



May 15, 2017
Project Number 1781400447

Mr. Brandon Cooper
Project Manager
Ogden City Corporation
2549 Washington Boulevard, Suite 420
Ogden, Utah 84401

**Re: Draft
Limited Phase II Environmental Site Assessment
Swift Property
390 West Exchange Road
Ogden, Utah**

Dear Mr. Cooper:

Amec Foster Wheeler Environment & Infrastructure, Inc. is pleased to submit this report presenting the results of the Limited Phase II Environmental Site Assessment for the Swift Property located in Ogden, Utah. This report includes discussions concerning our investigative methods, the scope of work performed, and the identification of potentially hazardous materials or conditions found during our investigation.

We appreciate the opportunity to have served you on this project. If you have any questions or desire further information, please contact the undersigned at (801) 999-2027 or at scott.wheeler2@amecfw.com

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

A handwritten signature in blue ink, appearing to read "Angie Chadd".

Angie Chadd,
Environmental Geologist

A handwritten signature in blue ink, appearing to read "Scott Wheeler".

Scott Wheeler, PG
Environmental Group Manager



**DRAFT
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
SWIFT PROPERTY
390 WEST EXCHANGE ROAD
OGDEN, UTAH**

PREPARED FOR:

Ogden City Corporation
2549 Washington Boulevard, Suite 420
Ogden, Utah 84401

PREPARED BY:

Amec Foster Wheeler Environment & Infrastructure, Inc.
9865 South 500 West
Sandy, Utah 84070

Project Number: 1781400447
May 15, 2017

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
1.1 OBJECTIVE.....	1
2.0 PROPERTY DEVELOPMENT AND HISTORY	1
3.0 FIELD ACTIVITIES	2
3.1 SAMPLING METHODOLOGIES.....	3
3.2 INVESTIGATIVE DERIVED WASTE	4
4.0 DEVIATIONS.....	4
5.0 GEOLOGY, HYDROGEOLOGY, SOILS, AND METEOROLOGY	4
5.1 GEOLOGY	4
5.2 HYDROGEOLOGY.....	5
5.3 SOILS.....	5
5.4 METEOROLOGY.....	5
6.0 ANALYTICAL RESULTS	5
6.1 SOIL VOC AND TPH-GRO ANALYTICAL RESULTS.....	6
6.2 SOIL SVOC AND TPH-DRO ANALYTICAL RESULTS.....	6
6.3 SOIL RCRA 8 METALS ANALYTICAL RESULTS	6
6.4 GROUNDWATER VOC AND TOH-GRO ANALYTICAL RESULTS	6
6.5 GROUNDWATER SVOC AND TPH-DRO ANALYTICAL RESULTS.....	6
6.6 GROUNDWATER METALS ANALYTICAL RESULTS.....	7
7.0 POTENTIAL SOURCE ANALYSIS	7
7.1 SOIL EXPOSURE PATHWAY	7
7.2 GROUNDWATER EXPOSURE PATHWAY.....	7
7.3 SURFACE WATER EXPOSURE PATHWAY.....	7
7.4 AIR EXPOSURE PATHWAY	7
7.5 UTILITY EXPOSURE PATHWAY	8
8.0 SUMMARY	8
9.0 CONCLUSIONS AND RECOMMENDATIONS	8
10.0 REFERENCES	9
11.0 LIMITATIONS	9

LIST OF TABLES

Table 1	Soil VOC and TPH-GRO Analytical Results
Table 2	Soil SVOC and TPH-DRO Analytical Results
Table 3	Soil RCRA 8 Metals Analytical Results
Table 4	Groundwater VOC and TPH-GRO Analytical Results
Table 5	Groundwater SVOC and TPH-DRO Analytical Results
Table 6	Groundwater Dissolved RCRA 8 Metals Analytical Results

LIST OF FIGURES

Figure 1	Site Vicinity Map
Figure 2	Sample Location Map
Figure 3	Soil Constituent Concentrations Exceeding EPA RSLs

LIST OF APPENDICES

Appendix A	Soil Boring Logs
Appendix B	Laboratory Analytical Report(s)



DRAFT
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
SWIFT PROPERTY
390 WEST EXCHANGE ROAD
OGDEN, UTAH

1.0 INTRODUCTION

Amec Foster Wheeler Environmental & Infrastructure, Inc. (Amec Foster Wheeler) was engaged to complete a Phase II Environmental Site Assessment (ESA) at the Swift Property ("Site") located at 390 West Exchange Road in Ogden, Utah. The Limited Phase II ESA was conducted at the request of Ogden City Municipal Corporation (OCMC) to evaluate subsurface magnitude and extent of possible impacts to soil and groundwater on the property. A Phase I Environmental Site Assessment was conducted on the property in 2010 by Amec Foster Wheeler.

