadmium, chromium, lead, mercury, selenium, and silver were not detected at concentrations greater than the laboratory reporting limit or method detection limits in samples from either B-1 or B-5. Dissolved phase barium was detected in both samples at concentrations less than the MTCA Method B groundwater CUL.

Groundwater analytical results are summarized in Table 2. Compounds detected at a concentration greater than the respective groundwater CULs are also presented on Figure 6.

### 3.3.3 Quality Assurance/Quality Control

Field and laboratory quality control (QC) measures, standard analytical procedures, proper data management protocols, and laboratory report validation procedures were implemented/followed during the 2017 investigation activities. Field procedures were performed in general accordance with the SAP/QAPP (Kennedy/Jenks Consultants 2017) and SAP Addendum. Overall, the findings of the data validations indicate the analytical results from the 2017 subsurface investigation are appropriate for their intended use. The data validation report is provided in Appendix H.

## **Section 4: Data Gaps Summary**

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This section presents a summary of identified data gaps based on a review of available records in Ecology files and the results of the 2017 investigation activities.

### **4.1 Contaminant Sources**

A general data gap exists regarding contaminant sources: The possible presence of other contaminant release sources (besides the heating and waste oil USTs) related to current and former activities at the Property need to be further researched/investigated, as appropriate. The concentrations of GRO and benzene, ethylbenzene, toluene, and xylenes (BTEX) detected in soil and groundwater samples collected during the 2017 subsurface investigation suggest other petroleum products besides heating oil and waste oil were stored and/or handled on the Property. Specifically, the 2017 soil and groundwater analytical results are consistent with gasoline release(s); however, there is no documentation that fueling activities were performed at the Property.

### **4.2 Soil Data Gaps**

The main soil data gaps are: (1) the extent of petroleum hydrocarbon soil contamination found during the 2017 subsurface investigation should be adequately characterized, and (2) soil quality data for other areas of the Property not investigated in 2017 needs to be acquired.

As discussed in Section 3.3.1, soil was confirmed to be impacted by GRO, BTEX, and naphthalene at concentrations greater than MTCA soil screening CULs, in borings B-3 and B-4. These two borings are located north and northwest of an asphalt patch surrounding boring B-6 that may represent the former location of one or more USTs.

Site soil was not investigated beyond the southwestern corner of the parking lot. If the Property was used by Shell as a retail fueling station, potential areas for future investigation would include the vicinities of any former storage, conveyance, and dispensing features (e.g., fueling islands, underground fuel conveyance piping alignments, and former fuel storage tanks).

### **4.3 Groundwater Data Gaps**

The main groundwater data gaps include: (1) the extent of dissolved petroleum hydrocarbon groundwater contamination detected during the 2017 subsurface investigation needs to be adequately characterized, and (2) information on the basic hydrogeologic characteristics of the Property should be obtained.

As discussed in Section 3.3.1, groundwater is impacted by GRO and several SVOCs and VOCs at concentrations greater than MTCA screening CULs. Because groundwater was encountered at a depth of about 15 feet bgs in borings B-1 and B-5, but not in the other two borings advanced to 20 feet bgs, additional information regarding the continuity of shallow groundwater across the Property should be obtained. Additional groundwater investigation (e.g., construction of monitoring wells) should be conducted to develop an understanding of groundwater occurrence and flow direction at the Property. Understanding these hydrogeologic

characteristics are essential to evaluating the nature and extent of groundwater impacts from past activities at the Property.

The detection of GRO and benzene in reconnaissance groundwater samples are consistent with a gasoline release(s) and may indicate that other sources of petroleum contamination may have existed besides reported heating oil and waste oil USTs described in Ecology notes.

Groundwater has not been investigated in portions of the site outside of the southwestern corner of the parking lot, so the extent of groundwater impacts by petroleum is unknown. As noted in Section 4.1, there are also other potential on-property sources of chemical contaminants which could have impacted soil and/or groundwater, and have not been investigated.

#### **4.4 Vapor Intrusion Data Gaps**

Because GRO, BTEX compounds, and other VOCs are confirmed to be present in Property soil and groundwater, the potential for soil vapor migration and intrusion into indoor airspaces exists. Additional characterization of the nature and extent of soil and groundwater contamination at the Property is warranted to adequately evaluate this potential exposure pathway. The detection of benzene in reconnaissance groundwater samples at concentrations ranging from 5.4 to 27.3 µg/L exceeds the Ecology screening level for vapor intrusion of 2.4 µg/L (based on possible carcinogenic effects).

## **Section 5: Preliminary Conceptual Site Model**

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A preliminary conceptual site exposure model (PCSM) was developed for the site based on analytical results of soil and groundwater samples collected during the 2017 site investigation, and the current understanding of site geology and hydrogeology.

Historical release(s) of gasoline have likely occurred on the Property based on the presence of GRO, BTEX, and SVOC/VOC constituents detected in both soil and/or groundwater samples. The source(s) of the release(s) is unknown, but could possibly have included leaks of gasoline placed in the reported heating oil and/or waste oil USTs on the Property. A canopy was identified in the historical aerial photographs and appears to indicate that a retail fueling station was present at the site. The dates, volumes, and mechanisms of the apparent release(s) are unknown. The preliminary PCSM is presented on Figure 7.

Because the Property is entirely paved, runoff is not a transport mechanism for soil contaminants. The downward migration of subsurface soil contaminants (i.e., petroleum hydrocarbons) towards groundwater, leaching to groundwater, and/or volatilization were the primary potential transport mechanisms for subsurface soil contaminants in the past, but are now substantially mitigated by the presence of low permeability cover over the Property. Once transported to groundwater, soluble contaminants dissolve and are transported by advection, diffusion, and partitioning into soil gas (i.e., volatilization).

The potential exposure pathways for all sources include incidental dermal absorption, incidental ingestion, and vapor inhalation.

Groundwater was encountered at 15 feet below grade in several borings and not encountered in other borings at depths of up to 20 feet. Due to the depth of groundwater (15 feet or deeper), surface water is not expected to have been directly impacted by releases to groundwater at the Property.

## Section 6: Proposed Cleanup Levels

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CULs used for comparison with soil and groundwater data collected during the site investigation activities are based on Ecology's MTCA Method A and B CULs. The CULs are summarized in Table 3 below.

Table 3: Soil and Groundwater Cleanup Levels<sup>(a)</sup>

COC	Soil CUL	Groundwater CUL	CUL Basis <sup>(b)</sup>
TPH-Diesel	<b>2,000 mg/kg</b>	<b>500 µg/L</b>	MTCA Method A
TPH-Gasoline	<b>100 mg/kg</b> (w/o benzene) 30 mg/kg (with benzene)	<b>1,000 µg/L</b> (w/o benzene) <b>800 µg/L</b> (with benzene)	MTCA Method A
Benzene	<b>30 µg/kg</b> / 1.82E+04 µg/kg	<b>5 µg/L</b> 0.795 µg/L	MTCA Method A / MTCA Method B
Toluene	<b>7,000 µg/kg</b> / 6.40E+06 µg/kg	<b>1,000 µg/L</b> <b>640 µg/L</b>	MTCA Method A / MTCA Method B
Ethylbenzene	<b>6,000 µg/kg</b> / 8.00E+06 µg/kg	<b>700 µg/L</b> / 800 µg/L	MTCA Method A / MTCA Method B
Xylenes	<b>9,000 µg/kg</b> / 1.60E+06 µg/kg	<b>1,000 µg/L</b> / 1,600 µg/L	MTCA Method A / MTCA Method B

**Notes:**

- (a) MTCA Method A cleanup levels are based on unrestricted land uses (soil) or protection of potable water. **Bold** value denotes proposed cleanup level.
- (b) MTCA Method A/B cleanup levels based on Ecology's August 2015 CLARC database.  
mg/kg = milligrams per kilogram  
µg/L = micrograms per liter  
µg/kg = micrograms per kilogram  
TPH = total petroleum hydrocarbons

## **Section 7: Conclusions and Recommendations**

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No historical reports were available for review which specifically documented past contaminant releases or remedial activities conducted at the Property. An Ecology release report dated 1996 noted there were two 500-gallon USTs on the Property that had been closed in place. Handwritten notes indicate that soil sampling near the USTs was performed and that petroleum (type not specified) was detected in soil samples analyzed by Method 418.1 at concentrations up to 1,200 ppm. GRO was detected at a concentration of 2,600 ppm, and xylenes at 60 ppm. Prior to the current ownership by Midas Properties, the Property was owned by Shell from 1961 to 1976. The nature of Shell's business operation at the Property was not stated in the records reviewed. Historical aerial photographs appear to indicate the presence of a former canopy that may have been associated with a former retail fueling operation at the Property; however, formal documentation of past fueling activities was not identified in the file information.

A GPR survey conducted in February 2017 did not identify evidence of USTs, piping, or recent soil excavation at the Property.

A subsurface investigation was conducted in March 2017 to assess current Property conditions and provide preliminary environmental data regarding possible past releases at portions of the Property. GRO, BTEX compounds, and naphthalene were detected in soil samples at concentrations greater than MTCA Method A soil CULs. GRO, DRO, benzene, 1-methylnaphthalene, 2-methylnaphthalene, and chloroform were detected in reconnaissance groundwater samples at concentrations greater than MTCA Method A or B groundwater CULs. The investigation was limited to the area in the southwestern corner of the Property in accordance with the owners request and other portions of the Property were not investigated. The extent of impacts to soil and groundwater has not been fully characterized.

Groundwater was encountered intermittently at depths below 15 feet bgs. Based on the available information, the nature of shallow groundwater beneath the site was not identified. It is not known whether or not impacted groundwater extends off-property or not.

### **7.1 Recommendations**

Additional sources of information regarding the former use of the Property by Shell should be researched to ascertain whether it was operated as a retail gasoline station. If the Property was used by Shell for fuel dispensing, any specific information about this operation will be helpful to the development of a focused plan for additional investigations.

Additional investigation is warranted in areas outside of the southwestern corner of the Property (and potentially including inside the building) as no soil or groundwater chemical analytical data are available for those areas. These additional investigation activities should include collection of soil and groundwater samples for laboratory analyses, as well as the construction and monitoring of at least three shallow groundwater monitoring wells in order to address the basic hydrogeology data gaps discussed in Section 4.2.

Vapor intrusion into the building is possible given the levels of benzene detected in groundwater; consequently, assessment of the vapor intrusion pathway should be performed to assess the presence of benzene and other volatile compounds in indoor work spaces.

## **Section 8: Limitations**

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This report was prepared for the exclusive use of the Washington State Department of Ecology (Ecology). Kennedy/Jenks Consultants' services were limited to scope of services specified in our agreement with Ecology. Use of, or reliance on, the information contained in this report by other parties is at their sole risk. The information contained in this report is based on review of readily available environmental records provided by Ecology, review of available aerial photographs and related site information acquired for the Property, and the results of limited site characterization work completed by Kennedy/Jenks Consultants in accordance with our scope of services. Kennedy/Jenks Consultants' activities were conducted in accordance with practices and procedures generally accepted in the consulting field by others performing these types of services.

This report represents Kennedy/Jenks Consultants' professional opinion and judgment, which are dependent upon information obtained during performance of our consulting services. Site investigation activities identified in this report were not intended to be a comprehensive characterization of all site conditions. Other environmental conditions and/or affected media may exist at the site that cannot be or were not identified through the services performed. Any conclusions or recommendations provided herein are based, in part, on information supplied by others; therefore, the accuracy or sufficiency of which has not been independently reviewed by Kennedy/Jenks Consultants. No investigation can be thorough enough to identify the presence of all impacted media or adverse environmental conditions at the site.

Any opinions presented in this report apply to conditions at the time the services were performed and do not address the potential for future releases or changing site conditions. Changes in applicable environmental standards, practices, or regulations may occur following performance of services, which could impact the opinions presented.

## References

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- Kennedy/Jenks Consultants. 2017. *Draft Lower Duwamish Waterway – Site Hazard Assessments and Limited Investigations Sampling and Analysis Plan/Quality Assurance Project Plan*. 9 February.
- King County Assessor's Office, 2017. *Property Detail Report*.  
<http://blue.kingcounty.com/Assessor/eRealProperty/Dashboard.aspx?ParcelNbr=0952004790>. Accessed at 26 April.
- Washington State Department of Ecology. 1996. *Environmental Report Tracking System Referral, Incident ID: N25406*. November.

## Tables

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TABLE 1

**SOIL SAMPLE ANALYTICAL RESULTS**  
**Midas Muffler Fauntleroy Site**  
**Seattle, Washington**

Chemical	Unit	TEF	MTCA A then Lowest B CUL	Location												
				Sample ID Date		B-01 (10.0-11.0)	B-01 (19.0-20.0)	B-2 (13.0-14.0)	B-2 (19.0-20.0)	B-3 (6.0-7.0)	B-3 (14.0-15.0)	B-4 (6.0-7.0)	B-4 (11.0-12.0)	B-5 (12.0-13.0)	B-5 (19.0-20.0)	
				Parent Sample ID Sample Depths (bgs) Note		10-11 ft	19-20 ft	13-14 ft	19-20 ft	6-7 ft	14-15 ft	6-7 ft	11-12 ft	12-13 ft	12-13 ft	19-20 ft
<b>Total Petroleum Hydrocarbons</b>																
Gasoline-Range Organics	mg/kg	30/100	Method A	0.292	< 0.112	< 0.111	< 0.115	13800	15.2	289	1.63	11.5	0.724	0.420		
Oil-Range Organics	mg/kg	2000	Method A	< 11.5	< 11.2	< 11.1	< 11.5	< 240	< 11.5	< 12.4	< 11.2	< 11.6	< 11.8	< 11.7		
Diesel-Range Organics	mg/kg	2000	Method A	< 4.58	< 4.47	< 4.45	< 4.62	166	< 4.59	22.7	< 4.48	< 4.65	< 4.70	< 4.69		
<b>BTEX</b>																
Benzene	mg/kg	0.03	Method A	< 0.00115	< 0.00112	< 0.00111	< 0.00115	3.48	< 0.0287	< 0.0891	< 0.0207	< 0.0212	0.00237	< 0.00117		
Toluene	mg/kg	7	Method A	< 0.00573	< 0.00558	< 0.00557	< 0.00577	19.7	< 0.143	< 0.445	< 0.104	< 0.106	< 0.00588	< 0.00586		
Ethylbenzene	mg/kg	6	Method A	0.00423	< 0.00112	< 0.00111	< 0.00115	177	0.170	3.56	0.314	< 0.0212	0.00130	< 0.00117		
Xylene, total	mg/kg	9	Method A	0.00440	< 0.00335	< 0.00334	< 0.00346	938	0.500	1.22	0.373	< 0.0637	< 0.00353	< 0.00351		
<b>Polychlorinated Biphenyls</b>																
PCB-1016 (Aroclor 1016)	mg/kg	5.6	B Non Cancer	--	--	--	--	< 0.0204	--	< 0.0210	--	--	--	--	--	
PCB-1221 (Aroclor 1221)	mg/kg			--	--	--	--	< 0.0204	--	< 0.0210	--	--	--	--	--	
PCB-1232 (Aroclor 1232)	mg/kg			--	--	--	--	< 0.0204	--	< 0.0210	--	--	--	--	--	
PCB-1242 (Aroclor 1242)	mg/kg			--	--	--	--	< 0.0204	--	< 0.0210	--	--	--	--	--	
PCB-1248 (Aroclor 1248)	mg/kg			--	--	--	--	< 0.0204	--	< 0.0210	--	--	--	--	--	
PCB-1254 (Aroclor 1254)	mg/kg	0.500	B Cancer	--	--	--	--	< 0.0204	--	< 0.0210	--	--	--	--	--	
PCB-1260 (Aroclor 1260)	mg/kg	0.500	B Cancer	--	--	--	--	< 0.0204	--	< 0.0210	--	--	--	--	--	
Total PCBs (HalfDL)	mg/kg	1	Method A	--	--	--	--	< 0.0714	--	< 0.0735	--	--	--	--	--	
Total PCBs (HitsOnly)	mg/kg	1	Method A	--	--	--	--	< 0.00	--	< 0.00	--	--	--	--	--	
<b>Semi Volatile Organic Compounds using SIM</b>																
1-Methylnaphthalene	mg/kg	34.5	B Cancer	< 0.0229	< 0.0223	< 0.0223	< 0.0231	5.98	0.0302	0.210	< 0.0224	< 0.0233	0.207	< 0.0234		
2-Chloronaphthalene	mg/kg	6400	B Non Cancer	< 0.0229	< 0.0223	< 0.0223	< 0.0231	< 0.0240	< 0.0230	< 0.0247	< 0.0224	< 0.0233	< 0.0235	< 0.0234		
2-Methylnaphthalene	mg/kg	320	B Non Cancer	< 0.0229	< 0.0223	< 0.0223	< 0.0231	14.6	0.0701	0.484	< 0.0224	< 0.0233	0.295	< 0.0234		
Acenaphthene	mg/kg	4800	B Non Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	0.0269	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703		
Acenaphthylene	mg/kg			< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703		
Anthracene	mg/kg	24000	B Non Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	0.0274	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703		
Benzo(a)anthracene	mg/kg	0.1	1.37	B Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703	
Benzo(a)pyrene	mg/kg	1	0.1	Method A	< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703	
Benzo(b)Fluoranthene	mg/kg	0.1	1.37	B Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703	
Benzo(g,h,i)Perylene	mg/kg			< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703		
Benzo(k)Fluoranthene	mg/kg	0.1	13.7	B Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703	
Chrysene	mg/kg	0.01	137	B Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703	
Dibenz(a,h)Anthracene	mg/kg	0.1	0.137	B Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703	
Fluoranthene	mg/kg	3200	B Non Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	0.00902	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703		
Fluorene	mg/kg	3200	B Non Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	0.0784	< 0.00689	< 0.00742	< 0.00672	< 0.00698	0.0084	< 0.00703		
Indeno(1,2,3-c,d)Pyrene	mg/kg	0.1	1.37	B Cancer	< 0.00688	< 0.00670	< 0.00668	< 0.00693	< 0.00720	< 0.00689	< 0.00742	< 0.00672	< 0.00698	< 0.00705	< 0.00703	
Naphthalene	mg/kg	5	Method A	< 0.0229	< 0.0223	< 0.0223	< 0.0231	12.6	0.0670	0.426	< 0.0224	< 0.0233	0.0405	&		

TABLE 1

**SOIL SAMPLE ANALYTICAL RESULTS**  
**Midas Muffler Fauntleroy Site**  
**Seattle, Washington**

Chemical	Unit	TEF	MTCA A then Lowest B CUL										
			Location		B-01	B-01	B-02	B-02	B-03	B-03	B-04	B-04	B-05
			Sample ID	Date	(10.0-11.0)	(19.0-20.0)	(13.0-14.0)	(19.0-20.0)	(6.0-7.0)	(14.0-15.0)	(6.0-7.0)	(11.0-12.0)	(12.0-13.0)
Carbon Tetrachloride	mg/kg	14.3	B Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Chlorobenzene	mg/kg	1600	B Non Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Chloroethane	mg/kg			< 0.00573	--	< 0.00557	--	< 4.62	--	< 0.445	--	< 0.106	< 0.00588
Chloroform	mg/kg	32.3	B Cancer	< 0.00573	--	< 0.00557	--	< 4.62	--	< 0.445	--	< 0.106	< 0.00588
Chloromethane	mg/kg			< 0.00287	--	< 0.00278	--	< 2.31	--	< 0.223	--	< 0.0531	< 0.00294
cis-1,2-Dichloroethene	mg/kg	160	B Non Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
cis-1,3-Dichloropropene	mg/kg	10.0	B Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Cymene (p-Isopropyltoluene)	mg/kg			< 0.00115	--	< 0.00111	--	<b>2.32</b>	--	<b>0.104</b>	--	< 0.0212	< 0.00118
Dibromochloromethane	mg/kg	11.9	B Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Dibromomethane	mg/kg	800	B Non Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Dichlorodifluoromethane	mg/kg	16000	B Non Cancer	< 0.00573	--	< 0.00557	--	< 4.62	--	< 0.445	--	< 0.106	< 0.00588
Di-Isopropyl ether (DIPE)	mg/kg			< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Freon 113	mg/kg	2400000	B Non Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Hexachlorobutadiene	mg/kg	12.8	B Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Isopropylbenzene	mg/kg	8000	B Non Cancer	<b>0.00549</b>	--	< 0.00111	--	<b>16.1</b>	--	<b>0.878</b>	--	< 0.0212	<b>0.00673</b>
Methyl Ethyl Ketone (2-Butanone)	mg/kg	48000	B Non Cancer	< 0.0115	--	< 0.0111	--	< 9.25	--	< 0.891	--	< 0.212	< 0.0118
Methyl Isobutyl Ketone (MIBK)	mg/kg	6400	B Non Cancer	< 0.0115	--	< 0.0111	--	< 9.25	--	< 0.891	--	< 0.212	< 0.0118
Methyl tert-Butyl ether	mg/kg	0.1	Method A	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Methylene Chloride	mg/kg	0.02	Method A	< 0.00573	--	< 0.00557	--	< 4.62	--	< 0.445	--	< 0.106	< 0.00588
Naphthalene	mg/kg	5	Method A	< 0.00573	--	< 0.00557	--	<b>45.9</b>	--	<b>1.36</b>	--	< 0.106	< 0.00588
n-Butylbenzene	mg/kg	4000	B Non Cancer	<b>0.00160</b>	--	< 0.00111	--	<b>16.8</b>	--	<b>0.579</b>	--	< 0.0212	<b>0.00471</b>
n-Propylbenzene	mg/kg	8000	B Non Cancer	<b>0.0177</b>	--	< 0.00111	--	<b>72.4</b>	--	<b>3.63</b>	--	<b>0.0600</b>	<b>0.0314</b>
Sec-Butylbenzene	mg/kg	8000	B Non Cancer	<b>0.00220</b>	--	< 0.00111	--	<b>5.87</b>	--	<b>0.316</b>	--	< 0.0212	<b>0.00578</b>
Styrene	mg/kg	16000	B Non Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Tert-Butylbenzene	mg/kg	8000	B Non Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Tetrachloroethene (PCE)	mg/kg	0.05	Method A	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
trans-1,2-Dichloroethene	mg/kg	1600	B Non Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
trans-1,3-Dichloropropene	mg/kg	10.0	B Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Trichloroethene (TCE)	mg/kg	0.03	Method A	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118
Trichlorofluoromethane	mg/kg	24000	B Non Cancer	< 0.00573	--	< 0.00557	--	< 4.62	--	< 0.445	--	< 0.106	< 0.00588
Vinyl Chloride	mg/kg	0.670	B Cancer	< 0.00115	--	< 0.00111	--	< 0.925	--	< 0.0891	--	< 0.0212	< 0.00118

**13800** Detected concentrations above the cleanup level are shaded yellow and bolded.  
**< 0.0891** Non-detect values above the cleanup level are shaded gray and italicized.  
**0.292** Detected concentrations at or above the method reporting limit are shown in bold.

#### Abbreviations and Symbols

" - " denotes not measured, not available, or not applicable.

" < " denotes not detected at or above the indicated method reporting limit.

"DUP" denotes a field duplicate sample. Primary sample ID is provided beneath the duplicate sample ID.

Total cPAHs (HitsOnly) = Possible total cPAHs are based on the relative toxicity of each cPAH to benzo(a)pyrene and were calculated by multiplying the individual detected cPAH concentrations by a toxicity equivalency factor (TEF) and summing the adjusted concentrations.

Total CPAs (HalfDL) = Possible total cPAHs are based on the relative toxicity of each cPAH to benzo(a)pyrene and were calculated by multiplying the individual detected cPAH concentrations by a toxicity equivalency factor (TEF) and summing the adjusted concentrations. If an individual cPAH was not detected, a value of one half the method reporting limit was used in the calculation.

Total PCBs (HitsOnly) = Total PCB concentration based on the sum of individual aroclor concentrations detected.

Total PCBs (HalfDL) = Total PCB concentration based on the sum of individual aroclor concentrations detected.

If an individual PCB aroclor was not detected, a value of one half the method reporting limit was used in the calculation.

bgs = below ground surface

ft = feet

mg/kg = milligrams per kilogram

#### Cleanup Levels (CULs)

Cleanup level values based on Model Toxics Control Act (MTCA) Method A values for unrestricted land use (Method A) based on Washington State Administrative Code (WAC) 173-340-740 Table 740-1.

Where MTCA Method A values are not available, the lowest of MTCA Method B values (B Cancer or B Non Cancer) from Cleanup Levels and Risk Calculation (CLARC) tables have been used (Accessed January 2017).

#### Methods

Samples analyzed for gasoline-range organics (GRO) using Northwest Total Petroleum Hydrocarbon (NWTPH)-Gx and diesel- and oil-range organics (DRO and ORO) using NWTPH-Dx (without silica gel cleanup).

Samples analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and Volatile Organic Compounds using EPA Method 8260.

Samples analyzed for metals using EPA Method 6010 except for mercury which was analyzed using EPA Method 7471.

Samples analyzed for Semivolatile Organic Compound using EPA Method 8270 with selective ion monitoring (SIM).

Samples analyzed for Polychlorinated Biphenyls using EPA Method 8082.

TABLE 2

**GROUNDWATER SAMPLE ANALYTICAL RESULTS**  
**Midas Muffler Fauntleroy Site**  
**Seattle, Washington**

		Location	B-01	B-05	B-05
		Date	3/1/2017	3/1/2017	3/1/2017
		Sample ID	B-1	B-5	DUP-1-GW
		Parent Sample ID		B-5	
		Depth to water (btoc)	Recon Well	Recon Well	Recon Well
		Screen Interval (bgs)	10-20 ft	10-20 ft	10-20 ft
		Note			
Chemical	Unit	TEF	MTCA A Then Lowest B CUL		
<b>Total Petroleum Hydrocarbons</b>					
Gasoline-Range Organics	µg/L		800/1000	Method A	<b>2440</b> <b>6120</b> <b>5520</b>
Oil-Range Organics	µg/L		500	Method A	< 165      < 330      < 330
Diesel-Range Organics	µg/L		500	Method A	<b>599</b> <b>688</b> <b>771</b>
<b>BTEX</b>					
Benzene	µg/L		5	Method A	<b>27.3</b> <b>5.30</b> <b>5.40</b>
Toluene	µg/L		1000	Method A	<b>4.09</b> <b>3.13</b> <b>3.18</b>
Ethylbenzene	µg/L		700	Method A	<b>109</b> <b>44.0</b> <b>43.4</b>
Xylene, total	µg/L		1000	Method A	<b>71.5</b> <b>120</b> <b>118</b>
<b>Semi Volatile Organic Compounds using SIM</b>					
1-Methylphthalene	µg/L		1.51	B Cancer	<b>32.0</b> <b>37.7</b> <b>40.2</b>
2-Chloronaphthalene	µg/L		640	B Non Cancer	< 0.00647      < 0.00647      < 0.00647
2-Methylphthalene	µg/L		32	B Non Cancer	<b>46.7</b> <b>57.1</b> <b>60.8</b>
Acenaphthene	µg/L		960	B Non Cancer	<b>0.0719</b> <b>0.138</b> <b>0.144</b>
Acenaphthylene	µg/L				< 0.0120 <b>0.0246 J</b> <b>0.0256 J</b>
Anthracene	µg/L		4800	B Non Cancer	< 0.0140      < 0.0140      < 0.0140
Benzo(a)anthracene	µg/L	0.1	0.120	B Cancer	< 0.00410      < 0.00410      < 0.00410
Benzo(a)pyrene	µg/L	1	0.1	Method A	< 0.0116      < 0.0116      < 0.0116
Benzo(b)Fluoranthene	µg/L	0.1	0.120	B Cancer	< 0.00212      < 0.00212      < 0.00212
Benzo(g,h,i)Perylene	µg/L				< 0.00227      < 0.00227      < 0.00227
Benzo(k)Fluoranthene	µg/L	0.1	1.20	B Cancer	< 0.0136      < 0.0136      < 0.0136
Chrysene	µg/L	0.01	12.0	B Cancer	< 0.0108      < 0.0108      < 0.0108
Dibenz(a,h)Anthracene	µg/L	0.1	0.0120	B Cancer	< 0.00396      < 0.00396      < 0.00396
Fluoranthene	µg/L		640	B Non Cancer	< 0.0157      < 0.0157      < 0.0157
Fluorene	µg/L		640	B Non Cancer	<b>0.108</b> <b>0.326</b> <b>0.339</b>
Indeno(1,2,3-c,d)Pyrene	µg/L	0.1	0.120	B Cancer	< 0.0148      < 0.0148      < 0.0148
Naphthalene	µg/L		160	Method A	<b>5.24</b> <b>16.5</b> <b>18.3</b>
Phenanthrene	µg/L				<b>0.0229 J</b> <b>0.162</b> <b>0.160</b>
Pyrene	µg/L		480	B Non Cancer	< 0.0117      < 0.0117      < 0.0117
Total cPAH (HalfDL)	µg/L	0.1		Method A	< 0.00778      < 0.00778      < 0.00778
Total cPAH (HitsOnly)	µg/L	0.1		Method A	< 0.00      < 0.00      < 0.00
<b>Volatile Organic Compounds</b>					
1,1,1,2-Tetrachloroethane	µg/L		1.68	B Cancer	< 0.385      < 0.385      < 0.385
1,1,1-Trichloroethane	µg/L		200	Method A	< 0.319      < 0.319      < 0.319
1,1,2,2-Tetrachloroethane	µg/L		0.219	B Cancer	< 0.130      < 0.130      < 0.130
1,1,2-Trichloroethane	µg/L		0.768	B Cancer	< 0.383      < 0.383      < 0.383
1,1-Dichloroethane	µg/L		7.68	B Cancer	< 0.259      < 0.259      < 0.259
1,1-Dichloroethene	µg/L		400	B Non Cancer	< 0.398      < 0.398      < 0.398
1,1-Dichloropropene	µg/L				< 0.352      < 0.352      < 0.352
1,2,3-Trichlorobenzene	µg/L				< 0.230      < 0.230      < 0.230
1,2,3-Trichloropropane	µg/L	0.00146		B Cancer	< 0.807      < 0.807      < 0.807
1,2,3-Trimethylbenzene	µg/L				<b>12.8</b> <b>134</b> <b>139</b>
1,2,4-Trichlorobenzene	µg/L	1.51		B Cancer	< 0.355      < 0.355      < 0.355
1,2,4-Trimethylbenzene	µg/L				<b>1.65</b> <b>468</b> <b>509</b>
1,2-Dibromo-3-Chloropropane	µg/L	0.0547		B Cancer	< 1.33      < 1.33      < 1.33
1,2-Dibromoethane (EDB)	µg/L	0.01		Method A	< 0.381      < 0.381      < 0.381
1,2-Dichlorobenzene	µg/L		720	B Non Cancer	< 0.349      < 0.349      < 0.349
1,2-Dichloroethane (EDC)	µg/L		0.481	B Cancer	< 0.361      < 0.361      < 0.361
1,2-Dichloropropane	µg/L		1.22	B Cancer	< 0.306      < 0.306      < 0.306
1,3,5-Trimethylbenzene	µg/L		80	B Non Cancer	<b>15.3</b> <b>181</b> <b>181</b>
1,3-Dichlorobenzene	µg/L				< 0.220      < 0.220      < 0.220
1,3-Dichloropropane	µg/L				< 0.366      < 0.366      < 0.366
1,4-Dichlorobenzene	µg/L	8.10		B Cancer	< 0.274      < 0.274      < 0.274
2,2-Dichloropropane	µg/L				< 0.321      < 0.321      < 0.321
2-Chlorotoluene	µg/L		160	B Non Cancer	< 0.375      < 0.375      < 0.375
4-Chlorotoluene	µg/L				< 0.351      < 0.351      < 0.351
Acetone	µg/L		7200	B Non Cancer	< 10.0      < 10.0      < 10.0
Acrolein	µg/L		4	B Non Cancer	< 8.87      < 8.87      < 8.87
Acrylonitrile	µg/L	0.0810		B Cancer	< 1.87      < 1.87      < 1.87
Bromobenzene	µg/L				< 0.352      < 0.352      < 0.352
Bromodichloromethane	µg/L		0.706	B Cancer	< 0.380      < 0.380      < 0.380
Bromoform	µg/L		5.54	B Cancer	< 0.469      < 0.469      < 0.469
Bromomethane	µg/L		11.2	B Non Cancer	< 0.866      < 0.866      < 0.866

TABLE 2

**GROUNDWATER SAMPLE ANALYTICAL RESULTS**  
**Midas Muffler Fauntleroy Site**  
**Seattle, Washington**

Chemical	Unit	TEF	MTCA A Then Lowest B CUL		
			B-01	B-05	B-05
			3/1/2017	3/1/2017	3/1/2017
			B-1	B-5	DUP-1-GW
				B-5	
			Recon Well	Recon Well	Recon Well
Carbon Tetrachloride	µg/L	0.625	B Cancer	< 0.379	< 0.379
Chlorobenzene	µg/L	160	B Non Cancer	< 0.348	< 0.348
Chloroethane	µg/L			< 0.453	< 0.453
Chloroform	µg/L	1.41	B Cancer	<b>7.06</b>	< 0.324
Chloromethane	µg/L			< 0.276	< 0.276
cis-1,2-Dichloroethene	µg/L	16	B Non Cancer	< 0.260	< 0.260
cis-1,3-Dichloropropene	µg/L	0.438	B Cancer	< 0.418	< 0.418
Cymene (p-Isopropyltoluene)	µg/L			<b>1.71</b>	<b>4.38</b>
Dibromochloromethane	µg/L	0.521	B Cancer	< 0.327	< 0.327
Dibromomethane	µg/L	80	B Non Cancer	< 0.346	< 0.346
Dichlorodifluoromethane	µg/L	1600	B Non Cancer	< 0.551	< 0.551
Di-Isopropyl ether (DIPE)	µg/L			< 0.320	< 0.320
Freon 113	µg/L	240000	B Non Cancer	< 0.303	< 0.303
Hexachlorobutadiene	µg/L	0.561	B Cancer	< 0.256	< 0.256
Isopropylbenzene	µg/L	800	B Non Cancer	<b>54.8</b>	<b>51.6</b>
Methyl ethyl ketone (2-Butanone)	µg/L	4800	B Non Cancer	< 3.93	< 3.93
Methyl Isobutyl Ketone (MIBK)	µg/L	640	B Non Cancer	< 2.14	< 2.14
Methyl tert-Butyl ether	µg/L	20	Method A	< 0.367	< 0.367
Methylene Chloride	µg/L	5	Method A	< 1.00	< 1.00
Naphthalene	µg/L	160	Method A	<b>5.46</b>	<b>21.2</b>
n-Butylbenzene	µg/L	400	B Non Cancer	<b>6.25</b>	<b>14.4</b>
n-Propylbenzene	µg/L	800	B Non Cancer	<b>155</b>	<b>190</b>
Sec-Butylbenzene	µg/L	800	B Non Cancer	<b>7.74</b>	<b>17.7</b>
Styrene	µg/L	1600	B Non Cancer	< 0.307	< 0.307
Tert-Butylbenzene	µg/L	800	B Non Cancer	< 0.399	< 0.399
Tetrachloroethene (PCE)	µg/L	5	Method A	< 0.372	< 0.372
trans-1,2-Dichloroethene	µg/L	160	B Non Cancer	< 0.396	< 0.396
trans-1,3-Dichloropropene	µg/L	0.438	B Cancer	< 0.419	< 0.419
Trichloroethene (TCE)	µg/L	5	Method A	< 0.398	< 0.398
Trichlorofluoromethane	µg/L	2400	B Non Cancer	< 1.20	< 1.20
Vinyl Chloride	µg/L	0.2	Method A	< 0.259	< 0.259
<b>Metals</b>					
Arsenic, Dissolved	µg/L	5	Method A	< 6.50	< 6.50
Barium, Dissolved	µg/L	3200	B Non Cancer	<b>39.9</b>	<b>42.1</b>
Cadmium, Dissolved	µg/L	5	Method A	< 0.700	< 0.700
Chromium, Dissolved	µg/L	50	Method A	< 1.40	< 1.40
Lead, Dissolved	µg/L	15	Method A	< 1.90	< 1.90
Mercury, Dissolved	µg/L	2	Method A	< 0.0490	< 0.0490
Selenium, Dissolved	µg/L	80	B Non Cancer	< 7.40	< 7.40
Silver, Dissolved	µg/L	80	B Non Cancer	< 2.80	< 2.80

2440
< 0.807
<b>4.09</b>

Detected concentrations above the cleanup level are shaded yellow and bolded.  
Non-detect values above the cleanup level are shaded gray and italicized.  
Detected concentrations at or above the method detection limit are shown in bold.

**Abbreviations and Symbols**

" - " denotes not measured, not available, or not applicable.  
"< " denotes not detected at or above the indicated method detection limit.  
"DUP" denotes a field duplicate sample. Primary sample ID is provided beneath the duplicate sample ID.  
"J" indicates an estimated concentration based on either being less than the laboratory reporting limit or data validation findings.  
Total cPAHs (HitsOnly) = Possible total cPAHs are based on the relative toxicity of each cPAH to benzo(a)pyrene and were calculated by multiplying the individual detected cPAH concentrations by a toxicity equivalency factor (TEF) and summing the adjusted concentrations.  
Total cPAHs (HalfDL) = Possible total cPAHs are based on the relative toxicity of each cPAH to benzo(a)pyrene and were calculated by multiplying the individual detected cPAH concentrations by a toxicity equivalency factor (TEF) and summing the adjusted concentrations.  
If an individual cPAH was not detected, a value of one half the method detection limit was used in the calculation.  
Recon Well = Reconnaissance groundwater sample. The groundwater sample was collected directly from the soil boring from a temporary well with a screen interval as specified. A depth to water was not provided due to the temporary nature of the reconnaissance groundwater sample.  
bgs = below ground surface  
btoc = below top of casing  
ft = feet  
µg/L = micrograms per liter

**Cleanup Levels**

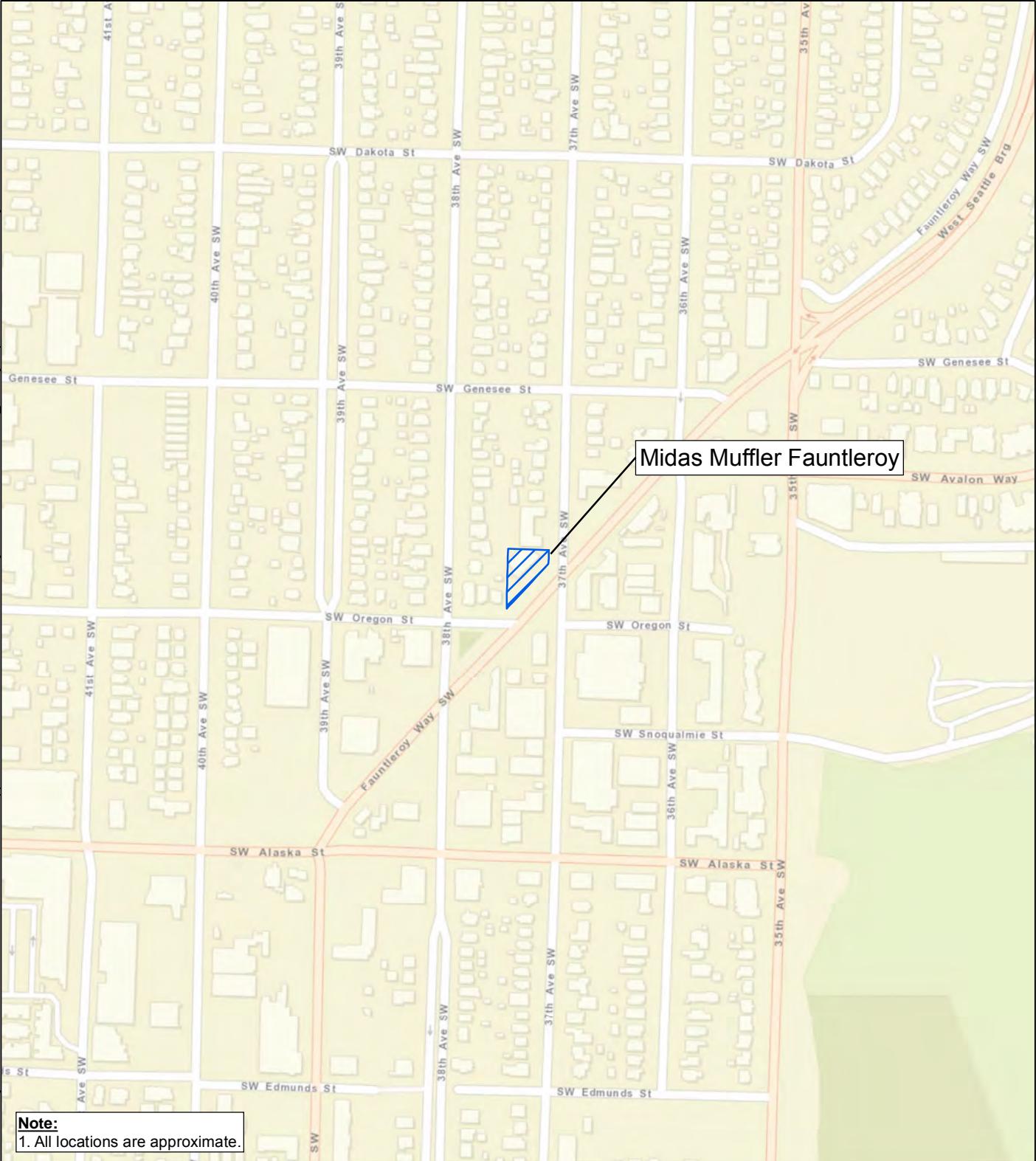
Cleanup level values based on Model Toxics Control Act (MTCA) Method A values for groundwater (Method A) based on Washington State Administrative Code (WAC) 173-340-740 Table 720-1. Where MTCA Method A values are not available, the lowest of MTCA Method B values (B Cancer or B Non Cancer) from Cleanup Levels and Risk Calculation (CLARC) tables have been used (Accessed January 2017).

**Methods**

Samples analyzed for gasoline-range organics (GRO) using Northwest Total Petroleum Hydrocarbon (NWTPH)-Gx and diesel- and oil-range organics (DRO and ORO) using NWTPH-Dx (without silica gel cleanup).  
Samples analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and Volatile Organic Compounds using EPA Method 8260.  
Samples analyzed for metals using EPA Method 6010 except mercury which was analyzed by EPA Method 7470.  
Samples analyzed for Semivolatile Organic Compound using EPA Method 8270 with selective ion monitoring (SIM).

## Figures

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Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap



N

0 200 400  
Scale: Feet

**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy Site  
Seattle, Washington

**Vicinity Map**

KJ 1696059\*00

**Figure 1**



Path: Q:\Projects\2016\1696059.00\WDOE LDW LUSTs-SHA Support\Sites\10302 Midas Muffler Fauntleroy\GIS\Events\CSID10302\_SiteMap.mxd ©2017 Kennedy/Jenks Consultants

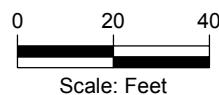
#### Legend

- 2017 Soil Borings
- Cross Section Location
- Suspected Location of USTs
- Parcel Boundary

#### Notes:

1. All locations are approximate.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy Site  
Seattle, Washington

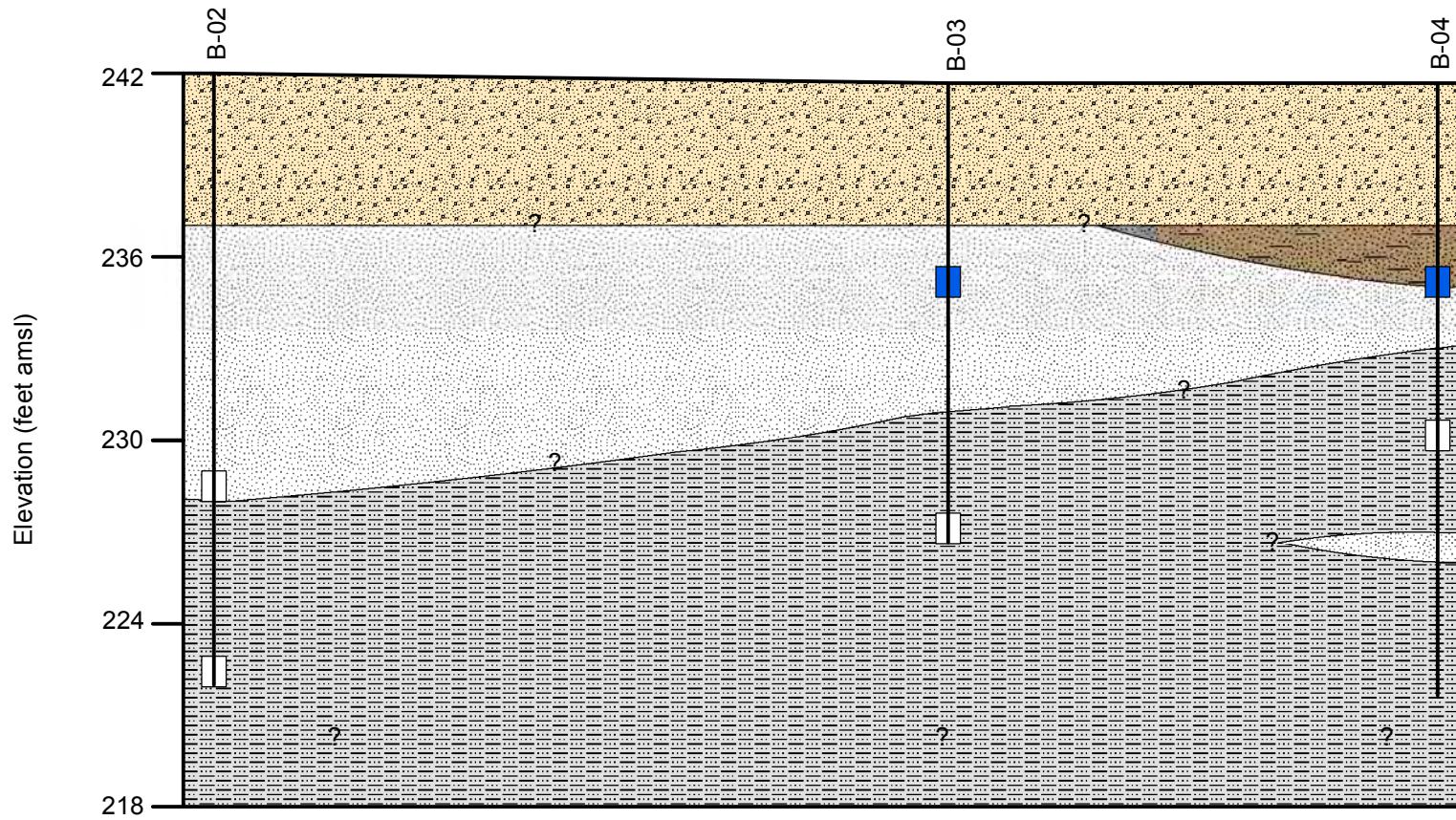
**Site Map**

KJ 1696059\*00

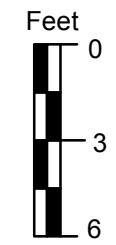
**Figure 2**

**A (Northwest)**

**A' (Southeast)**



Vertical Exaggeration  
= 1x



**Notes:**

1. All locations are approximate.
2. Groundwater was not encountered.
3. amsl = above mean sea level.
4. Elevation data from Google Earth, 2017.

**Legend**

- Brown, fine to medium sand with gravel, cobbles, concrete/asphalt fragments, and trace silt
- Gray, silty, fine sand, some medium sand
- Gray, sandy, clayey, silt with gravel
- Dark brown, fine, sandy silt with gravel

**B-02 Soil Boring with Sampling Interval**

- White box: GRO concentration in soil is less than MTCA Method A CUL (30 mg/kg with benzene) or not detected
- Blue box: GRO concentration in soil is greater than MTCA Method A CUL (30 mg/kg with benzene)

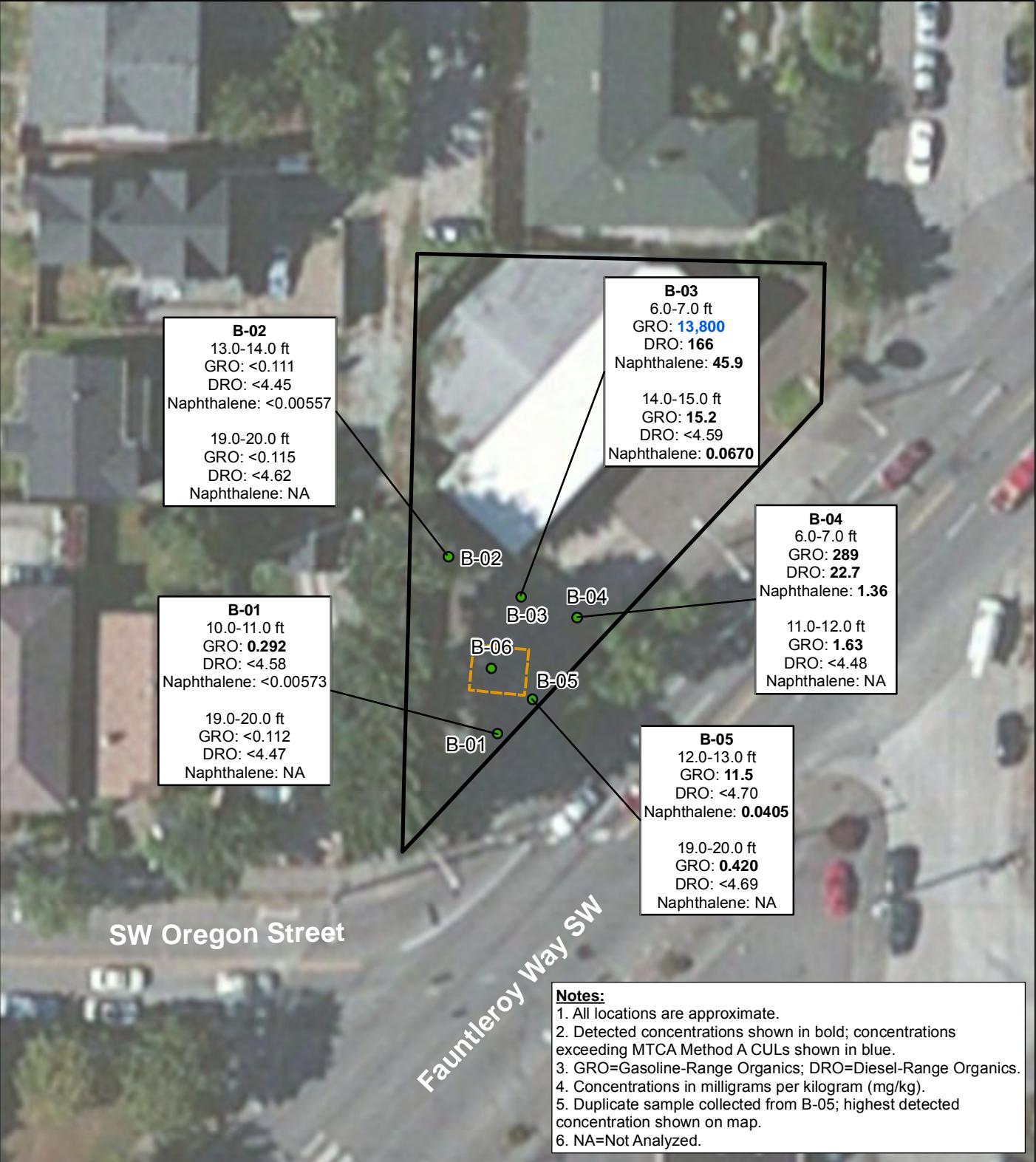
**Kennedy/Jenks Consultants**

Midas Muffler Fauntroy Site  
Seattle, Washington

**Interpretive Geologic Cross Section A-A'**

KJ 1696059\*00

**Figure 3**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

#### Legend

- 2017 Soil Borings
- ◻ Suspected Location of USTs
- ◻ Parcel Boundary

N

0 20 40  
Scale: Feet

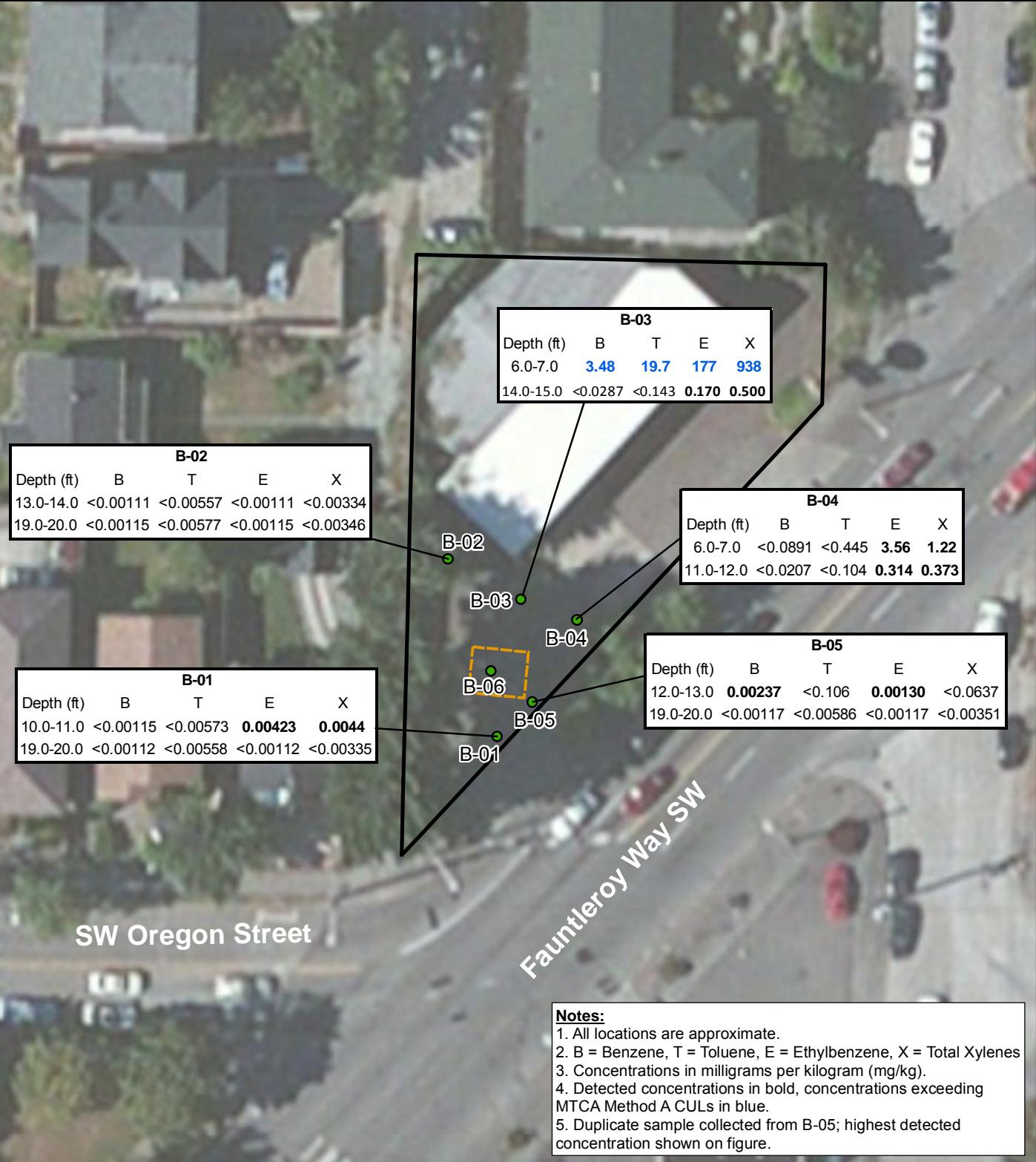
**Kennedy/Jenks Consultants**

Midas Muffler Fauntley Site  
Seattle, Washington

**GRO, DRO, and Naphthalene Concentrations in Soil**

K/J 1696059\*00

**Figure 4**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

#### Legend

- 2017 Soil Borings
- ◻ Suspected Location of USTs
- ◻ Parcel Boundary

N

0 20 40  
Scale: Feet

**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy Site  
Seattle, Washington

**BTEX Concentrations  
in Soil**

K/J 1696059\*00

**Figure 5**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

#### Legend

- 2017 Soil Borings
- Parcel Boundary

████████ Suspected Location of USTs

#### Notes:

1. All locations are approximate.
3. GRO = Gasoline Range Organics; DRO = Diesel Range Organics
4. Duplicate sample collected from B-05; highest detected concentration shown on figure.
5. All concentrations in µg/l.
6. Concentrations exceeding MTCA Method A CULs shown in blue.

N



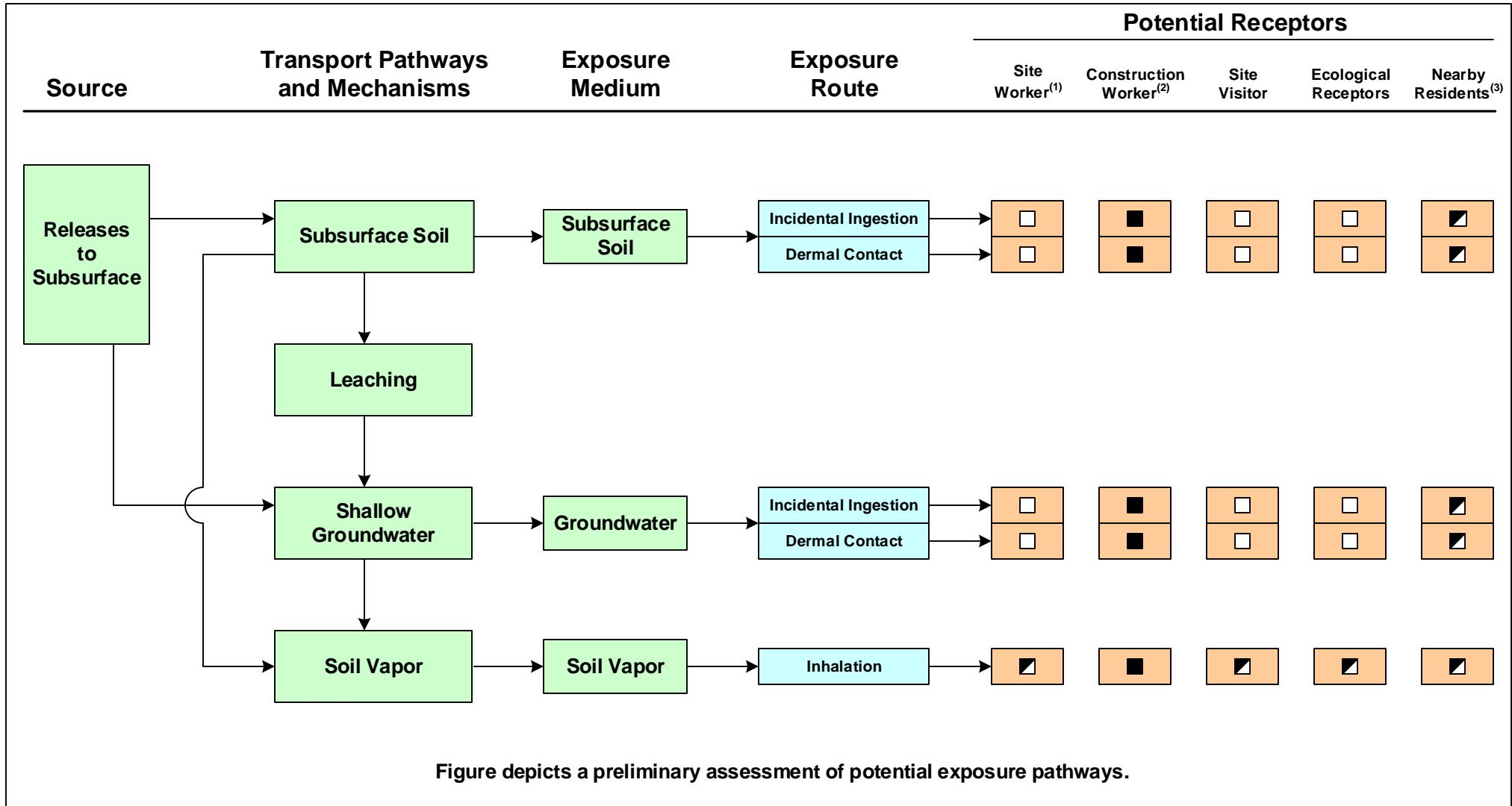
**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy Site  
Seattle, Washington

**Contaminant Concentrations  
in Groundwater**

K/J 1696059\*00

**Figure 6**



**Legend:**

- Complete exposure pathway.
- Incomplete exposure pathway.
- Potentially complete exposure pathway or insufficient information.

**Notes:**

1. On site service station employees.
2. On site construction and/or industrial workers performing invasive activities.
3. Assumes no contact with shallow groundwater as residences are connected to City water service.

**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy Site  
Seattle, WA

Preliminary Conceptual Site Model

K/J 1696059\*00

**Figure 7**

## Appendix A

---

### Historical Aerial Photographs



### Legend

Approximate Site Location

### Note:

1. Aerial photo from King County, 1936.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1936 Aerial Image**

1696059\*00  
April 2017

**Figure A-1**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from United States Army Corps of Engineers, 1942.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1942 Aerial Image**

1696059\*00  
April 2017

**Figure A-2**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from Department of Natural Resources, 1952.

**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

N



**1952 Aerial Image**

1696059\*00  
April 2017

**Figure A-3**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from Department of Natural Resources, 1959.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1959 Aerial Image**

1696059\*00  
April 2017

**Figure A-4**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from Department of Natural Resources, 1965.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1965 Aerial Image**

1696059\*00  
April 2017

**Figure A-5**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from Department of Natural Resources, 1970.

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Midas Muffler Fauntleroy  
Seattle, Washington

N

0 50 100  
Scale: Feet

**1970 Aerial Image**

1696059\*00  
April 2017

**Figure A-6**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from Department of Natural Resources, 1978.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1978 Aerial Image**

1696059\*00  
April 2017

**Figure A-7**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from the Department of Natural Resources, 1985.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1985 Aerial Image**

1696059\*00  
April 2017

**Figure A-8**



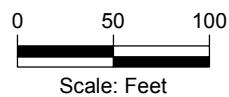
#### Legend

Approximate Site Location

#### Note:

1. Aerial photo from the United States Geological Survey, 1990.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1990 Aerial Image**

1696059\*00  
April 2017

**Figure A-9**



### Legend

Approximate Site

### Note:

1. Aerial photo from the Department of Natural Resources, 1992.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**1992 Aerial Image**

1696059\*00  
April 2017

**Figure A-10**



### Legend

Approximate Site Location

### Note:

1. Aerial photo from the United States Geological Survey, 2002.

N

0 50 100  
Scale: Feet

**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**2002 Aerial Image**

1696059\*00  
April 2017

**Figure A-11**



### Legend

Approximate Site Location

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**2011 Aerial Image**

16996059\*00  
April 2017

**Figure A-12**

**Note:**

1. Aerial photo from Google Earth, 2011.

## **Appendix B**

---

### **Title Search Records**

**METROSCAN**  
**PROPERTY PROFILE**

Parcel ID	:095200 4790	Bldg	:1	Total	:\$1,831,700
Owner	Midas Properties Inc			Land	:\$1,830,700
CoOwner	:			Struct	:\$1,000
Site Addr	4457 Fauntleroy Way SW Seattle 98126			%Imprvd	:
Mail Addr	PO Box 52427 Atlanta Ga 30355			Levy Cd	:0010
Sale Date	:07/20/1989	Doc#	:133	2016 Tax	:\$18,673.15
SalePrice	:\$134,928	Deed	:Quit Claim	Phone	:
Loan Amt	:			Vol	:3 Pg:19
Use Code	216 IND,SERVICE BLDG			MapGrid	:
Zoning	NC365			NbrhdCd	:045040
Prop Desc	Midas Muffler Shop			-- CENSUS --	
Legal	BOSTON COMPANYS PLAT OF W S & VAC :POR ST ADJ LESS ST PLAT BLOCK: 37 :PLAT LOT: 18 THRU 23			Tract	:98.00
				Block	:3
				QSTR	:SE 14 24N 03E

**BUILDING INFO**

	1st Floor SF	:	Year Built	:1965
Bedrooms	2nd Floor SF	:	Eff Year	:1990
Bath Full	3rd Floor SF	:	Bldg Matl	:Wood Frame
Bath 3/4	Half Floor SF	:	Bldg Cond	:
Bath 1/2	AboveGrnd SF	:	Bldg Grade	:Avg\good
Fireplace	Bsmnt Finished	:	Interior	:
Laundry	Bsmnt Total SF	:	Insulation	:
Porch	Building SqFt	:4,050	HeatSource	:
Deck	DeckSqFt	:	Heat Type	:Space Heater
Stories	Garage Type	:	Air Method	:
Units	Attached GrgSF	:	Wtr Source	:Water District
Nuisance	Bsmnt ParkingSF	:	Sewer Type	:Public
Easements	Basement Type	:	Purpose	:
DesignType	Basement Grade	:		

**LAND INFORMATION**

St Access	Public	Lot SqFt	:11,442	St Surface	Paved	Soundproof	:
Beach Acc		Lot Acres	:.26	Elevator	:	Storage	:
WtrFront		Lot Shape	:Restricted	Sprinklers	:No	Security	:
WtrFntLoc		Tde/Uplnd		Golf Adj	:		
WtrFrntFT		TopoProbd					

**OTHER INFORMATION**

OWNERS		TRANSFER HISTORY					
		DATE	/DOC #	PRICE	DEED	LOAN	TYPE
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	
:	:	:	:	:	:	:	

etc.214

QUITCLAIM DEED

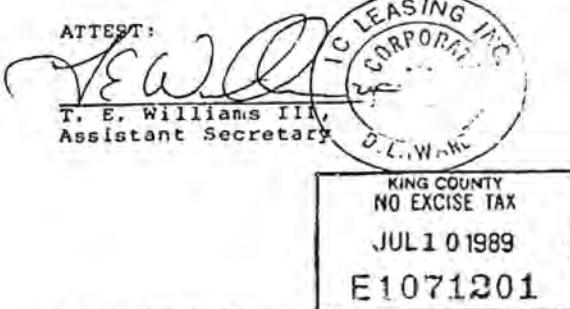
I C LEASING, INC., a Delaware corporation, having its principal place of business at 111 East Wacker Drive, Chicago, Illinois, for and in consideration of One Hundred Thirty Four Thousand Nine Hundred Twenty Six and 88/100ths Dollars (\$ 134,926.88) does hereby remise, release, and forever quit-claim to MIDAS PROPERTIES, INC., a New York corporation, having its principal place of business at 225 North Michigan Avenue Chicago, Illinois, all of I C Leasing, Inc.'s right, title and interest to and in the following described real property in the city of Seattle, County of King, State of Washington, to wit:

(LEGAL DESCRIPTION ATTACHED HERETO AS EXHIBIT A)

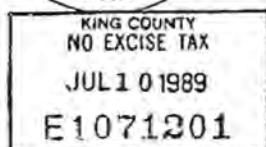
Prior Reference: #W3672-3  
893899  
8608220107

IN WITNESS WHEREOF, I C Leasing, Inc. has caused this instrument to be signed by its authorized corporate officers and its corporate seal affixed hereto this 30th day of January, 1989.

ATTEST:



T. E. Williams III,  
Assistant Secretary



STATE OF ILLINOIS )  
COUNTY OF COOK ) SS:

I C LEASING, INC.

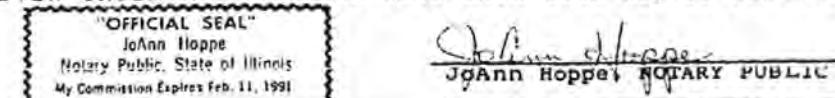
By: G. C. Keiser  
G. C. Keiser,  
Vice President

WITNESSES:

Nancy Kinsler  
Nancy Kinsler  
JoAnn Hoppe

Before me appeared G. C. Keiser, and T. E. Williams III, personally known to me to be the Vice President and Assistant Secretary, respectively, of I C Leasing, Inc., a Delaware corporation, and severally acknowledged that as such Officers, they executed and delivered the foregoing instrument on behalf of said corporation and caused the corporate seal to be affixed thereto, pursuant to authority given by the Board of Directors of said corporation as their free and voluntary act and as the free and voluntary act of said corporation, for the uses and purposes herein set forth.

GIVEN UNDER MY HAND AND SEAL this 30th day of January, 1989.



JoAnn Hoppe  
JoAnn Hoppe NOTARY PUBLIC

This instrument prepared by:  
Return recorded deed to:

Thomas E. Williams III, Esq.  
Midas Realty Corporation  
225 North Michigan Avenue  
Chicago, Illinois 60601

Send future tax bills to:

Midas Properties, Inc.  
225 North Michigan Avenue  
Chicago, Illinois 60601  
Attn: Real Estate Tax Dept.

39/07/20 6.00 #0133 D  
RECD F CASHSL \*\*\*\*6.00  
55

8907200133

LEGAL DESCRIPTION

4457 Fauntleroy  
West Seattle, Washington  
(King County)

Lots 18, 19, 20, 21, 22 and 23, Block 37, Boston Co.'s Plat of West Seattle according to the plat recorded in Volume 3 of Plats, Page 19, in King County, Washington, except that portion thereof condemned in King County Superior Court Case No. 93059 for the extension of Fauntleroy Avenue as provided by Ordinance No. 29063 of the City of Seattle, and that portion of Fauntleroy Avenue as established by Ordinance No. 29063 lying between the South Line of Lot 23, Block 37, Boston Co.'s plat of West Seattle, and a line 13.38 feet South of and Parallel therewith, and between the production South of the east line of the alley in said block and the production Southwesterly of the Northwesterly line of Fauntleroy Avenue as established by said ordinance.

JULY 8 1988 AM '88  
RECEIVED THIS DAY  
BY THE DIVISION OF  
RECORDS & EDITIONS  
KING COUNTY

EXHIBIT A

QUITCLAIM DEED

KING COUNTY  
NO EXCISE TAX  
AUG 21 1986  
893899

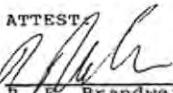
MIDAS REALTY CORPORATION, a Delaware Corporation having its principal place of business at 225 North Michigan Avenue, Chicago, Illinois, for and in consideration of One Dollar and No Cents (\$1.00) does hereby remise, release, and forever quitclaim to I.C. LEASING, INC., a Delaware corporation having its principal place of business at 111 E. Wacker Drive, Chicago, Illinois, all of Midas Realty Corporation's right, title and interest to and in the following described real property in King County, State of Washington,  
to wit:  
This conveyance is between related corporate entities and is not subject to any real estate transfer tax.

(LEGAL DESCRIPTION ATTACHED HERETO AS EXHIBIT A)

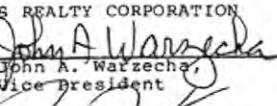
The actual consideration for this indenture is One Dollar and No Cents (\$1.00).

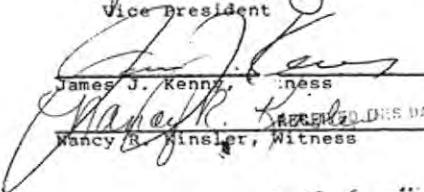
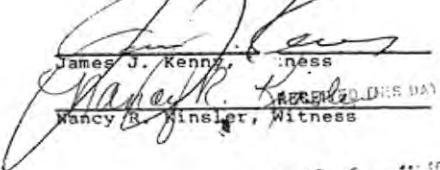
IN WITNESS WHEREOF, Midas Realty Corporation has caused this instrument to be signed by its authorized corporate officers and its corporate seal affixed hereto this 16th day of May, 1986.

ATTEST

  
R. F. Brandwein,  
Assistant Secretary

MIDAS REALTY CORPORATION

By:   
John A. Warzecha,  
Vice President

  
James J. Kenny, Witness  
  
Nancy B. Winsler, Witness

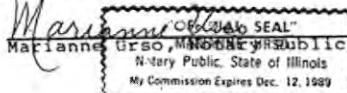
STATE OF ILLINOIS )  
                            ) SS:  
COUNTY OF COOK        )

AUG 22 8 32 PM '86

Before me appeared John A. Warzecha, residing at 145 W. Bailey Road, Naperville, Illinois 60565 and R. F. Brandwein, residing at 145 Linden Avenue, Glencoe, Illinois 60022, personally known to me to be the Vice President and Assistant Secretary, respectively, of Midas Realty Corporation, a Delaware corporation, and severally acknowledged that as such Officers, they executed and delivered the foregoing instrument on behalf of said corporation and caused the corporate seal to be affixed thereto, pursuant to authority given by the Board of Directors of said corporation as their free and voluntary act and as the free and voluntary act of said corporation, for the uses and purposes therein set forth.

GIVEN UNDER MY HAND AND SEAL this 16th day of May, 1986.

My commission expires:  
December 12, 1989



Received for Record \_\_\_\_\_, 1986 at \_\_\_\_\_ o'clock \_\_\_\_\_. m. in  
the land records of \_\_\_\_\_ County, State of \_\_\_\_\_, and  
recorded in (Volume) (Book) \_\_\_\_\_, Page \_\_\_\_\_ of said records in  
said County and State.

Please and recorded due to:  
This instrument prepared by:  
James J. Kenny, Esq.  
Midas Realty Corporation  
225 North Michigan Avenue  
Chicago, Illinois 60601

Please send future tax bills to:  
After recording return to:  
I.C. Leasing, Inc.  
c/o Midas Realty Corporation  
225 North Michigan Avenue  
Chicago, Illinois 60601  
Attn: Real Estate Tax Dept.

FILED BY CHICAGO TITLE INSURANCE CO.  
RECEIVED AUG 22 1986  
# 8608220107

LEGAL DESCRIPTION

4457 Fauntleroy  
West Seattle, Washington  
(King County)

8608220107

Lots 18, 19, 20, 21, 22 and 23, Block 37, Boston Co.'s Plat of West Seattle according to the plat recorded in Volume 3 of Plats, Page 19, in King County, Washington, except that portion thereof condemned in King County Superior Court Case No. 93059 for the extension of Fauntleroy Avenue as provided by Ordinance No. 29063 of the City of Seattle, and that portion of Fauntleroy Avenue as established by Ordinance No. 29063 lying between the South Line of Lot 23, Block 37, Boston Co.'s plat of West Seattle, and a line 13.38 feet South of and Parallel therewith, and between the production South of the east line of the alley in said block and the production Southwesterly of the Northwesterly line of Fauntleroy Avenue as established by said ordinance.

EXHIBIT A

Mail to: Midas International  
225 N Michigan Ave  
Chicago, Illinois 60601  
attn: James J. Kenny.

890355112

8608220107

A  
I  
0 0 0 4 1 7612150649  
0 0 0 0 0 0  
0 0 0 0 0 0  
DEC-12-76

A-140989 490  
6050

LIMITED WARRANTY DEED

THIS IS A DEED dated August 30, 1976, by SHELL OIL COMPANY, a Delaware corporation with offices at 400 108th Avenue Northeast in Bellevue, Washington 98004 (herein called "Grantor") to MIDAS REALTY CORPORATION at 222 South Riverside Plaza in Chicago, Illinois 60606 (herein called "Grantee"):

GRANTOR, for good and valuable consideration received hereby grants and conveys to Grantee the following described Premises situated in Seattle, County of King, State of Washington:

Lots 18, 19, 20, 21, 22 and 23, Block 37, Boston Co.'s Plat of West Seattle according to the plat recorded in Volume 3 of Plats, Page 19, in King County, Washington, except that portion thereof condemned in King County Superior Court Cause No. 93059 for the extension of Fauntleroy Avenue as provided by Ordinance No. 29063 of the City of Seattle, and that portion of Fauntleroy Avenue as established by Ordinance No. 29063, lying between the South Line of Lot 23, Block 37, Boston Co.'s plat of West Seattle, and a line 13.38 feet South of and Parallel therewith, and between the production South of the east line of the alley in said block and the production Southwesterly of the Northwesterly line of Fauntleroy Avenue as established by said ordinance.

together with all rights, privileges and appurtenances thereto and all buildings and land improvements thereon, but subject to all easements, rights-of-way, reservations, restrictions, and encumbrances of record, to any existing tenancies, to all zoning laws and ordinances, and to any state of facts an accurate survey or inspection of the premises would show;

TO HAVE AND TO HOLD the same unto Grantee and Grantee's successors, and assigns forever.

SUBJECT to the foregoing and to the liens of all taxes and assessments for the year 1976 and subsequent years, Grantor covenants with Grantee that Grantor will warrant and defend the title to the premises against the lawful claims of all persons claiming by, through or under Grantor.

GRANTEE covenants as part of the consideration for this conveyance, that, during the period of ten (10) years after the date of this Deed, no petroleum products for motor vehicles shall be advertised, stored, sold or distributed on the premises hereby conveyed, or any part thereof but such products may be stored and used on the premises for own consumption by the occupant thereof. Grantor's waiver of any breach of this covenant shall not constitute a waiver of this covenant or of any subsequent breach hereof. This covenant shall run with the land, shall bind Grantee's successors and assigns, and shall inure to the benefit of Grantor's successors and assigns.

EXECUTED by Grantor as of the date first herein specified.

WITNESSES:

M. M. B.  
De Besse  
J. Moore

SHELL OIL COMPANY

R. F. De BESSE, MANAGER  
REAL ESTATE ADMINISTRATION  
CORPORATE/REAL ESTATE

Attest J. Moore  
Assistant Secretary



STATE OF TEXAS  
COUNTY OF HARRIS } .55.

On this 30th day of August , 1976 , before me,

Cindy D. Caulking , a notary public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared

R. F. DeBesse , known to me to be the Manager Real Estate Administration or Shell Oil Company , the corporation that executed the within instrument, and acknowledged to me that such corporation executed the same.

In witness whereof, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:  
March 2, 1978

*Cindy D. Caulking*

Notary Public in and for Harris County, Texas  
My Commission Expires March 2, 1978  
Bonded by Alexander Lovett, Lawyers Surety Corp.



7612150649

5314852

LAWYERS  
TITLE INSURANCE  
CORPORATION  
SEATTLE, WASHINGTON

Filed for Record or Request of

NAME Washington Title Ins Co.

ADDRESS 719-2 Are

CITY AND STATE Seattle, 4, WA



B-626062

Statutory Warranty Deed

THIS SPACE RESERVED FOR RECORDER'S USE

AD FOR REASON AT REQUEST OF  
SEATTLE TITLE COMPANY  
719 SECOND AVE.  
SEATTLE 4, WASHINGTON



THE GRANTOR S., J. S. WHITING and MILDRED WHITING, his wife,  
for and in consideration of TEN DOLLARS (\$10.00) and other valuable consideration  
in hand paid, conveys and warrants to SHELL OIL COMPANY,

the following described real estate, situated in the County of King, State of Washington:

Lots 18, 19, 20, 21, 22 and 23, block 37, Boston Co's Plat of West Seattle, according to plat recorded in volume 3 of plats, page 19, in King County, Washington, EXCEPT that portion thereof condemned in King County Superior Court Cause No. 93059 for the extension of Fauntleroy Avenue as provided by Ordinance No. 29063 of the City of Seattle; and that portion of Fauntleroy Avenue as established by Ordinance No. 29063, lying between the south line of lot 23, block 37, Boston Co.'s Plat of West Seattle, and a line 13.38 feet south of and parallel therewith, and between the production south of the east line of the alley in said block and the production southwesterly of the northwesterly line of Fauntleroy Avenue as established by said Ordinance, SUBJECT only to easements, rights, restrictions and reservations of record.

SALES TAX LIEN PAID

6105 State  
6710 Federal

Dated this

AUG 7 1961  
A. P. TREASURER  
KING COUNTY TREASURER

day of July, 1961

(SEAL)

E434235

Mildred Whiting (SEAL)

STATE OF WASHINGTON

ss.

County of KING

On this 31st day of July, 1961, before me, the

undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared J. S. WHITING and MILDRED WHITING, his wife,

to me known to be the individuals described in and who executed the foregoing instrument, and acknowledged to me that they signed and sealed this said instrument as their free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 31st day of July, 1961.

J. S. Whiting  
Notary Public in and for the State of Washington,  
residing at Seattle

AUG 8- 1961 830 Filed by WTI

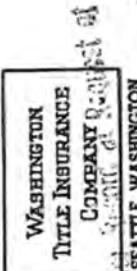
500.402

Statutory Warranty Deed

RECORDED  
VOL.  
PAGE ..... REQUEST OF

1959 MAR 5 AM 9 42

ROBERT A. MORRIS AUDITOR  
KING COUNTY WASH.  
DEPUTY



FILE

Native  
Name: D. J. Anderson  
Address: 44th & Blake Blvd.  
Seattle, Wash.

Send Tax Statement to \_\_\_\_\_

FORM L56

Statutory Warranty Deed

THE GRANTOR ROBERT E. BLAKEFIELD

for and in consideration of Ten dollars, and other consideration of value,  
in hand paid, conveys and warrants to J. S. WHITING and MILDRED WHITING, his wife,  
the following described real estate, situated in the County of King, State of Washington:

Lots 18 and 19, Block 27, Boston Co's Plat of West Seattle, according to plat thereof recorded in Volume 3 of Plats, Page 19, in King County, Washington. EXCEPT that portion thereof condemned in King County Superior Court Cause No. 93059 for the extension of Fauntleroy Avenue as provided by Ordinance No. 29063 of the City of Seattle.

SUBJECT TO rights of the City of Seattle under judgment on verdicts entered March 11, 1954 in King County Superior Court Cause No. 93059 to damage said promises by changing and establishing street grades as provided by Ordinance No. 29063 of said City.

~~ALL TAX LIEN~~  
**PAID**

MAR 5 1959

A. F. KEMPER  
KING COUNTY TREASURER

Dated this

3<sup>rd</sup> day of March, 1959

*Robert E. Blakefield* (SEAL)

(SEAL)

STATE OF WASHINGTON, {  
County of KING }

On this day personally appeared before me ROBERT E. BLAKEFIELD

to me known to be the individual described in and who executed the within and foregoing instrument, and acknowledged that he signed the same as his free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this

3<sup>rd</sup> day of March, 1959

*Franklin D. Anderson*  
Notary Public in and for the State of Washington,  
residing at Seattle

MAR 5 1959

D Jul 23-51 (NON TAXABLE #E 9191)  
Jun 27-51 \$1.00 --- ---

4155216

E  
A

Mary Louise McMinn Wheir fmy Mary Louise McMinn  
to Thomas E McMinn and Hannah McMinn h&w  
Fp cy and qc to sp the fol des re sit in kew

Lots 16 to 24 incl, blk 3, Holbrook and Clark's Add to West Seattle  
ln SWly of Glenway  
Lots 13 and 14 blk 5, Holbrook and Clark's Add to West Seattle;  
Lots 16 and 17, blk 3, por ln SWly of Glenway;  
Lots 20 to 23 incl blk 37, Boston Co's Plat to Cofs  
These pties desc above incl bldgs thon tgw all per. pty incl in  
bldgs.

Mary Louise McMinn Wheir

kew Jun 27-51 by Mary Louise McMinn Wheir fmy Mary Louise McMinn  
bef Vera S Smith np for wn res at S (ns eb 14-53)

M1 Floyd T Colvin 216-715 2nd Ave Bldg

sp

1

4155216

Lot 14 Blk 92 Gilman Park.

In pursuant to the provisions of Ord No. 71125 of The City of Seattle, the City has caused this instr to be exctd by its Mayor and City Comptroller thence duly authzd and has caused the copy to be hrst & fnd The City of Seattle  
(Seal) By W.F. Devin, Mayor

George A. Grant, Dep City Comptroller  
Kew Jul 19-46 by W.F. Devin and George A. Grant, Mayor & Dep City Comptroller, respctly, & of ad corp (ef) b/cf F.L. Collier npfrnressat (as Sep 25-49) Mts E J O'Keefe, 11th & 59th St, City

D Apr 21-47

3678719

Aug 9-46 \$1.

Mellie K. Hamilton, min her esp right of CTS, kew

to Wildred Blakefield of kew

The f/sd cons to sp all int in the fare, s/kew:

26/3

509

Lots 18 and 19 Blk 37 of Boston Co's. dist of East Seattle, less per taken for street

Mellie K. Hamilton

Kew Aug 9-46 by W. Mellie K. Hamilton, min her esp right, b/cf Robert Terhune npfrnressat (as Oct 27-47) 1118 Cosgrove, Terhune & Schlemstein?? 2002 Smith Dr, City

D Apr 21-47

3678720

Apr 1-47 \$10,87,701: x 4. 47 atx

26/3

Samuel E. Long & W. Frances Long, huf

to Donald E. Pettier & Billie J. Pettier, huf

The f/sd cons to sps the fare, s/kew:

5/11

Lot 17 Blk 41 Lake Ridge, Division two, addg to plot blf road in vol 32 of plats pg 37, recd of ad county.

Also known as 10821 Crestwood Dr.

Samuel E. Long

W. Frances Long

Kew Apr 1-47 by Samuel E. Long & W. Frances Long, huf, b/cf George E. Dunlap npfrnressat (as Sep 7-48) Mts Donald E. Pettier, 10821 Crestwood Dr, City

\*\*\*

7/10

22 Apr 8 46  
Apr 9 46

7/11/12/

Citizens Federal Savings & Loan Association of Seattle  
to William "Young and Jessie Young b/w

3556916

2019  
156

Receives full payt annv of its mtgds Oct 16 40, mthysp for \$2500  
and rec inthore and has Nov 7 40 file 3130517, inbook 1658 xp  
267 inndors with debt inthysps  
(orpol)

Citizens Federal Savings and Loan Association

E E Cushing president

GW Towell secy

22 Apr 8 46 by E E Cushing and GW Towell pres and secy of the corp of  
Belmont Wilson ap'teeents (NS) ch 6 50) fild byntes

\*\*\*

2 Apr 8 46

Apr 9 46 \$10. 417.60 inands \$15.00 st

J Pat Scott and Bea Scott b/w  
4.75 Whiting Miller & Hising, law

3556917

2457  
107

Receives and waives to apflg fee to citizens  
lens 20, 21, 22, and 23, blk 37, Boston's. Plator West  
Seattle, vol 3 plats pg 19 recordeds, ex permt of comodis to "Apr  
Court Case No 93069 for the cause of Penitentiary as vd byrd no  
29963 of these  
and refiled these under just overdrifts ents in the "Apr" Court  
Case No 93069 to damage ad rem by changing and establishing grades  
grading and regressing, as vd byrd no 29963 of sd city

J Pat Scott; Bea Scott

22 Apr 9 46 by J Pat Scott and Bea Scott b/w of JD George ap'tee  
s (NS) ch 8 47) ad ap 4500 salit eve fild byntes

\*\*\*

2 Apr 8 46

Apr 9 46 \$10 and over \$8.00 inands \$15.00 st

James J Harrison and Mary Harrison, b/w  
to Louis Blackelson and Mary S Michaelson, b/w

3556918

2457  
108

Receives and waives to apflg fee to citizens

lens 13 and 14, blk 6, Ayer & O'Hara's Ado between, vol 3  
plats pg 22, recordeds ex

James J Harrison; Mary S Harrison

22 Apr 9 46 by James J Harrison and Mary S Harrison, b/w of John J. Kelly  
ap'teeents (NS) ch 8 47) ad ap 4500 salit eve fild byntes

3556919

Whence sp are now the owners of ml pty and have res to therights  
of the lessor under sd lease and whereas the parties have mut agreed to  
a cancellation of sd lease thtfr sd lease is hry cancelled and  
terminated as of the et hry and allrights and liabilities of both  
parties under sd lease hry come.

Sp is to leave all lighting fixture except the two fluorescent fixture  
in the windows and is to vac the prem and rem all store fixture and  
merchandise therefrom immediately

Kenneth E. Saboles  
J. Pat Scott  
Bens Scott

Recd Jan 9 46 by Kenneth E. Saboles and J. Pat Scott and Bens Scott  
hlf of J. B. George Sp for the sp res at s as Jun 9 47 (ml sp 6500  
Calif Ave city)

Cancellation of Lease Jan 12 46

3531477

Jan 12 46 \$250

J. Pat Scott and Bens Scott, hlf  
and Kenneth E. Saboles

Whereas a cert lease was entered into Jan 27 45 between Thomas B. McMinn  
lessor and sp as lessee leasing the fl gds pty sitz now

The prem at 4477 Fauntleroy Ave, Seattle Wa lag des as a pte of Lots  
20, 21, 22 and 23, Blk 17, Boston Co's Plat of West Seattle accord to  
plat thereof rec vol 3 plat pg 19 .et of sd co Except pte cond in KC  
Sup Ct Cause No 93091 for the extension of Fauntleroy Ave as prov by  
Crt No 20053 of the GSCB

notices n/a res under m and fl. No 3531479 rid Jan 4 46.

Whence sp are now the owners of s pty and have res to the rights of  
lesser under sd lease and whereas the parties have mutually agreed to a  
cancellation of lease thtfr sd lease is hry cancelled and terminated  
as of the et hry and allrights and liabilities of both parties under  
sd lease hry come.