1.1 OBJECTIVE

The objective of the Limited Phase II ESA was to evaluate the subsurface soil and groundwater conditions at the Site. It should be recognized that the purpose of any environmental assessment is to reasonably evaluate the potential for adverse impacts from past practices at a given property.

The analyses, conclusions, and recommendations contained in this report are based on data obtained from a limited exploration program indicating subsurface environmental conditions only at the specific locations where samples were obtained, only at the time they were obtained, and only to the depths sampled. Samples cannot be relied upon to accurately reflect the variations that may exist between sampling locations. As such, the concentrations of contaminants of concern (COC) in un-sampled locations may differ from those concentrations identified in samples collected and analyzed. This report provides data regarding the conditions only at the time of the assessment.

2.0 PROPERTY DEVELOPMENT AND HISTORY

The Site consists of approximately 7.31 acres and contains two buildings. The property was developed in the 1930s as a meat processing facility associated with the Historic Ogden Stock Yard. Through the years the property has been utilized by the Swift & Co., General Tire, industrial research, storage, and Smith & Edwards. The last owner has been Smith & Edwards and it appears that they have owned the property since at least 1965.

There are two buildings on the property; the Smith & Edwards building to the north (approximately 37,000 square feet) and the Industrial Research building to the south (approximately 24,000 square feet). The buildings appear to be two to five stories tall. The north side of the Smith & Edwards building was visible from the Weber River Trail and appeared to have fire damage on the northwest side. The remainder of the property is utilized as a storage yard for industrial equipment. Vegetation on the property consisted of sparse native weeds, grasses, and trees.

The exterior area of the property is asphalt and concrete paved. A 500-gallon used oil aboveground storage tank (AST) was located on the south side of the building and a fenced area on the north side of the building is used for parts storage. Staining was observed in the vicinity of the outside parts storage area.

3.0 FIELD ACTIVITIES

Field work was conducted on April 19, 2017. A total of eight sampling locations were investigated at the Site and included soil and groundwater sampling. Sampling locations are shown on Figure 2. Drilling activities were completed by Earth Probe Environmental Services using direct push technology.

A total of 15 soil samples and four groundwater samples were collected and submitted for laboratory analysis during the April 2017 field activities. Due to accessibility issues on-site from equipment, containers, and scrap metal stored within the property yard, boring locations were placed where there was access and may not define the extent of contamination. Table 3.1 below provides details regarding the sample locations.

Table 3.1 Soil Borings

Sample Location	Depth of Boring (feet)	Rationale	Sample Types
SPB-1	15	Located in north of the main building. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater
SPB-2	15	Located near the west property boundary, just north of the main building. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater
SPB-3	20	Located in the northeast corner area of the Site. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater
SPB-4	20	Located in the northeast area of the Site. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater
SPB-5	20	Located near the east property boundary near the building. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater
SPB-6	20	Located centrally in the south area of the Site. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater
SPB-7	10	Located in the northeast corner of the Site. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater
SPB-8	10	Located in the southeast are of the Site, near the east property boundary. Located in an area where equipment and containers appear to have been stored.	Soil & Groundwater

Soil and groundwater samples were analyzed for volatile organic compounds (VOCs), Total Petroleum Hydrocarbon Gasoline Range Organics (TPH-GRO), and TPH-Diesel Range Organics (DRO), semi volatile organic compounds (SVOCs), and Resource Conservation and Recovery Act (RCRA) 8 Metals using EPA methods 8260B, 8015B, 8270C, 6010B, and 7470A, respectively.

3.1 SAMPLING METHODOLOGIES

Soil Sampling

Borings were continuously sampled using a stainless steel five-foot length dual-tube configuration consisting of a four-inch outer (casing) tube and a two-inch inner (sampling) tube. The tubes were fitted with new, disposable plastic liners of appropriate length provided by GeoProbe® for that purpose. Boring equipment was decontaminated using an Alconox® and high-pressure steam cleaning prior to each use.

Following retrieval of the liner, each soil sample was screened for volatile vapors using a photo ionization detector (PID). PIDs measure VOC and other gases in concentrations from 1 part per million (ppm) to 10,000 ppm and are capable of providing instantaneous readings and monitoring continuously. Soil samples for laboratory analyses were collected from the liners in areas of highest PID readings. When a PID reading of "0" ppm occurred throughout the soil boring, the sample for laboratory analysis was collected at the soil/groundwater interface and intervals that appeared to be stained during visual inspection. Soil samples were placed directly into new, clean four-ounce glass sample containers (unpreserved) provided by the analytical laboratory. The four-ounce containers were filled as completely as possible in order to reduce headspace for VOC and SVOC analysis.