( bal inc sig and ask am as 476 abv)

Cost Jan 12 46

3531478

Jan 2 46

Hills Dr Thomas, a vid

to Sharon W. Thompson and Marguerite E. Thompson, hlf

Sp agrees to sell land sp agrees to pur the fl gds re sitz now

n 10 ft of lot 13 and all of lot 14 blk 2, Apler's Div of Green Lake  
Add to the Cols record to plat thereof rec vol 5 plat pg 8 res of m

Recd no notice of intent for sale sever & ft in width over and excess  
of pte and others pg 461 Blk 12 29 and rec Yea 13 29 vol 1421 Pte  
476 owner and fl. No 3531476 res of m  
the sum of \$10,750 or less \$200 less has been p. receipt d. and the bal to  
be paid in or more on or by Mch 10 46 and a like sum or more on or  
by Jun 10 46 and every day so thereafter until the full bal  
is paid and interest on same at 6% per ann from the Jun 1 46 has been paid.  
No interest will be charged on the bal after Jun 1 46 and the bal on account of same.

-----7729 4th St, City-----

Cancellation of Lease f/n 12 45  
Jan 10 46 \$250

J. Pat Scott and Ross Scott, Inc.  
Kenneth E. Scholae

Whereas a oral lease was made late on Oct 7 44 between Thomas B. McNamee  
lessor and sp as lessee leasing the fl des pty abt in kew

The prem at 4479 Fauntleroy Ave Seattle wa leg des as a pty of  
lots 20, 21, 22 and 23 Blk 17, Fauntleroy Co's Blk of West Seattle accord  
to plat thereof recd recd 3 plots pg 19 recd of sp as lessee pty cond in  
Kew Bay Opt Coom No 13409 for the extension of Fauntleroy Ave as  
prov by Ord No 29063 of the City of

such lease was recd under he and f/n No 3539168 f/14 Jan 4 46  
Whence sp are now the owners of int prop and have no rights  
of the lessor under sd lease and whereas the parties have now agreed to  
a cancellation of sd lease thence sd lease is hereby cancelled and  
terminated as o the dt hereof and all rights and liabilities of both  
parties under sd lease thereby ceas.

Sp is to leave all lighting fixtures except the two fluorescent fixture  
in the windows and is to vac the prem and re. all store fixture and  
merchandise herein immediately

Kenneth E. Scholae  
J. Pat Scott  
Ross Scott

Jan 9 46 by Kenneth E. Scholae and J. Pat Scott and Ross Scott  
but w/ J. B. George sp for the sum recd at s as Jan 9 47 (ml sp 4500  
Gallis Ave City)

Cancellation of Lease Jan 12 46  
Jan 10 46 \$250

J. Pat Scott and Ross Scott, Inc.  
Kenneth E. Scholae

Whereas a oral lease was made late Oct 27 45 between Thomas B. McNamee  
lessor and sp as lessee leasing the fl des pty abt in kew

3531476

Y04  
358

3531477

Y04  
359

By lessor less or any part thereof with the written consent  
not assign this lease or any part thereof without the written consent  
of the lessor.

First and last mon rent paid in advance root asked

Lessor is to pay water service during the period of the lease,  
and lessee is to pay all other pub utilities bills during the  
period of the lease.

Lessee is to maintain the upkeep of the exterior and lessor is  
to maintain the interior during the period of ad lease.

Thomas B. McElroy Kenneth Scholles

Rec Mar 27-45 by Thomas B. McElroy and Kenneth E. Scholles, bef  
D. W. Haller up for su rec at a m Jun 28-45 (Ml Kenneth E. Scholles  
4518 Felix Ave Seattle)

Lessee Jan 4-46

3529170

Oct 7-46

104

Thomas B. McElroy

301

to Kenneth Scholles

By lessee to pay the fare in hon

4479 Fairwiley Ave Seattle, legally des as a PARS lot 21 and all  
of Lot 22 oil in Bak 17 Action Company's lot  
for term of 3 yrs from 1st 9-46 at no rent or sum of \$75. pd in  
advance on the 1st day of each mo during ad term.

By lessor to lessee or sublessor the whole or any part of ad prop  
not assign this lease or any part thereof with written consent of lessor.

Thomas B. McElroy  
Kenneth E. Scholles

Rec Oct 7-46 by Thomas B. McElroy and Kenneth Scholles, bef Clarence  
W. Haug up for su record a m Aug 23-47 (Ml on as 169)

2 Nov 4-46

3529171

Dec 27-46 (16, \$2.75 less \$2.50 a-t

Bessie Mae Hooperly whose name appears on rec also as Bessie Mae

Hooperly, a widow

to Alice P. Johnson and Margaret S. Johnson, her

By ay and tchr to pay the fare in hon

Lots 1 to 6 ins Bak 2 Midway Gardens Add to Kirkland  
and 10 rec 7 of same as 12 rec of ad 66

Bessie Mae Hooperly

to be in effect when the repairs to the bldg has been finished.  
for term of 3 yrs from Aug 2-45 at no sum or \$65. pd in advance  
on the 8th day of each and every mo during ad term.  
1st and last mo rent of \$65. each has been pd and rest abv asked.

If not to lease or sublease the whole or any part of the ad prop  
or assign this lease or any part thim witht written consent of lessor.

Lillian Kraft Kenneth M. Schales

Dan Kraft

Res: Aug 2-45 by Dan Kraft and Lillian Kraft, b/sf Charles H.  
MacDonalder ap for su res at a m Jul 8-46 (M 1 ap 4507 California Ave  
Seattle)

Lease Jan 4-46

Mar 27-45

Thomas B. McNamee

to Kenneth Schales

By lessee to up the fare in les

3529169

104

227

Show abv les at 4477 Broadway Ave Seattle, Wash  
for term of 5 yrs from Mar 27-45 at no sum of \$25. pd in advance  
on the 8th day of each and every mo during the term of this lease.

If not to lease or sublease the whole or any part of ad prop  
or assign this lease or any part thim witht the written consent  
of this lessor.

1st and last mo rent. pd in advance rest asked

lessor is to pay water service during the period of the lease,  
and lessee is to pay all other pub utilities bills during the  
period of the lease.

lessee is to maintain the upkeep of the exterior and lessor is  
to maintain the interior during the period of ad lease.

Thomas B. McNamee Kenneth Schales

Res: Mar 27-45 by Thomas B. McNamee and Kenneth M. Schales, b/sf  
D.L. Walker ap for su res at a m Jun 26-45 (M 1 Kenneth S. Schales  
4477 Broadway Ave Seattle)

Lease Jan 4-46

Oct 7-44

Thomas B. McNamee

to Kenneth Schales

By lessee to up the fare in les

3529170

104

301

4479 Franklin Ave Seattle, legally des as a part of Lot 21 and all  
of Lot 22 all in D.M. & J. Jones Company's 1st  
for term of 3 yrs from Oct 7-44 at no rent or sum of \$15. pd in  
advance on the 8th day of each mo during ad term.

If not to lease or sublease the whole or any part of ad prop  
or assign this lease or any part thim witht written consent of lessor.

Thomas B. McNamee

Kenneth M. Schales

Res: Oct 7-44 by Thomas B. McNamee and Kenneth Schales, b/sf G. L. Jones  
ap for su res at a m Aug 23-47 (M 1 m 26 169)

3529171

104 301

1st and last mo rent. pd in advance rest asked

Thomas B. McNamee, b/sf

Nov May 1 45 by Anne Balsillie Somay who by her marriage was  
Anne B Schlesinger wife of Silber Zandol ap'nesata (US Jan 5 46) also 794

\*\*\*

D "ee 13 45

3524796

2410  
3-6

Nov 21 45 \$10.014.00irs and \$13.00  
George Zotes and Jeanne Zotes, huf  
to J Pet Scott and Bea Scott huf

fp eys and were to spfng George citizen

Set 20, 21, 22 and 23, Plk 37, Boston Ga's. Plat of West Seattle  
val 3 plots pg 19, rec'd cred ex, ex per accouned in to Supr Court cause  
no 93059 for the extension of credit to George Zotes as vd by ord 70 29063 of  
thee

George Zotes

by Jeanne Zotes hisatty infct

Jeanne Zotes

Nov Nov 21 45 by Jeanne Zotes for herself and as atty infct for

George Zotes and as established that the PA authorizing the above  
transaction has not been received and George Zotes is now living at  
3 B couple ap Vans st s (US Jan 9 47) also 795

795-2

George Zotes and as established that the PA authorizing the above  
transaction has not been received and George Zotes is now living at  
3 B couple ap Vans st s (US Jan 9 47) also 795

\*\*\*

D Dec 13 45

3524797

2410  
547

\$10.00, \$10.00, \$10.00 and \$2000.00 at  
\$10.00, \$10.00, \$10.00 and \$2000.00 at date of this letter on 4/20/45 and on

496--2

lots 14 2024 incl blk 3, Holbrook and Clark's add to West Seattle  
Lots 14, 2024 incl blk 3, Holbrook and Clark's add to West Seattle  
Lots 20, 2024 17blk 3, Per. line only of Glenway  
Lots 20 2023 incl 1. 37 Boston Co's Plot into City of S  
these plots des above incl the blks theron toge all own pty  
incl in the Blks;

that the above named grantor is over the age of 21 yrs, and is  
Dorothy Francis McKinn

on Apr 3 1945, by Dorothy Frc McKinn a single woman bef Gerhard  
Shrey a p for wares at a a Feb 14 1949 fld by sti ss

---

2396  
5/1.

D Nov 13 1945

3516497

Oct 15 1945 \$10 and o g and val con \$6.60 IRS 246 st x  
Hannah McKinn gen of Mary Louise McKinn a minor, of s, wa,  
to James Zetos  
by ay endt r tosp fdl in kew;

an undivided one half int in lots 20 21 22 and 23 blk 37  
Boston Co's plot to the city of s, kew, lying nw of Mountainview Ave  
as cont by the city of s (order No 29063)

Hannah McKinn

on Oct 15 1945, by Hannah McKinn gen of Mary Louise McKinn a minor  
to James Zetos, a p for wares at a a Feb 14 1949  
fild by sti ss

---

D Nov 13 1945

351 6498

Oct 15 1945 \$10 and o g and val con 6.60 IRS 246 st x  
Thomas McKinn and Hannah McKinn h endt of s, wa,  
James Zetos  
by ay endt to ay fdl in kew;

an undivided one half int in lots 20 21 22 and 23, blk 37  
Boston Co's plot to the city of s, kew, lying nw of Mountainview Ave as  
cont by the city of s (order No 29063)

Thomas McKinn; Hannah McKinn

on Oct 15 1945, by Thomas McKinn and Hannah McKinn h endt, bef  
them married to a, a p for wares at a a Feb 14 1949 fild by sti ss

---

3516499

2397

\$10 and o v c \$3.36 IRS 243 st x  
and Louis Beacons

and Willam Mitchell Jr

by ay endt

an undivided one half int in lots 20 21 22 and 23, blk 37  
Boston Co's plot to the city of s, kew, lying nw of Mountainview Ave as  
cont by the city of s (order No 29063)

D Nov 13 1945  
Oct 15 1945 \$10 and o g ad val con \$6.00 irs x 6 st x  
Bessie McMillan gen of Mary Louise McMillan a minor, of s, wa,  
to James Zotos  
by my endw r to say sold in new;

an undivided one half int in lots 20 21 22 and 23 blk 37  
Boston Co's plot to the city of s, kew, lying nw of Mountlerey Ave  
as const by the city of s accorda No 29063  
Heannah McMillan  
new Oct 15 1945, by Heannah McMillan gen of Mary Louise McMillan a minor  
Vera McMillan, a p for wares at s Feb 14 1949  
fk by att co ---

D Nov 13 1945 351 6498  
Oct 15 1945 \$10 and o g ad val con 6.60 irs x 6 st x  
Thomas McMillan and Heannah McMillan h endw of s, wa,  
to James Zotos  
by my endw r to ap fd in new;

an undivided one half int in lots 20 21 22 and 23, blk 37  
Boston Co's plot to the city of s, kew, lying nw of Mountlerey Ave as  
const by the city of s accorda No 29063  
Thomas McMillan; Heannah McMillan  
new Oct 15 1945, by Thomas McMillan and Heannah McMillan h endw, beq  
Vera McMillan a p for wares at s as Feb 14 1949 fd by att co ---

Nov 13 1945 3516499  
Oct 15 1945 \$10 and o v c \$3.30 irs x 3 st x 2378  
Thomas Benson, and Laura Benson  
to James Mitchell and William Mitchell bw  
by my endw r to ap fd in new;  
John McMillan as blk 132; Burdett Verrier's Kirkland add to the s  
co, d 1945 --- Thomas Benson; Laura Benson  
new Oct 15 1945, by Thomas Benson, and Laura Benson bw of Mitchell  
Mitchell, a p for wares at Kirkland s Feb 27 1945  
new 1st recd bkkirkland  
---

(TOP)

496-2

Lots 14 thru incl blk 3, Holbrook and Clark's add to West Desilie  
City lying only of Glenway

1945 Ls 14, blk 3, Holbrook and Clark's ad to West "cattle  
town" located 17 blk 3, Par. lying only of Glenway

Lots 14 thru incl 14 37 Boston Co's Plot in the City of S  
tates above described being the blcks theron tags all pern pty  
incl in the Blcks;

that the above named greater in over the age of 21 yrs, and is  
Dorothy Francis McKinn

Apr 3 1945, by Dorothy Francis McKinn a single woman bef. Clerk  
Court of Probate at Boston Feb 14 1949 filed by atty as

2398  
517

2 Nov 13 1945

3516497  
Dec 19 1945 \$10 and a g ad val vca \$6.00 lrs x 6 et 1  
Bessie McKinn gen of Mary Louise McKinn a minor, of s, wa,  
to James Lutes

sp by auto r tosp fsls in new;

an undivided one half int in lots 20 21 22 and 23 blk 37  
Boston Co's plot to the city of s, kew, lying nw of Mountlerey Ave  
as const by the city of s under the 29063

Bessie McKinn

Nov Oct 13 1945, by Bessie McKinn gen of Mary Louise McKinn a minor  
to James Lutes, a p for her son a naFeb 14 1949  
filed by atty as

2398  
517

2 Nov 13 1945

351 6498  
\$10 and a g and val vca \$6.00 lrs x 6 et 1  
and Bessie McKinn a minor of s, wa,

to James Lutes

Mar 13 1945

3516495

Mar 13 1945 710 \$6.05 inc x \$5.50 est x  
Louise Wilson, and Florence A Wilson b and w<sup>t</sup> a marital conty on  
Jul 24 1933, undetallms since  
to Orville D Miller, and Catherine V Miller/ b and w<sup>t</sup>  
spouse w<sup>t</sup> to sp f'dd in kew;

lot 5 block 20 of Sunrise Heights add to the ofs, divn No 2,  
addg to plot thereof recd in vol 27 of plats pg 42, recs of kew  
subj to the rights of the put to make all necessary slopes or cuts  
or fillings on the lots, blks or tracts of land shown on the plat in the  
ramblerland grid of all the streets, aveas, alleys and roads shown  
thereon, as presented in the end of the plat

Louise Wilson; Florence A Wilson

kew Mar 3 1945, by Louis Wilson, and Florence A Wilson ver her ex-husband  
a p for wages at a m Jul 29 1947  
710 by att on al Pacific 1st F&L Assn

2378  
517

Mar 13 1945

3516496

Apr 3 1945 610 and g and vol con  
to both William and Kenneth McMillan a singl woman or s, kew,  
to Thomas J. McMillan and Kenneth McMillan b and w<sup>t</sup> of kew  
sp spouse q<sup>t</sup> to sp e ll int in f'dd in kew;

(Contd --#0x)

IP by owner of small building ~~and~~  
Lots 13 to 24 lots --- Holbrook and Clark add to West  
Seattle. LIME only of Clemmy  
✓ Lots 13 and 14, blk 5, Holbrook & Clark add to West Seattle  
✓ Lots 16 and 17 blk 3 per. LIME only of Clemmy -----  
✓ Lots 20 to 23 lots blk 37, Boston Corp. Platte's  
These properties are not included in the buildings also all  
properties included in the bridge

Hannah Mexican

con Jun 16 43 by Hannah Mexican & Hannah Mexican (Section 23 47  
ml fp 4410 W Alaska

\*\*\*

3317029

2 Jun 16 43

Jun 16 43 4 landers

Thomas B Mexican and his son Jacob Mexican of con  
to Dorothy Frances Mexican and Mary Louise Mexican of con  
fp agreed to ap collectively do the following

Lots 16 to 24 lots blk 3 Holbrook & Clark add to West  
Seattle. LIME only of Clemmy

✓ Lots 13 and 14, blk 5, Holbrook & Clark add to West  
Seattle

✓ Lots 16 and 17, blk 3, Poco LIME only of Clemmy ---

✓ Lots 20 to 23 lots blk 37, Boston Corp. Platte's

These properties are not included in the bridge also all , only  
included in bridge Thomas Bell Mexican

Hannah Mexican

con Jun 16 43 by Thomas, B Mexican and Hannah Mexican & Hannah Mexican (Section 23 46) ml fp 4410 W Alaska

con

\*\*\*

D Jun 18 43 3317026  
Feb 2 43 6125. \$30 1st and 500 st  
Leaders Baker of Tacoma WA  
to Superintendent of Seattle WA  
fp a g t s and ey to sp the fig des re sitia kew  
lot 14, table 11, Academic Research Conference Division kew  
Leaders Baker  
Pierce Co WA Jul 17 42 by Leaders Baker of Bellevue Minion addresses  
Bennetts Tacos (March 15 46) misc r 2 bx 104 A Bothell WA

\*\*\*

B Jun 18 43 3317027  
Oct 30 42 +1 endage & ve  
Thomas B McLean a married man  
Tammie B McLean his  
fp ey endage all intanglable dears sit in kew  
lots 16 to 24, inc blk 3, Holbrook and Clark Add to  
West Seattle line 5 1/2 miles from May  
lots 13 and 14, blk 5, Holbrook and Clark estate West Seattle  
lots 16 and 17, blk 3, Per. LINE only of Clemany  
lots 20 to 23, inc blk 37, Boston Colt, Pintados  
These properties described include the following  
Thomas B McLean  
kew lot no 30 42 by Thomas B McLean br Thomas Jannerson Superseal  
(RE doc 4 42) misc 4410 N Alaska st  
\*\*\*

B Jun 18 43 3317028  
Jun 16 43 ---Vlandove  
Hannah McLean ex wife son of above  
to Thomas B McLean WA  
fp ey endage spell intanglable description  
lots 16 to 24, inc ---Holbrook and Clark add to West  
Seattle, LINE only of Clemany  
lots 13 and 14, blk 5, Holbrook -Clark add to West Seattle  
lots 16 and 17 blk 3 rev. LINE only of Clemany -----  
lots 20 to 23 inc blk 37, Boston Colt, Pintados  
These properties do not include those than also all, and  
properties included in above  
Hannah McLean  
kew Jun 16 43 by Hannah McLean & F Bates in "Brooks" (on 23 47  
al fp 4410 N Alaska  
\*\*\*

B Jun 18 43 3317029  
Jun 16 43 Vlandove  
Thomas B McLean and his Anna McLean of above  
to Dorothy Frances Martin and Mary Louise McLean of 400  
29 Grand St 12 ap all intanglable dears sitia  
to Anna & Dorothy Martin & Mary Louise McLean of 400 29 Grand St 12 ap

DATE	FILE #	INST	GRANTOR	GRANTEE
July 20, 1989	133	QCD	I.C. LEASING INC.	MIDAS PROPERTIES INC.
August 22, 1986	107	QCD	MIDAS REALTY CORPORATION	I.C. LEASING INC.
December 15, 1976	649	WD	SHELL OIL COMPANY	MIDAS REALTY CORPORATION
July 31, 1961	5314852	SWD	J.S. & MILDRED WHITING	SHELL OIL COMPANY
March 5, 1959	5004492	SWD	ROBERT E. BLAKEFIELD	J.S. & MILDRED WHITING
July 23, 1951	4155215	D	MARY LOUISE MCMINN WHEIR	THOMAS B. & HANNAH MCMINN
April 21, 1947	3678719	D	NELLIE K. HAMILTON	MILDRED BLAKEFIELD
April 8, 1946	3556917	D	J. PAT & BESS SCOTT	J.S. & MILDRED WHITING
January 12, 1946	3531477	TERM LEASE	J. PAT & BESS SCOTT	KENNETH E. SAHOLES
January 12, 1946	3531476	TERM LEASE	J. PAT & BESS SCOTT	KENNETH E. SAHOLES
January 4, 1946	3529170	LEASE	THOMAS B. MCMINN	KENNETH E. SAHOLES
January 4, 1946	3259169	LEASE	THOMAS B. MCMINN	KENNETH E. SAHOLES
December 13, 1945	3524796	D	GEORGE & JEANNE ZOTES	J. PAT & BESS SCOTT
November 13, 1945	3516498	D	THOMAS B. & HANNAH MCMINN	JEANNE ZOTES
November 13, 1945	3516497	D	MARY LOUISE MCMINN	JEANNE ZOTES
November 13, 1945	3516496	D	DOROTHY MCMINN	THOMAS B. & HANNAH MCMINN
June 16, 1943	3317029	D	THOMAS B. & HANNAH MCMINN	DOROTHY FRANCES MCMINN AND MARY LOUISE MCMINN
June 16, 1943	3317028	D	HANNAH MCMINN	THOMAS B. MCMINN
June 16, 1943	3317027	D	THOMAS B. MCMINN	HANNAH B. MCMINN

## Appendix C

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Ecology Environmental Tracking Report, 1996

11/7/96  
10:15 AM  
INCIDENT ID: N25406

Lust  
DEPARTMENT OF ECOLOGY  
ENVIRONMENTAL REPORT TRACKING SYSTEM  
REFERRAL

PAGE 1

ENTERED  
E 11/16

PROGRAM/ORGANIZATION: TOXICS CLEANUP  
LUST

CONTACT: GALLAGER, MIKE  
REFERRAL DATE: 11/07/1996

URGENT RESPONSE?: N PRIMARY?: Y

OTHER PROGRAM/ORGANIZATIONS REFERRED TO:

ADDITIONAL INFO:

COORDINATOR: GILLE, VICKI

REPORT 1 OF 1

DATE/TIME REC'D: 11/07/1996 10:02 AM  
ACTUAL DATE: 11/07/1996

REPORT TYPE: INITIAL

CALLER NAME: SIMPSON, RICHARD  
AQUAFER ASSOC.

(48?) ANONYMOUS?:

ADDRESS:

PHONE: W 206-248-0274 EXT: TYPE: NORMAL  
206-439-9012

COUNTY: KING

CITY: SEATTLE

WEATHER: CLOUDY TIDE:

WATERWAY:

LATITUDE: LONGITUDE:

TOWNSHIP: RANGE: E/W: SECTION:

LOCATION INFO:

MEDIUM: SOIL

MATERIAL: OIL/PETROLEUM QTY: UNIT: HAZARDOUS: Y  
WASTE/USED OIL OTHER: HEATING OIL

CAUSE: LEAKING UNDERGROUND STORAGE TANK

11/7/96  
10:15 AM  
INCIDENT ID: N25406

DEPARTMENT OF ECOLOGY  
ENVIRONMENTAL REPORT TRACKING SYSTEM  
REFERRAL

PAGE 2

IMPACT: SOIL CONTAMINATION

SOURCE: UNDERGROUND STORAGE TANK

ACTIVITY: ROUTINE/NORMAL OPERATION

ALLEGED VIOLATOR 1: MIDAS MUFFLER

ADDRESS: 4457 FAUNTLEROY WAY SW

SEATTLE WA

ADDITIONAL INFO:

206-937-1950

ADDITIONAL INFORMATION ON INCIDENT:

TWO 500 GALLON TANKS ARE IN PLACE. ONE IS HEATING OIL. LUST IS WASTE OIL. SITE ASSESSOR CALLED IN REPORT, UNKNOWN HOW MUCH SOIL IS CONTAMINATED.

ASSESSOR WOULD LIKE LUST NUMBER CALLED INTO HIM AS SOON AS ASSIGNED. CALL RICHARD SIMPSON AT AQUAIFER ASSO. (206) 248-0274.

11/13/96 in 3/27/97  
Charles Vangard CEC Muns. Corp offices  
834-0983.  
Mark. t: 1000

West Park. tank - W-85 15 cont. capacity  
932-1000

Some debris  
tanks showed signs Phyll stopper  
take soil samples  
Spokes off road & rock walls  
covered  
Soil - re holes. No excavation or new asphalt  
soil sample

11/7/96  
10:15 AM  
INCIDENT ID: N25406

DEPARTMENT OF ECOLOGY  
ENVIRONMENTAL REPORT TRACKING SYSTEM  
REFERRAL

PAGE 3

INVESTIGATOR: Maule

DATE STARTED: 3/27/97 DATE COMPLETED: 3/27/97 <sup>6/8/98</sup> off

ACTION: I. visit, LUST listed ACTION DATE: 3/27/97

NARRATIVE:

Maule I.I @ 11:30 am 3/27/97. Spoke w/ Jared + Eric; tank unused since Shell Station. Tank Wise is contractor company. Saw soil sample bore holes. No excavation nor new asphalt. To call Midas CEO Charlie Vineyard @ 804-0953.

~~Referred~~ Referred to Joe Hickey for LUST issues. CGT for PM  
<sup>cav</sup> 6/9/98

UST site #1985. Tanks closed in place. Gasoline showed up also. UST base shows 2 tanks temporarily closed prior to this 11-7-96 call, but no permanent closure. The database says 2 tanks, a waste oil and a diesel.

The testing in 11-96 showed 1200 ppm (418.1), w/ an odor of gasoline. More @ SW corner of building @ 2600 ppm gasoline, & 60 ppm xylene (other BTEX okay). More toward road 1100 ppm TPH gasoline & 300 ppm xylene. Groundwater was present but not tested.

LUST Inc.-# 487222, Midas Muffler Fauntheray

Edit Go to Exit

Internal Referral Information:

ident:	N25406	Section Head:	-0-
Referred to program:	TCP	Date Inv.	03/27/97
Investigation Completed? (Y/N)	: Y	Date Comp:	-0-
Staff Person:	Maule	Cause:	-0-
Action Taken:	I.I., to call	External Referral? (Y/N):	-
Impact:	-0-	Point:	-0-
Nonpoint:	-0-		-
Enforcement Sensitive? (Y/N)	:		
Cross-Reference To Other Systems:		ERTS	
Reference to (Put tag on this field)	:	-0-	
mark:		-0-	

[Page Down] to next page

Form: work\_frm Table: inref

Field: ext\_ref

Page: 2

Edit Go to Exit

Alleged=contaminant:

ident:	N25406	Medium:	SOIL	Quantity:	-0-
Material:	WASTE OIL	Other Material:	HEATING OIL		
Comments:	Source: UNDERGROUND STORAGE TANK TWO 500 GALLON TANKS ARE IN PLACE. ONE IS HEATING OIL. LUST IS WASTE OIL. SITE ASSESSOR CALLED IN REPORT, UNKNOWN HOW MUCH SOIL IS CONTAMINATED. AS SESSOR WOULD LIKE LUST NUMBER CALLED IN TO HIM AS SOON AS ASSIGNED. CALL RICHARD SIMPSON AT AQUIFER ASSO. (206)248-0274.				

Actual=Contaminant:

ident:	N25406	Medium:	-0-	Transfer:	-0
Material:	-0-	Quantity:	-0-	Other mat:	-0-
Source:	-0-				
Narrative:	MAULE I.I. @ 11:30 a.m.. Spoke w/ Jared and Eric; tank unused since was Shell Station. Tank Wise is contractor company. Saw soil sample bore holes. No excavation nor new asphalt. To call Midas CEO Charlie Vineyard @ 824-0983.				

Form: work\_frm Table: contaminant

Field: ident

Page: 3

## Appendix D

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### Photograph Log

## Appendix E

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### Site-Specific Sampling and Analysis Plan Checklist

## APPENDIX D

### SITE-SPECIFIC SAMPLING AND ANALYSIS PLAN CHECKLIST

This checklist supplements the *Lower Duwamish Waterway – Site Hazard Assessment and Limited Investigation Sampling and Analysis Plan/Quality Assurance Project Plan* (SAP/QAPP) to support sampling activities for Site Hazards Assessments (SHAs) and limited site investigations for contaminated sites overseen by Washington State Department of Ecology (Ecology).

#### APPROVALS (PRINTED NAME, SIGNATURE, DATE):

Alice Robinson

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Plan Preparer	Date
---------------	------

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PM/Reviewer	Date
-------------	------

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Ecology	Date
---------	------

#### SITE INFORMATION

Site Name: Midas Muffler Fauntleroy

Site Address: 4457 Fauntleroy Way SW, Seattle, WA 98126

Known contaminants of concern:

Gasoline-range hydrocarbons, xylenes

Suspected potential contaminants of concern:

Benzene, toluene, ethylbenzene, diesel- and oil- range TPH, VOC fuel additives, metals, PAHs, PCBs

#### PROJECT ORGANIZATION

Title/Responsibility	Name	Affiliation	Phone Number/Email
Ecology Point of Contact	Tamara Cardona-Marek	Washington State Department of Ecology	425-649-7058 <a href="mailto:Taca461@ecy.wa.gov">Taca461@ecy.wa.gov</a>
KJ Project Manager	Ty Schreiner	Kennedy/Jenks Consultants	253-835-6428/C:206-419-0048 <a href="mailto:Tyschreiner@kennedyjenks.com">Tyschreiner@kennedyjenks.com</a>
Field Lead/SSO	Julia Schwarz	Kennedy/Jenks Consultants	253-835-6424/C:206-384-5944 <a href="mailto:juliaschwarz@kennedyjenks.com">juliaschwarz@kennedyjenks.com</a>
Laboratory	Mark Beasley	ESC Lab Sciences	615-773-9672 <a href="mailto:mbeasley@esclabsciences.com">mbeasley@esclabsciences.com</a>
Subcontractors	Dale Abernathy	Holt Services (Driller)	253-604-4878/C:253-318-8996 <a href="mailto:Dabernathy@holtservicesinc.com">Dabernathy@holtservicesinc.com</a>

Subcontractors	Bill Phillips	APS Locates	206-571-1857 <a href="mailto:bphillips@apslocates.com">bphillips@apslocates.com</a>
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## SAMPLING AND ANALYSIS SUMMARY

Describe the purpose and objective of field investigation and briefly state rationale for sampling locations:

### **Brief Site History:**

Ecology was notified of a leaking underground storage tank (LUST) at the site in 1996. According to the incident report completed in November 1996, two 500-gallon underground storage tanks (USTs) were present at the site. This report indicates that the leaking UST contained waste oil, while the other tank contained heating oil. However, a later Initial Investigation (II) report by an Ecology employee describes the non-leaking tank as containing diesel. At the time of this report, the two tanks were reported to be temporarily closed, but there was no record of specific closure activities so it is unclear if the tanks were fully decommissioned or just taken out of service. No site map indicating the location of the tanks was available. However, based on the locations of samples described in the II report, the tanks are likely located near the southeast corner of the building.

According to the II report, the two USTs had been unused since the site's former use as a Shell service station. Handwritten notes by an Ecology employee indicate that soil samples were collected in November 1996 at the time the LUST was reported. The Ecology employee notes that soil sample boreholes were observed upon a March 1997 visit; however, it is unclear where these borings were advanced, or if any samples were collected from these locations. The II report also notes that there was no excavation or new asphalt at the site.

Notes in Ecology's file also suggest that soil sample results from the site were available, though no analytical reports or sample location map were present in Ecology's files. Site notes state that a soil sample collected in November 1996 contained 1,200 ppm TPH (418.1) and had an odor of gasoline. Gasoline and xylenes were detected in two other soil samples that were reportedly collected below the southwest corner of the building (2,600 ppm gasoline and 60 ppm xylenes) and "more toward road" (1,100 ppm gasoline and 300 ppm xylenes). The gasoline and xylenes concentrations were above the current MTCA Method A soil cleanup levels. Ecology's file notes indicate that "other BTEX okay." However, it is unclear if this means that other BTEX constituents were not detected, or that they were detected but at concentrations below applicable cleanup levels at the time.

Handwritten notes included in the II report indicate that groundwater was encountered during the November 1996 soil sampling, but no groundwater samples were collected. Depth to groundwater at this site is unknown, but is presumably shallow.

### **Work Plan:**

Ground penetrating radar (GPR) will be used to attempt to verify the locations of the two USTs related to the LUST report, and other subsurface features including additional USTs that may be present. The GPR survey will include the areas south and east of the building in addition to the suspected LUST area. The site will also be inspected for visual evidence of USTs such as fill

Site Name: Midas Muffler Fauntleroy

ports, vent pipes, patched pavement, etc., and previous soil boring locations. Historical aerial photographs may be reviewed at a local provider (Aero-Metrics, Aerolist, or similar).

A direct-push Geoprobe drilling rig will be used to advance soil borings at the site to characterize the extent of residual soil and groundwater impacts. Up to twelve borings will be advanced at locations including the suspected location of the USTs, the vicinity of a concrete slab located west of the building that may have served as a historical pump island or tank slab, the parking lot downgradient of the suspected UST location, and at/near property margins. Soil samples will be collected from each boring for laboratory analysis as summarized in the attached Table A-1.

The attached map shows preliminary proposed boring locations, but locations may be modified based on the findings of the GPR survey and site inspection. Boring locations may also be modified in the field in order to characterize the lateral and vertical distribution of impacts to soil and groundwater on the property.

An attempt to collect reconnaissance groundwater samples will be made at each boring location with evidence of water within the soil core, except those at which permanent wells are installed, if any. Proposed reconnaissance groundwater sampling and analyses are summarized in the attached Table A-1.

Groundwater monitoring wells may be installed at up to four of the soil boring locations depending on the field observations. New wells, if any, will be installed using the direct-push drill rig once soil sampling is completed, and will consist of a 10-foot section of pre-pack well screen installed across the water table. Any new wells will be developed at least one week prior to sampling. Groundwater well sampling and analysis is summarized in the attached Table A-1.

## INVESTIGATION DERIVED WASTE

### **What waste is anticipated?**

Solid: 1-2 drums     Liquid: up to 6 drums     Mixed: \_\_\_\_\_

### **How will it be handled?**

Waste will be drummed onsite in 55 gallon drums.

55 Gallon Drums     Other: \_\_\_\_\_

### **How will it be characterized?**

Composite samples will be collected from each drum for disposal purposes; or, if no visual or olfactory impacts are observed, grab samples already collected for analysis may be used for waste characterization.

### **If waste is to remain on site, by what date will it be removed for disposal as a non-hazardous waste?**

Waste will be removed by May 31, 2017.

### **If waste is to remain on site, who on site has been notified and serves as a contact?**

Luis Jimenez will be the contact person for the site. He will be notified prior to commencement of field work that the waste will remain onsite.

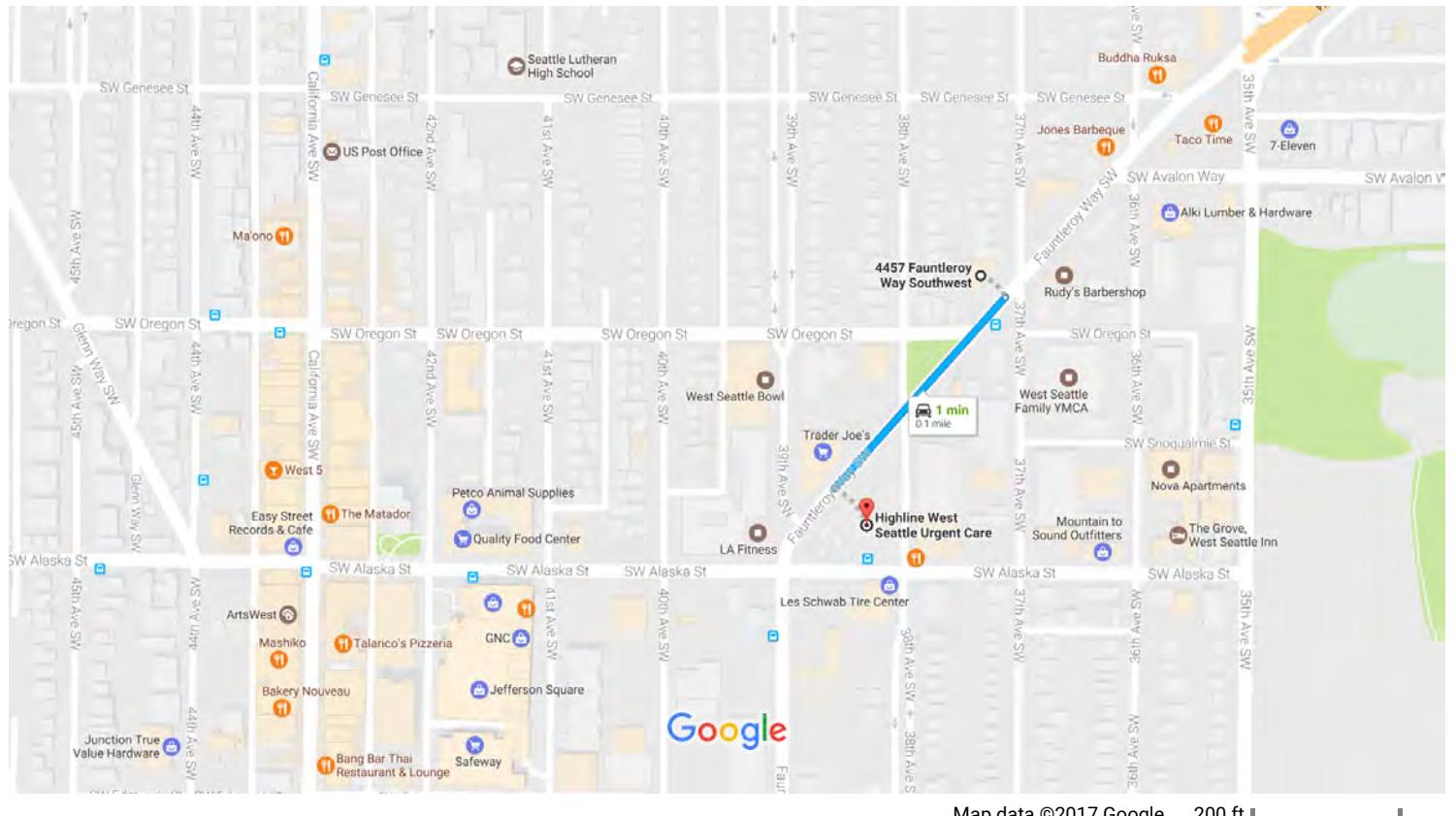
Site Name: Midas Muffler Fauntleroy

## PRE-FIELD CHECKLIST

<b>Activity</b>	<b>Date completed</b>	<b>Not applicable</b>
Public utility locate requested by Kennedy/Jenks Consultants	2/21	
Private utility locate coordinated by Kennedy/Jenks Consultants	2/24	
Property owner/tenant coordination & access agreement	Completed	
Laboratory coordination	Completed	
Subcontractors coordination	Drilling tentatively scheduled for March 1-3	
Hospital route map (attach)	Attached.	
Sample location map (attach)	Attached.	
HASP Addendum (attach if necessary)		Not applicable.



## 4457 Fauntleroy Way Southwest, Seattle, WA to Highline West Seattle Urgent Care, 4550 Fauntleroy Way SW, Seattle, WA 98126



### 4457 Fauntleroy Way SW

Seattle, WA 98126

- ↑ 1. Head southwest on Fauntleroy Way SW toward SW Oregon St

0.1 mi

### Highline West Seattle Urgent Care

4550 Fauntleroy Way SW, Seattle, WA 98126

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



Path: Q:\Projects\2016\1696059.00\WDOE LDW LUSTs-SHA Support\GIS\Events\CSID10302.mxd ©2017 Kennedy/Jenks Consultants

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

#### Legend

● Proposed Soil/Groundwater Sample Location

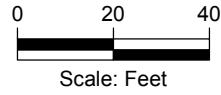
□ Suspected Location of USTs

■ Parcel

#### Note:

1. All locations are approximate.
2. Soil sample locations dependent on groundwater conditions.
3. Boring locations are approximate and may be modified pending GPR survey results.

N



**Kennedy/Jenks Consultants**

Midas Muffler Fauntleroy  
Seattle, Washington

**DRAFT**

Site Overview Map

1696059\*00  
February 2017

**Figure 1**

**TABLE A-1: SAMPLING AND ANALYSIS PLAN**

**SITE NAME:** Midas Muffler Fauntleroy

Sample Location/Designation (See Site Map)	Media	Sample Interval (Depth)	Blind Duplicate	Anticipated Analyses									Description/Rationale/Comments (Include information such as sample type, e.g. discrete, composite; collection method, e.g. bailer, peristaltic pump; filter requirements; purge methods; frequency/duration, and leak test requirements for air and vapor samples)				
				NWTPH-G	NWTPH-Dx	BTEX	Naphthalene	VOCs (incl. fuel additives)	RCRA Metals	PAHs	PCBs	Lead (only)					
<b>Analytical Samples</b> S = soil, GW = groundwater, SW = surface water, SD = sediment, IA = indoor air, AA = ambient air, SS = sub-slab soil gas, SG = soil gas																	
<b>Soil Boring Samples:</b>																	
From each soil boring, retain up to four soil samples. Samples will be collected from intervals with the highest observed impacts, if any. At least two samples from each boring will be submitted for initial laboratory analysis with the remainder to be held by lab for possible follow-up analyses. If no impacts are observed, these will include one sample taken from above the water table at the approximate depth of the UST bottom (5-15' bgs), and one from the bottom of the boring. Borings will initially be advanced to 20 feet bgs (unless refusal conditions are encountered), but will be advanced to greater depth if contaminant impacts are present at 20 feet or to facilitate collection of reconnaissance groundwater samples.																	
Exact sample depths will be determined based on field screening observations.																	
Standard suite of analyses for all soil samples	S	0-20'		x	x	x	x						Standard analyses to be performed for soil samples, up to two samples per boring (up to 24 total samples).				
Borings >20' bgs, if any	S	>20'		x	x	x	x						Analyses to be performed for all soil samples for borings advanced deeper than 20 feet bgs, if any.				
Expanded suite of analyses for select soil samples	S	0-20'		x	x			x	x	x	x		Expanded analyses including VOCs, metals, PAHs, and PCBs to be performed for select soil samples based on field observations of contaminant impacts. Expanded analyses will be performed for <u>at least six</u> soil samples and potentially <u>up to twelve</u> (one per boring) if warranted based on field observations.				
Field Duplicate Soil Sample	S	tbd	x	x	x	x	x	x	x	x	x		Potential analyses for field duplicate. Sample recovery may not be sufficient for all analyses at a single location. At least one duplicate will be collected for each analysis. Duplicate analyses will be performed at a rate of 1 per 20 samples.				
<b>Reconnaissance Groundwater Samples:</b>																	
Reconnaissance groundwater sampling will be attempted at each boring location. Samples will be collected using a peristaltic pump through a temporary PVC well screen installed in each boring. Screens will be set across the water table and include the upper five feet of the upper saturated zone (anticipated to be approximately 15-20' bgs). Limited purging will be performed to reduce visible turbidity prior to sample collection. Reconnaissance samples will not be collected if a permanent well is installed.																	
Standard suite of analyses for reconnaissance groundwater samples (at least eight samples)	GW	top of saturated zone		x	x	x	x						Up to 12 reconnaissance groundwater samples will be collected, one from each boring, using a temporary PVC well screen installed in the soil boring. Water volume may not be sufficient to perform all listed analyses. Priority will be given to TPH and BTEX.				
Expanded suite of analyses for select reconnaissance groundwater samples (up to four samples site-wide)	GW	top of saturated zone		x	x			x	x	x	x		Up to four reconnaissance groundwater samples will be submitted for analysis of VOCs, RCRA metals, PAHs, and PCBs from locations with evident impacts. Water volumes may not be sufficient to perform all the listed analyses at a single location. Metals samples will be field-filtered and analyzed for dissolved metals.				
Reconnaissance GW Duplicate	GW	top of saturated zone	x	x	x	x	x	x	x	x	x		If possible, one field duplicate of reconnaissance groundwater will be collected for each analysis from locations with noted impacts (if applicable). Water volume may not be sufficient to perform all listed analyses at any one location, so duplicates may be collected from multiple locations for separate analyses.				
<b>Monitoring Well Groundwater Samples:</b>																	
Monitoring Wells (new wells, if any)	GW			x	x			x	x	x	x		Groundwater samples will be collected from up to four new monitoring wells (if any are installed) using a peristaltic pump and low-flow sampling techniques. The wells will be developed at least one week prior to sampling. For metals, both filtered and unfiltered samples will be collected and analyzed for both total and dissolved metals.				
Groundwater Duplicate	GW	x		x	x			x	x	x	x		One duplicate groundwater sample will be collected from the location with the greatest indication of impacts.				
<b>Other QC Samples (Rinsate Blanks, Temperature Blanks)</b>																	
Temperature Blank/Trip Blank	W (Provided by lab)					x		x					One for each cooler of samples.				
<b>MEDIA DESIGNATIONS</b> S = soil, GW = groundwater, SW = surface water, SD = sediment, IA = indoor air, AA = ambient air, SS = sub-slab soil gas, SG = soil gas																	
<b>See Table 1 of the SAP/QAPP for Analytical Methods, Sample Containers, Preservatives, and Holding Times</b>																	

Notes:

1. Boring locations may be modified/added based on field conditions.
2. All analyses will be confirmed with the Ecology project manager.

**TABLE 2: SUMMARY OF ANALYTICAL METHODS, SAMPLE CONTAINERS, PRESERVATIVES, AND HOLDING TIMES<sup>a</sup>**

Analyte	Method	Soil/Sediment			Gro Container
		Container	Preservative	Holding Time	
Gas Range TPH	NWTPH-Gx	2-40 mL vial/ 1-2 oz.WMGS	Cool≤6°C, 2xMethanol	14 Days	2-40 mL AGV
<b>BTEX</b>	<b>EPA 8021B</b>				
Diesel/Oil Range TPH	NWTPH-Dx	8 oz.WMG	Cool≤6°C	14 Days	2-500 mL AG
SVOCs/PAHs	EPA 8270D-SIM	8 oz.WMG	Cool≤6°C	14 Days	2-500 mL AG
VOCs	EPA 8260C	4-40 mL vial/ 1-2 oz. WMGS	Cool≤6°C, 2xSodium Bisulfate, 2xMethanol	14 Days	3-40 mL vial; collection by EPA Method 5035
VOCs	TO-15				
Total/Dissolved Metals	EPA 6020/200.8	4 oz.WMG	Cool≤6°C	6 Months	500 mL HDPE
Total Mercury	EPA 7471	4 oz.WMG	Cool≤6°C	28 Days	
Total/Dissolved Mercury	EPA 1631				500 mL fluoropolymer or glass; collection by EPA Method 1669
PCB Aroclors	EPA 8082	8 oz.WMG	Cool≤6°C	14 Days	2-500 mL AG
Dioxins/Furans	EPA 8290	250 mL AWMG	Frozen	1 year	1 Liter AG

**Notes:**

- (a) All sampling requirements and holding times to be verified prior to any sample collection activities.
- (b) Holding time is 2 days if unpreserved, 14 days otherwise.
- (c) Holding time is 48 hours if unpreserved, 28 days otherwise.

**Abbreviations:**

°C = degrees Celsius	PCB = polychlorinated biphenyls
AG = amber glass boston round bottle	BTEX = benzene, toluene, ethylbenzene, xylenes
AGV = amber glass vial	TPH = total petroleum hydrocarbons
AWMG = amber wide mouth glass jar	EPA = United States Environmental Protection Agency
BrCl = bromine monochloride	VOCs = volatile organic compounds
HCl = hydrochloric acid	SIM = select ion monitoring
HDPE = high density polypropylene	SVOCs = semivolatile organic compounds
HNO <sub>3</sub> = nitric acid	WMG = wide mouth glass jar
mL = milliliters	WMGS = wide mouth glass jar with Septa
oz. = ounce	

Grayed cells indicates analytical method not applicable to sample media.

Groundwater/Stormwater		Air/Soil Gas	
Preservative	Holding Time	Container	Holding Time
HCl, Cool≤6°C	2 Days/ 14 Days <sup>(b)</sup>		
Cool≤6°C	7 Days		
Cool≤6°C	7 Days		
HCl, Cool≤6°C	2 Days/ 14 Days <sup>(b)</sup>		
		Summa Cannister	30 Days
HNO <sub>3</sub> , Cool≤6°C	6 Months		
HCl or BrCl	48 hours/ 28 Days <sup>(c)</sup>		
Cool≤6°C	7 Days		
Cool≤4°C	14 Days		

## Appendix F

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2017 Soil Boring Logs

# Boring Log

Kennedy/Jenks Consultants

BORING LOCATION SW corner of property - see map								Boring Name <u>B-01</u>																																																																		
DRILLING COMPANY <b>HOLT Services</b>				DRILLER <b>Louie Fehner</b>				Project Name <u>Midas Fauntleroy</u>																																																																		
DRILLING METHOD(S) <b>Geoprobe 7800</b>				DRILL BIT(S) SIZE <b>2-inch</b>				Project Number <u>1696059</u>																																																																		
ISOLATION CASING <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	FT.	MEASURING PT. ELEVATION <u>20.0 ft. bgs</u>																																																																		
BLANK CASING <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	FT.	DATE STARTED <u>3/1/17</u> DATE COMPLETED <u>3/1/17</u>																																																																		
SLOTTED CASING <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	FT.	INITIAL WATER DEPTH (FT) <b>15.0</b>																																																																		
SIZE AND TYPE OF FILTER PACK <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	FT.	LOGGED BY <b>N. Moxley (WA L.G. # 3024)</b>																																																																		
SEAL <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	FT.	SAMPLING METHODS macro core																																																																		
GROUT <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	FT.	WELL COMPLETION <input type="checkbox"/> SURFACE HOUSING <input type="checkbox"/> STAND PIPE _____ FT.																																																																		
<table border="1"> <thead> <tr> <th colspan="2">SAMPLES</th> <th rowspan="2">DEPTH (FEET)</th> <th rowspan="2">SAMPLE NUMBER</th> <th colspan="2">BACKFILL DETAILS</th> <th rowspan="2">PID (ppm)</th> <th rowspan="2">LITHOLOGY</th> <th rowspan="2">USCS LOG</th> <th rowspan="2">SAMPLE DESCRIPTION AND DRILLING REMARKS</th> </tr> <tr> <th>TYPE</th> <th>RECOV. (FEET)</th> <th>PENETR. RESIST. BLOWS/6"</th> <th>(ppm)</th> <th>LITHOLOGY</th> <th>USCS LOG</th> </tr> </thead> <tbody> <tr> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Air knife / vac clearance to 5-feet Brown, fine to medium SAND with gravel, concrete/asphalt fragments, cobbles, and trace silt</td> </tr> <tr> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>Silty SAND with gravel</b> Brown, silty, fine to medium SAND with gravel, wet (from perched water), no odor, no sheen moisture decreases below 6-feet</td> </tr> <tr> <td></td> <td>10</td> <td></td> <td>B-1 (10.0-11.0)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SM color becomes gray</td> </tr> <tr> <td></td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>Poorly graded SAND with silt and gravel</b> Gray, fine to medium SAND with silt and trace gravel, moist to wet, no odor, no sheen</td> </tr> <tr> <td></td> <td>20</td> <td></td> <td>B-1 (19.0-20.0)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>Silty SAND with gravel</b> Brown, silty fine SAND with trace gravel, wet, no odor, no sheen</td> </tr> </tbody> </table>								SAMPLES		DEPTH (FEET)	SAMPLE NUMBER	BACKFILL DETAILS		PID (ppm)	LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS	TYPE	RECOV. (FEET)	PENETR. RESIST. BLOWS/6"	(ppm)	LITHOLOGY	USCS LOG		0								Air knife / vac clearance to 5-feet Brown, fine to medium SAND with gravel, concrete/asphalt fragments, cobbles, and trace silt		5								<b>Silty SAND with gravel</b> Brown, silty, fine to medium SAND with gravel, wet (from perched water), no odor, no sheen moisture decreases below 6-feet		10		B-1 (10.0-11.0)						SM color becomes gray		15								<b>Poorly graded SAND with silt and gravel</b> Gray, fine to medium SAND with silt and trace gravel, moist to wet, no odor, no sheen		20		B-1 (19.0-20.0)						<b>Silty SAND with gravel</b> Brown, silty fine SAND with trace gravel, wet, no odor, no sheen	3/8/18 KJ PNW BORING LOGS GFP J
SAMPLES		DEPTH (FEET)	SAMPLE NUMBER	BACKFILL DETAILS		PID (ppm)	LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS																																																																	
TYPE	RECOV. (FEET)			PENETR. RESIST. BLOWS/6"	(ppm)					LITHOLOGY	USCS LOG																																																															
	0								Air knife / vac clearance to 5-feet Brown, fine to medium SAND with gravel, concrete/asphalt fragments, cobbles, and trace silt																																																																	
	5								<b>Silty SAND with gravel</b> Brown, silty, fine to medium SAND with gravel, wet (from perched water), no odor, no sheen moisture decreases below 6-feet																																																																	
	10		B-1 (10.0-11.0)						SM color becomes gray																																																																	
	15								<b>Poorly graded SAND with silt and gravel</b> Gray, fine to medium SAND with silt and trace gravel, moist to wet, no odor, no sheen																																																																	
	20		B-1 (19.0-20.0)						<b>Silty SAND with gravel</b> Brown, silty fine SAND with trace gravel, wet, no odor, no sheen																																																																	
<p><b>NOTES</b></p> <ol style="list-style-type: none"> <li>1. Boring terminated at 20-feet bgs, backfilled with bentonite, and finished to match existing grade</li> <li>2. Reconnaissance groundwater sample 'B-1' collected from a temporary PVC well screen placed in the open borehole and screened from 10.0 - 20.0 feet bgs</li> </ol>																																																																										

# Boring Log

Kennedy/Jenks Consultants

BORING LOCATION SW corner of property - see map									Boring Name	B-02	
DRILLING COMPANY HOLT Services					DRILLER Louie Fehner				Project Name	Midas Fauntleroy	
DRILLING METHOD(S) Geoprobe 7800					DRILL BIT(S) SIZE 2-inch				Project Number	1696059	
ISOLATION CASING N/A					FROM	TO	FT.	MEASURING PT. ELEVATION	TOTAL DEPTH 20.0 ft. bgs		
BLANK CASING N/A					N/A	N/A	N/A	DATE STARTED	DATE COMPLETED 3/1/17		
SLOTTED CASING N/A					FROM	TO	FT.	INITIAL WATER DEPTH (FT)	N/A		
SIZE AND TYPE OF FILTER PACK N/A					N/A	N/A	N/A	LOGGED BY	N. Moxley (WA L.G. # 3024)		
SEAL N/A					FROM	TO	FT.	SAMPLING METHODS	WELL COMPLETION		
GROUT N/A					N/A	N/A	N/A	macro core	<input type="checkbox"/> SURFACE HOUSING	<input type="checkbox"/> STAND PIPE FT.	
SAMPLES									SAMPLE DESCRIPTION AND DRILLING REMARKS		
TYPE	RECOV. (FEET)	PENETR. RESIST. BLOWS/6"	DEPTH (FEET)	SAMPLE NUMBER	BACKFILL DETAILS		PID (ppm)	LITHOLOGY	USCS LOG		
										Air knife / vac clearance to 5-feet Brown, fine to medium SAND with gravel, concrete/asphalt fragments, cobbles, and trace silt	
	0										
	5									Silty SAND Gray, silty, fine SAND, moist, no odor, no sheen	
	10									SM	
	15									orange mottling present 13.5 - 14.0 feet Sandy clayey SILT Gray, fine sandy SILT with clay (very dense), moist, no odor, no sheen gravel present below 15.0 feet	
	20									ML/CL	
NOTES											
1. Boring terminated at 20-feet bgs, backfilled with bentonite, and finished to match existing grade											

# Boring Log

Kennedy/Jenks Consultants

BORING LOCATION SW corner of property - see map									Boring Name	B-03	
DRILLING COMPANY HOLT Services				DRILLER Louie Fehner							
DRILLING METHOD(S) Geoprobe 7800				DRILL BIT(S) SIZE 2-inch							
ISOLATION CASING N/A				FROM	TO	FT.	N/A	N/A			
BLANK CASING N/A				FROM	TO	FT.	N/A	N/A			
SLOTTED CASING N/A				FROM	TO	FT.	N/A	N/A			
SIZE AND TYPE OF FILTER PACK N/A				FROM	TO	FT.	N/A	N/A			
SEAL N/A				FROM	TO	FT.	N/A	N/A			
GROUT N/A				FROM	TO	FT.	N/A	N/A			
SAMPLES									SAMPLE DESCRIPTION AND DRILLING REMARKS		
TYPE	RECOV. (FEET)	PENETR. RESIST. BLOWS/6"	DEPTH (FEET)	SAMPLE NUMBER	BACKFILL DETAILS		PID (ppm)	LITHOLOGY	USCS LOG		
										Air knife / vac clearance to 5-feet Brown, fine to medium SAND with gravel, concrete/asphalt fragments, cobbles, and trace silt	
	0										
	5									Silty SAND Gray, silty, fine to medium SAND, moist, petroleum type odor and sheen	
	2.5			B-3 (6.0-7.0)			519 896 741	SM			
	10						165 304 63 24	ML/ CL		Sandy clayey SILT with gravel Gray, fine sandy SILT and CLAY with gravel (very dense), damp, no odor, no sheen	
	5			B-3 (14.0-15.0)							
	15										

**NOTES**

1. Boring terminated at 15-feet bgs, backfilled with bentonite, and finished to match existing grade

## Boring Log

**Kennedy/Jenks Consultants**

## **NOTES**

1. Boring terminated at 20-feet bgs, backfilled with bentonite, and finished to match existing grade

# Boring Log

Kennedy/Jenks Consultants

BORING LOCATION SW corner of property - see map								Boring Name <u>B-05</u>					
DRILLING COMPANY <b>HOLT Services</b>				DRILLER <b>Louie Fehner</b>				Project Name <u>Midas Fauntleroy</u>					
DRILLING METHOD(S) <b>Geoprobe 7800</b>				DRILL BIT(S) SIZE <b>2-inch</b>				Project Number <u>1696059</u>					
ISOLATION CASING <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	MEAURING PT. ELEVATION <b>20.0 ft. bgs</b>						
BLANK CASING <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	DATE STARTED <b>3/1/17</b>						
SLOTTED CASING <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	DATE COMPLETED <b>3/1/17</b>						
SIZE AND TYPE OF FILTER PACK <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	INITIAL WATER DEPTH (FT) <b>15.0</b>						
SEAL <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	LOGGED BY <b>N. Moxley (WA L.G. # 3024)</b>						
GROUT <b>N/A</b>				FROM <b>N/A</b>	TO <b>N/A</b>	FT. <b>N/A</b>	SAMPLING METHODS <b>macro core</b>						
SAMPLES													
TYPE	RECOV. (FEET)	PENETR. RESIST. BLOWS/6"	DEPTH (FEET)	SAMPLE NUMBER	BACKFILL DETAILS		PID (ppm)	LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS			
										Air knife / vac clearance to 5-feet Brown, fine to medium SAND with gravel, concrete/asphalt fragments, cobbles, and trace silt			
			0										
			5							<b>Sandy SILT with gravel</b> Brown, fine sandy SILT with coarse sand and gravel (loose), wet (from perched water), no odor, no sheen			
			3.5					ML		<b>Silty SAND</b> Bluish gray, silty, fine SAND (dense), damp, no odor, no sheen			
			10					SM					
			5	B-5 (12.0-13.0) Dup-1-soil				ML		<b>Sandy SILT with gravel</b> Brown, fine sandy SILT with gravel, moist, no odor, no sheen			
			15					SM		<b>Silty SAND</b> Gray, silty, fine to medium SAND, moist, no odor, no sheen			
			3.8/18					ML		<b>SILT with sand</b> Gray, SILT with fine sand, moist, no odor, no sheen			
			5					SP/		<b>Poorly graded SAND with silt</b> Gray, fine to medium SAND with silt, moist to wet, no odor, no sheen			
			20	B-5 (19.0-20.0)				SM					
<b>NOTES</b>													
1. Boring terminated at 20-feet bgs, backfilled with bentonite, and finished to match existing grade													
2. Reconnaissance groundwater sample 'B-5' collected from a temporary PVC well screen placed in the open borehole and screened from 10.0 - 20.0 feet bgs													
3. Duplicate reconnaissance groundwater sample 'Dup-1-GW' collected in conjunction with reconnaissance groundwater sample B-5.													

# Boring Log

Kennedy/Jenks Consultants

BORING LOCATION SW corner of property - see map									Boring Name	B-06	
DRILLING COMPANY HOLT Services				DRILLER Louie Fehner							
DRILLING METHOD(S) Geoprobe 7800				DRILL BIT(S) SIZE 2-inch							
ISOLATION CASING N/A				FROM	TO	FT.	N/A	N/A			
BLANK CASING N/A				FROM	TO	FT.	N/A	N/A			
SLOTTED CASING N/A				FROM	TO	FT.	N/A	N/A			
SIZE AND TYPE OF FILTER PACK N/A				FROM	TO	FT.	N/A	N/A			
SEAL N/A				FROM	TO	FT.	N/A	N/A			
GROUT N/A				FROM	TO	FT.	N/A	N/A			
SAMPLES									SAMPLE DESCRIPTION AND DRILLING REMARKS		
TYPE	RECOV. (FEET)	PENETR. RESIST. BLOWS/6"	DEPTH (FEET)	SAMPLE NUMBER	BACKFILL DETAILS		PID (ppm)	LITHOLOGY	USCS LOG		
										Air knife / vac clearance to 5-feet Brown, fine to medium SAND with gravel, concrete/asphalt fragments, cobbles, and trace silt	
	0		-								
	0		5							no recovery Met refusal at 6-feet (concrete in drilling shoe)	

## NOTES

1. Boring terminated at 6-feet bgs, backfilled with bentonite, and finished to match existing grade

## Appendix G

---

### Investigation-Derived Waste Disposal Records

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.  
**EXE**

Manifest Doc. No. **474779-17**  
2. Page 1  
of 1

3. Generator's Name and Mailing Address

**Washington State Department of Ecology  
4457 Fauntleroy Way Southwest**

4. Generator's Phone ( **SEATTLE WA 98126 (253)835-6409** )

5. Transporter 1 Company Name

**CASCADE DRILLING**

6. US EPA ID Number  
**CESQG**

A. Transporter's Phone

**(425)485-8908**

7. Transporter 2 Company Name

**BURLINGTON ENVIRONMENTAL, LLC**

8. US EPA ID Number  
**WAR000001743**

B. Transporter's Phone

**(253)383-3044**

9. Designated Facility Name and Site Address

**BURLINGTON ENVIRONMENTAL, LLC. KENT  
20245 77th Avenue South**

10. US EPA ID Number  
**WAD991281767**

C. Facility's Phone

**(253) 872-8030**

11. HM Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. MATERIAL NOT REGULATED BY DOT (NON-HAZARDOUS)

*Soil*

1

*200*

P

b. MATERIAL NOT REGULATED BY DOT (NON-HAZARDOUS)

*Water*

1

*200*

P

c.

d.

D. Additional Descriptions for Materials Listed Above

a) 846097-00 - NON-HAZARDOUS WASTE LIQUID - MAT05 (1) b) 846098-00 -  
NON-HAZARDOUS WASTE SOLID - LF07 (2)

E. Handling Codes for Wastes Listed Above

*A) H070  
B) H141*

15. Special Handling Instructions and Additional Information

PLEASE MAIL MANIFESTS TO ATTN: KYLE SATTERTHWAITE, CASCADE DRILLING, 35100 PACIFIC HWY SOUTH, FEDERAL WAY, WA 98003

16. GENERATOR'S CERTIFICATION: "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations." I also certify that all times listed above are true and correct.

Printed/Typed Name  
*Kathy Teague*

Signature  
*Kathy Teague*

Month Day Year  
*14 19 17*

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
*Tim Watson*

Signature  
*Tim Watson*

Month Day Year  
*14 19 17*

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name  
*Caren Sukluk Bazz*

Signature  
*Caren Sukluk Bazz*

Month Day Year  
*14 19 17*

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name  
*Emily Currin*

Signature  
*Emily Currin*

Month Day Year  
*14 23 17  
14 19 17*

ORIGINAL RETURN TO GENERATOR



**Stericycle®**  
Environmental Solutions

## Generator's Waste Profile 846097-00

Status : PENDING

Starts : 11 APR 2017  
Expires : 31 JUL 2017

Sales Rep 1036 Seneca Benson  
Acct Mngr 985 Chris Hunter

**A: GENERATOR ( 673358 ) SITE INFORMATION**

Washington State Department of Ecology  
4457 Fauntleroy Way Southwest  
SEATTLE, WA 98128  
> Contact Tom Haskins  
TSDF Approval List No

EPA EXE  
NAICS 811111 Neshap N  
CASCADE DRILLING LP  
PO Box 1184  
WOODINVILLE, WA 98072  
Phone (253) 835-6409

**B: CUSTOMER ( 30281 ) INFORMATION****C: WASTE INFORMATION**

On File > MSDS No Analysis Yes Sample No

Waste Name NON-HAZARDOUS WASTE LIQUID  
Process INVESTIGATION DERIVED WASTE FROM AN AUTO BODY/OIL CHANGE SHOP  
Unused Commercial Product No Spill Residue No

**D: PHYSICAL CHARACTERISTICS OF WASTE**

Phys States	L-Liq	Top Color	brown	Odor	None	PH Range	4-10
		Mid Color		Layers	Single Phased	Free Liq %	100
		Bot Color		Spec Grav	0.8-1.0	Flash Test	Gen Knowledge
		% Ash	0	BTU/Lbs	0	Flash Rnge	NO FLASH
		% Water	100	% Halogens	0	Viscosity	Low
						Pumpable	Yes

**E: CHEMICAL COMPOSITION OF WASTE**

Soil	( 0 - 5 % )	Water	( 95 - 100 % )		
PCB's 0	Cyanides 0	Phenolics 0	Sulfides 0	Dioxins 0	Information Provided By Laboratory
TOC >1%	VOC <500 PPM				

**F: METALS METHOD**

Gen Knowledge	Cadmium <1	Chromium <5	Silver <5	Zinc 0	
	Merc TCLP <0.2	Selenium <1	Nickel 0	Copper 0	
	Barium <100	Lead <5	Merc Tot <260	Thallium 0	Chrome-6

**G: OTHER CHARACTERISTICS OF WASTE**

Ign. Solid No	Oxidizer No	Explosive No	Shock Sensitive No	Cyanide Reactive No	Sulfide Reactive No
Explosive N/A		Asbestos N/A	Radioactive No	Water Reactive No	Reactive (Other) No
Herbicides 0		Pesticides 0	Ammonia 0	Infectious No	Medical No

**H: EPA / STATE WASTE IDENTIFICATION**

EPA Waste No	State Waste No	TSCA No	Waste Water No	Universal Waste No
Form W219 Source G49 Origin 1 SubPart CC No	NESHAPS No	CERCLA No	Debris No	Reg. Organics No

EPA Codes

State Codes

UHC

Categorical Discharge Standards No

CTW Category Oils

DW/EHW:

**I: SHIPPING INFORMATION**

Marine Pollutant No

Containers DM Metal Drum

Qty to Ship Now 1

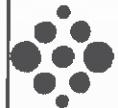
Projected Volume 1x55/Onetime

DOT Descrip MATERIAL NOT REGULATED BY DOT (NON-HAZARDOUS)

**J: SPECIAL DISPOSAL INSTRUCTIONS**

PLEASE PROCESS AS WAT05

Waste Categs WAT05



**Stericycle®**  
Environmental Solutions

**Generator's Waste Profile 846097-00**

Status : PENDING

Starts : 11 APR 2017  
Expires : 31 JUL 2017

Sales Rep 1036 Seneca Benson  
Acct Mngr 985 Chris Hunter

**GENERATOR CERTIFICATION**

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted on this waste profile and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. By signing this waste profile, I am certifying that I am authorized to sign such documentation on behalf of the generator.

Signature

Tamara Cardona  
Printed Name

Title

Aquatics Unit

Sup.

4/19/17  
Date

Burlington Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).



**Stericycle®**  
Environmental Solutions

## Generator's Waste Profile 846098-00

Status : PENDING

Starts : 11 APR 2017  
Expires : 31 JUL 2017

Sales Rep 1036 Seneca Benson  
Acct Mngr 985 Chris Hunter

**A: GENERATOR ( 573358 ) SITE INFORMATION**

Washington State Department of Ecology  
4457 Fauntleroy Way Southwest  
SEATTLE, WA 98126  
> Contact Tom Haskins  
TSDF Approval List No

EPA EXE CASCADE DRILLING LP  
NAICS 811111 Neshap N PO Box 1184  
WOODINVILLE, WA 98072

Phone (253) 835-6409

**C: WASTE INFORMATION**

On File &gt; MSDS No Analysis Yes Sample No

Waste Name NON-HAZARDOUS WASTE SOLID  
Process INVESTIGATION DERIVED WASTE FROM AN AUTO SHOP/OIL CHANGE SHOP

Unused Commercial Product No Spill Residue No

**D: PHYSICAL CHARACTERISTICS OF WASTE**

Phys States	S-Sol	Top Color	Brown	Odor	None	PH Range	4-10
		Mid Color		Layers	Single Phased	Free Liq %	100
		Bot Color		Spec Grav	Soil	Flash Test	Gen Knowledge
		% Ash	0	BTU/Lbs	0	Flash Rnge	NO FLASH
		% Water	0	% Halogens	0	Viscosity	Hlgh
						Pumpable	No

**E: CHEMICAL COMPOSITION OF WASTE**

Gravel, Debris	( 0	- 5	% )	TPH-Gasoline	( 0	- 13000 ppm)
Soil	( 95	- 100	% )			
PCB's 0	Cyanides 0	Phenolics 0	Sulfides 0	Dioxins 0	Information Provided By	Laboratory
TOC 13000	VOC 13000					

**F: METALS METHOD**

Gen Knowledge	Cadmium <1	Chromium <5	Silver <5	Zinc 0
Arsenic <5	Merc TCLP <0.2	Selenium <1	Nickel 0	Copper 0
Barium <100	Lead <5	Merc Tot <260	Thallium 0	Chrome-6

**G: OTHER CHARACTERISTICS OF WASTE**

Ign. Solid No	Oxidizer No	Explosive No	Shock Sensitive No	Cyanide Reactive No	Sulfide Reactive No
Explosive N/A	Asbestos N/A		Radioactive No	Water Reactive No	Reactive (Other) No
Herbicides 0	Pesticides 0		Ammonia 0	Infectious No	Medical No

**H: EPA / STATE WASTE IDENTIFICATION**

Form W301	Source G49	Origin 1	EPA Waste No	State Waste No	TSCA No	Waste Water No	Universal Waste No
			SubPart CC No	NESHAPS No	CERCLA No	Debris No	Reg. Organics No

EPA Codes

State Codes

UHC

Categorical Discharge Standards No

CTW Category N/A

DW/EHW:

**I: SHIPPING INFORMATION**

Marine Pollutant No

Containers DM Metal Drum	Qty to Ship Now 2	Projected Volume 2x55/Monthly
DOT Descrip MATERIAL NOT REGULATED BY DOT (NON-HAZARDOUS)		

**J: SPECIAL DISPOSAL INSTRUCTIONS**

PLEASE PROCESS AS LF07 DUE TO VOC

Waste Categs LF07

**Stericycle<sup>®</sup>**  
Environmental Solutions**Generator's Waste Profile 846098-00**

Status : PENDING

Starts : 11 APR 2017  
Expires : 31 JUL 2017Sales Rep 1036 Seneca Benson  
Acct Mngr 985 Chris Hunter**GENERATOR CERTIFICATION**

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted on this waste profile and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. By signing this waste profile, I am certifying that I am authorized to sign such documentation on behalf of the generator.

*J. Cardona for Ecology* / Tamara Cardona Aquatics Unit Sup. 4/9/17  
Signature TCP Printed Name Title Date

Burlington Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).

## Appendix H

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### Laboratory Analytical Reports and Chain-of-Custody Documentation

Kennedy/Jenks Consultants requested groundwater data be re-issued by the laboratory to report values between the reporting detection limit and method detection limit. In cases where soil and groundwater data were reported together in the original report, the original report is also attached with the groundwater data reported to the reporting detection limit.

April 17, 2017

## Kennedy/Jenks Consultants

Sample Delivery Group: L893941  
Samples Received: 03/04/2017  
Project Number: 1696059-00  
Description: Midas Fauntleroy

Report To: Julia Schwarz, Nathan Moxley  
116 Lupfer Avenue, Suite B  
Whitefish, MT 59937

Entire Report Reviewed By:



Mark W. Beasley  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<sup>1</sup> Cp: Cover Page	1	<sup>1</sup> Cp
<sup>2</sup> Tc: Table of Contents	2	<sup>2</sup> Tc
<sup>3</sup> Ss: Sample Summary	3	<sup>3</sup> Ss
<sup>4</sup> Cn: Case Narrative	6	<sup>4</sup> Cn
<sup>5</sup> Sr: Sample Results	7	<sup>5</sup> Sr
B-1 (10.0-11.0) L893941-01	7	
B-1 (19.0-20.0) L893941-02	10	
B-1 L893941-03	11	
B-2 (13.0-14.0) L893941-04	14	
B-2 (19.0-20.0) L893941-05	17	
B-3 (6.0-7.0) L893941-06	18	
B-3 (14.0-15.0) L893941-07	21	
B-4 (6.0-7.0) L893941-08	23	
B-4 (11.0-12.0) L893941-09	26	
B-5 (12.0-13.0) L893941-10	27	
B-5 (19.0-20.0) L893941-11	30	
B-5 L893941-12	31	
DUP-1-SOIL L893941-13	34	
DUP-1-GW L893941-14	37	
<sup>6</sup> Qc: Quality Control Summary	40	
Total Solids by Method 2540 G-2011	40	
Mercury by Method 7470A	42	
Mercury by Method 7471A	43	
Metals (ICP) by Method 6010C	44	
Volatile Organic Compounds (GC) by Method NWTPHGX	46	
Volatile Organic Compounds (GC/MS) by Method 8260C	49	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	61	
Polychlorinated Biphenyls (GC) by Method 8082	63	
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	64	
<sup>7</sup> Gl: Glossary of Terms	68	
<sup>8</sup> Al: Accreditations & Locations	69	
<sup>9</sup> Sc: Chain of Custody	70	

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



			Collected by Nathan Moxley	Collected date/time 03/01/17 10:15	Received date/time 03/04/17 09:00
B-1 (10.0-11.0) L893941-01 Solid	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Total Solids by Method 2540 G-2011		WG959281	1	03/10/17 09:15	03/10/17 09:48
Mercury by Method 7471A		WG958303	1	03/06/17 15:39	03/08/17 14:52
Metals (ICP) by Method 6010C		WG958474	1	03/08/17 09:32	03/08/17 13:15
Volatile Organic Compounds (GC) by Method NWTPHGX		WG958703	1	03/01/17 10:15	03/08/17 05:55
Volatile Organic Compounds (GC/MS) by Method 8260C		WG959350	1	03/01/17 10:15	03/09/17 16:07
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT		WG958691	1	03/08/17 12:31	03/08/17 21:50
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM		WG959087	1	03/09/17 09:33	03/14/17 13:02
			Collected by Nathan Moxley	Collected date/time 03/01/17 10:20	Received date/time 03/04/17 09:00
B-1 (19.0-20.0) L893941-02 Solid	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Total Solids by Method 2540 G-2011		WG959281	1	03/10/17 09:15	03/10/17 09:48
Volatile Organic Compounds (GC) by Method NWTPHGX		WG958703	1	03/01/17 10:20	03/08/17 06:17
Volatile Organic Compounds (GC/MS) by Method 8260C		WG958676	1	03/01/17 10:20	03/08/17 19:26
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT		WG958691	1	03/08/17 12:31	03/08/17 22:03
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM		WG959087	1	03/09/17 09:33	03/14/17 13:23
			Collected by Nathan Moxley	Collected date/time 03/01/17 10:35	Received date/time 03/04/17 09:00
B-1 L893941-03 GW	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Mercury by Method 7470A		WG958806	1	03/08/17 10:09	03/08/17 18:13
Metals (ICP) by Method 6010C		WG958726	1	03/07/17 18:13	03/07/17 20:12
Volatile Organic Compounds (GC) by Method NWTPHGX		WG957976	1	03/09/17 17:37	03/09/17 17:37
Volatile Organic Compounds (GC/MS) by Method 8260C		WG959106	1	03/08/17 19:46	03/08/17 19:46
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT		WG958334	1	03/06/17 23:05	03/10/17 00:41
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM		WG958443	1	03/07/17 11:20	03/08/17 12:14
			Collected by Nathan Moxley	Collected date/time 03/01/17 12:30	Received date/time 03/04/17 09:00
B-2 (13.0-14.0) L893941-04 Solid	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Total Solids by Method 2540 G-2011		WG959281	1	03/10/17 09:15	03/10/17 09:48
Mercury by Method 7471A		WG958303	1	03/06/17 15:39	03/08/17 14:54
Metals (ICP) by Method 6010C		WG958474	1	03/08/17 09:32	03/08/17 13:17
Volatile Organic Compounds (GC) by Method NWTPHGX		WG958703	1	03/01/17 12:30	03/08/17 06:40
Volatile Organic Compounds (GC/MS) by Method 8260C		WG959350	1	03/01/17 12:30	03/09/17 16:28
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT		WG958691	1	03/08/17 12:31	03/08/17 22:16
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM		WG959087	1	03/09/17 09:33	03/14/17 14:28
			Collected by Nathan Moxley	Collected date/time 03/01/17 12:40	Received date/time 03/04/17 09:00
B-2 (19.0-20.0) L893941-05 Solid	Method	Batch	Dilution	Preparation date/time	Analysis date/time
Total Solids by Method 2540 G-2011		WG959282	1	03/09/17 09:09	03/09/17 09:17
Volatile Organic Compounds (GC) by Method NWTPHGX		WG958703	1	03/01/17 12:40	03/08/17 07:02
Volatile Organic Compounds (GC/MS) by Method 8260C		WG958676	1	03/01/17 12:40	03/08/17 19:46
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT		WG958691	1	03/08/17 12:31	03/08/17 22:30
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM		WG959087	1	03/09/17 09:33	03/14/17 14:49

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

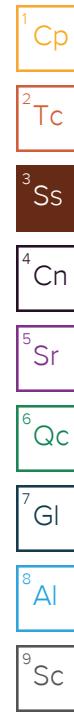
9 Sc

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



B-3 (6.0-7.0) L893941-06 Solid		Collected by Nathan Moxley	Collected date/time 03/01/17 13:05	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG959282	1	03/09/17 09:09	03/09/17 09:17	KDW
Mercury by Method 7471A	WG958303	1	03/06/17 15:39	03/08/17 14:57	NJB
Metals (ICP) by Method 6010C	WG958474	1	03/08/17 09:32	03/08/17 13:20	CCE
Volatile Organic Compounds (GC) by Method NWTPHGX	WG958703	3850	03/01/17 13:05	03/08/17 09:15	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959350	770	03/01/17 13:05	03/09/17 21:44	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959350	7700	03/01/17 13:05	03/11/17 18:14	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958691	20	03/08/17 12:31	03/09/17 02:25	ACM
Polychlorinated Biphenyls (GC) by Method 8082	WG958814	1	03/09/17 08:17	03/09/17 17:14	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	1	03/09/17 09:33	03/14/17 15:11	CLG
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	20	03/09/17 09:33	03/14/17 17:40	CLG
B-3 (14.0-15.0) L893941-07 Solid		Collected by Nathan Moxley	Collected date/time 03/01/17 13:15	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG959282	1	03/09/17 09:09	03/09/17 09:17	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG958703	18.5	03/01/17 13:15	03/08/17 07:47	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG958676	25	03/01/17 13:15	03/08/17 20:05	JHH
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958691	1	03/08/17 12:31	03/08/17 22:43	ACM
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	1	03/09/17 09:33	03/14/17 15:32	CLG
B-4 (6.0-7.0) L893941-08 Solid		Collected by Nathan Moxley	Collected date/time 03/01/17 13:45	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG959282	1	03/09/17 09:09	03/09/17 09:17	KDW
Mercury by Method 7471A	WG958303	1	03/06/17 15:39	03/08/17 14:59	NJB
Metals (ICP) by Method 6010C	WG958474	1	03/08/17 09:32	03/08/17 13:23	CCE
Volatile Organic Compounds (GC) by Method NWTPHGX	WG958703	720	03/01/17 13:45	03/08/17 08:09	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959350	72	03/01/17 13:45	03/11/17 17:15	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958691	1	03/08/17 12:31	03/08/17 22:55	ACM
Polychlorinated Biphenyls (GC) by Method 8082	WG958814	1	03/09/17 08:17	03/09/17 17:28	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	1	03/09/17 09:33	03/14/17 15:53	CLG
B-4 (11.0-12.0) L893941-09 Solid		Collected by Nathan Moxley	Collected date/time 03/01/17 13:50	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG959282	1	03/09/17 09:09	03/09/17 09:17	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG958705	1	03/01/17 13:50	03/13/17 13:01	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959355	18.5	03/01/17 13:50	03/09/17 13:11	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958691	1	03/08/17 12:31	03/08/17 23:22	ACM
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	1	03/09/17 09:33	03/14/17 16:15	CLG
B-5 (12.0-13.0) L893941-10 Solid		Collected by Nathan Moxley	Collected date/time 03/01/17 14:30	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG959282	1	03/09/17 09:09	03/09/17 09:17	KDW
Mercury by Method 7471A	WG958303	1	03/06/17 15:39	03/08/17 15:38	NJB
Metals (ICP) by Method 6010C	WG958474	1	03/08/17 09:32	03/08/17 13:25	CCE



## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



			Collected by Nathan Moxley	Collected date/time 03/01/17 14:30	Received date/time 03/04/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG958705	73	03/01/17 14:30	03/08/17 15:37	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959350	18.25	03/01/17 14:30	03/11/17 17:35	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958691	1	03/08/17 12:31	03/08/17 23:48	ACM
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	1	03/09/17 09:33	03/14/17 16:36	CLG
<b>B-5 (19.0-20.0) L893941-11 Solid</b>			Collected by Nathan Moxley	Collected date/time 03/01/17 14:40	Received date/time 03/04/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG959282	1	03/09/17 09:09	03/09/17 09:17	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG958705	1	03/01/17 14:40	03/08/17 15:59	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG958676	1	03/01/17 14:40	03/13/17 17:04	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958691	1	03/08/17 12:31	03/08/17 23:35	ACM
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	1	03/09/17 09:33	03/14/17 16:57	CLG
<b>B-5 L893941-12 GW</b>			Collected by Nathan Moxley	Collected date/time 03/01/17 14:50	Received date/time 03/04/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG958806	1	03/08/17 10:09	03/08/17 19:00	TRB
Metals (ICP) by Method 6010C	WG958726	1	03/07/17 18:13	03/07/17 20:25	ST
Volatile Organic Compounds (GC) by Method NWTPHGX	WG957976	1	03/09/17 17:59	03/09/17 17:59	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	1	03/08/17 20:09	03/08/17 20:09	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	10	03/10/17 05:58	03/10/17 05:58	JAH
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958334	2	03/06/17 23:05	03/08/17 20:12	TRF
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG958443	1	03/07/17 11:20	03/08/17 12:37	FMB
<b>DUP-1-SOIL L893941-13 Solid</b>			Collected by Nathan Moxley	Collected date/time 03/01/17 00:00	Received date/time 03/04/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG959282	1	03/09/17 09:09	03/09/17 09:17	KDW
Mercury by Method 7471A	WG958303	1	03/06/17 15:39	03/08/17 15:40	NJB
Metals (ICP) by Method 6010C	WG958474	1	03/08/17 09:32	03/08/17 13:28	CCE
Volatile Organic Compounds (GC) by Method NWTPHGX	WG958705	1	03/01/17 00:00	03/08/17 16:22	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959350	1	03/01/17 00:00	03/09/17 16:49	DWR
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958691	1	03/08/17 12:31	03/09/17 00:39	ACM
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG959087	1	03/09/17 09:33	03/14/17 17:19	CLG
<b>DUP-1-GW L893941-14 GW</b>			Collected by Nathan Moxley	Collected date/time 03/01/17 00:00	Received date/time 03/04/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG958806	1	03/08/17 10:09	03/08/17 19:03	TRB
Metals (ICP) by Method 6010C	WG958726	1	03/07/17 18:13	03/07/17 20:28	ST
Volatile Organic Compounds (GC) by Method NWTPHGX	WG957976	1	03/09/17 18:21	03/09/17 18:21	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	1	03/08/17 20:32	03/08/17 20:32	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	10	03/10/17 06:14	03/10/17 06:14	JAH
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958334	2	03/06/17 23:05	03/08/17 20:28	TRF
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG958443	1	03/07/17 11:20	03/08/17 13:00	FMB





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley  
Technical Service Representative

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> GI
- <sup>8</sup> AI
- <sup>9</sup> Sc



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	87.3		1	03/10/2017 09:48	<a href="#">WG959281</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Mercury by Method 7471A

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Mercury	U		0.00321	0.0229	1	03/08/2017 14:52	<a href="#">WG958303</a>

## Metals (ICP) by Method 6010C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	1.53	J	0.745	2.29	1	03/08/2017 13:15	<a href="#">WG958474</a>
Barium	39.1		0.195	0.573	1	03/08/2017 13:15	<a href="#">WG958474</a>
Cadmium	0.0819	J	0.0802	0.573	1	03/08/2017 13:15	<a href="#">WG958474</a>
Chromium	23.7		0.160	1.15	1	03/08/2017 13:15	<a href="#">WG958474</a>
Lead	1.67		0.218	0.573	1	03/08/2017 13:15	<a href="#">WG958474</a>
Selenium	U		0.848	2.29	1	03/08/2017 13:15	<a href="#">WG958474</a>
Silver	U		0.321	1.15	1	03/08/2017 13:15	<a href="#">WG958474</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	0.292		0.0389	0.115	1	03/08/2017 05:55	<a href="#">WG958703</a>
(S) a,a,a-Trifluorotoluene(FID)	89.7			77.0-120		03/08/2017 05:55	<a href="#">WG958703</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		0.0115	0.0573	1	03/09/2017 16:07	<a href="#">WG959350</a>
Acrylonitrile	U		0.00205	0.0115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Benzene	0.000625	J	0.000309	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Bromobenzene	U		0.000325	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Bromodichloromethane	U		0.000291	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Bromoform	U		0.000486	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Bromomethane	U		0.00154	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
n-Butylbenzene	0.00160		0.000296	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
sec-Butylbenzene	0.00220		0.000230	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
tert-Butylbenzene	U		0.000236	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Carbon tetrachloride	U		0.000376	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Chlorobenzene	U		0.000243	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Chlorodibromomethane	U		0.000428	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Chloroethane	U		0.00108	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
Chloroform	U		0.000262	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
Chloromethane	U		0.000430	0.00287	1	03/09/2017 16:07	<a href="#">WG959350</a>
2-Chlorotoluene	U		0.000345	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
4-Chlorotoluene	U		0.000275	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2-Dibromo-3-Chloropropane	U		0.00120	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2-Dibromoethane	U		0.000393	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Dibromomethane	U		0.000438	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2-Dichlorobenzene	U		0.000350	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,3-Dichlorobenzene	U		0.000274	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,4-Dichlorobenzene	U		0.000259	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Dichlorodifluoromethane	U		0.000817	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,1-Dichloroethane	U		0.000228	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2-Dichloroethane	U		0.000304	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000347	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
cis-1,2-Dichloroethene	U		0.000269	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
trans-1,2-Dichloroethene	U		0.000303	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2-Dichloropropane	U		0.000410	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,1-Dichloropropene	U		0.000363	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,3-Dichloropropene	U		0.000237	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
cis-1,3-Dichloropropene	U		0.000300	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
trans-1,3-Dichloropropene	U		0.000306	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
2,2-Dichloropropane	U		0.000320	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Di-isopropyl ether	U		0.000284	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Ethylbenzene	0.00423		0.000340	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Hexachloro-1,3-butadiene	U		0.000392	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Isopropylbenzene	0.00549		0.000279	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
p-Isopropyltoluene	0.000254	J	0.000234	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
2-Butanone (MEK)	U		0.00536	0.0115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Methylene Chloride	U		0.00115	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
4-Methyl-2-pentanone (MIBK)	U		0.00215	0.0115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Methyl tert-butyl ether	U		0.000243	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Naphthalene	U		0.00115	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
n-Propylbenzene	0.0177		0.000236	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Styrene	U		0.000268	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,1,2-Tetrachloroethane	U		0.000303	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,1,2,2-Tetrachloroethane	U		0.000418	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,1,2-Trichlorotrifluoroethane	U		0.000418	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Tetrachloroethene	U		0.000316	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Toluene	U		0.000497	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2,3-Trichlorobenzene	U		0.000351	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2,4-Trichlorobenzene	U		0.000445	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,1,1-Trichloroethane	U		0.000328	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,1,2-Trichloroethane	U		0.000317	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Trichloroethene	U		0.000320	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Trichlorofluoromethane	U		0.000438	0.00573	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2,3-Trichloropropane	U		0.000849	0.00287	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2,4-Trimethylbenzene	0.000850	J	0.000242	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,2,3-Trimethylbenzene	0.0112		0.000329	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Vinyl chloride	U		0.000334	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
1,3,5-Trimethylbenzene	0.00342		0.000305	0.00115	1	03/09/2017 16:07	<a href="#">WG959350</a>
Xylenes, Total	0.00440		0.000800	0.00344	1	03/09/2017 16:07	<a href="#">WG959350</a>
(S) Toluene-d8	97.9			80.0-120		03/09/2017 16:07	<a href="#">WG959350</a>
(S) Dibromofluoromethane	106			74.0-131		03/09/2017 16:07	<a href="#">WG959350</a>
(S) 4-Bromofluorobenzene	94.0			64.0-132		03/09/2017 16:07	<a href="#">WG959350</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.51	4.58	1	03/08/2017 21:50	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.78	11.5	1	03/08/2017 21:50	<a href="#">WG958691</a>
(S) o-Terphenyl	103			18.0-148		03/08/2017 21:50	<a href="#">WG958691</a>



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Anthracene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	<sup>1</sup> Cp
Acenaphthene	0.000697	J	0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	<sup>2</sup> Tc
Acenaphthylene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	<sup>3</sup> Ss
Benzo(a)anthracene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Benzo(a)pyrene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Benzo(b)fluoranthene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Benzo(g,h,i)perylene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Benzo(k)fluoranthene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Chrysene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Dibenz(a,h)anthracene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Fluoranthene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	<sup>6</sup> Qc
Fluorene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Indeno(1,2,3-cd)pyrene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Naphthalene	0.00846	J	0.00229	0.0229	1	03/14/2017 13:02	<a href="#">WG959087</a>	<sup>7</sup> GI
Phenanthere	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
Pyrene	U		0.000688	0.00688	1	03/14/2017 13:02	<a href="#">WG959087</a>	
1-Methylnaphthalene	0.00588	J	0.00229	0.0229	1	03/14/2017 13:02	<a href="#">WG959087</a>	
2-Methylnaphthalene	0.0117	J	0.00229	0.0229	1	03/14/2017 13:02	<a href="#">WG959087</a>	
2-Chloronaphthalene	U		0.00229	0.0229	1	03/14/2017 13:02	<a href="#">WG959087</a>	
(S) Nitrobenzene-d5	91.8			14.0-149		03/14/2017 13:02	<a href="#">WG959087</a>	
(S) 2-Fluorobiphenyl	86.3			34.0-125		03/14/2017 13:02	<a href="#">WG959087</a>	
(S) p-Terphenyl-d14	96.3			23.0-120		03/14/2017 13:02	<a href="#">WG959087</a>	<sup>8</sup> AI
								<sup>9</sup> SC



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	89.6		1	03/10/2017 09:48	<a href="#">WG959281</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	0.0600	J	0.0378	0.112	1	03/08/2017 06:17	<a href="#">WG958703</a>
(S) a,a,a-Trifluorotoluene(FID)	90.7			77.0-120		03/08/2017 06:17	<a href="#">WG958703</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.000310	J	0.000301	0.00112	1	03/08/2017 19:26	<a href="#">WG958676</a>
Toluene	U		0.000484	0.00558	1	03/08/2017 19:26	<a href="#">WG958676</a>
Ethylbenzene	U		0.000332	0.00112	1	03/08/2017 19:26	<a href="#">WG958676</a>
Total Xylenes	U		0.000779	0.00335	1	03/08/2017 19:26	<a href="#">WG958676</a>
(S) Toluene-d8	103			80.0-120		03/08/2017 19:26	<a href="#">WG958676</a>
(S) Dibromofluoromethane	107			74.0-131		03/08/2017 19:26	<a href="#">WG958676</a>
(S) a,a,a-Trifluorotoluene	99.3			80.0-120		03/08/2017 19:26	<a href="#">WG958676</a>
(S) 4-Bromofluorobenzene	98.0			64.0-132		03/08/2017 19:26	<a href="#">WG958676</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	U		1.47	4.47	1	03/08/2017 22:03	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.68	11.2	1	03/08/2017 22:03	<a href="#">WG958691</a>
(S) o-Terphenyl	103			18.0-148		03/08/2017 22:03	<a href="#">WG958691</a>

7 Gl

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Anthracene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Acenaphthene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Acenaphthylene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Benzo(a)anthracene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Benzo(a)pyrene	U	J3	0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Benzo(b)fluoranthene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Benzo(g,h,i)perylene	U	J3	0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Benzo(k)fluoranthene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Chrysene	U	J3	0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Dibenz(a,h)anthracene	U	J3	0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Fluoranthene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Fluorene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Indeno(1,2,3-cd)pyrene	U	J3	0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Naphthalene	0.00652	J	0.00223	0.0223	1	03/14/2017 13:23	<a href="#">WG959087</a>
Phenanthrene	U		0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
Pyrene	U	J3	0.000670	0.00670	1	03/14/2017 13:23	<a href="#">WG959087</a>
1-Methylnaphthalene	U		0.00223	0.0223	1	03/14/2017 13:23	<a href="#">WG959087</a>
2-Methylnaphthalene	U		0.00223	0.0223	1	03/14/2017 13:23	<a href="#">WG959087</a>
2-Chloronaphthalene	U		0.00223	0.0223	1	03/14/2017 13:23	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	89.7			14.0-149		03/14/2017 13:23	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	83.4			34.0-125		03/14/2017 13:23	<a href="#">WG959087</a>
(S) p-Terphenyl-d14	90.8			23.0-120		03/14/2017 13:23	<a href="#">WG959087</a>

6 Qc

8 Al

9 Sc



## Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury,Dissolved	U		0.0490	0.200	1	03/08/2017 18:13	<a href="#">WG958806</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

## Metals (ICP) by Method 6010C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Arsenic,Dissolved	U		6.50	10.0	1	03/07/2017 20:12	<a href="#">WG958726</a>
Barium,Dissolved	39.9		1.70	5.00	1	03/07/2017 20:12	<a href="#">WG958726</a>
Cadmium,Dissolved	U		0.700	2.00	1	03/07/2017 20:12	<a href="#">WG958726</a>
Chromium,Dissolved	U		1.40	10.0	1	03/07/2017 20:12	<a href="#">WG958726</a>
Lead,Dissolved	U		1.90	5.00	1	03/07/2017 20:12	<a href="#">WG958726</a>
Selenium,Dissolved	U		7.40	10.0	1	03/07/2017 20:12	<a href="#">WG958726</a>
Silver,Dissolved	U		2.80	5.00	1	03/07/2017 20:12	<a href="#">WG958726</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	2440		31.6	100	1	03/09/2017 17:37	<a href="#">WG957976</a>
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-122		03/09/2017 17:37	<a href="#">WG957976</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		10.0	50.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Acrolein	U	J4	8.87	50.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Acrylonitrile	U		1.87	10.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Benzene	27.3		0.331	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromobenzene	U		0.352	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromodichloromethane	U		0.380	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromoform	U		0.469	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromomethane	U		0.866	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
n-Butylbenzene	6.25		0.361	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
sec-Butylbenzene	7.74		0.365	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
tert-Butylbenzene	U		0.399	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Carbon tetrachloride	U		0.379	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chlorobenzene	U		0.348	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chlorodibromomethane	U		0.327	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chloroethane	U		0.453	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chloroform	7.06		0.324	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chloromethane	U		0.276	2.50	1	03/08/2017 19:46	<a href="#">WG959106</a>
2-Chlorotoluene	U		0.375	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
4-Chlorotoluene	U		0.351	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Dibromomethane	U		0.346	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.352	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,3-Dichloropropane	U		0.366	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
2,2-Dichloropropane	U		0.321	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Di-isopropyl ether	U		0.320	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Ethylbenzene	109		0.384	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Isopropylbenzene	54.8		0.326	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
p-Isopropyltoluene	1.71		0.350	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Methylene Chloride	U		1.00	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Naphthalene	5.46		1.00	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
n-Propylbenzene	155		0.349	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Styrene	U		0.307	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2-Tetrachloroethane	U		0.385	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Tetrachloroethene	U		0.372	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Toluene	4.09		0.412	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Trichloroethene	U		0.398	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,3-Trichloropropane	U		0.807	2.50	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,4-Trimethylbenzene	1.65		0.373	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,3-Trimethylbenzene	12.8		0.321	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,3,5-Trimethylbenzene	15.3		0.387	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Vinyl chloride	U		0.259	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Xylenes, Total	71.5		1.06	3.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
(S) Toluene-d8	107			80.0-120		03/08/2017 19:46	<a href="#">WG959106</a>
(S) Dibromofluoromethane	107			76.0-123		03/08/2017 19:46	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	89.0			80.0-120		03/08/2017 19:46	<a href="#">WG959106</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	599		82.5	250	1	03/10/2017 00:41	<a href="#">WG958334</a>
Residual Range Organics (RRO)	U		165	500	1	03/10/2017 00:41	<a href="#">WG958334</a>
(S) o-Terphenyl	121			52.0-156		03/10/2017 00:41	<a href="#">WG958334</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0140	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Acenaphthene	0.0719		0.0100	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Acenaphthylene	U		0.0120	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(a)anthracene	U		0.00410	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(a)pyrene	U		0.0116	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(b)fluoranthene	U		0.00212	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(g,h,i)perylene	U		0.00227	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>





## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Benzo(k)fluoranthene	U		0.0136	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>1</sup> Cp
Chrysene	U		0.0108	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>2</sup> Tc
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>3</sup> Ss
Fluoranthene	U		0.0157	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>4</sup> Cn
Fluorene	0.108		0.00850	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>5</sup> Sr
Indeno[1,2,3-cd]pyrene	U		0.0148	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>6</sup> Qc
Naphthalene	5.24		0.0198	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>7</sup> Gl
Phenanthrene	0.0229	<u>J</u>	0.00820	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>8</sup> Al
Pyrene	U		0.0117	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>9</sup> Sc
1-Methylnaphthalene	32.0		0.00821	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	
2-Methylnaphthalene	46.7		0.00902	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	
2-Chloronaphthalene	U		0.00647	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	
(S) Nitrobenzene-d5	144			31.0-160		03/08/2017 12:14	<a href="#">WG958443</a>	
(S) 2-Fluorobiphenyl	96.8			48.0-148		03/08/2017 12:14	<a href="#">WG958443</a>	
(S) p-Terphenyl-d14	81.0			37.0-146		03/08/2017 12:14	<a href="#">WG958443</a>	



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	89.8		1	03/10/2017 09:48	<a href="#">WG959281</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Mercury by Method 7471A

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Mercury	U		0.00312	0.0223	1	03/08/2017 14:54	<a href="#">WG958303</a>

## Metals (ICP) by Method 6010C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	1.37	J	0.724	2.23	1	03/08/2017 13:17	<a href="#">WG958474</a>
Barium	59.9		0.189	0.557	1	03/08/2017 13:17	<a href="#">WG958474</a>
Cadmium	0.0985	J	0.0779	0.557	1	03/08/2017 13:17	<a href="#">WG958474</a>
Chromium	31.7		0.156	1.11	1	03/08/2017 13:17	<a href="#">WG958474</a>
Lead	2.44		0.212	0.557	1	03/08/2017 13:17	<a href="#">WG958474</a>
Selenium	U		0.824	2.23	1	03/08/2017 13:17	<a href="#">WG958474</a>
Silver	U		0.312	1.11	1	03/08/2017 13:17	<a href="#">WG958474</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	U		0.0377	0.111	1	03/08/2017 06:40	<a href="#">WG958703</a>
(S) a,a,a-Trifluorotoluene(FID)	90.7			77.0-120		03/08/2017 06:40	<a href="#">WG958703</a>

<sup>7</sup> GI

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		0.0111	0.0557	1	03/09/2017 16:28	<a href="#">WG959350</a>
Acrylonitrile	U		0.00199	0.0111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Benzene	U		0.000301	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Bromobenzene	U		0.000316	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Bromodichloromethane	U		0.000283	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Bromoform	U		0.000472	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Bromomethane	U		0.00149	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
n-Butylbenzene	U		0.000287	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
sec-Butylbenzene	U		0.000224	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
tert-Butylbenzene	U		0.000229	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Carbon tetrachloride	U		0.000365	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Chlorobenzene	U		0.000236	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Chlorodibromomethane	U		0.000415	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Chloroethane	U		0.00105	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
Chloroform	U		0.000255	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
Chloromethane	U		0.000417	0.00278	1	03/09/2017 16:28	<a href="#">WG959350</a>
2-Chlorotoluene	U		0.000335	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
4-Chlorotoluene	U		0.000267	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2-Dibromo-3-Chloropropane	U		0.00117	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2-Dibromoethane	U		0.000382	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Dibromomethane	U		0.000425	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2-Dichlorobenzene	U		0.000340	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,3-Dichlorobenzene	U		0.000266	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,4-Dichlorobenzene	U		0.000252	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Dichlorodifluoromethane	U		0.000794	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,1-Dichloroethane	U		0.000222	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2-Dichloroethane	U		0.000295	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000337	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
cis-1,2-Dichloroethene	U		0.000262	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
trans-1,2-Dichloroethene	U		0.000294	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2-Dichloropropane	U		0.000399	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,1-Dichloropropene	U		0.000353	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,3-Dichloropropene	U		0.000230	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
cis-1,3-Dichloropropene	U		0.000292	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
trans-1,3-Dichloropropene	U		0.000297	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
2,2-Dichloropropane	U		0.000311	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Di-isopropyl ether	U		0.000276	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Ethylbenzene	U		0.000331	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Hexachloro-1,3-butadiene	U		0.000381	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Isopropylbenzene	U		0.000271	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
p-Isopropyltoluene	U		0.000227	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
2-Butanone (MEK)	U		0.00521	0.0111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Methylene Chloride	U		0.00111	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
4-Methyl-2-pentanone (MIBK)	U		0.00209	0.0111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Methyl tert-butyl ether	U		0.000236	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Naphthalene	U		0.00111	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
n-Propylbenzene	U		0.000229	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Styrene	U		0.000261	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,1,2-Tetrachloroethane	U		0.000294	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,1,2,2-Tetrachloroethane	U		0.000406	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,1,2-Trichlorotrifluoroethane	U		0.000406	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Tetrachloroethene	U		0.000307	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Toluene	U		0.000483	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2,3-Trichlorobenzene	U		0.000341	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2,4-Trichlorobenzene	U		0.000432	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,1,1-Trichloroethane	U		0.000318	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,1,2-Trichloroethane	U		0.000308	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Trichloroethene	U		0.000311	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Trichlorofluoromethane	U		0.000425	0.00557	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2,3-Trichloropropane	U		0.000825	0.00278	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2,4-Trimethylbenzene	U		0.000235	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,2,3-Trimethylbenzene	U		0.000320	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Vinyl chloride	U		0.000324	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
1,3,5-Trimethylbenzene	U		0.000296	0.00111	1	03/09/2017 16:28	<a href="#">WG959350</a>
Xylenes, Total	U		0.000777	0.00334	1	03/09/2017 16:28	<a href="#">WG959350</a>
(S) Toluene-d8	97.2			80.0-120		03/09/2017 16:28	<a href="#">WG959350</a>
(S) Dibromofluoromethane	106			74.0-131		03/09/2017 16:28	<a href="#">WG959350</a>
(S) 4-Bromofluorobenzene	93.2			64.0-132		03/09/2017 16:28	<a href="#">WG959350</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.47	4.45	1	03/08/2017 22:16	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.67	11.1	1	03/08/2017 22:16	<a href="#">WG958691</a>
(S) o-Terphenyl	99.2			18.0-148		03/08/2017 22:16	<a href="#">WG958691</a>



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Anthracene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	<sup>1</sup> Cp
Acenaphthene	0.00102	J	0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	<sup>2</sup> Tc
Acenaphthylene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	<sup>3</sup> Ss
Benzo(a)anthracene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Benzo(a)pyrene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Benzo(b)fluoranthene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Benzo(g,h,i)perylene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Benzo(k)fluoranthene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Chrysene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Dibenz(a,h)anthracene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Fluoranthene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	<sup>6</sup> Qc
Fluorene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Indeno(1,2,3-cd)pyrene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Naphthalene	0.00534	J	0.00223	0.0223	1	03/14/2017 14:28	<a href="#">WG959087</a>	<sup>7</sup> GI
Phenanthere	0.000743	J	0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
Pyrene	U		0.000668	0.00668	1	03/14/2017 14:28	<a href="#">WG959087</a>	
1-Methylnaphthalene	U		0.00223	0.0223	1	03/14/2017 14:28	<a href="#">WG959087</a>	
2-Methylnaphthalene	U		0.00223	0.0223	1	03/14/2017 14:28	<a href="#">WG959087</a>	
2-Chloronaphthalene	U		0.00223	0.0223	1	03/14/2017 14:28	<a href="#">WG959087</a>	
(S) Nitrobenzene-d5	78.4			14.0-149		03/14/2017 14:28	<a href="#">WG959087</a>	
(S) 2-Fluorobiphenyl	83.3			34.0-125		03/14/2017 14:28	<a href="#">WG959087</a>	
(S) p-Terphenyl-d14	91.6			23.0-120		03/14/2017 14:28	<a href="#">WG959087</a>	<sup>8</sup> AI



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	86.6		1	03/09/2017 09:17	<a href="#">WG959282</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	U		0.0391	0.115	1	03/08/2017 07:02	<a href="#">WG958703</a>
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120		03/08/2017 07:02	<a href="#">WG958703</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.000312	0.00115	1	03/08/2017 19:46	<a href="#">WG958676</a>
Toluene	U		0.000501	0.00577	1	03/08/2017 19:46	<a href="#">WG958676</a>
Ethylbenzene	U		0.000343	0.00115	1	03/08/2017 19:46	<a href="#">WG958676</a>
Total Xylenes	U		0.000806	0.00346	1	03/08/2017 19:46	<a href="#">WG958676</a>
(S) Toluene-d8	101			80.0-120		03/08/2017 19:46	<a href="#">WG958676</a>
(S) Dibromofluoromethane	110			74.0-131		03/08/2017 19:46	<a href="#">WG958676</a>
(S) a,a,a-Trifluorotoluene	97.7			80.0-120		03/08/2017 19:46	<a href="#">WG958676</a>
(S) 4-Bromofluorobenzene	90.8			64.0-132		03/08/2017 19:46	<a href="#">WG958676</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	U		1.52	4.62	1	03/08/2017 22:30	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.81	11.5	1	03/08/2017 22:30	<a href="#">WG958691</a>
(S) o-Terphenyl	78.7			18.0-148		03/08/2017 22:30	<a href="#">WG958691</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Anthracene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Acenaphthene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Acenaphthylene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Benzo(a)anthracene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Benzo(a)pyrene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Benzo(b)fluoranthene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Benzo(g,h,i)perylene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Benzo(k)fluoranthene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Chrysene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Dibenz(a,h)anthracene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Fluoranthene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Fluorene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Indeno(1,2,3-cd)pyrene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Naphthalene	U		0.00231	0.0231	1	03/14/2017 14:49	<a href="#">WG959087</a>
Phenanthrene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
Pyrene	U		0.000693	0.00693	1	03/14/2017 14:49	<a href="#">WG959087</a>
1-Methylnaphthalene	U		0.00231	0.0231	1	03/14/2017 14:49	<a href="#">WG959087</a>
2-Methylnaphthalene	U		0.00231	0.0231	1	03/14/2017 14:49	<a href="#">WG959087</a>
2-Chloronaphthalene	U		0.00231	0.0231	1	03/14/2017 14:49	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	86.6			14.0-149		03/14/2017 14:49	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	83.2			34.0-125		03/14/2017 14:49	<a href="#">WG959087</a>
(S) p-Terphenyl-d14	84.8			23.0-120		03/14/2017 14:49	<a href="#">WG959087</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	83.3		1	03/09/2017 09:17	<a href="#">WG959282</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Mercury by Method 7471A

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Mercury	U		0.00336	0.0240	1	03/08/2017 14:57	<a href="#">WG958303</a>

## Metals (ICP) by Method 6010C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	1.03	J	0.780	2.40	1	03/08/2017 13:20	<a href="#">WG958474</a>
Barium	48.6		0.204	0.600	1	03/08/2017 13:20	<a href="#">WG958474</a>
Cadmium	U		0.0841	0.600	1	03/08/2017 13:20	<a href="#">WG958474</a>
Chromium	21.2		0.168	1.20	1	03/08/2017 13:20	<a href="#">WG958474</a>
Lead	2.52		0.228	0.600	1	03/08/2017 13:20	<a href="#">WG958474</a>
Selenium	U		0.889	2.40	1	03/08/2017 13:20	<a href="#">WG958474</a>
Silver	U		0.336	1.20	1	03/08/2017 13:20	<a href="#">WG958474</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	13800		156	462	3850	03/08/2017 09:15	<a href="#">WG958703</a>
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		03/08/2017 09:15	<a href="#">WG958703</a>

<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> SC

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		9.25	46.2	770	03/09/2017 21:44	<a href="#">WG959350</a>
Acrylonitrile	U		1.66	9.25	770	03/09/2017 21:44	<a href="#">WG959350</a>
Benzene	3.48		0.250	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Bromobenzene	U		0.263	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Bromodichloromethane	U		0.235	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Bromoform	U		0.391	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Bromomethane	U		1.24	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
n-Butylbenzene	16.8		0.239	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
sec-Butylbenzene	5.87		0.186	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
tert-Butylbenzene	U		0.191	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Carbon tetrachloride	U		0.303	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Chlorobenzene	U		0.196	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Chlorodibromomethane	U		0.345	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Chloroethane	U		0.874	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
Chloroform	U		0.211	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
Chloromethane	U		0.347	2.31	770	03/09/2017 21:44	<a href="#">WG959350</a>
2-Chlorotoluene	U		0.279	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
4-Chlorotoluene	U		0.222	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2-Dibromo-3-Chloropropane	U		0.970	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2-Dibromoethane	U		0.317	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Dibromomethane	U		0.353	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2-Dichlorobenzene	U		0.282	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,3-Dichlorobenzene	U		0.221	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,4-Dichlorobenzene	U		0.209	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Dichlorodifluoromethane	U		0.659	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,1-Dichloroethane	U		0.184	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2-Dichloroethane	U		0.245	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.280	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
cis-1,2-Dichloroethene	U		0.217	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
trans-1,2-Dichloroethene	U		0.244	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2-Dichloropropane	U		0.331	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,1-Dichloropropene	U		0.293	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,3-Dichloropropene	U		0.191	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
cis-1,3-Dichloropropene	U		0.243	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
trans-1,3-Dichloropropene	U		0.247	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
2,2-Dichloropropane	U		0.258	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Di-isopropyl ether	U		0.229	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Ethylbenzene	177		0.275	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Hexachloro-1,3-butadiene	U		0.316	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Isopropylbenzene	16.1		0.225	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
p-Isopropyltoluene	2.32		0.189	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
2-Butanone (MEK)	U		4.32	9.25	770	03/09/2017 21:44	<a href="#">WG959350</a>
Methylene Chloride	U		0.925	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
4-Methyl-2-pentanone (MIBK)	U		1.74	9.25	770	03/09/2017 21:44	<a href="#">WG959350</a>
Methyl tert-butyl ether	U		0.196	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Naphthalene	45.9		0.925	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
n-Propylbenzene	72.4		0.191	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Styrene	U		0.216	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,1,2-Tetrachloroethane	U		0.244	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,1,2,2-Tetrachloroethane	U		0.337	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,1,2-Trichlorotrifluoroethane	U		0.337	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Tetrachloroethene	U		0.255	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Toluene	19.7		0.401	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2,3-Trichlorobenzene	U		0.283	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2,4-Trichlorobenzene	U		0.359	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,1,1-Trichloroethane	U		0.264	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,1,2-Trichloroethane	U		0.256	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Trichloroethene	U		0.258	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Trichlorofluoromethane	U		0.353	4.62	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2,3-Trichloropropane	U		0.684	2.31	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,2,4-Trimethylbenzene	423		1.95	9.25	7700	03/11/2017 18:14	<a href="#">WG959350</a>
1,2,3-Trimethylbenzene	104		0.265	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Vinyl chloride	U		0.269	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
1,3,5-Trimethylbenzene	140		0.246	0.925	770	03/09/2017 21:44	<a href="#">WG959350</a>
Xylenes, Total	938		6.45	27.7	7700	03/11/2017 18:14	<a href="#">WG959350</a>
(S) Toluene-d8	93.1			80.0-120		03/09/2017 21:44	<a href="#">WG959350</a>
(S) Toluene-d8	102			80.0-120		03/11/2017 18:14	<a href="#">WG959350</a>
(S) Dibromofluoromethane	97.2			74.0-131		03/09/2017 21:44	<a href="#">WG959350</a>
(S) Dibromofluoromethane	94.1			74.0-131		03/11/2017 18:14	<a href="#">WG959350</a>
(S) 4-Bromofluorobenzene	78.0			64.0-132		03/09/2017 21:44	<a href="#">WG959350</a>
(S) 4-Bromofluorobenzene	99.2			64.0-132		03/11/2017 18:14	<a href="#">WG959350</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	166		31.7	96.1	20	03/09/2017 02:25	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		79.2	240	20	03/09/2017 02:25	<a href="#">WG958691</a>
(S) o-Terphenyl	86.5	J7		18.0-148		03/09/2017 02:25	<a href="#">WG958691</a>

## Sample Narrative:

NWTPHDX-NO SGT L893941-06 WG958691: Dilution due to matrix

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc



## Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U	J3	0.00420	0.0204	1	03/09/2017 17:14	<a href="#">WG958814</a>
PCB 1221	U		0.00645	0.0204	1	03/09/2017 17:14	<a href="#">WG958814</a>
PCB 1232	U		0.00501	0.0204	1	03/09/2017 17:14	<a href="#">WG958814</a>
PCB 1242	U		0.00382	0.0204	1	03/09/2017 17:14	<a href="#">WG958814</a>
PCB 1248	U		0.00378	0.0204	1	03/09/2017 17:14	<a href="#">WG958814</a>
PCB 1254	U		0.00567	0.0204	1	03/09/2017 17:14	<a href="#">WG958814</a>
PCB 1260	U	J3	0.00593	0.0204	1	03/09/2017 17:14	<a href="#">WG958814</a>
(S) Decachlorobiphenyl	97.8			10.0-148		03/09/2017 17:14	<a href="#">WG958814</a>
(S) Tetrachloro-m-xylene	96.0			21.0-146		03/09/2017 17:14	<a href="#">WG958814</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0274		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Acenaphthene	0.0269		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Acenaphthylene	0.00465	J	0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Benzo(a)anthracene	0.00191	J	0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Benzo(a)pyrene	U		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Benzo(b)fluoranthene	U		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Benzo(g,h,i)perylene	0.00152	J	0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Benzo(k)fluoranthene	U		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Chrysene	0.00216	J	0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Dibenz(a,h)anthracene	U		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Fluoranthene	0.00902		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Fluorene	0.0784		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Indeno(1,2,3-cd)pyrene	U		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Naphthalene	12.6		0.0480	0.480	20	03/14/2017 17:40	<a href="#">WG959087</a>
Phenanthrene	0.0857		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
Pyrene	0.0296		0.000720	0.00720	1	03/14/2017 15:11	<a href="#">WG959087</a>
1-Methylnaphthalene	5.98		0.0480	0.480	20	03/14/2017 17:40	<a href="#">WG959087</a>
2-Methylnaphthalene	14.6		0.0480	0.480	20	03/14/2017 17:40	<a href="#">WG959087</a>
2-Chloronaphthalene	U		0.00240	0.0240	1	03/14/2017 15:11	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	77.1			14.0-149		03/14/2017 15:11	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	208	J7		14.0-149		03/14/2017 17:40	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	80.3			34.0-125		03/14/2017 15:11	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	79.4	J7		34.0-125		03/14/2017 17:40	<a href="#">WG959087</a>
(S) p-Terphenyl-d14	84.0			23.0-120		03/14/2017 15:11	<a href="#">WG959087</a>
(S) p-Terphenyl-d14	65.3	J7		23.0-120		03/14/2017 17:40	<a href="#">WG959087</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	87.1		1	03/09/2017 09:17	<a href="#">WG959282</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	15.2		0.720	2.12	18.5	03/08/2017 07:47	<a href="#">WG958703</a>
(S) a,a,a-Trifluorotoluene(FID)	92.7			77.0-120		03/08/2017 07:47	<a href="#">WG958703</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.00775	0.0287	25	03/08/2017 20:05	<a href="#">WG958676</a>
Toluene	U		0.0124	0.143	25	03/08/2017 20:05	<a href="#">WG958676</a>
Ethylbenzene	0.170		0.00852	0.0287	25	03/08/2017 20:05	<a href="#">WG958676</a>
Total Xylenes	0.500		0.0200	0.0861	25	03/08/2017 20:05	<a href="#">WG958676</a>
(S) Toluene-d8	101			80.0-120		03/08/2017 20:05	<a href="#">WG958676</a>
(S) Dibromofluoromethane	102			74.0-131		03/08/2017 20:05	<a href="#">WG958676</a>
(S) a,a,a-Trifluorotoluene	99.0			80.0-120		03/08/2017 20:05	<a href="#">WG958676</a>
(S) 4-Bromofluorobenzene	101			64.0-132		03/08/2017 20:05	<a href="#">WG958676</a>

## Sample Narrative:

8260C L893941-07 WG958676: Non-target and target compounds too high to run at a lower dilution.

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	U		1.52	4.59	1	03/08/2017 22:43	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.79	11.5	1	03/08/2017 22:43	<a href="#">WG958691</a>
(S) o-Terphenyl	82.3			18.0-148		03/08/2017 22:43	<a href="#">WG958691</a>

<sup>10</sup> R

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Anthracene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Acenaphthene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Acenaphthylene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Benzo(a)anthracene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Benzo(a)pyrene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Benzo(b)fluoranthene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Benzo(g,h,i)perylene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Benzo(k)fluoranthene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Chrysene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Dibenz(a,h)anthracene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Fluoranthene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Fluorene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Indeno(1,2,3-cd)pyrene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Naphthalene	0.0670		0.00230	0.0230	1	03/14/2017 15:32	<a href="#">WG959087</a>
Phenanthrene	0.000807	J	0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
Pyrene	U		0.000689	0.00689	1	03/14/2017 15:32	<a href="#">WG959087</a>
1-Methylnaphthalene	0.0302		0.00230	0.0230	1	03/14/2017 15:32	<a href="#">WG959087</a>
2-Methylnaphthalene	0.0701		0.00230	0.0230	1	03/14/2017 15:32	<a href="#">WG959087</a>
2-Chloronaphthalene	U		0.00230	0.0230	1	03/14/2017 15:32	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	85.6			14.0-149		03/14/2017 15:32	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	77.4			34.0-125		03/14/2017 15:32	<a href="#">WG959087</a>

<sup>11</sup> B



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>	1 Cp
(S) <i>p</i> -Terphenyl- <i>d</i> 14	74.3			23.0-120		03/14/2017 15:32	WG959087	2 Tc

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	80.8		1	03/09/2017 09:17	<a href="#">WG959282</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Mercury by Method 7471A

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Mercury	U		0.00346	0.0247	1	03/08/2017 14:59	<a href="#">WG958303</a>

## Metals (ICP) by Method 6010C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	2.22	J	0.804	2.47	1	03/08/2017 13:23	<a href="#">WG958474</a>
Barium	107		0.210	0.619	1	03/08/2017 13:23	<a href="#">WG958474</a>
Cadmium	0.101	J	0.0866	0.619	1	03/08/2017 13:23	<a href="#">WG958474</a>
Chromium	34.5		0.173	1.24	1	03/08/2017 13:23	<a href="#">WG958474</a>
Lead	4.12		0.235	0.619	1	03/08/2017 13:23	<a href="#">WG958474</a>
Selenium	U		0.915	2.47	1	03/08/2017 13:23	<a href="#">WG958474</a>
Silver	0.784	J	0.346	1.24	1	03/08/2017 13:23	<a href="#">WG958474</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	289		30.2	89.1	720	03/08/2017 08:09	<a href="#">WG958703</a>
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		03/08/2017 08:09	<a href="#">WG958703</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		0.891	4.45	72	03/11/2017 17:15	<a href="#">WG959350</a>
Acrylonitrile	U		0.160	0.891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Benzene	0.0752	J	0.0240	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Bromobenzene	U		0.0252	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Bromodichloromethane	U		0.0226	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Bromoform	U		0.0377	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Bromomethane	U		0.119	0.445	72	03/11/2017 17:15	<a href="#">WG959350</a>
n-Butylbenzene	0.579		0.0230	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
sec-Butylbenzene	0.316		0.0179	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
tert-Butylbenzene	U		0.0183	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Carbon tetrachloride	U		0.0292	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Chlorobenzene	U		0.0189	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Chlorodibromomethane	U		0.0332	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Chloroethane	U		0.0842	0.445	72	03/11/2017 17:15	<a href="#">WG959350</a>
Chloroform	U		0.0204	0.445	72	03/11/2017 17:15	<a href="#">WG959350</a>
Chloromethane	U		0.0334	0.223	72	03/11/2017 17:15	<a href="#">WG959350</a>
2-Chlorotoluene	U		0.0268	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
4-Chlorotoluene	U		0.0214	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
1,2-Dibromo-3-Chloropropane	U		0.0935	0.445	72	03/11/2017 17:15	<a href="#">WG959350</a>
1,2-Dibromoethane	U		0.0306	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Dibromomethane	U		0.0340	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
1,2-Dichlorobenzene	U		0.0272	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
1,3-Dichlorobenzene	U		0.0213	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
1,4-Dichlorobenzene	U		0.0202	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
Dichlorodifluoromethane	U		0.0635	0.445	72	03/11/2017 17:15	<a href="#">WG959350</a>
1,1-Dichloroethane	U		0.0177	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>
1,2-Dichloroethane	U		0.0236	0.0891	72	03/11/2017 17:15	<a href="#">WG959350</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
1,1-Dichloroethene	U		0.0270	0.0891	72	03/11/2017 17:15	WG959350	<sup>1</sup> Cp
cis-1,2-Dichloroethene	U		0.0209	0.0891	72	03/11/2017 17:15	WG959350	<sup>2</sup> Tc
trans-1,2-Dichloroethene	U		0.0235	0.0891	72	03/11/2017 17:15	WG959350	<sup>3</sup> Ss
1,2-Dichloropropane	U		0.0319	0.0891	72	03/11/2017 17:15	WG959350	<sup>4</sup> Cn
1,1-Dichloropropene	U		0.0282	0.0891	72	03/11/2017 17:15	WG959350	<sup>5</sup> Sr
1,3-Dichloropropene	U		0.0184	0.0891	72	03/11/2017 17:15	WG959350	<sup>6</sup> Qc
cis-1,3-Dichloropropene	U		0.0234	0.0891	72	03/11/2017 17:15	WG959350	<sup>7</sup> Gl
trans-1,3-Dichloropropene	U		0.0238	0.0891	72	03/11/2017 17:15	WG959350	<sup>8</sup> Al
2,2-Dichloropropane	U		0.0249	0.0891	72	03/11/2017 17:15	WG959350	<sup>9</sup> Sc
Di-isopropyl ether	U		0.0220	0.0891	72	03/11/2017 17:15	WG959350	
Ethylbenzene	3.56		0.0265	0.0891	72	03/11/2017 17:15	WG959350	
Hexachloro-1,3-butadiene	U		0.0304	0.0891	72	03/11/2017 17:15	WG959350	
Isopropylbenzene	0.878		0.0217	0.0891	72	03/11/2017 17:15	WG959350	
p-Isopropyltoluene	0.104		0.0182	0.0891	72	03/11/2017 17:15	WG959350	
2-Butanone (MEK)	U		0.417	0.891	72	03/11/2017 17:15	WG959350	
Methylene Chloride	U		0.0891	0.445	72	03/11/2017 17:15	WG959350	
4-Methyl-2-pentanone (MIBK)	U		0.167	0.891	72	03/11/2017 17:15	WG959350	
Methyl tert-butyl ether	U		0.0189	0.0891	72	03/11/2017 17:15	WG959350	
Naphthalene	1.36		0.0891	0.445	72	03/11/2017 17:15	WG959350	
n-Propylbenzene	3.63		0.0183	0.0891	72	03/11/2017 17:15	WG959350	
Styrene	U		0.0208	0.0891	72	03/11/2017 17:15	WG959350	
1,1,1,2-Tetrachloroethane	U		0.0235	0.0891	72	03/11/2017 17:15	WG959350	
1,1,2,2-Tetrachloroethane	U		0.0325	0.0891	72	03/11/2017 17:15	WG959350	
1,1,2-Trichlorotrifluoroethane	U		0.0325	0.0891	72	03/11/2017 17:15	WG959350	
Tetrachloroethene	U		0.0246	0.0891	72	03/11/2017 17:15	WG959350	
Toluene	U		0.0386	0.445	72	03/11/2017 17:15	WG959350	
1,2,3-Trichlorobenzene	U		0.0272	0.0891	72	03/11/2017 17:15	WG959350	
1,2,4-Trichlorobenzene	U		0.0345	0.0891	72	03/11/2017 17:15	WG959350	
1,1,1-Trichloroethane	U		0.0255	0.0891	72	03/11/2017 17:15	WG959350	
1,1,2-Trichloroethane	U		0.0246	0.0891	72	03/11/2017 17:15	WG959350	
Trichloroethene	U		0.0249	0.0891	72	03/11/2017 17:15	WG959350	
Trichlorofluoromethane	U		0.0340	0.445	72	03/11/2017 17:15	WG959350	
1,2,3-Trichloropropane	U		0.0661	0.223	72	03/11/2017 17:15	WG959350	
1,2,4-Trimethylbenzene	5.31		0.0188	0.0891	72	03/11/2017 17:15	WG959350	
1,2,3-Trimethylbenzene	4.24		0.0256	0.0891	72	03/11/2017 17:15	WG959350	
Vinyl chloride	U		0.0260	0.0891	72	03/11/2017 17:15	WG959350	
1,3,5-Trimethylbenzene	1.80		0.0238	0.0891	72	03/11/2017 17:15	WG959350	
Xylenes, Total	1.22		0.0621	0.267	72	03/11/2017 17:15	WG959350	
(S) Toluene-d8	100			80.0-120		03/11/2017 17:15	WG959350	
(S) Dibromofluoromethane	94.4			74.0-131		03/11/2017 17:15	WG959350	
(S) 4-Bromofluorobenzene	97.4			64.0-132		03/11/2017 17:15	WG959350	

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	22.7		1.63	4.95	1	03/08/2017 22:55	WG958691
Residual Range Organics (RRO)	U		4.08	12.4	1	03/08/2017 22:55	WG958691
(S) o-Terphenyl	106			18.0-148		03/08/2017 22:55	WG958691



## Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U	J3	0.00433	0.0210	1	03/09/2017 17:28	<a href="#">WG958814</a>
PCB 1221	U		0.00664	0.0210	1	03/09/2017 17:28	<a href="#">WG958814</a>
PCB 1232	U		0.00516	0.0210	1	03/09/2017 17:28	<a href="#">WG958814</a>
PCB 1242	U		0.00393	0.0210	1	03/09/2017 17:28	<a href="#">WG958814</a>
PCB 1248	U		0.00390	0.0210	1	03/09/2017 17:28	<a href="#">WG958814</a>
PCB 1254	U		0.00584	0.0210	1	03/09/2017 17:28	<a href="#">WG958814</a>
PCB 1260	U	J3	0.00611	0.0210	1	03/09/2017 17:28	<a href="#">WG958814</a>
(S) Decachlorobiphenyl	98.5			10.0-148		03/09/2017 17:28	<a href="#">WG958814</a>
(S) Tetrachloro-m-xylene	102			21.0-146		03/09/2017 17:28	<a href="#">WG958814</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Acenaphthene	0.00138	J	0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Acenaphthylene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Benzo(a)anthracene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Benzo(a)pyrene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Benzo(b)fluoranthene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Benzo(g,h,i)perylene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Benzo(k)fluoranthene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Chrysene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Dibenz(a,h)anthracene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Fluoranthene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Fluorene	0.00268	J	0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Indeno(1,2,3-cd)pyrene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Naphthalene	0.426		0.00247	0.0247	1	03/14/2017 15:53	<a href="#">WG959087</a>
Phenanthrene	0.00177	J	0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
Pyrene	U		0.000742	0.00742	1	03/14/2017 15:53	<a href="#">WG959087</a>
1-Methylnaphthalene	0.210		0.00247	0.0247	1	03/14/2017 15:53	<a href="#">WG959087</a>
2-Methylnaphthalene	0.484		0.00247	0.0247	1	03/14/2017 15:53	<a href="#">WG959087</a>
2-Chloronaphthalene	U		0.00247	0.0247	1	03/14/2017 15:53	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	75.3			14.0-149		03/14/2017 15:53	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	55.2			34.0-125		03/14/2017 15:53	<a href="#">WG959087</a>
(S) p-Terphenyl-d14	70.8			23.0-120		03/14/2017 15:53	<a href="#">WG959087</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	89.3		1	03/09/2017 09:17	<a href="#">WG959282</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	1.63		0.0380	0.112	1	03/13/2017 13:01	<a href="#">WG958705</a>
(S) a,a,a-Trifluorotoluene(FID)	93.1			77.0-120		03/13/2017 13:01	<a href="#">WG958705</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.0152	J	0.00560	0.0207	18.5	03/09/2017 13:11	<a href="#">WG959355</a>
Toluene	0.0156	J	0.00899	0.104	18.5	03/09/2017 13:11	<a href="#">WG959355</a>
Ethylbenzene	0.314		0.00615	0.0207	18.5	03/09/2017 13:11	<a href="#">WG959355</a>
Total Xylenes	0.373		0.0144	0.0622	18.5	03/09/2017 13:11	<a href="#">WG959355</a>
(S) Toluene-d8	101			80.0-120		03/09/2017 13:11	<a href="#">WG959355</a>
(S) Dibromofluoromethane	82.3			74.0-131		03/09/2017 13:11	<a href="#">WG959355</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		03/09/2017 13:11	<a href="#">WG959355</a>
(S) 4-Bromofluorobenzene	108			64.0-132		03/09/2017 13:11	<a href="#">WG959355</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	U		1.48	4.48	1	03/08/2017 23:22	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.70	11.2	1	03/08/2017 23:22	<a href="#">WG958691</a>
(S) o-Terphenyl	110			18.0-148		03/08/2017 23:22	<a href="#">WG958691</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Anthracene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Acenaphthene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Acenaphthylene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Benzo(a)anthracene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Benzo(a)pyrene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Benzo(b)fluoranthene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Benzo(g,h,i)perylene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Benzo(k)fluoranthene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Chrysene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Dibenz(a,h)anthracene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Fluoranthene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Fluorene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Indeno(1,2,3-cd)pyrene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Naphthalene	0.00848	J	0.00224	0.0224	1	03/14/2017 16:15	<a href="#">WG959087</a>
Phenanthrene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
Pyrene	U		0.000672	0.00672	1	03/14/2017 16:15	<a href="#">WG959087</a>
1-Methylnaphthalene	0.00496	J	0.00224	0.0224	1	03/14/2017 16:15	<a href="#">WG959087</a>
2-Methylnaphthalene	0.0113	J	0.00224	0.0224	1	03/14/2017 16:15	<a href="#">WG959087</a>
2-Chloronaphthalene	U		0.00224	0.0224	1	03/14/2017 16:15	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	79.5			14.0-149		03/14/2017 16:15	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	90.0			34.0-125		03/14/2017 16:15	<a href="#">WG959087</a>
(S) p-Terphenyl-d14	88.0			23.0-120		03/14/2017 16:15	<a href="#">WG959087</a>



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	85.9		1	03/09/2017 09:17	<a href="#">WG959282</a>

1 Cp

## Mercury by Method 7471A

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Mercury	U		0.00326	0.0233	1	03/08/2017 15:38	<a href="#">WG958303</a>

2 Tc

## Metals (ICP) by Method 6010C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	1.74	J	0.756	2.33	1	03/08/2017 13:25	<a href="#">WG958474</a>
Barium	36.7		0.198	0.582	1	03/08/2017 13:25	<a href="#">WG958474</a>
Cadmium	U		0.0815	0.582	1	03/08/2017 13:25	<a href="#">WG958474</a>
Chromium	20.4		0.163	1.16	1	03/08/2017 13:25	<a href="#">WG958474</a>
Lead	1.69		0.221	0.582	1	03/08/2017 13:25	<a href="#">WG958474</a>
Selenium	U		0.861	2.33	1	03/08/2017 13:25	<a href="#">WG958474</a>
Silver	U		0.326	1.16	1	03/08/2017 13:25	<a href="#">WG958474</a>

3 Ss

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	11.5		2.87	8.49	73	03/08/2017 15:37	<a href="#">WG958705</a>
(S) a,a,a-Trifluorotoluene(FID)	92.9			77.0-120		03/08/2017 15:37	<a href="#">WG958705</a>

4 Cn

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		0.212	1.06	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Acrylonitrile	U		0.0381	0.212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Benzene	U		0.00574	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Bromobenzene	U		0.00603	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Bromodichloromethane	U		0.00540	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Bromoform	U		0.00901	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Bromomethane	U		0.0284	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
n-Butylbenzene	0.00769	J	0.00548	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
sec-Butylbenzene	0.0115	J	0.00427	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
tert-Butylbenzene	U		0.00438	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Carbon tetrachloride	U		0.00697	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Chlorobenzene	U		0.00450	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Chlorodibromomethane	U		0.00792	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Chloroethane	U		0.0201	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Chloroform	U		0.00486	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Chloromethane	U		0.00796	0.0531	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
2-Chlorotoluene	U		0.00639	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
4-Chlorotoluene	U		0.00510	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2-Dibromo-3-Chloropropane	U		0.0223	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2-Dibromoethane	U		0.00728	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Dibromomethane	U		0.00811	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2-Dichlorobenzene	U		0.00648	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,3-Dichlorobenzene	U		0.00507	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,4-Dichlorobenzene	U		0.00479	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Dichlorodifluoromethane	U		0.0151	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,1-Dichloroethane	U		0.00422	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2-Dichloroethane	U		0.00563	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>

5 Sr

6 Qc

7 GI

8 Al

9 Sc



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.00643	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
cis-1,2-Dichloroethene	U		0.00499	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
trans-1,2-Dichloroethene	U		0.00561	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2-Dichloropropane	U		0.00760	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,1-Dichloropropene	U		0.00673	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,3-Dichloropropene	U		0.00440	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
cis-1,3-Dichloropropene	U		0.00556	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
trans-1,3-Dichloropropene	U		0.00567	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
2,2-Dichloropropane	U		0.00592	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Di-isopropyl ether	U		0.00527	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Ethylbenzene	U		0.00631	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Hexachloro-1,3-butadiene	U		0.00726	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Isopropylbenzene	0.0102	J	0.00515	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
p-Isopropyltoluene	U		0.00433	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
2-Butanone (MEK)	U		0.0994	0.212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Methylene Chloride	U		0.0212	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
4-Methyl-2-pentanone (MIBK)	U		0.0399	0.212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Methyl tert-butyl ether	U		0.00450	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Naphthalene	U		0.0212	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
n-Propylbenzene	0.0600		0.00438	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Styrene	U		0.00497	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,1,2-Tetrachloroethane	U		0.00561	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,1,2,2-Tetrachloroethane	U		0.00775	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,1,2-Trichlorotrifluoroethane	U		0.00775	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Tetrachloroethene	U		0.00586	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Toluene	U		0.00922	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2,3-Trichlorobenzene	U		0.00649	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2,4-Trichlorobenzene	U		0.00824	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,1,1-Trichloroethane	U		0.00607	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,1,2-Trichloroethane	U		0.00589	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Trichloroethene	U		0.00592	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Trichlorofluoromethane	U		0.00811	0.106	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2,3-Trichloropropane	U		0.0157	0.0531	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2,4-Trimethylbenzene	0.00515	J	0.00448	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,2,3-Trimethylbenzene	U		0.00610	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Vinyl chloride	U		0.00618	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
1,3,5-Trimethylbenzene	U		0.00564	0.0212	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
Xylenes, Total	U		0.0148	0.0637	18.25	03/11/2017 17:35	<a href="#">WG959350</a>
(S) Toluene-d8	102			80.0-120		03/11/2017 17:35	<a href="#">WG959350</a>
(S) Dibromofluoromethane	92.5			74.0-131		03/11/2017 17:35	<a href="#">WG959350</a>
(S) 4-Bromofluorobenzene	97.1			64.0-132		03/11/2017 17:35	<a href="#">WG959350</a>

## Sample Narrative:

8260C L893941-10 WG959350: Non-target compounds too high to run at a lower dilution.

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.80	J	1.54	4.65	1	03/08/2017 23:48	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.84	11.6	1	03/08/2017 23:48	<a href="#">WG958691</a>
(S) o-Terphenyl	79.7			18.0-148		03/08/2017 23:48	<a href="#">WG958691</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Anthracene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	<sup>1</sup> Cp
Acenaphthene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	<sup>2</sup> Tc
Acenaphthylene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	<sup>3</sup> Ss
Benzo(a)anthracene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Benzo(a)pyrene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Benzo(b)fluoranthene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Benzo(g,h,i)perylene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Benzo(k)fluoranthene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Chrysene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Dibenz(a,h)anthracene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Fluoranthene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	<sup>6</sup> Qc
Fluorene	0.00153	<u>J</u>	0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Indeno(1,2,3-cd)pyrene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Naphthalene	0.00622	<u>J</u>	0.00233	0.0233	1	03/14/2017 16:36	<a href="#">WG959087</a>	<sup>7</sup> Gl
Phenanthere	0.00118	<u>J</u>	0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
Pyrene	U		0.000698	0.00698	1	03/14/2017 16:36	<a href="#">WG959087</a>	
1-Methylnaphthalene	0.00968	<u>J</u>	0.00233	0.0233	1	03/14/2017 16:36	<a href="#">WG959087</a>	
2-Methylnaphthalene	0.00634	<u>J</u>	0.00233	0.0233	1	03/14/2017 16:36	<a href="#">WG959087</a>	
2-Chloronaphthalene	U		0.00233	0.0233	1	03/14/2017 16:36	<a href="#">WG959087</a>	
(S) Nitrobenzene-d5	78.8			14.0-149		03/14/2017 16:36	<a href="#">WG959087</a>	
(S) 2-Fluorobiphenyl	77.1			34.0-125		03/14/2017 16:36	<a href="#">WG959087</a>	
(S) p-Terphenyl-d14	70.2			23.0-120		03/14/2017 16:36	<a href="#">WG959087</a>	<sup>8</sup> Al



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	85.4		1	03/09/2017 09:17	<a href="#">WG959282</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	0.420		0.0397	0.117	1	03/08/2017 15:59	<a href="#">WG958705</a>
(S) a,a,a-Trifluorotoluene(FID)	88.9			77.0-120		03/08/2017 15:59	<a href="#">WG958705</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.000644	J	0.000316	0.00117	1	03/13/2017 17:04	<a href="#">WG958676</a>
Toluene	U		0.000508	0.00586	1	03/13/2017 17:04	<a href="#">WG958676</a>
Ethylbenzene	U		0.000348	0.00117	1	03/13/2017 17:04	<a href="#">WG958676</a>
Total Xylenes	U		0.000818	0.00351	1	03/13/2017 17:04	<a href="#">WG958676</a>
(S) Toluene-d8	104			80.0-120		03/13/2017 17:04	<a href="#">WG958676</a>
(S) Dibromofluoromethane	104			74.0-131		03/13/2017 17:04	<a href="#">WG958676</a>
(S) a,a,a-Trifluorotoluene	104			80.0-120		03/13/2017 17:04	<a href="#">WG958676</a>
(S) 4-Bromofluorobenzene	96.8			64.0-132		03/13/2017 17:04	<a href="#">WG958676</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Diesel Range Organics (DRO)	U		1.55	4.69	1	03/08/2017 23:35	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.87	11.7	1	03/08/2017 23:35	<a href="#">WG958691</a>
(S) o-Terphenyl	102			18.0-148		03/08/2017 23:35	<a href="#">WG958691</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Anthracene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Acenaphthene	0.00126	J	0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Acenaphthylene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Benzo(a)anthracene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Benzo(a)pyrene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Benzo(b)fluoranthene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Benzo(g,h,i)perylene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Benzo(k)fluoranthene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Chrysene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Dibenz(a,h)anthracene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Fluoranthene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Fluorene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Indeno(1,2,3-cd)pyrene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Naphthalene	0.00656	J	0.00234	0.0234	1	03/14/2017 16:57	<a href="#">WG959087</a>
Phenanthrene	U		0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
Pyrene	0.00233	J	0.000703	0.00703	1	03/14/2017 16:57	<a href="#">WG959087</a>
1-Methylnaphthalene	0.00317	J	0.00234	0.0234	1	03/14/2017 16:57	<a href="#">WG959087</a>
2-Methylnaphthalene	0.00349	J	0.00234	0.0234	1	03/14/2017 16:57	<a href="#">WG959087</a>
2-Chloronaphthalene	U		0.00234	0.0234	1	03/14/2017 16:57	<a href="#">WG959087</a>
(S) Nitrobenzene-d5	77.3			14.0-149		03/14/2017 16:57	<a href="#">WG959087</a>
(S) 2-Fluorobiphenyl	82.1			34.0-125		03/14/2017 16:57	<a href="#">WG959087</a>
(S) p-Terphenyl-d14	74.5			23.0-120		03/14/2017 16:57	<a href="#">WG959087</a>



## Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury,Dissolved	U		0.0490	0.200	1	03/08/2017 19:00	<a href="#">WG958806</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Metals (ICP) by Method 6010C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Arsenic,Dissolved	U		6.50	10.0	1	03/07/2017 20:25	<a href="#">WG958726</a>
Barium,Dissolved	42.1		1.70	5.00	1	03/07/2017 20:25	<a href="#">WG958726</a>
Cadmium,Dissolved	U		0.700	2.00	1	03/07/2017 20:25	<a href="#">WG958726</a>
Chromium,Dissolved	U		1.40	10.0	1	03/07/2017 20:25	<a href="#">WG958726</a>
Lead,Dissolved	U		1.90	5.00	1	03/07/2017 20:25	<a href="#">WG958726</a>
Selenium,Dissolved	U		7.40	10.0	1	03/07/2017 20:25	<a href="#">WG958726</a>
Silver,Dissolved	U		2.80	5.00	1	03/07/2017 20:25	<a href="#">WG958726</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	6120		31.6	100	1	03/09/2017 17:59	<a href="#">WG957976</a>
(S) a,a,a-Trifluorotoluene(FID)	126	J1		77.0-122		03/09/2017 17:59	<a href="#">WG957976</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		10.0	50.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Acrolein	U	J4	8.87	50.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Acrylonitrile	U		1.87	10.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Benzene	5.30		0.331	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromobenzene	U		0.352	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromodichloromethane	U		0.380	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromoform	U		0.469	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromomethane	U		0.866	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
n-Butylbenzene	14.4		0.361	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
sec-Butylbenzene	17.7		0.365	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
tert-Butylbenzene	U		0.399	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Carbon tetrachloride	U		0.379	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chlorobenzene	U		0.348	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chlorodibromomethane	U		0.327	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chloroethane	U		0.453	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chloroform	U		0.324	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chloromethane	U		0.276	2.50	1	03/08/2017 20:09	<a href="#">WG959106</a>
2-Chlorotoluene	U		0.375	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
4-Chlorotoluene	U		0.351	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Dibromomethane	U		0.346	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.352	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,3-Dichloropropane	U		0.366	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
2,2-Dichloropropane	U		0.321	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Di-isopropyl ether	U		0.320	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Ethylbenzene	44.0		0.384	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Isopropylbenzene	51.6		0.326	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
p-Isopropyltoluene	4.38		0.350	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Methylene Chloride	U		1.00	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Naphthalene	21.2		1.00	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
n-Propylbenzene	190		0.349	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Styrene	U		0.307	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2-Tetrachloroethane	U		0.385	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Tetrachloroethene	U		0.372	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Toluene	3.13		0.412	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Trichloroethene	U		0.398	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,3-Trichloropropane	U		0.807	2.50	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,4-Trimethylbenzene	468		3.73	10.0	10	03/10/2017 05:58	<a href="#">WG959106</a>
1,2,3-Trimethylbenzene	134		0.321	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,3,5-Trimethylbenzene	181		0.387	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Vinyl chloride	U		0.259	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Xylenes, Total	120		1.06	3.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
(S) Toluene-d8	101			80.0-120		03/10/2017 05:58	<a href="#">WG959106</a>
(S) Toluene-d8	107			80.0-120		03/08/2017 20:09	<a href="#">WG959106</a>
(S) Dibromofluoromethane	98.0			76.0-123		03/10/2017 05:58	<a href="#">WG959106</a>
(S) Dibromofluoromethane	104			76.0-123		03/08/2017 20:09	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	80.4			80.0-120		03/08/2017 20:09	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	104			80.0-120		03/10/2017 05:58	<a href="#">WG959106</a>

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	688		165	500	2	03/08/2017 20:12	<a href="#">WG958334</a>
Residual Range Organics (RRO)	U		330	1000	2	03/08/2017 20:12	<a href="#">WG958334</a>
(S) o-Terphenyl	102			52.0-156		03/08/2017 20:12	<a href="#">WG958334</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0140	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>
Acenaphthene	0.138		0.0100	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>
Acenaphthylene	0.0246	J	0.0120	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>
Benz(a)anthracene	U		0.00410	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Benzo(a)pyrene	U		0.0116	0.0500	1	03/08/2017 12:37	WG958443	<sup>1</sup> Cp
Benzo(b)fluoranthene	U		0.00212	0.0500	1	03/08/2017 12:37	WG958443	<sup>2</sup> Tc
Benzo(g,h,i)perylene	U		0.00227	0.0500	1	03/08/2017 12:37	WG958443	<sup>3</sup> Ss
Benzo(k)fluoranthene	U		0.0136	0.0500	1	03/08/2017 12:37	WG958443	
Chrysene	U		0.0108	0.0500	1	03/08/2017 12:37	WG958443	
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	03/08/2017 12:37	WG958443	
Fluoranthene	U		0.0157	0.0500	1	03/08/2017 12:37	WG958443	
Fluorene	0.326		0.00850	0.0500	1	03/08/2017 12:37	WG958443	
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	03/08/2017 12:37	WG958443	
Naphthalene	16.5		0.0198	0.250	1	03/08/2017 12:37	WG958443	
Phenanthrene	0.162		0.00820	0.0500	1	03/08/2017 12:37	WG958443	<sup>4</sup> Cn
Pyrene	U		0.0117	0.0500	1	03/08/2017 12:37	WG958443	<sup>5</sup> Sr
1-Methylnaphthalene	37.7		0.00821	0.250	1	03/08/2017 12:37	WG958443	<sup>6</sup> Qc
2-Methylnaphthalene	57.1		0.00902	0.250	1	03/08/2017 12:37	WG958443	<sup>7</sup> Gl
2-Chloronaphthalene	U		0.00647	0.250	1	03/08/2017 12:37	WG958443	<sup>8</sup> Al
(S) Nitrobenzene-d5	145			31.0-160		03/08/2017 12:37	WG958443	
(S) 2-Fluorobiphenyl	84.0			48.0-148		03/08/2017 12:37	WG958443	
(S) p-Terphenyl-d14	69.1			37.0-146		03/08/2017 12:37	WG958443	<sup>9</sup> Sc



## Total Solids by Method 2540 G-2011

Analyte	Result %	<u>Qualifier</u>	Dilution	Analysis date / time	<u>Batch</u>
Total Solids	85.1		1	03/09/2017 09:17	<a href="#">WG959282</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Mercury by Method 7471A

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Mercury	U		0.00329	0.0235	1	03/08/2017 15:40	<a href="#">WG958303</a>

## Metals (ICP) by Method 6010C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	1.57	J	0.764	2.35	1	03/08/2017 13:28	<a href="#">WG958474</a>
Barium	43.1		0.200	0.588	1	03/08/2017 13:28	<a href="#">WG958474</a>
Cadmium	0.102	J	0.0823	0.588	1	03/08/2017 13:28	<a href="#">WG958474</a>
Chromium	24.4		0.165	1.18	1	03/08/2017 13:28	<a href="#">WG958474</a>
Lead	1.84		0.223	0.588	1	03/08/2017 13:28	<a href="#">WG958474</a>
Selenium	U		0.870	2.35	1	03/08/2017 13:28	<a href="#">WG958474</a>
Silver	U		0.329	1.18	1	03/08/2017 13:28	<a href="#">WG958474</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	0.724		0.0398	0.118	1	03/08/2017 16:22	<a href="#">WG958705</a>
(S) a,a,a-Trifluorotoluene(FID)	86.2			77.0-120		03/08/2017 16:22	<a href="#">WG958705</a>

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		0.0118	0.0588	1	03/09/2017 16:49	<a href="#">WG959350</a>
Acrylonitrile	U		0.00210	0.0118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Benzene	0.00237		0.000317	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Bromobenzene	U		0.000334	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Bromodichloromethane	U		0.000299	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Bromoform	U		0.000498	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Bromomethane	U		0.00158	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
n-Butylbenzene	0.00471		0.000303	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
sec-Butylbenzene	0.00578		0.000236	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
tert-Butylbenzene	U		0.000242	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Carbon tetrachloride	U		0.000386	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Chlorobenzene	U		0.000249	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Chlorodibromomethane	U		0.000438	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Chloroethane	U		0.00111	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
Chloroform	U		0.000269	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
Chloromethane	U		0.000441	0.00294	1	03/09/2017 16:49	<a href="#">WG959350</a>
2-Chlorotoluene	U		0.000354	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
4-Chlorotoluene	U		0.000282	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2-Dibromo-3-Chloropropane	U		0.00123	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2-Dibromoethane	U		0.000403	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Dibromomethane	U		0.000449	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2-Dichlorobenzene	U		0.000358	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,3-Dichlorobenzene	U		0.000281	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,4-Dichlorobenzene	U		0.000266	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Dichlorodifluoromethane	U		0.000838	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,1-Dichloroethane	U		0.000234	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2-Dichloroethane	U		0.000311	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloroethene	U		0.000356	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
cis-1,2-Dichloroethene	U		0.000276	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
trans-1,2-Dichloroethene	U		0.000310	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2-Dichloropropane	U		0.000421	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,1-Dichloropropene	U		0.000373	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,3-Dichloropropene	U		0.000243	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
cis-1,3-Dichloropropene	U		0.000308	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
trans-1,3-Dichloropropene	U		0.000314	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
2,2-Dichloropropane	U		0.000328	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Di-isopropyl ether	U		0.000291	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Ethylbenzene	0.00130		0.000349	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Hexachloro-1,3-butadiene	U		0.000402	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Isopropylbenzene	0.00673		0.000286	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
p-Isopropyltoluene	0.000751	J	0.000240	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
2-Butanone (MEK)	U		0.00550	0.018	1	03/09/2017 16:49	<a href="#">WG959350</a>
Methylene Chloride	U		0.00118	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
4-Methyl-2-pentanone (MIBK)	U		0.00221	0.018	1	03/09/2017 16:49	<a href="#">WG959350</a>
Methyl tert-butyl ether	U		0.000249	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Naphthalene	0.00125	J	0.00118	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
n-Propylbenzene	0.0314		0.000242	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Styrene	U		0.000275	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,1,1,2-Tetrachloroethane	U		0.000310	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,1,2,2-Tetrachloroethane	U		0.000429	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,1,2-Trichlorotrifluoroethane	U		0.000429	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Tetrachloroethene	U		0.000324	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Toluene	0.00145	J	0.000510	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2,3-Trichlorobenzene	U		0.000360	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2,4-Trichlorobenzene	U		0.000456	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,1,1-Trichloroethane	U		0.000336	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,1,2-Trichloroethane	U		0.000326	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Trichloroethene	U		0.000328	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Trichlorofluoromethane	U		0.000449	0.00588	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2,3-Trichloropropane	U		0.000871	0.00294	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2,4-Trimethylbenzene	0.000567	J	0.000248	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,2,3-Trimethylbenzene	0.00413		0.000337	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Vinyl chloride	U		0.000342	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
1,3,5-Trimethylbenzene	0.000397	J	0.000313	0.00118	1	03/09/2017 16:49	<a href="#">WG959350</a>
Xylenes, Total	0.00283	J	0.000820	0.00353	1	03/09/2017 16:49	<a href="#">WG959350</a>
(S) Toluene-d8	91.2			80.0-120		03/09/2017 16:49	<a href="#">WG959350</a>
(S) Dibromofluoromethane	108			74.0-131		03/09/2017 16:49	<a href="#">WG959350</a>
(S) 4-Bromofluorobenzene	78.1			64.0-132		03/09/2017 16:49	<a href="#">WG959350</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	3.13	J	1.55	4.70	1	03/09/2017 00:39	<a href="#">WG958691</a>
Residual Range Organics (RRO)	U		3.88	11.8	1	03/09/2017 00:39	<a href="#">WG958691</a>
(S) o-Terphenyl	87.4			18.0-148		03/09/2017 00:39	<a href="#">WG958691</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Anthracene	0.00353	J	0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>1</sup> Cp
Acenaphthene	0.00267	J	0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>2</sup> Tc
Acenaphthylene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>3</sup> Ss
Benzo(a)anthracene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>4</sup> Cn
Benzo(a)pyrene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>5</sup> Sr
Benzo(b)fluoranthene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>6</sup> Qc
Benzo(g,h,i)perylene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>7</sup> Gl
Benzo(k)fluoranthene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>8</sup> Al
Chrysene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	<sup>9</sup> Sc
Dibenz(a,h)anthracene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	
Fluoranthene	0.000956	J	0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	
Fluorene	0.00884		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	
Indeno(1,2,3-cd)pyrene	U		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	
Naphthalene	0.0405		0.00235	0.0235	1	03/14/2017 17:19	<a href="#">WG959087</a>	
Phenanthere	0.00817		0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	
Pyrene	0.00301	J	0.000705	0.00705	1	03/14/2017 17:19	<a href="#">WG959087</a>	
1-Methylnaphthalene	0.207		0.00235	0.0235	1	03/14/2017 17:19	<a href="#">WG959087</a>	
2-Methylnaphthalene	0.295		0.00235	0.0235	1	03/14/2017 17:19	<a href="#">WG959087</a>	
2-Chloronaphthalene	U		0.00235	0.0235	1	03/14/2017 17:19	<a href="#">WG959087</a>	
(S) Nitrobenzene-d5	84.8		14.0-149			03/14/2017 17:19	<a href="#">WG959087</a>	
(S) 2-Fluorobiphenyl	70.2		34.0-125			03/14/2017 17:19	<a href="#">WG959087</a>	
(S) p-Terphenyl-d14	80.1		23.0-120			03/14/2017 17:19	<a href="#">WG959087</a>	



## Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury,Dissolved	U		0.0490	0.200	1	03/08/2017 19:03	<a href="#">WG958806</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Arsenic,Dissolved	U		6.50	10.0	1	03/07/2017 20:28	<a href="#">WG958726</a>
Barium,Dissolved	41.7		1.70	5.00	1	03/07/2017 20:28	<a href="#">WG958726</a>
Cadmium,Dissolved	U		0.700	2.00	1	03/07/2017 20:28	<a href="#">WG958726</a>
Chromium,Dissolved	U		1.40	10.0	1	03/07/2017 20:28	<a href="#">WG958726</a>
Lead,Dissolved	U		1.90	5.00	1	03/07/2017 20:28	<a href="#">WG958726</a>
Selenium,Dissolved	U		7.40	10.0	1	03/07/2017 20:28	<a href="#">WG958726</a>
Silver,Dissolved	U		2.80	5.00	1	03/07/2017 20:28	<a href="#">WG958726</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	5520		31.6	100	1	03/09/2017 18:21	<a href="#">WG957976</a>
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-122		03/09/2017 18:21	<a href="#">WG957976</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		10.0	50.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Acrolein	U	J4	8.87	50.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Acrylonitrile	U		1.87	10.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Benzene	5.40		0.331	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromobenzene	U		0.352	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromodichloromethane	U		0.380	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromoform	U		0.469	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromomethane	U		0.866	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
n-Butylbenzene	14.9		0.361	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
sec-Butylbenzene	17.3		0.365	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
tert-Butylbenzene	U		0.399	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Carbon tetrachloride	U		0.379	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chlorobenzene	U		0.348	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chlorodibromomethane	U		0.327	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chloroethane	U		0.453	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chloroform	U		0.324	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chloromethane	U		0.276	2.50	1	03/08/2017 20:32	<a href="#">WG959106</a>
2-Chlorotoluene	U		0.375	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
4-Chlorotoluene	U		0.351	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Dibromomethane	U		0.346	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.352	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,3-Dichloropropane	U		0.366	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
2,2-Dichloropropane	U		0.321	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Di-isopropyl ether	U		0.320	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Ethylbenzene	43.4		0.384	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Isopropylbenzene	51.2		0.326	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
p-Isopropyltoluene	4.35		0.350	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Methylene Chloride	U		1.00	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Naphthalene	21.8		1.00	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
n-Propylbenzene	187		0.349	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Styrene	U		0.307	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2-Tetrachloroethane	U		0.385	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Tetrachloroethene	U		0.372	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Toluene	3.18		0.412	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Trichloroethene	U		0.398	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,3-Trichloropropane	U		0.807	2.50	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,4-Trimethylbenzene	509		3.73	10.0	10	03/10/2017 06:14	<a href="#">WG959106</a>
1,2,3-Trimethylbenzene	139		0.321	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,3,5-Trimethylbenzene	181		0.387	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Vinyl chloride	U		0.259	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Xylenes, Total	118		1.06	3.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
(S) Toluene-d8	102			80.0-120		03/10/2017 06:14	<a href="#">WG959106</a>
(S) Toluene-d8	107			80.0-120		03/08/2017 20:32	<a href="#">WG959106</a>
(S) Dibromofluoromethane	96.6			76.0-123		03/10/2017 06:14	<a href="#">WG959106</a>
(S) Dibromofluoromethane	103			76.0-123		03/08/2017 20:32	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	78.5	J2		80.0-120		03/08/2017 20:32	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	105			80.0-120		03/10/2017 06:14	<a href="#">WG959106</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	771		165	500	2	03/08/2017 20:28	<a href="#">WG958334</a>
Residual Range Organics (RRO)	U		330	1000	2	03/08/2017 20:28	<a href="#">WG958334</a>
(S) o-Terphenyl	93.6			52.0-156		03/08/2017 20:28	<a href="#">WG958334</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0140	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>
Acenaphthene	0.144		0.0100	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>
Acenaphthylene	0.0256	J	0.0120	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>
Benz(a)anthracene	U		0.00410	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Benzo(a)pyrene	U		0.0116	0.0500	1	03/08/2017 13:00	WG958443	<sup>1</sup> Cp
Benzo(b)fluoranthene	U		0.00212	0.0500	1	03/08/2017 13:00	WG958443	<sup>2</sup> Tc
Benzo(g,h,i)perylene	U		0.00227	0.0500	1	03/08/2017 13:00	WG958443	<sup>3</sup> Ss
Benzo(k)fluoranthene	U		0.0136	0.0500	1	03/08/2017 13:00	WG958443	
Chrysene	U		0.0108	0.0500	1	03/08/2017 13:00	WG958443	
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	03/08/2017 13:00	WG958443	
Fluoranthene	U		0.0157	0.0500	1	03/08/2017 13:00	WG958443	
Fluorene	0.339		0.00850	0.0500	1	03/08/2017 13:00	WG958443	
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	03/08/2017 13:00	WG958443	
Naphthalene	18.3		0.0198	0.250	1	03/08/2017 13:00	WG958443	
Phenanthrene	0.160		0.00820	0.0500	1	03/08/2017 13:00	WG958443	<sup>6</sup> Qc
Pyrene	U		0.0117	0.0500	1	03/08/2017 13:00	WG958443	
1-Methylnaphthalene	40.2		0.00821	0.250	1	03/08/2017 13:00	WG958443	
2-Methylnaphthalene	60.8		0.00902	0.250	1	03/08/2017 13:00	WG958443	<sup>7</sup> GI
2-Chloronaphthalene	U		0.00647	0.250	1	03/08/2017 13:00	WG958443	
(S) Nitrobenzene-d5	158			31.0-160		03/08/2017 13:00	WG958443	<sup>8</sup> AI
(S) 2-Fluorobiphenyl	98.3			48.0-148		03/08/2017 13:00	WG958443	
(S) p-Terphenyl-d14	68.6			37.0-146		03/08/2017 13:00	WG958443	<sup>9</sup> SC



## Method Blank (MB)

(MB) R3202594-1 03/10/17 09:48

Analyst	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.000400			

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## L893937-04 Original Sample (OS) • Duplicate (DUP)

(OS) L893937-04 03/10/17 09:48 • (DUP) R3202594-3 03/10/17 09:48

Analyst	Original Result %	DUP Result %	Dilution %	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Solids	87.1	86.3	1	0.825		5

## Laboratory Control Sample (LCS)

(LCS) R3202594-2 03/10/17 09:48

Analyst	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	99.9	85.0-115	

<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3202274-1 03/09/17 09:17

Analyte	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.000700			

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## L893945-01 Original Sample (OS) • Duplicate (DUP)

(OS) L893945-01 03/09/17 09:17 • (DUP) R3202274-3 03/09/17 09:17

Analyte	Original Result %	DUP Result %	Dilution %	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Solids	84.7	81.3	1	4.10		5

## Laboratory Control Sample (LCS)

(LCS) R3202274-2 03/09/17 09:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	99.9	85.0-115	

WG958806

Mercury by Method 7470A

## QUALITY CONTROL SUMMARY

L893941-03,12,14

ONE LAB. NATIONWIDE.



## Method Blank (MB)

(MB) R3201928-1 03/08/17 17:52

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Mercury,Dissolved	U		0.0490	0.200

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201928-2 03/08/17 17:54 • (LCSD) R3201928-3 03/08/17 17:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Mercury,Dissolved	3.00	3.20	3.47	107	116	80-120			8	20

## L894310-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L894310-03 03/08/17 17:59 • (MS) R3201928-4 03/08/17 18:01 • (MSD) R3201928-5 03/08/17 18:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury,Dissolved	3.00	U	4.04	3.97	135	132	1	75-125	J5	J5	2	20

[L893941-01,04,06,08,10,13](#)

## Method Blank (MB)

(MB) R3201870-1 03/08/17 13:47

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0028	0.0200

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201870-2 03/08/17 13:50 • (LCSD) R3201870-3 03/08/17 13:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.300	0.252	0.244	84	81	80-120			4	20

## L893889-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893889-01 03/08/17 13:55 • (MS) R3201870-4 03/08/17 14:03 • (MSD) R3201870-5 03/08/17 14:12

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.300	ND	0.258	0.266	86	89	1	75-125			3	20

[L893941-01,04,06,08,10,13](#)

## Method Blank (MB)

(MB) R3201846-1 03/08/17 12:32

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Lead	U		0.19	0.500
Selenium	U		0.74	2.00
Silver	U		0.28	1.00

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201846-2 03/08/17 12:34 • (LCSD) R3201846-3 03/08/17 12:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Arsenic	100	101	102	101	102	80-120			1	20
Barium	100	101	103	101	103	80-120			1	20
Cadmium	100	99.2	101	99	101	80-120			1	20
Chromium	100	100	101	100	101	80-120			0	20
Lead	100	100	102	100	102	80-120			2	20
Selenium	100	100	102	100	102	80-120			1	20
Silver	20.0	18.8	18.8	94	94	80-120			0	20

## L893353-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893353-08 03/08/17 12:39 • (MS) R3201846-6 03/08/17 12:47 • (MSD) R3201846-7 03/08/17 12:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Arsenic	117	1.47	117	120	98	101	1	75-125			3	20
Barium	117	36.9	147	152	94	98	1	75-125			3	20
Cadmium	117	0.120	115	118	98	101	1	75-125			3	20
Chromium	117	17.4	133	136	99	102	1	75-125			2	20
Lead	117	1.58	119	121	100	102	1	75-125			2	20
Selenium	117	U	116	119	99	102	1	75-125			3	20
Silver	23.4	U	22.4	22.5	96	96	1	75-125			0	20

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3201617-1 03/07/17 20:04

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Arsenic,Dissolved	U		6.50	10.0
Barium,Dissolved	U		1.70	5.00
Cadmium,Dissolved	U		0.700	2.00
Chromium,Dissolved	U		1.40	10.0
Lead,Dissolved	U		1.90	5.00
Selenium,Dissolved	U		7.40	10.0
Silver,Dissolved	U		2.80	5.00

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201617-2 03/07/17 20:07 • (LCSD) R3201617-3 03/07/17 20:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	1000	1010	1010	101	101	80-120			1	20
Barium,Dissolved	1000	1010	1010	101	101	80-120			0	20
Cadmium,Dissolved	1000	1010	1010	101	101	80-120			0	20
Chromium,Dissolved	1000	1040	1030	104	103	80-120			0	20
Lead,Dissolved	1000	1030	1020	103	102	80-120			1	20
Selenium,Dissolved	1000	1020	1010	102	101	80-120			1	20
Silver,Dissolved	200	194	193	97	96	80-120			0	20

## L893941-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893941-03 03/07/17 20:12 • (MS) R3201617-5 03/07/17 20:17 • (MSD) R3201617-6 03/07/17 20:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	1000	U	1030	1020	103	102	1	75-125		1	20
Barium,Dissolved	1000	39.9	1030	1020	99	98	1	75-125		1	20
Cadmium,Dissolved	1000	U	1010	1000	101	100	1	75-125		1	20
Chromium,Dissolved	1000	U	1020	1010	102	101	1	75-125		1	20
Lead,Dissolved	1000	U	1040	1020	104	102	1	75-125		1	20
Selenium,Dissolved	1000	U	1020	1010	102	101	1	75-125		1	20
Silver,Dissolved	200	U	193	191	96	95	1	75-125		1	20

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3202669-3 03/09/17 01:13

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) <i>a,a,a-Trifluorotoluene(FID)</i>	95.0			77.0-122

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202669-1 03/09/17 00:07 • (LCSD) R3202669-2 03/09/17 00:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5670	5560	103	101	72.0-134			1.97	20
(S) <i>a,a,a-Trifluorotoluene(FID)</i>				105	105	77.0-122				

## L893938-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893938-01 03/09/17 08:31 • (MS) R3202669-4 03/09/17 08:53 • (MSD) R3202669-5 03/09/17 09:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	2680	7670	9870	90.7	131	1	23.0-159		J3	25.1	20
(S) <i>a,a,a-Trifluorotoluene(FID)</i>					111	109		77.0-122				



L893941-01,02,04,05,06,07,08

## Method Blank (MB)

(MB) R3201742-1 03/07/17 23:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C6 - C12	U		0.0339	0.100
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201742-4 03/08/17 08:31 • (LCSD) R3201742-5 03/08/17 08:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHG C6 - C12	5.50	5.42	5.42	98.5	98.6	70.0-133			0.0700	20
(S) a,a,a-Trifluorotoluene(FID)				110	110	77.0-120				

## L892831-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L892831-03 03/08/17 02:13 • (MS) R3201742-2 03/08/17 00:22 • (MSD) R3201742-3 03/08/17 00:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHG C6 - C12	6.75	156	177	178	12.6	12.9	25	10.0-146			0.350	30
(S) a,a,a-Trifluorotoluene(FID)				99.9	101			77.0-120				

[L893941-09,10,11,13](#)

## Method Blank (MB)

(MB) R3202671-3 03/08/17 13:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C6 - C12	U		0.0339	0.100
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.6		77.0-120	

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202671-1 03/08/17 12:17 • (LCSD) R3202671-2 03/08/17 12:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHG C6 - C12	5.50	5.56	5.64	101	103	70.0-133			1.50	20
(S) <i>a,a,a</i> -Trifluorotoluene(FID)			109	110	77.0-120					



## Method Blank (MB)

(MB) R3201924-3 03/08/17 09:53

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000270	0.00100
Ethylbenzene	U		0.000297	0.00100
Toluene	U		0.000434	0.00500
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	102		80.0-120	
(S) Dibromofluoromethane	102		74.0-131	
(S) a,a,a-Trifluorotoluene	98.6		80.0-120	
(S) 4-Bromofluorobenzene	99.9		64.0-132	

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201924-1 03/08/17 08:53 • (LCSD) R3201924-2 03/08/17 09:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	0.0250	0.0243	0.0247	97.3	98.8	71.0-124			1.49	20
Ethylbenzene	0.0250	0.0246	0.0243	98.4	97.0	77.0-120			1.37	20
Toluene	0.0250	0.0248	0.0247	99.1	98.7	77.0-120			0.380	20
Xylenes, Total	0.0750	0.0727	0.0720	96.9	96.0	77.0-120			0.970	20
(S) Toluene-d8			100	102	80.0-120					
(S) Dibromofluoromethane			103	106	74.0-131					
(S) a,a,a-Trifluorotoluene			98.5	100	80.0-120					
(S) 4-Bromofluorobenzene			100	98.2	64.0-132					

## L893921-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893921-01 03/08/17 13:04 • (MS) R3201924-4 03/08/17 14:25 • (MSD) R3201924-5 03/08/17 14:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Benzene	0.0250	0.00154	0.0178	0.0231	64.9	86.4	1	13.0-146		26.3	27
Ethylbenzene	0.0250	ND	0.0165	0.0219	62.8	84.5	1	10.0-147		28.4	31
Toluene	0.0250	ND	0.0190	0.0249	69.3	92.5	1	10.0-144		26.5	28
Xylenes, Total	0.0750	ND	0.0464	0.0636	59.9	82.8	1	10.0-150	J3	31.3	31
(S) Toluene-d8			101	103	80.0-120						
(S) Dibromofluoromethane			111	113	74.0-131						
(S) a,a,a-Trifluorotoluene			97.2	98.2	80.0-120						
(S) 4-Bromofluorobenzene			97.8	97.3	64.0-132						

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3202361-3 03/09/17 12:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	1 Cp
Acetone	U		0.0100	0.0500	
Acrylonitrile	U		0.00179	0.0100	
Benzene	U		0.000270	0.00100	
Bromobenzene	U		0.000284	0.00100	
Bromodichloromethane	U		0.000254	0.00100	
Bromoform	U		0.000424	0.00100	
Bromomethane	U		0.00134	0.00500	
n-Butylbenzene	U		0.000258	0.00100	
sec-Butylbenzene	U		0.000201	0.00100	
tert-Butylbenzene	U		0.000206	0.00100	
Carbon tetrachloride	U		0.000328	0.00100	
Chlorobenzene	U		0.000212	0.00100	
Chlorodibromomethane	U		0.000373	0.00100	
Chloroethane	U		0.000946	0.00500	
Chloroform	U		0.000229	0.00500	
Chloromethane	U		0.000375	0.00250	
2-Chlorotoluene	U		0.000301	0.00100	
4-Chlorotoluene	U		0.000240	0.00100	
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500	
1,2-Dibromoethane	U		0.000343	0.00100	
Dibromomethane	U		0.000382	0.00100	
1,2-Dichlorobenzene	U		0.000305	0.00100	
1,3-Dichlorobenzene	U		0.000239	0.00100	
1,4-Dichlorobenzene	U		0.000226	0.00100	
Dichlorodifluoromethane	U		0.000713	0.00500	
1,1-Dichloroethane	U		0.000199	0.00100	
1,2-Dichloroethane	U		0.000265	0.00100	
1,1-Dichloroethene	U		0.000303	0.00100	
cis-1,2-Dichloroethene	U		0.000235	0.00100	
trans-1,2-Dichloroethene	U		0.000264	0.00100	
1,2-Dichloropropane	U		0.000358	0.00100	
1,1-Dichloropropene	U		0.000317	0.00100	
1,3-Dichloropropene	U		0.000207	0.00100	
cis-1,3-Dichloropropene	U		0.000262	0.00100	
trans-1,3-Dichloropropene	U		0.000267	0.00100	
2,2-Dichloropropane	U		0.000279	0.00100	
Di-isopropyl ether	U		0.000248	0.00100	
Ethylbenzene	U		0.000297	0.00100	
Hexachloro-1,3-butadiene	U		0.000342	0.00100	
Isopropylbenzene	U		0.000243	0.00100	



## Method Blank (MB)

(MB) R3202361-3 03/09/17 12:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	1 Cp
p-Isopropyltoluene	U		0.000204	0.00100	
2-Butanone (MEK)	U		0.00468	0.0100	
Methylene Chloride	U		0.00100	0.00500	
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100	
Methyl tert-butyl ether	U		0.000212	0.00100	
Naphthalene	U		0.00100	0.00500	
n-Propylbenzene	U		0.000206	0.00100	
Styrene	U		0.000234	0.00100	
1,1,2-Tetrachloroethane	U		0.000264	0.00100	
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100	
Tetrachloroethene	U		0.000276	0.00100	
Toluene	U		0.000434	0.00500	
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100	
1,2,3-Trichlorobenzene	U		0.000306	0.00100	
1,2,4-Trichlorobenzene	U		0.000388	0.00100	
1,1,1-Trichloroethane	U		0.000286	0.00100	
1,1,2-Trichloroethane	U		0.000277	0.00100	
Trichloroethene	U		0.000279	0.00100	
Trichlorofluoromethane	U		0.000382	0.00500	
1,2,3-Trichloropropane	U		0.000741	0.00250	
1,2,3-Trimethylbenzene	U		0.000287	0.00100	
1,2,4-Trimethylbenzene	U		0.000211	0.00100	
1,3,5-Trimethylbenzene	U		0.000266	0.00100	
Vinyl chloride	U		0.000291	0.00100	
Xylenes, Total	U		0.000698	0.00300	
(S) Toluene-d8	95.8			80.0-120	
(S) Dibromofluoromethane	99.7			74.0-131	
(S) 4-Bromofluorobenzene	96.3			64.0-132	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202361-1 03/09/17 11:07 • (LCSD) R3202361-2 03/09/17 11:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.124	0.137	99.4	110	11.0-160			9.86	23
Acrylonitrile	0.125	0.121	0.125	97.1	100	61.0-143			3.21	20
Benzene	0.0250	0.0242	0.0245	96.7	98.0	71.0-124			1.28	20
Bromobenzene	0.0250	0.0237	0.0238	94.6	95.3	78.0-120			0.750	20
Bromodichloromethane	0.0250	0.0254	0.0253	102	101	75.0-120			0.400	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202361-1 03/09/17 11:07 • (LCSD) R3202361-2 03/09/17 11:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.0250	0.0249	0.0260	99.7	104	65.0-133			4.34	20
Bromomethane	0.0250	0.0278	0.0281	111	112	26.0-160			1.11	20
n-Butylbenzene	0.0250	0.0248	0.0239	99.2	95.7	73.0-126			3.56	20
sec-Butylbenzene	0.0250	0.0247	0.0245	98.8	98.0	75.0-121			0.840	20
tert-Butylbenzene	0.0250	0.0257	0.0254	103	101	74.0-122			1.11	20
Carbon tetrachloride	0.0250	0.0238	0.0244	95.2	97.6	66.0-123			2.52	20
Chlorobenzene	0.0250	0.0260	0.0263	104	105	79.0-121			1.16	20
Chlorodibromomethane	0.0250	0.0265	0.0267	106	107	74.0-128			0.600	20
Chloroethane	0.0250	0.0251	0.0254	100	101	51.0-147			1.24	20
Chloroform	0.0250	0.0248	0.0250	99.2	100	73.0-123			0.970	20
Chloromethane	0.0250	0.0197	0.0200	78.7	80.0	51.0-138			1.73	20
2-Chlorotoluene	0.0250	0.0248	0.0248	99.2	99.1	72.0-124			0.0900	20
4-Chlorotoluene	0.0250	0.0243	0.0245	97.4	98.0	78.0-120			0.700	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0251	0.0254	100	102	65.0-126			1.24	20
1,2-Dibromoethane	0.0250	0.0258	0.0262	103	105	78.0-122			1.37	20
Dibromomethane	0.0250	0.0256	0.0259	102	104	79.0-120			1.29	20
1,2-Dichlorobenzene	0.0250	0.0254	0.0248	101	99.3	80.0-120			2.17	20
1,3-Dichlorobenzene	0.0250	0.0244	0.0245	97.8	98.0	72.0-123			0.180	20
1,4-Dichlorobenzene	0.0250	0.0244	0.0241	97.7	96.5	77.0-120			1.24	20
Dichlorodifluoromethane	0.0250	0.0208	0.0208	83.4	83.2	49.0-155			0.200	20
1,1-Dichloroethane	0.0250	0.0238	0.0242	95.2	96.6	70.0-128			1.55	20
1,2-Dichloroethane	0.0250	0.0253	0.0259	101	103	69.0-128			2.08	20
1,1-Dichloroethene	0.0250	0.0259	0.0264	104	106	63.0-131			2.06	20
cis-1,2-Dichloroethene	0.0250	0.0252	0.0253	101	101	74.0-123			0.360	20
trans-1,2-Dichloroethene	0.0250	0.0249	0.0251	99.7	100	72.0-122			0.570	20
1,2-Dichloropropane	0.0250	0.0244	0.0244	97.8	97.4	75.0-126			0.360	20
1,1-Dichloropropene	0.0250	0.0252	0.0257	101	103	72.0-130			2.26	20
1,3-Dichloropropane	0.0250	0.0260	0.0257	104	103	80.0-121			1.13	20
cis-1,3-Dichloropropene	0.0250	0.0271	0.0267	109	107	80.0-125			1.50	20
trans-1,3-Dichloropropene	0.0250	0.0251	0.0249	100	99.5	75.0-129			0.800	20
2,2-Dichloropropane	0.0250	0.0229	0.0232	91.6	92.6	60.0-129			1.09	20
Di-isopropyl ether	0.0250	0.0222	0.0227	88.9	90.8	62.0-133			2.13	20
Ethylbenzene	0.0250	0.0252	0.0255	101	102	77.0-120			1.21	20
Hexachloro-1,3-butadiene	0.0250	0.0264	0.0254	106	102	68.0-128			3.78	20
Isopropylbenzene	0.0250	0.0248	0.0250	99.2	100	75.0-120			0.960	20
p-Isopropyltoluene	0.0250	0.0259	0.0255	104	102	74.0-125			1.55	20
2-Butanone (MEK)	0.125	0.132	0.139	106	111	37.0-159			4.58	20
Methylene Chloride	0.0250	0.0247	0.0245	98.6	98.1	67.0-123			0.550	20
4-Methyl-2-pentanone (MIBK)	0.125	0.135	0.138	108	111	60.0-144			2.24	20
Methyl tert-butyl ether	0.0250	0.0238	0.0240	95.1	96.0	66.0-125			0.970	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202361-1 03/09/17 11:07 • (LCSD) R3202361-2 03/09/17 11:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.0250	0.0254	0.0251	102	101	64.0-125			0.970	20
n-Propylbenzene	0.0250	0.0248	0.0247	99.0	98.8	78.0-120			0.210	20
Styrene	0.0250	0.0260	0.0261	104	105	78.0-124			0.310	20
1,1,1,2-Tetrachloroethane	0.0250	0.0260	0.0261	104	104	74.0-124			0.120	20
1,1,2,2-Tetrachloroethane	0.0250	0.0245	0.0248	98.1	99.1	73.0-120			0.970	20
Tetrachloroethene	0.0250	0.0269	0.0266	107	106	70.0-127			0.870	20
Toluene	0.0250	0.0238	0.0238	95.0	95.2	77.0-120			0.240	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0265	0.0265	106	106	64.0-135			0.0800	20
1,2,3-Trichlorobenzene	0.0250	0.0274	0.0270	109	108	68.0-126			1.29	20
1,2,4-Trichlorobenzene	0.0250	0.0266	0.0261	106	104	70.0-127			1.97	20
1,1,1-Trichloroethane	0.0250	0.0249	0.0253	99.6	101	69.0-125			1.75	20
1,1,2-Trichloroethane	0.0250	0.0254	0.0259	102	104	78.0-120			1.88	20
Trichloroethene	0.0250	0.0261	0.0256	105	103	79.0-120			1.93	20
Trichlorofluoromethane	0.0250	0.0257	0.0264	103	106	59.0-136			2.88	20
1,2,3-Trichloropropane	0.0250	0.0260	0.0267	104	107	73.0-124			2.80	20
1,2,3-Trimethylbenzene	0.0250	0.0251	0.0247	100	98.6	76.0-120			1.82	20
1,2,4-Trimethylbenzene	0.0250	0.0252	0.0250	101	100	75.0-120			0.640	20
1,3,5-Trimethylbenzene	0.0250	0.0249	0.0251	99.5	100	75.0-120			0.770	20
Vinyl chloride	0.0250	0.0232	0.0236	92.7	94.5	63.0-134			1.95	20
Xylenes, Total	0.0750	0.0748	0.0756	99.7	101	77.0-120			1.06	20
(S) Toluene-d8				97.6	98.1	80.0-120				
(S) Dibromofluoromethane				99.3	100	74.0-131				
(S) 4-Bromofluorobenzene				91.8	93.1	64.0-132				

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## L894359-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L894359-03 03/09/17 21:03 • (MS) R3202361-4 03/10/17 01:57 • (MSD) R3202361-5 03/10/17 02:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	ND	1.94	2.50	90.2	116	17.25	10.0-160		25.0	36
Acrylonitrile	0.125	ND	1.87	2.23	86.9	104	17.25	14.0-160		17.6	33
Benzene	0.0250	ND	0.404	0.448	93.7	104	17.25	13.0-146		10.3	27
Bromobenzene	0.0250	ND	0.436	0.478	101	111	17.25	10.0-149		9.26	33
Bromodichloromethane	0.0250	ND	0.419	0.469	97.2	109	17.25	15.0-142		11.2	28
Bromoform	0.0250	ND	0.404	0.444	93.7	103	17.25	10.0-147		9.40	31
Bromomethane	0.0250	ND	0.127	0.113	29.5	26.3	17.25	10.0-160		11.7	32
n-Butylbenzene	0.0250	ND	0.455	0.503	105	117	17.25	10.0-154		10.2	37
sec-Butylbenzene	0.0250	ND	0.482	0.531	112	123	17.25	10.0-151		9.83	36
tert-Butylbenzene	0.0250	ND	0.480	0.532	111	123	17.25	10.0-152		10.3	35



## L894359-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L894359-03 03/09/17 21:03 • (MS) R3202361-4 03/10/17 01:57 • (MSD) R3202361-5 03/10/17 02:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Carbon tetrachloride	0.0250	ND	0.389	0.434	90.3	101	17.25	13.0-140			10.8	30
Chlorobenzene	0.0250	ND	0.458	0.513	106	119	17.25	10.0-149			11.3	31
Chlorodibromomethane	0.0250	ND	0.438	0.483	102	112	17.25	12.0-147			9.86	29
Chloroethane	0.0250	ND	0.0511	0.0377	11.9	8.74	17.25	10.0-159	J6		30.3	33
Chloroform	0.0250	ND	0.428	0.477	99.3	111	17.25	18.0-148			10.7	28
Chloromethane	0.0250	ND	0.323	0.362	74.9	83.9	17.25	10.0-146			11.2	29
2-Chlorotoluene	0.0250	ND	0.465	0.509	108	118	17.25	10.0-151			9.05	35
4-Chlorotoluene	0.0250	ND	0.443	0.486	103	113	17.25	10.0-150			9.30	35
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.388	0.431	89.9	99.9	17.25	10.0-149			10.5	34
1,2-Dibromoethane	0.0250	ND	0.431	0.477	99.8	111	17.25	14.0-145			10.1	28
Dibromomethane	0.0250	ND	0.409	0.451	94.8	105	17.25	18.0-144			9.85	27
1,2-Dichlorobenzene	0.0250	ND	0.438	0.488	102	113	17.25	10.0-153			10.7	34
1,3-Dichlorobenzene	0.0250	ND	0.455	0.506	106	117	17.25	10.0-150			10.6	35
1,4-Dichlorobenzene	0.0250	ND	0.434	0.479	101	111	17.25	10.0-148			9.88	34
Dichlorodifluoromethane	0.0250	ND	0.363	0.412	84.1	95.6	17.25	10.0-160			12.8	30
1,1-Dichloroethane	0.0250	ND	0.420	0.461	97.3	107	17.25	19.0-148			9.34	28
1,2-Dichloroethane	0.0250	ND	0.413	0.455	95.7	106	17.25	17.0-147			9.77	27
1,1-Dichloroethene	0.0250	ND	0.284	0.377	65.9	87.4	17.25	10.0-150			28.0	31
cis-1,2-Dichloroethene	0.0250	ND	0.419	0.465	97.1	108	17.25	16.0-145			10.3	28
trans-1,2-Dichloroethene	0.0250	ND	0.383	0.418	88.8	97.0	17.25	11.0-142			8.87	29
1,2-Dichloropropane	0.0250	ND	0.422	0.471	97.8	109	17.25	17.0-148			11.1	28
1,1-Dichloropropene	0.0250	ND	0.399	0.439	92.4	102	17.25	10.0-150			9.75	30
1,3-Dichloropropane	0.0250	ND	0.443	0.489	103	113	17.25	16.0-148			9.86	27
cis-1,3-Dichloropropene	0.0250	ND	0.407	0.452	94.4	105	17.25	13.0-150			10.5	28
trans-1,3-Dichloropropene	0.0250	ND	0.396	0.446	91.9	103	17.25	10.0-152			11.7	29
2,2-Dichloropropane	0.0250	ND	0.385	0.426	89.2	98.7	17.25	16.0-143			10.1	30
Di-isopropyl ether	0.0250	ND	0.424	0.466	98.4	108	17.25	16.0-149			9.48	28
Ethylbenzene	0.0250	ND	0.462	0.517	107	120	17.25	10.0-147			11.2	31
Hexachloro-1,3-butadiene	0.0250	ND	0.478	0.546	111	127	17.25	10.0-154			13.2	40
Isopropylbenzene	0.0250	ND	0.471	0.521	109	121	17.25	10.0-147			10.1	33
p-Isopropyltoluene	0.0250	ND	0.481	0.533	112	124	17.25	10.0-156			10.3	37
2-Butanone (MEK)	0.125	ND	2.27	2.57	105	119	17.25	10.0-160			12.2	33
Methylene Chloride	0.0250	ND	0.380	0.425	88.2	98.6	17.25	16.0-139			11.1	29
4-Methyl-2-pentanone (MIBK)	0.125	ND	2.02	2.21	93.7	103	17.25	12.0-160			8.98	32
Methyl tert-butyl ether	0.0250	ND	0.398	0.445	92.3	103	17.25	21.0-145			11.3	29
Naphthalene	0.0250	ND	0.421	0.479	97.7	111	17.25	10.0-153			12.8	36
n-Propylbenzene	0.0250	ND	0.459	0.509	106	118	17.25	10.0-151			10.3	34
Styrene	0.0250	ND	0.455	0.504	105	117	17.25	10.0-155			10.3	34
1,1,2-Tetrachloroethane	0.0250	ND	0.471	0.521	109	121	17.25	10.0-147			10.1	30
1,1,2,2-Tetrachloroethane	0.0250	ND	0.394	0.443	91.4	103	17.25	10.0-155			11.6	31

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## L894359-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L894359-03 03/09/17 21:03 • (MS) R3202361-4 03/10/17 01:57 • (MSD) R3202361-5 03/10/17 02:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result %	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Tetrachloroethene	0.0250	ND	0.443	0.492	103	114	17.25	10.0-144			10.5	32
Toluene	0.0250	ND	0.406	0.452	94.1	105	17.25	10.0-144			10.8	28
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.343	0.442	79.4	103	17.25	10.0-153			25.4	33
1,2,3-Trichlorobenzene	0.0250	ND	0.469	0.537	109	125	17.25	10.0-153			13.6	40
1,2,4-Trichlorobenzene	0.0250	ND	0.456	0.523	106	121	17.25	10.0-156			13.8	40
1,1,1-Trichloroethane	0.0250	ND	0.423	0.474	98.0	110	17.25	18.0-145			11.5	29
1,1,2-Trichloroethane	0.0250	ND	0.445	0.486	103	113	17.25	12.0-151			8.76	28
Trichloroethene	0.0250	ND	0.455	0.493	105	114	17.25	11.0-148			7.96	29
Trichlorofluoromethane	0.0250	ND	0.113	0.0759	26.1	17.6	17.25	10.0-157	J3		39.1	34
1,2,3-Trichloropropane	0.0250	ND	0.439	0.476	102	110	17.25	10.0-154			8.16	32
1,2,3-Trimethylbenzene	0.0250	ND	0.449	0.497	104	115	17.25	10.0-150			10.2	33
1,2,4-Trimethylbenzene	0.0250	ND	0.464	0.509	108	118	17.25	10.0-151			9.17	34
1,3,5-Trimethylbenzene	0.0250	ND	0.467	0.522	108	121	17.25	10.0-150			11.1	33
Vinyl chloride	0.0250	ND	0.367	0.407	85.0	94.5	17.25	10.0-150			10.6	29
Xylenes, Total	0.0750	ND	1.36	1.50	105	116	17.25	10.0-150			9.84	31
(S) Toluene-d8				99.2	98.0			80.0-120				
(S) Dibromofluoromethane				96.8	94.3			74.0-131				
(S) 4-Bromofluorobenzene				98.5	96.9			64.0-132				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Method Blank (MB)

(MB) R3202102-3 03/09/17 10:18

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000270	0.00100
Ethylbenzene	U		0.000297	0.00100
Toluene	U		0.000434	0.00500
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	103		80.0-120	
(S) Dibromofluoromethane	93.3		74.0-131	
(S) a,a,a-Trifluorotoluene	103		80.0-120	
(S) 4-Bromofluorobenzene	103		64.0-132	

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202102-1 03/09/17 09:25 • (LCSD) R3202102-2 03/09/17 09:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	0.0250	0.0247	0.0251	98.8	100	71.0-124			1.68	20
Ethylbenzene	0.0250	0.0276	0.0282	110	113	77.0-120			2.11	20
Toluene	0.0250	0.0261	0.0258	104	103	77.0-120			0.880	20
Xylenes, Total	0.0750	0.0846	0.0833	113	111	77.0-120			1.55	20
(S) Toluene-d8			103	102	80.0-120					
(S) Dibromofluoromethane			94.7	93.5	74.0-131					
(S) a,a,a-Trifluorotoluene			104	103	80.0-120					
(S) 4-Bromofluorobenzene			101	99.4	64.0-132					

<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## L894217-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L894217-04 03/09/17 12:01 • (MS) R3202102-4 03/09/17 12:19 • (MSD) R3202102-5 03/09/17 12:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Benzene	0.0250	0.0108	0.0206	0.0272	39.0	65.5	1	13.0-146	J3	27.7	27
Ethylbenzene	0.0250	0.00740	0.0201	0.0282	50.9	83.3	1	10.0-147	J3	33.5	31
Toluene	0.0250	0.0243	0.0256	0.0374	5.22	52.4	1	10.0-144	J6	J3	37.4
Xylenes, Total	0.0750	0.0400	0.0674	0.0982	36.5	77.6	1	10.0-150	J3	37.2	31
(S) Toluene-d8				97.8	99.4		80.0-120				
(S) Dibromofluoromethane				96.1	96.9		74.0-131				
(S) a,a,a-Trifluorotoluene				96.0	97.6		80.0-120				
(S) 4-Bromofluorobenzene				102	98.7		64.0-132				

<sup>10</sup>Os



## Method Blank (MB)

(MB) R3202017-3 03/08/17 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	
Acetone	U		10.0	50.0	<sup>1</sup> Cp
Acrolein	U		8.87	50.0	<sup>2</sup> Tc
Acrylonitrile	U		1.87	10.0	<sup>3</sup> Ss
Benzene	U		0.331	1.00	<sup>4</sup> Cn
Bromobenzene	U		0.352	1.00	<sup>5</sup> Sr
Bromodichloromethane	U		0.380	1.00	<sup>6</sup> Qc
Bromoform	U		0.469	1.00	<sup>7</sup> Gl
Bromomethane	U		0.866	5.00	<sup>8</sup> Al
n-Butylbenzene	U		0.361	1.00	<sup>9</sup> Sc
sec-Butylbenzene	U		0.365	1.00	
tert-Butylbenzene	U		0.399	1.00	
Carbon tetrachloride	U		0.379	1.00	
Chlorobenzene	U		0.348	1.00	
Chlorodibromomethane	U		0.327	1.00	
Chloroethane	U		0.453	5.00	
Chloroform	U		0.324	5.00	
Chloromethane	U		0.276	2.50	
2-Chlorotoluene	U		0.375	1.00	
4-Chlorotoluene	U		0.351	1.00	
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	
1,2-Dibromoethane	U		0.381	1.00	
Dibromomethane	U		0.346	1.00	
1,2-Dichlorobenzene	U		0.349	1.00	
1,3-Dichlorobenzene	U		0.220	1.00	
1,4-Dichlorobenzene	U		0.274	1.00	
Dichlorodifluoromethane	U		0.551	5.00	
1,1-Dichloroethane	U		0.259	1.00	
1,2-Dichloroethane	U		0.361	1.00	
1,1-Dichloroethene	U		0.398	1.00	
cis-1,2-Dichloroethene	U		0.260	1.00	
trans-1,2-Dichloroethene	U		0.396	1.00	
1,2-Dichloropropane	U		0.306	1.00	
1,1-Dichloropropene	U		0.352	1.00	
1,3-Dichloropropane	U		0.366	1.00	
cis-1,3-Dichloropropene	U		0.418	1.00	
trans-1,3-Dichloropropene	U		0.419	1.00	
2,2-Dichloropropane	U		0.321	1.00	
Di-isopropyl ether	U		0.320	1.00	
Ethylbenzene	U		0.384	1.00	
Hexachloro-1,3-butadiene	U		0.256	1.00	



## Method Blank (MB)

(MB) R3202017-3 03/08/17 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l								
Isopropylbenzene	U		0.326	1.00								
p-Isopropyltoluene	U		0.350	1.00								
2-Butanone (MEK)	U		3.93	10.0								
Methylene Chloride	U		1.00	5.00								
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0								
Methyl tert-butyl ether	U		0.367	1.00								
Naphthalene	U		1.00	5.00								
n-Propylbenzene	U		0.349	1.00								
Styrene	U		0.307	1.00								
1,1,2-Tetrachloroethane	U		0.385	1.00								
1,1,2,2-Tetrachloroethane	U		0.130	1.00								
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00								
Tetrachloroethene	U		0.372	1.00								
Toluene	U		0.412	1.00								
1,2,3-Trichlorobenzene	U		0.230	1.00								
1,2,4-Trichlorobenzene	U		0.355	1.00								
1,1,1-Trichloroethane	U		0.319	1.00								
1,1,2-Trichloroethane	U		0.383	1.00								
1,2,3-Trimethylbenzene	U		0.321	1.00								
Trichloroethene	U		0.398	1.00								
Trichlorofluoromethane	U		1.20	5.00								
1,2,3-Trichloropropane	U		0.807	2.50								
1,2,4-Trimethylbenzene	U		0.373	1.00								
1,3,5-Trimethylbenzene	U		0.387	1.00								
Vinyl chloride	U		0.259	1.00								
Xylenes, Total	U		1.06	3.00								
(S) Toluene-d8	98.2			80.0-120								
(S) Dibromofluoromethane	108			76.0-123								
(S) 4-Bromofluorobenzene	94.6			80.0-120								

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202017-1 03/08/17 15:10 • (LCSD) R3202017-2 03/08/17 15:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Acetone	125	173	182	138	146	10.0-160			5.53	23
Acrolein	125	269	278	215	223	10.0-160	J4	J4	3.26	20
Benzene	25.0	26.8	27.4	107	110	69.0-123			2.21	20
Acrylonitrile	125	127	133	101	107	60.0-142			5.18	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202017-1 03/08/17 15:10 • (LCSD) R3202017-2 03/08/17 15:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Bromobenzene	25.0	25.5	25.5	102	102	79.0-120			0.230	20
Bromodichloromethane	25.0	24.6	24.7	98.2	98.6	76.0-120			0.400	20
Bromoform	25.0	25.9	26.0	104	104	67.0-132			0.130	20
Bromomethane	25.0	30.8	30.5	123	122	18.0-160			1.02	20
n-Butylbenzene	25.0	27.1	28.2	109	113	72.0-126			3.82	20
sec-Butylbenzene	25.0	26.6	26.5	106	106	74.0-121			0.370	20
tert-Butylbenzene	25.0	27.0	26.9	108	107	75.0-122			0.610	20
Carbon tetrachloride	25.0	26.7	27.3	107	109	63.0-122			2.01	20
Chlorobenzene	25.0	28.3	28.4	113	114	79.0-121			0.250	20
Chlorodibromomethane	25.0	27.9	27.5	112	110	75.0-125			1.28	20
Chloroethane	25.0	33.3	33.6	133	135	47.0-152			0.970	20
Chloroform	25.0	26.2	26.5	105	106	72.0-121			1.26	20
Chloromethane	25.0	23.2	24.4	92.8	97.8	48.0-139			5.24	20
2-Chlorotoluene	25.0	27.4	27.0	110	108	74.0-122			1.56	20
4-Chlorotoluene	25.0	27.1	26.9	108	108	79.0-120			0.620	20
1,2-Dibromo-3-Chloropropane	25.0	25.4	27.2	102	109	64.0-127			6.87	20
1,2-Dibromoethane	25.0	27.2	27.1	109	108	77.0-123			0.340	20
Dibromomethane	25.0	26.1	26.2	104	105	78.0-120			0.220	20
1,2-Dichlorobenzene	25.0	27.6	28.3	110	113	80.0-120			2.76	20
1,3-Dichlorobenzene	25.0	26.5	26.3	106	105	72.0-123			0.610	20
1,4-Dichlorobenzene	25.0	27.1	27.8	108	111	77.0-120			2.52	20
Dichlorodifluoromethane	25.0	34.3	34.5	137	138	49.0-155			0.780	20
1,1-Dichloroethane	25.0	26.3	26.5	105	106	70.0-126			0.640	20
1,2-Dichloroethane	25.0	27.5	27.9	110	112	67.0-126			1.48	20
1,1-Dichloroethene	25.0	26.9	27.1	108	109	64.0-129			0.770	20
cis-1,2-Dichloroethene	25.0	26.1	26.5	104	106	73.0-120			1.64	20
trans-1,2-Dichloroethene	25.0	27.1	27.7	109	111	71.0-121			1.87	20
1,2-Dichloropropane	25.0	25.8	25.5	103	102	75.0-125			1.02	20
1,1-Dichloropropene	25.0	28.2	28.7	113	115	71.0-129			1.51	20
1,3-Dichloropropane	25.0	27.4	27.5	110	110	80.0-121			0.0300	20
cis-1,3-Dichloropropene	25.0	27.8	27.6	111	111	79.0-123			0.620	20
trans-1,3-Dichloropropene	25.0	25.8	26.3	103	105	74.0-127			2.02	20
2,2-Dichloropropane	25.0	25.6	25.9	103	103	60.0-125			0.850	20
Di-isopropyl ether	25.0	23.8	24.5	95.3	98.0	59.0-133			2.81	20
Ethylbenzene	25.0	28.0	27.5	112	110	77.0-120			1.64	20
Hexachloro-1,3-butadiene	25.0	27.3	27.7	109	111	64.0-131			1.46	20
Isopropylbenzene	25.0	27.5	27.2	110	109	75.0-120			1.11	20
p-Isopropyltoluene	25.0	27.8	27.8	111	111	74.0-126			0.0100	20
2-Butanone (MEK)	125	150	155	120	124	37.0-158			3.55	20
Methyl tert-butyl ether	25.0	23.8	24.5	95.3	98.1	64.0-123			2.86	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202017-1 03/08/17 15:10 • (LCSD) R3202017-2 03/08/17 15:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methylene Chloride	25.0	24.2	24.9	97.0	99.8	66.0-121			2.84	20
4-Methyl-2-pentanone (MIBK)	125	136	140	109	112	59.0-143			2.32	20
Naphthalene	25.0	26.2	27.6	105	110	62.0-128			5.15	20
n-Propylbenzene	25.0	27.7	27.4	111	109	79.0-120			1.30	20
Styrene	25.0	28.4	28.3	114	113	78.0-124			0.550	20
1,1,1,2-Tetrachloroethane	25.0	25.8	25.3	103	101	75.0-122			2.00	20
1,1,2,2-Tetrachloroethane	25.0	24.4	24.1	97.8	96.3	71.0-122			1.49	20
Tetrachloroethene	25.0	27.5	27.3	110	109	70.0-127			0.770	20
Toluene	25.0	26.0	26.1	104	104	77.0-120			0.260	20
1,1,2-Trichlorotrifluoroethane	25.0	30.8	31.3	123	125	61.0-136			1.43	20
1,2,3-Trichlorobenzene	25.0	25.9	26.5	104	106	61.0-133			2.10	20
1,2,4-Trichlorobenzene	25.0	26.0	26.9	104	108	69.0-129			3.51	20
1,1,1-Trichloroethane	25.0	27.5	27.8	110	111	68.0-122			1.12	20
1,1,2-Trichloroethane	25.0	26.4	26.2	106	105	78.0-120			0.730	20
Trichloroethene	25.0	27.4	27.7	110	111	78.0-120			0.850	20
Trichlorofluoromethane	25.0	33.5	33.6	134	135	56.0-137			0.590	20
1,2,3-Trichloropropane	25.0	26.0	26.1	104	105	72.0-124			0.490	20
1,2,3-Trimethylbenzene	25.0	27.6	27.9	110	112	75.0-120			1.43	20
1,2,4-Trimethylbenzene	25.0	27.4	27.4	110	110	75.0-120			0.140	20
1,3,5-Trimethylbenzene	25.0	26.6	26.5	107	106	75.0-120			0.390	20
Xylenes, Total	75.0	82.3	81.3	110	108	77.0-120			1.22	20
Vinyl chloride	25.0	31.6	31.3	126	125	64.0-133			1.05	20
(S) Toluene-d8				102	102	80.0-120				
(S) Dibromofluoromethane				104	106	76.0-123				
(S) 4-Bromofluorobenzene				98.7	97.2	80.0-120				

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3202100-1 03/08/17 00:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		83.3	250
Residual Range Organics (RRO)	U		167	500
(S) o-Terphenyl	124			52.0-156

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202100-2 03/08/17 00:50 • (LCSD) R3202100-3 03/08/17 01:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Diesel Range Organics (DRO)	750	1040	1080	139	144	50.0-150			3.11	20
Residual Range Organics (RRO)	750	808	859	108	115	50.0-150			6.16	20
(S) o-Terphenyl			125	125		52.0-156				



## Method Blank (MB)

(MB) R3202018-1 03/08/17 19:01

Analyst	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	80.3			18.0-148

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202018-2 03/08/17 19:14 • (LCSD) R3202018-3 03/08/17 19:27

Analyst	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Diesel Range Organics (DRO)	30.0	18.7	20.6	62.2	68.8	50.0-150			10.1	20
Residual Range Organics (RRO)	30.0	18.3	19.4	61.1	64.6	50.0-150			5.50	20
(S) o-Terphenyl			85.0	97.9		18.0-148				



## Method Blank (MB)

(MB) R3202328-1 03/09/17 13:09

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	72.8		10.0-148	
(S) Tetrachloro-m-xylene	77.7		21.0-146	

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202328-2 03/09/17 13:23 • (LCSD) R3202328-3 03/09/17 13:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
PCB 1260	0.167	0.154	0.104	92.1	62.7	37.0-145	J3	J3	38.1	37
PCB 1016	0.167	0.146	0.0997	87.8	59.8	36.0-141	J3	J3	37.9	35
(S) Decachlorobiphenyl			91.0	80.7	10.0-148					
(S) Tetrachloro-m-xylene			93.7	82.6	21.0-146					

<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## L893780-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893780-06 03/09/17 15:12 • (MS) R3202328-4 03/09/17 15:25 • (MSD) R3202328-5 03/09/17 15:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
PCB 1260	0.218	U	0.190	0.195	87.4	89.7	1	10.0-160			2.60	31
PCB 1016	0.218	U	0.201	0.201	92.1	92.1	1	17.0-160			0.000	30
(S) Decachlorobiphenyl			99.0	99.8	99.0	99.8		10.0-148				
(S) Tetrachloro-m-xylene			102	98.3	99.0	98.3		21.0-146				

<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3201844-3 03/08/17 04:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l								
Anthracene	U		0.0140	0.0500								
Acenaphthene	U		0.0100	0.0500								
Acenaphthylene	U		0.0120	0.0500								
Benzo(a)anthracene	0.00642	J	0.00410	0.0500								
Benzo(a)pyrene	U		0.0116	0.0500								
Benzo(b)fluoranthene	U		0.00212	0.0500								
Benzo(g,h,i)perylene	U		0.00227	0.0500								
Benzo(k)fluoranthene	U		0.0136	0.0500								
Chrysene	U		0.0108	0.0500								
Dibenz(a,h)anthracene	U		0.00396	0.0500								
Fluoranthene	U		0.0157	0.0500								
Fluorene	U		0.00850	0.0500								
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500								
Naphthalene	0.0213	J	0.0198	0.250								
Phenanthrene	U		0.00820	0.0500								
Pyrene	U		0.0117	0.0500								
1-Methylnaphthalene	U		0.00821	0.250								
2-Methylnaphthalene	U		0.00902	0.250								
2-Chloronaphthalene	U		0.00647	0.250								
(S) Nitrobenzene-d5	147			31.0-160								
(S) 2-Fluorobiphenyl	97.9			48.0-148								
(S) p-Terphenyl-d14	90.4			37.0-146								

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201844-1 03/08/17 03:30 • (LCSD) R3201844-2 03/08/17 03:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Anthracene	2.00	1.77	1.89	88.7	94.6	64.0-142			6.41	20
Acenaphthene	2.00	1.97	1.89	98.5	94.5	66.0-132			4.20	20
Acenaphthylene	2.00	1.90	1.81	94.9	90.7	65.0-132			4.47	20
Benzo(a)anthracene	2.00	2.07	2.01	104	101	59.0-134			2.83	20
Benzo(a)pyrene	2.00	2.08	2.08	104	104	61.0-145		0.0100	20	
Benzo(b)fluoranthene	2.00	2.18	1.93	109	96.4	57.0-136			12.4	20
Benzo(g,h,i)perylene	2.00	1.92	1.82	95.9	91.1	54.0-140			5.20	20
Benzo(k)fluoranthene	2.00	2.14	2.00	107	100	57.0-141			6.35	20
Chrysene	2.00	1.99	1.93	99.7	96.7	63.0-140			3.04	20
Dibenz(a,h)anthracene	2.00	1.96	1.81	98.1	90.6	49.0-141			8.03	20
Fluoranthene	2.00	2.13	2.28	107	114	65.0-143			6.57	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201844-1 03/08/17 03:30 • (LCSD) R3201844-2 03/08/17 03:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.06	2.02	103	101	64.0-129			1.91	20
Indeno(1,2,3-cd)pyrene	2.00	1.97	1.85	98.4	92.5	53.0-141			6.16	20
Naphthalene	2.00	1.92	1.82	96.0	90.8	68.0-129			5.58	20
Phenanthrene	2.00	1.91	1.88	95.3	93.9	62.0-132			1.40	20
Pyrene	2.00	1.74	1.84	86.8	92.0	58.0-156			5.85	20
1-Methylnaphthalene	2.00	2.21	2.07	110	103	68.0-137			6.55	20
2-Methylnaphthalene	2.00	2.03	1.91	102	95.7	68.0-134			6.08	20
2-Chloronaphthalene	2.00	1.85	1.82	92.7	90.8	65.0-129			2.11	20
(S) Nitrobenzene-d5				151	128	31.0-160				
(S) 2-Fluorobiphenyl				99.1	95.1	48.0-148				
(S) p-Terphenyl-d14				93.4	92.3	37.0-146				

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

L893941-01,02,04,05,06,07,08,09,10,11,13

## Method Blank (MB)

(MB) R3202570-3 03/10/17 02:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	<sup>1</sup> Cp
Anthracene	U		0.000600	0.00600	
Acenaphthene	U		0.000600	0.00600	
Acenaphthylene	U		0.000600	0.00600	
Benzo(a)anthracene	U		0.000600	0.00600	
Benzo(a)pyrene	U		0.000600	0.00600	
Benzo(b)fluoranthene	U		0.000600	0.00600	
Benzo(g,h,i)perylene	U		0.000600	0.00600	
Benzo(k)fluoranthene	U		0.000600	0.00600	
Chrysene	U		0.000600	0.00600	
Dibenz(a,h)anthracene	U		0.000600	0.00600	
Fluoranthene	U		0.000600	0.00600	
Fluorene	U		0.000600	0.00600	
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600	
Naphthalene	U		0.00200	0.0200	
Phenanthrene	U		0.000600	0.00600	
Pyrene	U		0.000600	0.00600	
1-Methylnaphthalene	U		0.00200	0.0200	
2-Methylnaphthalene	U		0.00200	0.0200	
2-Chloronaphthalene	U		0.00200	0.0200	
(S) p-Terphenyl-d14	74.2		23.0-120		
(S) Nitrobenzene-d5	59.5		14.0-149		
(S) 2-Fluorobiphenyl	66.7		34.0-125		

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202570-1 03/10/17 02:07 • (LCSD) R3202570-2 03/10/17 02:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	0.0593	0.0617	74.1	77.1	50.0-125			4.02	20
Acenaphthene	0.0800	0.0628	0.0653	78.5	81.6	52.0-120			3.95	20
Acenaphthylene	0.0800	0.0627	0.0648	78.4	81.0	51.0-120			3.33	20
Benzo(a)anthracene	0.0800	0.0554	0.0566	69.2	70.8	46.0-121			2.24	20
Benzo(a)pyrene	0.0800	0.0511	0.0518	63.8	64.8	42.0-121			1.51	20
Benzo(b)fluoranthene	0.0800	0.0579	0.0579	72.3	72.4	42.0-123			0.140	20
Benzo(g,h,i)perylene	0.0800	0.0554	0.0564	69.2	70.4	43.0-128			1.78	20
Benzo(k)fluoranthene	0.0800	0.0581	0.0614	72.7	76.8	45.0-128			5.52	20
Chrysene	0.0800	0.0586	0.0618	73.2	77.2	48.0-127			5.36	20
Dibenz(a,h)anthracene	0.0800	0.0514	0.0515	64.2	64.4	43.0-132			0.240	20
Fluoranthene	0.0800	0.0694	0.0705	86.7	88.1	49.0-129			1.55	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202570-1 03/10/17 02:07 • (LCSD) R3202570-2 03/10/17 02:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	0.0800	0.0577	0.0598	72.1	74.8	50.0-120			3.69	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0536	0.0552	67.0	69.0	44.0-131			2.93	20
Naphthalene	0.0800	0.0574	0.0604	71.8	75.4	50.0-120			5.00	20
Phenanthrene	0.0800	0.0620	0.0640	77.5	80.0	48.0-120			3.16	20
Pyrene	0.0800	0.0647	0.0678	80.9	84.7	48.0-135			4.63	20
1-Methylnaphthalene	0.0800	0.0547	0.0576	68.3	71.9	52.0-122			5.14	20
2-Methylnaphthalene	0.0800	0.0515	0.0539	64.4	67.3	52.0-120			4.47	20
2-Chloronaphthalene	0.0800	0.0570	0.0581	71.2	72.6	50.0-120			1.97	20
(S) p-Terphenyl-d14				68.4	71.9	23.0-120				
(S) Nitrobenzene-d5				62.7	65.8	14.0-149				
(S) 2-Fluorobiphenyl				66.2	70.5	34.0-125				

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## L893941-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893941-02 03/14/17 13:23 • (MS) R3203241-1 03/14/17 13:45 • (MSD) R3203241-2 03/14/17 14:06

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0893	U	0.0553	0.0535	62.0	59.9	1	20.0-136			3.33	24
Acenaphthene	0.0893	U	0.0624	0.0617	69.9	69.1	1	29.0-124			1.09	20
Acenaphthylene	0.0893	U	0.0617	0.0595	69.1	66.6	1	35.0-120			3.62	20
Benzo(a)anthracene	0.0893	U	0.0502	0.0447	56.2	50.0	1	13.0-132			11.7	27
Benzo(a)pyrene	0.0893	U	0.0467	0.0303	52.3	33.9	1	14.0-138	J3		42.6	27
Benzo(b)fluoranthene	0.0893	U	0.0512	0.0408	57.3	45.7	1	10.0-129			22.6	31
Benzo(g,h,i)perylene	0.0893	U	0.0411	0.0289	46.1	32.3	1	10.0-133	J3		35.0	30
Benzo(k)fluoranthene	0.0893	U	0.0573	0.0452	64.2	50.6	1	15.0-131			23.7	27
Chrysene	0.0893	U	0.0697	0.0533	78.0	59.7	1	15.0-137	J3		26.6	25
Dibenz(a,h)anthracene	0.0893	U	0.0475	0.0326	53.1	36.5	1	15.0-132	J3		37.0	27
Fluoranthene	0.0893	U	0.0504	0.0467	56.4	52.3	1	13.0-139			7.59	28
Fluorene	0.0893	U	0.0590	0.0564	66.0	63.1	1	27.0-122			4.49	22
Indeno(1,2,3-cd)pyrene	0.0893	U	0.0427	0.0282	47.8	31.6	1	11.0-133	J3		40.8	29
Naphthalene	0.0893	0.00652	0.0612	0.0661	61.3	66.7	1	18.0-136			7.61	21
Phenanthrene	0.0893	U	0.0529	0.0509	59.2	57.0	1	15.0-133			3.92	25
Pyrene	0.0893	U	0.0628	0.0460	70.3	51.5	1	11.0-146	J3		30.8	29
1-Methylnaphthalene	0.0893	U	0.0659	0.0635	73.8	71.1	1	24.0-137			3.72	22
2-Methylnaphthalene	0.0893	U	0.0632	0.0608	70.8	68.0	1	23.0-136			4.00	22
2-Chloronaphthalene	0.0893	U	0.0663	0.0659	74.3	73.8	1	36.0-120			0.680	20
(S) p-Terphenyl-d14					91.8	72.9		23.0-120				
(S) Nitrobenzene-d5					82.9	86.7		14.0-149				
(S) 2-Fluorobiphenyl					88.7	76.0		34.0-125				

# GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



## Abbreviations and Definitions

SDG	Sample Delivery Group.	<sup>1</sup> Cp
MDL	Method Detection Limit.	<sup>2</sup> Tc
RDL	Reported Detection Limit.	<sup>3</sup> Ss
U	Not detected at the Reporting Limit (or MDL where applicable).	<sup>4</sup> Cn
RPD	Relative Percent Difference.	<sup>5</sup> Sr
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].	<sup>6</sup> Qc
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	<sup>7</sup> Gl
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.	<sup>8</sup> Al
Rec.	Recovery.	<sup>9</sup> Sc

## Qualifier

## Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey—NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio—VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

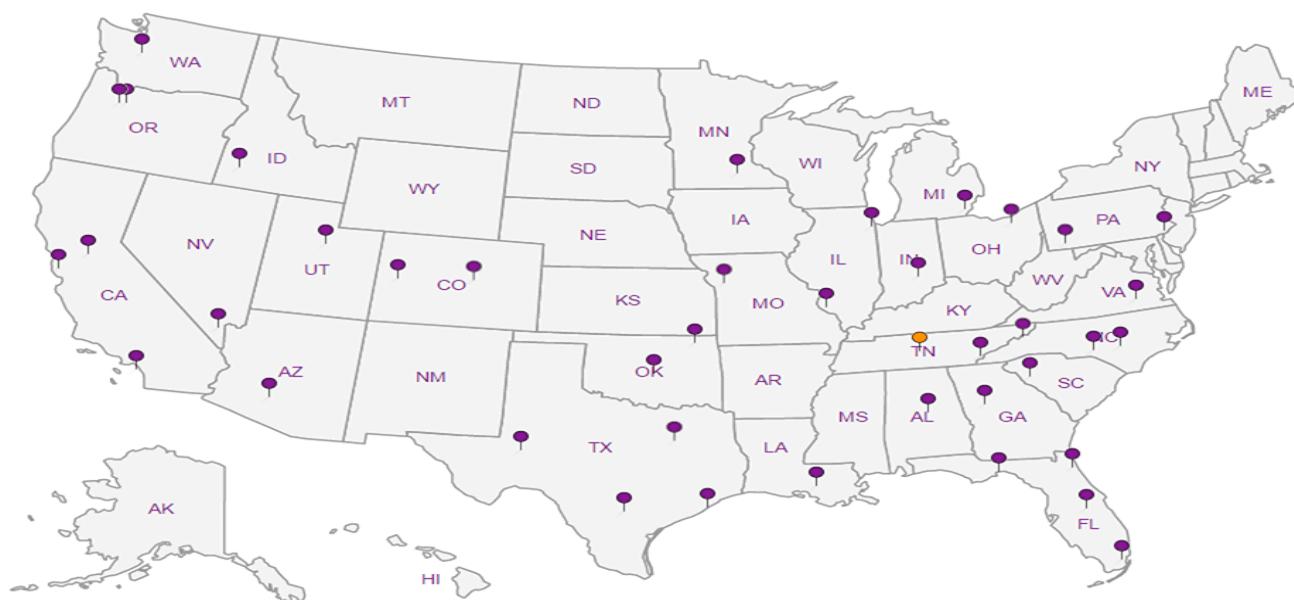
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> GI
- <sup>8</sup> Al
- <sup>9</sup> Sc





ESC LAB SCIENCES  
Cooler Receipt Form

Client:	Kenya Wat	SDG#:	893941	
Cooler Received/Opened On:	3/4 /17	Temperature:	21.7	
Received By:	Nadiar Yakob			
Signature:	nadiar yacob			
Receipt Check List		NP	Yes	No
COC Seal Present / Intact?		/	/	/
COC Signed / Accurate?		/	/	/
Bottles arrive intact?		/	/	/
Correct bottles used?		/	/	/
Sufficient volume sent?		/	/	/
If Applicable				
VOA Zero headspace?		/	/	/
Preservation Correct / Checked?				

April 24, 2017

## Kennedy/Jenks Consultants

Sample Delivery Group: L893941  
Samples Received: 03/04/2017  
Project Number: 1696059-00  
Description: Midas Fauntleroy

Report To: Julia Schwarz, Nathan Moxley  
116 Lupfer Avenue, Suite B  
Whitefish, MT 59937

Entire Report Reviewed By:



Mark W. Beasley  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<sup>1</sup> Cp: Cover Page	1	<sup>1</sup> Cp
<sup>2</sup> Tc: Table of Contents	2	<sup>2</sup> Tc
<sup>3</sup> Ss: Sample Summary	3	<sup>3</sup> Ss
<sup>4</sup> Cn: Case Narrative	4	<sup>4</sup> Cn
<sup>5</sup> Sr: Sample Results	5	<sup>5</sup> Sr
B-1 L893941-03	5	
B-5 L893941-12	8	
DUP-1-GW L893941-14	11	
<sup>6</sup> Qc: Quality Control Summary	14	<sup>6</sup> Qc
Mercury by Method 7470A	14	
Metals (ICP) by Method 6010C	15	
Volatile Organic Compounds (GC) by Method NWTPHGX	16	
Volatile Organic Compounds (GC/MS) by Method 8260C	17	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	21	
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	22	
<sup>7</sup> Gl: Glossary of Terms	24	<sup>7</sup> Gl
<sup>8</sup> Al: Accreditations & Locations	25	<sup>8</sup> Al
<sup>9</sup> Sc: Chain of Custody	26	<sup>9</sup> Sc

## SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



		Collected by Nathan Moxley	Collected date/time 03/01/17 10:35	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG958806	1	03/08/17 10:09	03/08/17 18:13	TRB
Metals (ICP) by Method 6010C	WG958726	1	03/07/17 18:13	03/07/17 20:12	ST
Volatile Organic Compounds (GC) by Method NWTPHGX	WG957976	1	03/09/17 17:37	03/09/17 17:37	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	1	03/08/17 19:46	03/08/17 19:46	ACG
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958334	1	03/06/17 23:05	03/10/17 00:41	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG958443	1	03/07/17 11:20	03/08/17 12:14	FMB

		Collected by Nathan Moxley	Collected date/time 03/01/17 14:50	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG958806	1	03/08/17 10:09	03/08/17 19:00	TRB
Metals (ICP) by Method 6010C	WG958726	1	03/07/17 18:13	03/07/17 20:25	ST
Volatile Organic Compounds (GC) by Method NWTPHGX	WG957976	1	03/09/17 17:59	03/09/17 17:59	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	1	03/08/17 20:09	03/08/17 20:09	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	10	03/10/17 05:58	03/10/17 05:58	JAH
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958334	2	03/06/17 23:05	03/08/17 20:12	TRF
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG958443	1	03/07/17 11:20	03/08/17 12:37	FMB

		Collected by Nathan Moxley	Collected date/time 03/01/17 00:00	Received date/time 03/04/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG958806	1	03/08/17 10:09	03/08/17 19:03	TRB
Metals (ICP) by Method 6010C	WG958726	1	03/07/17 18:13	03/07/17 20:28	ST
Volatile Organic Compounds (GC) by Method NWTPHGX	WG957976	1	03/09/17 18:21	03/09/17 18:21	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	1	03/08/17 20:32	03/08/17 20:32	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG959106	10	03/10/17 06:14	03/10/17 06:14	JAH
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG958334	2	03/06/17 23:05	03/08/17 20:28	TRF
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG958443	1	03/07/17 11:20	03/08/17 13:00	FMB





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley  
Technical Service Representative

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> GI
- <sup>8</sup> AI
- <sup>9</sup> Sc



## Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury,Dissolved	U		0.0490	0.200	1	03/08/2017 18:13	<a href="#">WG958806</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Metals (ICP) by Method 6010C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Arsenic,Dissolved	U		6.50	10.0	1	03/07/2017 20:12	<a href="#">WG958726</a>
Barium,Dissolved	39.9		1.70	5.00	1	03/07/2017 20:12	<a href="#">WG958726</a>
Cadmium,Dissolved	U		0.700	2.00	1	03/07/2017 20:12	<a href="#">WG958726</a>
Chromium,Dissolved	U		1.40	10.0	1	03/07/2017 20:12	<a href="#">WG958726</a>
Lead,Dissolved	U		1.90	5.00	1	03/07/2017 20:12	<a href="#">WG958726</a>
Selenium,Dissolved	U		7.40	10.0	1	03/07/2017 20:12	<a href="#">WG958726</a>
Silver,Dissolved	U		2.80	5.00	1	03/07/2017 20:12	<a href="#">WG958726</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	2440		31.6	100	1	03/09/2017 17:37	<a href="#">WG957976</a>
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-122		03/09/2017 17:37	<a href="#">WG957976</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		10.0	50.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Acrolein	U	J4	8.87	50.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Acrylonitrile	U		1.87	10.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Benzene	27.3		0.331	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromobenzene	U		0.352	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromodichloromethane	U		0.380	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromoform	U		0.469	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Bromomethane	U		0.866	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
n-Butylbenzene	6.25		0.361	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
sec-Butylbenzene	7.74		0.365	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
tert-Butylbenzene	U		0.399	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Carbon tetrachloride	U		0.379	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chlorobenzene	U		0.348	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chlorodibromomethane	U		0.327	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chloroethane	U		0.453	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chloroform	7.06		0.324	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Chloromethane	U		0.276	2.50	1	03/08/2017 19:46	<a href="#">WG959106</a>
2-Chlorotoluene	U		0.375	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
4-Chlorotoluene	U		0.351	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Dibromomethane	U		0.346	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.352	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,3-Dichloropropane	U		0.366	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
2,2-Dichloropropane	U		0.321	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Di-isopropyl ether	U		0.320	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Ethylbenzene	109		0.384	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Isopropylbenzene	54.8		0.326	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
p-Isopropyltoluene	1.71		0.350	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Methylene Chloride	U		1.00	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2017 19:46	<a href="#">WG959106</a>
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Naphthalene	5.46		1.00	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
n-Propylbenzene	155		0.349	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Styrene	U		0.307	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2-Tetrachloroethane	U		0.385	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Tetrachloroethene	U		0.372	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Toluene	4.09		0.412	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Trichloroethene	U		0.398	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,3-Trichloropropane	U		0.807	2.50	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,4-Trimethylbenzene	1.65		0.373	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,2,3-Trimethylbenzene	12.8		0.321	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
1,3,5-Trimethylbenzene	15.3		0.387	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Vinyl chloride	U		0.259	1.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
Xylenes, Total	71.5		1.06	3.00	1	03/08/2017 19:46	<a href="#">WG959106</a>
(S) Toluene-d8	107			80.0-120		03/08/2017 19:46	<a href="#">WG959106</a>
(S) Dibromofluoromethane	107			76.0-123		03/08/2017 19:46	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	89.0			80.0-120		03/08/2017 19:46	<a href="#">WG959106</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Diesel Range Organics (DRO)	599		82.5	250	1	03/10/2017 00:41	<a href="#">WG958334</a>	
Residual Range Organics (RRO)	U			165	500	1	03/10/2017 00:41	<a href="#">WG958334</a>
(S) o-Terphenyl	121				52.0-156		<a href="#">WG958334</a>	

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0140	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Acenaphthene	0.0719		0.0100	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Acenaphthylene	U		0.0120	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(a)anthracene	U		0.00410	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(a)pyrene	U		0.0116	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(b)fluoranthene	U		0.00212	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>
Benzo(g,h,i)perylene	U		0.00227	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Benzo(k)fluoranthene	U		0.0136	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>1</sup> Cp
Chrysene	U		0.0108	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>2</sup> Tc
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>3</sup> Ss
Fluoranthene	U		0.0157	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>4</sup> Cn
Fluorene	0.108		0.00850	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>5</sup> Sr
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>6</sup> Qc
Naphthalene	5.24		0.0198	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>7</sup> Gl
Phenanthrene	0.0229	<u>J</u>	0.00820	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>8</sup> Al
Pyrene	U		0.0117	0.0500	1	03/08/2017 12:14	<a href="#">WG958443</a>	<sup>9</sup> Sc
1-Methylnaphthalene	32.0		0.00821	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	
2-Methylnaphthalene	46.7		0.00902	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	
2-Chloronaphthalene	U		0.00647	0.250	1	03/08/2017 12:14	<a href="#">WG958443</a>	
(S) Nitrobenzene-d5	144			31.0-160		03/08/2017 12:14	<a href="#">WG958443</a>	
(S) 2-Fluorobiphenyl	96.8			48.0-148		03/08/2017 12:14	<a href="#">WG958443</a>	
(S) p-Terphenyl-d14	81.0			37.0-146		03/08/2017 12:14	<a href="#">WG958443</a>	



## Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury,Dissolved	U		0.0490	0.200	1	03/08/2017 19:00	<a href="#">WG958806</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> Al<sup>9</sup> Sc

## Metals (ICP) by Method 6010C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Arsenic,Dissolved	U		6.50	10.0	1	03/07/2017 20:25	<a href="#">WG958726</a>
Barium,Dissolved	42.1		1.70	5.00	1	03/07/2017 20:25	<a href="#">WG958726</a>
Cadmium,Dissolved	U		0.700	2.00	1	03/07/2017 20:25	<a href="#">WG958726</a>
Chromium,Dissolved	U		1.40	10.0	1	03/07/2017 20:25	<a href="#">WG958726</a>
Lead,Dissolved	U		1.90	5.00	1	03/07/2017 20:25	<a href="#">WG958726</a>
Selenium,Dissolved	U		7.40	10.0	1	03/07/2017 20:25	<a href="#">WG958726</a>
Silver,Dissolved	U		2.80	5.00	1	03/07/2017 20:25	<a href="#">WG958726</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	6120		31.6	100	1	03/09/2017 17:59	<a href="#">WG957976</a>
(S) a,a,a-Trifluorotoluene(FID)	126	J1		77.0-122		03/09/2017 17:59	<a href="#">WG957976</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		10.0	50.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Acrolein	U	J4	8.87	50.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Acrylonitrile	U		1.87	10.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Benzene	5.30		0.331	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromobenzene	U		0.352	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromodichloromethane	U		0.380	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromoform	U		0.469	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Bromomethane	U		0.866	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
n-Butylbenzene	14.4		0.361	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
sec-Butylbenzene	17.7		0.365	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
tert-Butylbenzene	U		0.399	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Carbon tetrachloride	U		0.379	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chlorobenzene	U		0.348	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chlorodibromomethane	U		0.327	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chloroethane	U		0.453	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chloroform	U		0.324	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Chloromethane	U		0.276	2.50	1	03/08/2017 20:09	<a href="#">WG959106</a>
2-Chlorotoluene	U		0.375	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
4-Chlorotoluene	U		0.351	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Dibromomethane	U		0.346	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.352	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,3-Dichloropropane	U		0.366	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
2,2-Dichloropropane	U		0.321	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Di-isopropyl ether	U		0.320	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Ethylbenzene	44.0		0.384	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Isopropylbenzene	51.6		0.326	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
p-Isopropyltoluene	4.38		0.350	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Methylene Chloride	U		1.00	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2017 20:09	<a href="#">WG959106</a>
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Naphthalene	21.2		1.00	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
n-Propylbenzene	190		0.349	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Styrene	U		0.307	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2-Tetrachloroethane	U		0.385	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Tetrachloroethene	U		0.372	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Toluene	3.13		0.412	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Trichloroethene	U		0.398	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,3-Trichloropropane	U		0.807	2.50	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,2,4-Trimethylbenzene	468		3.73	10.0	10	03/10/2017 05:58	<a href="#">WG959106</a>
1,2,3-Trimethylbenzene	134		0.321	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
1,3,5-Trimethylbenzene	181		0.387	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Vinyl chloride	U		0.259	1.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
Xylenes, Total	120		1.06	3.00	1	03/08/2017 20:09	<a href="#">WG959106</a>
(S) Toluene-d8	101			80.0-120		03/10/2017 05:58	<a href="#">WG959106</a>
(S) Toluene-d8	107			80.0-120		03/08/2017 20:09	<a href="#">WG959106</a>
(S) Dibromofluoromethane	98.0			76.0-123		03/10/2017 05:58	<a href="#">WG959106</a>
(S) Dibromofluoromethane	104			76.0-123		03/08/2017 20:09	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	80.4			80.0-120		03/08/2017 20:09	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	104			80.0-120		03/10/2017 05:58	<a href="#">WG959106</a>

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	688		165	500	2	03/08/2017 20:12	<a href="#">WG958334</a>
Residual Range Organics (RRO)	U		330	1000	2	03/08/2017 20:12	<a href="#">WG958334</a>
(S) o-Terphenyl	102			52.0-156		03/08/2017 20:12	<a href="#">WG958334</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0140	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>
Acenaphthene	0.138		0.0100	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>
Acenaphthylene	0.0246	J	0.0120	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>
Benz(a)anthracene	U		0.00410	0.0500	1	03/08/2017 12:37	<a href="#">WG958443</a>



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Benzo(a)pyrene	U		0.0116	0.0500	1	03/08/2017 12:37	WG958443	<sup>1</sup> Cp
Benzo(b)fluoranthene	U		0.00212	0.0500	1	03/08/2017 12:37	WG958443	<sup>2</sup> Tc
Benzo(g,h,i)perylene	U		0.00227	0.0500	1	03/08/2017 12:37	WG958443	<sup>3</sup> Ss
Benzo(k)fluoranthene	U		0.0136	0.0500	1	03/08/2017 12:37	WG958443	
Chrysene	U		0.0108	0.0500	1	03/08/2017 12:37	WG958443	
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	03/08/2017 12:37	WG958443	
Fluoranthene	U		0.0157	0.0500	1	03/08/2017 12:37	WG958443	
Fluorene	0.326		0.00850	0.0500	1	03/08/2017 12:37	WG958443	
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	03/08/2017 12:37	WG958443	
Naphthalene	16.5		0.0198	0.250	1	03/08/2017 12:37	WG958443	
Phenanthrene	0.162		0.00820	0.0500	1	03/08/2017 12:37	WG958443	<sup>4</sup> Cn
Pyrene	U		0.0117	0.0500	1	03/08/2017 12:37	WG958443	<sup>5</sup> Sr
1-Methylnaphthalene	37.7		0.00821	0.250	1	03/08/2017 12:37	WG958443	<sup>6</sup> Qc
2-Methylnaphthalene	57.1		0.00902	0.250	1	03/08/2017 12:37	WG958443	<sup>7</sup> Gl
2-Chloronaphthalene	U		0.00647	0.250	1	03/08/2017 12:37	WG958443	<sup>8</sup> Al
(S) Nitrobenzene-d5	145			31.0-160		03/08/2017 12:37	WG958443	
(S) 2-Fluorobiphenyl	84.0			48.0-148		03/08/2017 12:37	WG958443	
(S) p-Terphenyl-d14	69.1			37.0-146		03/08/2017 12:37	WG958443	<sup>9</sup> Sc



## Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury,Dissolved	U		0.0490	0.200	1	03/08/2017 19:03	<a href="#">WG958806</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Metals (ICP) by Method 6010C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Arsenic,Dissolved	U		6.50	10.0	1	03/07/2017 20:28	<a href="#">WG958726</a>
Barium,Dissolved	41.7		1.70	5.00	1	03/07/2017 20:28	<a href="#">WG958726</a>
Cadmium,Dissolved	U		0.700	2.00	1	03/07/2017 20:28	<a href="#">WG958726</a>
Chromium,Dissolved	U		1.40	10.0	1	03/07/2017 20:28	<a href="#">WG958726</a>
Lead,Dissolved	U		1.90	5.00	1	03/07/2017 20:28	<a href="#">WG958726</a>
Selenium,Dissolved	U		7.40	10.0	1	03/07/2017 20:28	<a href="#">WG958726</a>
Silver,Dissolved	U		2.80	5.00	1	03/07/2017 20:28	<a href="#">WG958726</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Gasoline Range Organics-NWTPH	5520		31.6	100	1	03/09/2017 18:21	<a href="#">WG957976</a>
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-122		03/09/2017 18:21	<a href="#">WG957976</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Acetone	U		10.0	50.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Acrolein	U	J4	8.87	50.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Acrylonitrile	U		1.87	10.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Benzene	5.40		0.331	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromobenzene	U		0.352	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromodichloromethane	U		0.380	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromoform	U		0.469	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Bromomethane	U		0.866	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
n-Butylbenzene	14.9		0.361	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
sec-Butylbenzene	17.3		0.365	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
tert-Butylbenzene	U		0.399	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Carbon tetrachloride	U		0.379	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chlorobenzene	U		0.348	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chlorodibromomethane	U		0.327	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chloroethane	U		0.453	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chloroform	U		0.324	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Chloromethane	U		0.276	2.50	1	03/08/2017 20:32	<a href="#">WG959106</a>
2-Chlorotoluene	U		0.375	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
4-Chlorotoluene	U		0.351	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dibromoethane	U		0.381	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Dibromomethane	U		0.346	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Dichlorodifluoromethane	U		0.551	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1-Dichloroethane	U		0.259	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dichloroethane	U		0.361	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1-Dichloroethene	U		0.398	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2-Dichloropropane	U		0.306	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	U		0.352	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,3-Dichloropropane	U		0.366	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
2,2-Dichloropropane	U		0.321	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Di-isopropyl ether	U		0.320	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Ethylbenzene	43.4		0.384	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Isopropylbenzene	51.2		0.326	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
p-Isopropyltoluene	4.35		0.350	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
2-Butanone (MEK)	U		3.93	10.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Methylene Chloride	U		1.00	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/08/2017 20:32	<a href="#">WG959106</a>
Methyl tert-butyl ether	U		0.367	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Naphthalene	21.8		1.00	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
n-Propylbenzene	187		0.349	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Styrene	U		0.307	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2-Tetrachloroethane	U		0.385	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Tetrachloroethene	U		0.372	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Toluene	3.18		0.412	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,1-Trichloroethane	U		0.319	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Trichloroethene	U		0.398	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Trichlorofluoromethane	U		1.20	5.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,3-Trichloropropane	U		0.807	2.50	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,2,4-Trimethylbenzene	509		3.73	10.0	10	03/10/2017 06:14	<a href="#">WG959106</a>
1,2,3-Trimethylbenzene	139		0.321	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
1,3,5-Trimethylbenzene	181		0.387	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Vinyl chloride	U		0.259	1.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
Xylenes, Total	118		1.06	3.00	1	03/08/2017 20:32	<a href="#">WG959106</a>
(S) Toluene-d8	102			80.0-120		03/10/2017 06:14	<a href="#">WG959106</a>
(S) Toluene-d8	107			80.0-120		03/08/2017 20:32	<a href="#">WG959106</a>
(S) Dibromofluoromethane	96.6			76.0-123		03/10/2017 06:14	<a href="#">WG959106</a>
(S) Dibromofluoromethane	103			76.0-123		03/08/2017 20:32	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	78.5	J2		80.0-120		03/08/2017 20:32	<a href="#">WG959106</a>
(S) 4-Bromofluorobenzene	105			80.0-120		03/10/2017 06:14	<a href="#">WG959106</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	771		165	500	2	03/08/2017 20:28	<a href="#">WG958334</a>
Residual Range Organics (RRO)	U		330	1000	2	03/08/2017 20:28	<a href="#">WG958334</a>
(S) o-Terphenyl	93.6			52.0-156		03/08/2017 20:28	<a href="#">WG958334</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0140	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>
Acenaphthene	0.144		0.0100	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>
Acenaphthylene	0.0256	J	0.0120	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>
Benz(a)anthracene	U		0.00410	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Benzo(a)pyrene	U		0.0116	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	<sup>1</sup> Cp
Benzo(b)fluoranthene	U		0.00212	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	<sup>2</sup> Tc
Benzo(g,h,i)perylene	U		0.00227	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	<sup>3</sup> Ss
Benzo(k)fluoranthene	U		0.0136	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	
Chrysene	U		0.0108	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	
Dibenz(a,h)anthracene	U		0.00396	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	
Fluoranthene	U		0.0157	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	
Fluorene	0.339		0.00850	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	
Naphthalene	18.3		0.0198	0.250	1	03/08/2017 13:00	<a href="#">WG958443</a>	
Phenanthrene	0.160		0.00820	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	<sup>6</sup> Qc
Pyrene	U		0.0117	0.0500	1	03/08/2017 13:00	<a href="#">WG958443</a>	
1-Methylnaphthalene	40.2		0.00821	0.250	1	03/08/2017 13:00	<a href="#">WG958443</a>	
2-Methylnaphthalene	60.8		0.00902	0.250	1	03/08/2017 13:00	<a href="#">WG958443</a>	<sup>7</sup> GI
2-Chloronaphthalene	U		0.00647	0.250	1	03/08/2017 13:00	<a href="#">WG958443</a>	
(S) Nitrobenzene-d5	158			31.0-160		03/08/2017 13:00	<a href="#">WG958443</a>	<sup>8</sup> AI
(S) 2-Fluorobiphenyl	98.3			48.0-148		03/08/2017 13:00	<a href="#">WG958443</a>	
(S) p-Terphenyl-d14	68.6			37.0-146		03/08/2017 13:00	<a href="#">WG958443</a>	<sup>9</sup> SC



## Method Blank (MB)

(MB) R3201928-1 03/08/17 17:52

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Mercury,Dissolved	U		0.0490	0.200

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201928-2 03/08/17 17:54 • (LCSD) R3201928-3 03/08/17 17:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Mercury,Dissolved	3.00	3.20	3.47	107	116	80-120			8	20

## L894310-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L894310-03 03/08/17 17:59 • (MS) R3201928-4 03/08/17 18:01 • (MSD) R3201928-5 03/08/17 18:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury,Dissolved	3.00	U	4.04	3.97	135	132	1	75-125	J5	J5	2	20



## Method Blank (MB)

(MB) R3201617-1 03/07/17 20:04

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Arsenic,Dissolved	U		6.50	10.0
Barium,Dissolved	U		1.70	5.00
Cadmium,Dissolved	U		0.700	2.00
Chromium,Dissolved	U		1.40	10.0
Lead,Dissolved	U		1.90	5.00
Selenium,Dissolved	U		7.40	10.0
Silver,Dissolved	U		2.80	5.00

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201617-2 03/07/17 20:07 • (LCSD) R3201617-3 03/07/17 20:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	1000	1010	1010	101	101	80-120			1	20
Barium,Dissolved	1000	1010	1010	101	101	80-120			0	20
Cadmium,Dissolved	1000	1010	1010	101	101	80-120			0	20
Chromium,Dissolved	1000	1040	1030	104	103	80-120			0	20
Lead,Dissolved	1000	1030	1020	103	102	80-120			1	20
Selenium,Dissolved	1000	1020	1010	102	101	80-120			1	20
Silver,Dissolved	200	194	193	97	96	80-120			0	20

## L893941-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893941-03 03/07/17 20:12 • (MS) R3201617-5 03/07/17 20:17 • (MSD) R3201617-6 03/07/17 20:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	1000	U	1030	1020	103	102	1	75-125		1	20
Barium,Dissolved	1000	39.9	1030	1020	99	98	1	75-125		1	20
Cadmium,Dissolved	1000	U	1010	1000	101	100	1	75-125		1	20
Chromium,Dissolved	1000	U	1020	1010	102	101	1	75-125		1	20
Lead,Dissolved	1000	U	1040	1020	104	102	1	75-125		1	20
Selenium,Dissolved	1000	U	1020	1010	102	101	1	75-125		1	20
Silver,Dissolved	200	U	193	191	96	95	1	75-125		1	20

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3202669-3 03/09/17 01:13

Analyte	MB Result ug/l	<u>MB Qualifier</u>	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) <i>a,a,a-Trifluorotoluene(FID)</i>	95.0			77.0-122

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202669-1 03/09/17 00:07 • (LCSD) R3202669-2 03/09/17 00:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5670	5560	103	101	72.0-134			1.97	20
(S) <i>a,a,a-Trifluorotoluene(FID)</i>				105	105	77.0-122				

## L893938-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L893938-01 03/09/17 08:31 • (MS) R3202669-4 03/09/17 08:53 • (MSD) R3202669-5 03/09/17 09:16

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	2680	7670	9870	90.7	131	1	23.0-159		J3	25.1	20
(S) <i>a,a,a-Trifluorotoluene(FID)</i>					111	109		77.0-122				



## Method Blank (MB)

(MB) R3202017-3 03/08/17 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l	
Acetone	U		10.0	50.0	<sup>1</sup> Cp
Acrolein	U		8.87	50.0	<sup>2</sup> Tc
Acrylonitrile	U		1.87	10.0	<sup>3</sup> Ss
Benzene	U		0.331	1.00	<sup>4</sup> Cn
Bromobenzene	U		0.352	1.00	<sup>5</sup> Sr
Bromodichloromethane	U		0.380	1.00	<sup>6</sup> Qc
Bromoform	U		0.469	1.00	<sup>7</sup> Gl
Bromomethane	U		0.866	5.00	<sup>8</sup> Al
n-Butylbenzene	U		0.361	1.00	<sup>9</sup> Sc
sec-Butylbenzene	U		0.365	1.00	
tert-Butylbenzene	U		0.399	1.00	
Carbon tetrachloride	U		0.379	1.00	
Chlorobenzene	U		0.348	1.00	
Chlorodibromomethane	U		0.327	1.00	
Chloroethane	U		0.453	5.00	
Chloroform	U		0.324	5.00	
Chloromethane	U		0.276	2.50	
2-Chlorotoluene	U		0.375	1.00	
4-Chlorotoluene	U		0.351	1.00	
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	
1,2-Dibromoethane	U		0.381	1.00	
Dibromomethane	U		0.346	1.00	
1,2-Dichlorobenzene	U		0.349	1.00	
1,3-Dichlorobenzene	U		0.220	1.00	
1,4-Dichlorobenzene	U		0.274	1.00	
Dichlorodifluoromethane	U		0.551	5.00	
1,1-Dichloroethane	U		0.259	1.00	
1,2-Dichloroethane	U		0.361	1.00	
1,1-Dichloroethene	U		0.398	1.00	
cis-1,2-Dichloroethene	U		0.260	1.00	
trans-1,2-Dichloroethene	U		0.396	1.00	
1,2-Dichloropropane	U		0.306	1.00	
1,1-Dichloropropene	U		0.352	1.00	
1,3-Dichloropropene	U		0.366	1.00	
cis-1,3-Dichloropropene	U		0.418	1.00	
trans-1,3-Dichloropropene	U		0.419	1.00	
2,2-Dichloropropane	U		0.321	1.00	
Di-isopropyl ether	U		0.320	1.00	
Ethylbenzene	U		0.384	1.00	
Hexachloro-1,3-butadiene	U		0.256	1.00	



## Method Blank (MB)

(MB) R3202017-3 03/08/17 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l								
Isopropylbenzene	U		0.326	1.00								
p-Isopropyltoluene	U		0.350	1.00								
2-Butanone (MEK)	U		3.93	10.0								
Methylene Chloride	U		1.00	5.00								
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0								
Methyl tert-butyl ether	U		0.367	1.00								
Naphthalene	U		1.00	5.00								
n-Propylbenzene	U		0.349	1.00								
Styrene	U		0.307	1.00								
1,1,2-Tetrachloroethane	U		0.385	1.00								
1,1,2,2-Tetrachloroethane	U		0.130	1.00								
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00								
Tetrachloroethene	U		0.372	1.00								
Toluene	U		0.412	1.00								
1,2,3-Trichlorobenzene	U		0.230	1.00								
1,2,4-Trichlorobenzene	U		0.355	1.00								
1,1,1-Trichloroethane	U		0.319	1.00								
1,1,2-Trichloroethane	U		0.383	1.00								
1,2,3-Trimethylbenzene	U		0.321	1.00								
Trichloroethene	U		0.398	1.00								
Trichlorofluoromethane	U		1.20	5.00								
1,2,3-Trichloropropane	U		0.807	2.50								
1,2,4-Trimethylbenzene	U		0.373	1.00								
1,3,5-Trimethylbenzene	U		0.387	1.00								
Vinyl chloride	U		0.259	1.00								
Xylenes, Total	U		1.06	3.00								
(S) Toluene-d8	98.2			80.0-120								
(S) Dibromofluoromethane	108			76.0-123								
(S) 4-Bromofluorobenzene	94.6			80.0-120								

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202017-1 03/08/17 15:10 • (LCSD) R3202017-2 03/08/17 15:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Acetone	125	173	182	138	146	10.0-160			5.53	23
Acrolein	125	269	278	215	223	10.0-160	J4	J4	3.26	20
Benzene	25.0	26.8	27.4	107	110	69.0-123			2.21	20
Acrylonitrile	125	127	133	101	107	60.0-142			5.18	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202017-1 03/08/17 15:10 • (LCSD) R3202017-2 03/08/17 15:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Bromobenzene	25.0	25.5	25.5	102	102	79.0-120			0.230	20
Bromodichloromethane	25.0	24.6	24.7	98.2	98.6	76.0-120			0.400	20
Bromoform	25.0	25.9	26.0	104	104	67.0-132			0.130	20
Bromomethane	25.0	30.8	30.5	123	122	18.0-160			1.02	20
n-Butylbenzene	25.0	27.1	28.2	109	113	72.0-126			3.82	20
sec-Butylbenzene	25.0	26.6	26.5	106	106	74.0-121			0.370	20
tert-Butylbenzene	25.0	27.0	26.9	108	107	75.0-122			0.610	20
Carbon tetrachloride	25.0	26.7	27.3	107	109	63.0-122			2.01	20
Chlorobenzene	25.0	28.3	28.4	113	114	79.0-121			0.250	20
Chlorodibromomethane	25.0	27.9	27.5	112	110	75.0-125			1.28	20
Chloroethane	25.0	33.3	33.6	133	135	47.0-152			0.970	20
Chloroform	25.0	26.2	26.5	105	106	72.0-121			1.26	20
Chloromethane	25.0	23.2	24.4	92.8	97.8	48.0-139			5.24	20
2-Chlorotoluene	25.0	27.4	27.0	110	108	74.0-122			1.56	20
4-Chlorotoluene	25.0	27.1	26.9	108	108	79.0-120			0.620	20
1,2-Dibromo-3-Chloropropane	25.0	25.4	27.2	102	109	64.0-127			6.87	20
1,2-Dibromoethane	25.0	27.2	27.1	109	108	77.0-123			0.340	20
Dibromomethane	25.0	26.1	26.2	104	105	78.0-120			0.220	20
1,2-Dichlorobenzene	25.0	27.6	28.3	110	113	80.0-120			2.76	20
1,3-Dichlorobenzene	25.0	26.5	26.3	106	105	72.0-123			0.610	20
1,4-Dichlorobenzene	25.0	27.1	27.8	108	111	77.0-120			2.52	20
Dichlorodifluoromethane	25.0	34.3	34.5	137	138	49.0-155			0.780	20
1,1-Dichloroethane	25.0	26.3	26.5	105	106	70.0-126			0.640	20
1,2-Dichloroethane	25.0	27.5	27.9	110	112	67.0-126			1.48	20
1,1-Dichloroethene	25.0	26.9	27.1	108	109	64.0-129			0.770	20
cis-1,2-Dichloroethene	25.0	26.1	26.5	104	106	73.0-120			1.64	20
trans-1,2-Dichloroethene	25.0	27.1	27.7	109	111	71.0-121			1.87	20
1,2-Dichloropropane	25.0	25.8	25.5	103	102	75.0-125			1.02	20
1,1-Dichloropropene	25.0	28.2	28.7	113	115	71.0-129			1.51	20
1,3-Dichloropropane	25.0	27.4	27.5	110	110	80.0-121			0.0300	20
cis-1,3-Dichloropropene	25.0	27.8	27.6	111	111	79.0-123			0.620	20
trans-1,3-Dichloropropene	25.0	25.8	26.3	103	105	74.0-127			2.02	20
2,2-Dichloropropane	25.0	25.6	25.9	103	103	60.0-125			0.850	20
Di-isopropyl ether	25.0	23.8	24.5	95.3	98.0	59.0-133			2.81	20
Ethylbenzene	25.0	28.0	27.5	112	110	77.0-120			1.64	20
Hexachloro-1,3-butadiene	25.0	27.3	27.7	109	111	64.0-131			1.46	20
Isopropylbenzene	25.0	27.5	27.2	110	109	75.0-120			1.11	20
p-Isopropyltoluene	25.0	27.8	27.8	111	111	74.0-126			0.0100	20
2-Butanone (MEK)	125	150	155	120	124	37.0-158			3.55	20
Methyl tert-butyl ether	25.0	23.8	24.5	95.3	98.1	64.0-123			2.86	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202017-1 03/08/17 15:10 • (LCSD) R3202017-2 03/08/17 15:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methylene Chloride	25.0	24.2	24.9	97.0	99.8	66.0-121			2.84	20
4-Methyl-2-pentanone (MIBK)	125	136	140	109	112	59.0-143			2.32	20
Naphthalene	25.0	26.2	27.6	105	110	62.0-128			5.15	20
n-Propylbenzene	25.0	27.7	27.4	111	109	79.0-120			1.30	20
Styrene	25.0	28.4	28.3	114	113	78.0-124			0.550	20
1,1,1,2-Tetrachloroethane	25.0	25.8	25.3	103	101	75.0-122			2.00	20
1,1,2,2-Tetrachloroethane	25.0	24.4	24.1	97.8	96.3	71.0-122			1.49	20
Tetrachloroethene	25.0	27.5	27.3	110	109	70.0-127			0.770	20
Toluene	25.0	26.0	26.1	104	104	77.0-120			0.260	20
1,1,2-Trichlorotrifluoroethane	25.0	30.8	31.3	123	125	61.0-136			1.43	20
1,2,3-Trichlorobenzene	25.0	25.9	26.5	104	106	61.0-133			2.10	20
1,2,4-Trichlorobenzene	25.0	26.0	26.9	104	108	69.0-129			3.51	20
1,1,1-Trichloroethane	25.0	27.5	27.8	110	111	68.0-122			1.12	20
1,1,2-Trichloroethane	25.0	26.4	26.2	106	105	78.0-120			0.730	20
Trichloroethene	25.0	27.4	27.7	110	111	78.0-120			0.850	20
Trichlorofluoromethane	25.0	33.5	33.6	134	135	56.0-137			0.590	20
1,2,3-Trichloropropane	25.0	26.0	26.1	104	105	72.0-124			0.490	20
1,2,3-Trimethylbenzene	25.0	27.6	27.9	110	112	75.0-120			1.43	20
1,2,4-Trimethylbenzene	25.0	27.4	27.4	110	110	75.0-120			0.140	20
1,3,5-Trimethylbenzene	25.0	26.6	26.5	107	106	75.0-120			0.390	20
Xylenes, Total	75.0	82.3	81.3	110	108	77.0-120			1.22	20
Vinyl chloride	25.0	31.6	31.3	126	125	64.0-133			1.05	20
(S) Toluene-d8				102	102	80.0-120				
(S) Dibromofluoromethane				104	106	76.0-123				
(S) 4-Bromofluorobenzene				98.7	97.2	80.0-120				

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Method Blank (MB)

(MB) R3202100-1 03/08/17 00:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		83.3	250
Residual Range Organics (RRO)	U		167	500
(S) o-Terphenyl	124			52.0-156

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3202100-2 03/08/17 00:50 • (LCSD) R3202100-3 03/08/17 01:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Diesel Range Organics (DRO)	750	1040	1080	139	144	50.0-150			3.11	20
Residual Range Organics (RRO)	750	808	859	108	115	50.0-150			6.16	20
(S) o-Terphenyl			125	125		52.0-156				



## Method Blank (MB)

(MB) R3201844-3 03/08/17 04:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l								
Anthracene	U		0.0140	0.0500								
Acenaphthene	U		0.0100	0.0500								
Acenaphthylene	U		0.0120	0.0500								
Benzo(a)anthracene	0.00642	J	0.00410	0.0500								
Benzo(a)pyrene	U		0.0116	0.0500								
Benzo(b)fluoranthene	U		0.00212	0.0500								
Benzo(g,h,i)perylene	U		0.00227	0.0500								
Benzo(k)fluoranthene	U		0.0136	0.0500								
Chrysene	U		0.0108	0.0500								
Dibenz(a,h)anthracene	U		0.00396	0.0500								
Fluoranthene	U		0.0157	0.0500								
Fluorene	U		0.00850	0.0500								
Indeno(1,2,3-cd)pyrene	U		0.0148	0.0500								
Naphthalene	0.0213	J	0.0198	0.250								
Phenanthrene	U		0.00820	0.0500								
Pyrene	U		0.0117	0.0500								
1-Methylnaphthalene	U		0.00821	0.250								
2-Methylnaphthalene	U		0.00902	0.250								
2-Chloronaphthalene	U		0.00647	0.250								
(S) Nitrobenzene-d5	147			31.0-160								
(S) 2-Fluorobiphenyl	97.9			48.0-148								
(S) p-Terphenyl-d14	90.4			37.0-146								

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201844-1 03/08/17 03:30 • (LCSD) R3201844-2 03/08/17 03:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Anthracene	2.00	1.77	1.89	88.7	94.6	64.0-142			6.41	20
Acenaphthene	2.00	1.97	1.89	98.5	94.5	66.0-132			4.20	20
Acenaphthylene	2.00	1.90	1.81	94.9	90.7	65.0-132			4.47	20
Benzo(a)anthracene	2.00	2.07	2.01	104	101	59.0-134			2.83	20
Benzo(a)pyrene	2.00	2.08	2.08	104	104	61.0-145		0.0100	20	
Benzo(b)fluoranthene	2.00	2.18	1.93	109	96.4	57.0-136			12.4	20
Benzo(g,h,i)perylene	2.00	1.92	1.82	95.9	91.1	54.0-140			5.20	20
Benzo(k)fluoranthene	2.00	2.14	2.00	107	100	57.0-141			6.35	20
Chrysene	2.00	1.99	1.93	99.7	96.7	63.0-140			3.04	20
Dibenz(a,h)anthracene	2.00	1.96	1.81	98.1	90.6	49.0-141			8.03	20
Fluoranthene	2.00	2.13	2.28	107	114	65.0-143			6.57	20



## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201844-1 03/08/17 03:30 • (LCSD) R3201844-2 03/08/17 03:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.06	2.02	103	101	64.0-129			1.91	20
Indeno(1,2,3-cd)pyrene	2.00	1.97	1.85	98.4	92.5	53.0-141			6.16	20
Naphthalene	2.00	1.92	1.82	96.0	90.8	68.0-129			5.58	20
Phenanthrene	2.00	1.91	1.88	95.3	93.9	62.0-132			1.40	20
Pyrene	2.00	1.74	1.84	86.8	92.0	58.0-156			5.85	20
1-Methylnaphthalene	2.00	2.21	2.07	110	103	68.0-137			6.55	20
2-Methylnaphthalene	2.00	2.03	1.91	102	95.7	68.0-134			6.08	20
2-Chloronaphthalene	2.00	1.85	1.82	92.7	90.8	65.0-129			2.11	20
(S) Nitrobenzene-d5				151	128	31.0-160				
(S) 2-Fluorobiphenyl				99.1	95.1	48.0-148				
(S) p-Terphenyl-d14				93.4	92.3	37.0-146				

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc



## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

## Qualifier      Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> GI<sup>8</sup> AI<sup>9</sup> Sc



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\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey—NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio—VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

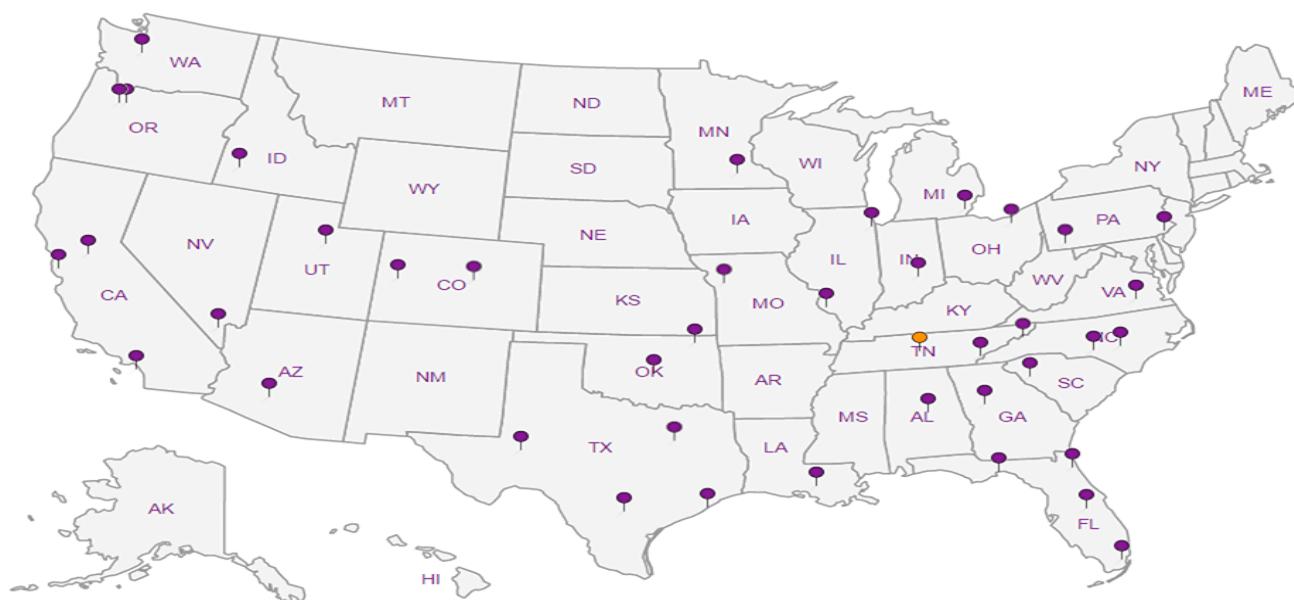
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> GI
- <sup>8</sup> Al
- <sup>9</sup> Sc





**ESC LAB SCIENCES**  
**Cooler Receipt Form**

Client:	Kenya Wat	SDG#:	893941	
Cooler Received/Opened On:	3/4 /17	Temperature:	21.7	
Received By:	Nadiar Yakob			
Signature:	nadiar yacob			
Receipt Check List		NP	Yes	No
COC Seal Present / Intact?		/	/	/
COC Signed / Accurate?		/	/	/
Bottles arrive intact?		/	/	/
Correct bottles used?		/	/	/
Sufficient volume sent?		/	/	/
If Applicable				
VOA Zero headspace?		/	/	/
Preservation Correct / Checked?				

## **Appendix I**

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### **Data Validation Summary**

**DATA VALIDATION SUMMARY – L893941**  
**MARCH 2017 SAMPLING EVENT**  
**Midas Fauntleroy**

Laboratory Report included in Data Validation	Report Date	Sample IDs
ESC L893941  Includes: NWTPHGX, VOCs, RCRA total metals, NWTPHDX, SVOCs, and PCBs  A revised report was issued for the water results to report the water analytical results to the method detection limit.	15 March 2017  17 April 2017	Soil Samples: B-1 (11.0-12.0), B-1 (19.0-20.0), B-2 (13.0-14.0), B-2 (19.0-20.0), B-3 (6.0-7.0), B-3 (14.0-15.0), B-4 (6.0-7.0), B-4 (11.0-12.0), B-5 (12.0-13.0), B-5 (19.0-20.0)  Aqueous Samples: B-1, B-5  Field Duplicates: DUP-1-SOIL, DUP-1-GW

Criteria	(Yes or No)	Comment
<u>Chain-of-Custody</u> – Chain-of-custody protocol followed?	Yes	
<u>Temperature Blank</u> – Sample temperature criteria met?	Yes	Samples arrived at a temperature of 2.7 degrees Celsius (°C), which is within the recommended temperature of 4°C ± 2°C.
<u>Holding times</u> – Samples analyzed within specified holding time?	Yes	
<u>Laboratory method blank samples</u> – Analytes present in method blank samples?	Yes	See Note 1 below.
<u>Field/Equipment blank samples</u> – Analytes present in field/equipment blank samples?	Not applicable	No field/equipment blank samples were submitted with this batch of samples.
<u>Trip blank samples</u> – Analytes present in trip blank samples?	Not applicable	No trip blank samples were submitted with this batch of samples.
<u>Matrix spikes/matrix spike duplicate samples</u> – Control limits met?	No	See Note 2 below.
<u>Surrogate percent recoveries</u> – Control limits met?	Yes	Note: For surrogates recoveries qualified by the laboratory as J7, the assessment of these surrogates is not applicable given the sample was analyzed at a dilution.
<u>Laboratory control sample</u> – Control limits met?	No	See Note 3 below.
<u>Laboratory duplicate samples (if applicable)</u> – Control limits met?	Not applicable	No laboratory duplicate samples were analyzed with this batch of samples.
<u>Field duplicate samples (if submitted)</u> – Relative percent differences within control limits?	No	Sample DUP-1-SOIL is a duplicate of sample B-5 (12.0-13.0), and sample DUP-1-GW is a duplicate of sample B-5. Relative percent differences for DUP-1-GW/B-5 were less than 25 percent. See Note 4 below.

**NOTES:**

1. Naphthalene and benzo(a)anthracene were detected in the SVOC method blank sample for batch WG958443 at concentrations of 0.0213J and 0.00642J µg/L, respectively. As benzo(a)anthracene was not detected in the associated samples and naphthalene was detected at a concentration greater than the method reporting limit and the method blank concentration, no action was taken.
2. The percent recovery for mercury in the matrix spike samples for batch WG958806 was above the laboratory control limit. As the spiked sample was not a site-specific sample and mercury was not detected in the samples associated with this batch, no action was taken.

**DATA VALIDATION SUMMARY – L893941  
MARCH 2017 SAMPLING EVENT  
Midas Fauntleroy**

The relative percent differences for several of the PAHs for the SVOC matrix spike samples [sample B-1 (19.0-20.0)] for batch WG959087 were above the laboratory control limits. As the percent recoveries of these compounds for the matrix spike samples were within the control limits, no action was taken.

The percent recovery of chloroethane in the matrix spike duplicate sample for batch WG959350 was below the laboratory control limit; the relative percent difference for trichlorofluoromethane was also outside the control limit. As the the spiked sample was not a site-specific sample, no action was taken.

The relative percent difference for gasoline range organics in the matrix spike samples for batch WG957976 was above the laboratory control limit. As the the spiked sample was not a site-specific sample and percent recovery of gasoline range organics for the individual matrix spike samples was within the control limit, no action was taken.

The relative percent difference for xylenes in the BTEX matrix spike samples for batch WG958676 was above the laboratory control limit. As the the spiked sample was not a site-specific sample and percent recovery of xylene for the individual matrix spike samples was within the control limit, no action was taken.

The percent recovery of toluene in the VOC matrix spike sample for batch WG959355 was below the laboratory control limit; the relative percent differences for the BTEX compounds were also outside the control limits. As the the spiked sample was not a site-specific sample, no action was taken.

3. The percent recovery of acrolein in the VOC laboratory control samples for batch WG959106 was above the laboratory control limit. As acrolein was not detected in the associated samples, no action was taken.
4. The relative percent differences for PCB 1260 and PCB 1016 for the PCB laboratory control samples for batch WG958814 were above the laboratory control limits. As the percent recoveries of these compounds in the individual laboratory control samples were within the control limits, no action was taken.
4. The relative percent differences for several compounds for the soil duplicate [DUP-1-SOIL/B-5 (12.0-13.0] were above the control limit of 50 percent for soil. In some instances a compound was detected in the duplicate sample but not in the parent sample. Given the non-homogeneity of soils, high relative percent differences are not uncommon. No action is taken on duplicate sample results alone.

**SUMMARY**

Overall, the findings with respect to the quality assurance/quality control (QA/QC) data do not adversely affect the use of the analytical results.