Groundwater samples were collected using temporary stainless steel geoprobe casing and screen, a peristaltic pump, and new, disposable, plastic tubing. Each groundwater sampling point was purged at low flow rates of less than 0.2 to 0.3 liters per minute until approximately three borehole volumes were purged and the groundwater ran clear to remove sediments. Samples were placed directly into new, clean, glass sample containers provided by the analytical laboratory for that purpose. Sample container volume and preservative for each sample was consistent with the volume and preservative required by the analytical laboratory for testing. Containers of samples to be analyzed for volatile organics were completely filled in order to eliminate headspace. Groundwater samples analyzed for dissolved RCRA 8 Metals were field filtered using a 0.45 micron filter.

Following collection of each sample, each sample was immediately labeled with the Amec Foster Wheeler project number, date, time of sample collection, and sample identification number. All samples were then placed in a cooler and chilled to approximately 4° Celsius. Chain-of-custody forms were completed in order to document delivery of the samples to the analytical laboratory. Samples were delivered via FedEx to ESC Laboratories for analysis. Analyses requested of the laboratory consisted of VOCs, SVOCs, and RCRA 8 Metals using EPA method 8260B, 8015B, 8270C, 6010B, and 7470A, respectively.

3.2 INVESTIGATIVE DERIVED WASTE

Soil cuttings and purge water derived during this investigation were thin spread on-site. Soil borings were sealed with hydrated bentonite. The top of each boring was sealed with native material and finished to match existing surface conditions. Disposable sampling equipment and personal protective equipment were cleaned, bagged, removed from the investigation area, and disposed of as non-hazardous material.

4.0 DEVIATIONS

Deviations noted during field activities are discussed below.

- The soil sample for SPB-1 was a composite sample that consisted of soil collected from the soil column at 4.5 feet and 8 feet.
- Due to equipment and scrap metal on-site access to areas for sampling was limited. Borings were placed in accessible areas and were not able to be completed in all areas of concern.
- Sample depths for soil samples SPB-5-1, SPB-5-2, SPB-6-1, SPB-6-2, SPB-7-1, and SPB-7-2 were not recorded in the field and have been estimated based on boring logs and field notes.

5.0 GEOLOGY, HYDROGEOLOGY, SOILS, AND METEOROLOGY

The following is a summary of the physical setting to provide supplemental information regarding geology, hydrogeology, soils, and meteorology in the vicinity and at the Site.

5.1 GEOLOGY

The Site is located approximately six miles west of the Wasatch Mountains, the westernmost extent of the Middle Rocky Mountain Physiographic Province. To the west of the Wasatch Mountains are the Basin and Range Province, characterized by north-south-trending mountain ranges and broad, sediment-filled valleys.

Most of the landforms currently visible in Weber County are the result of processes that started about 15 million years ago (late-Tertiary period). At that time, faulting began which resulted in the uplift of the mountain ranges currently present in the area. This mountain-building activity, which continues to the present, is primarily represented in the county by the north-south-trending Wasatch fault line, located near the western base of the Wasatch Mountains. Other north-south-trending fault lines are known to striate the Basin and Range Province. Another, more recent, geologic event that significantly affected the area was the presence of Lake Bonneville, which existed between 30,000 and 10,000 years ago. Sediments deposited by transgressive and regressive cycles of Lake Bonneville include sands, silts, clays, and gravels. These deposits may be the most significant source of groundwater in the valley. Subsequent fluvial, eolian, and tectonic activities have modified the valley topography and subsurface profile to their present conditions (Eldredge and Wilkerson, 1990; Personius and Scott, 1990; and Davis, 1985).

5.2 HYDROGEOLOGY

Evaluating the direction of groundwater flow was not part of this investigation, therefore the direction of groundwater flow was assumed to follow regional topography down to the west. Groundwater at the site was encountered ranging from approximately 3 to 9 feet below ground surface (bgs). The nearest large body of water is the Weber River located on the west boundary of the site.

Groundwater in the Salt Lake Valley (Weber County) is found in deep unconfined aquifer near the mountain, a confined artesian aquifer, a shallow unconfined aquifer overlying the confined aquifer, and locally unconfined or perched aquifers. The shallow unconfined aquifer is close to activities and processes that occur at the ground surface and can easily become impacted from surface spills and unregulated disposal.

5.3 SOILS

A wide variety of soil types are present in the area. The thickest soils are generally restricted to areas underlain by Quaternary sediments. Soil types consist predominately of silt and clay, sand, and gravel.

The underlying stratigraphy at the property consists of a brown to dark brown silty sand to approximately five feet bgs. Underlying the silty sand is a sandy gravel followed by clayey sands to approximately 15 feet bgs. Amec Foster Wheeler observed low to moderate soil recovery during drilling activities with a consistent deficiency of recovery between 4 and 8 feet bgs. PID readings were collected from all soil borings; all borings had zero ppm PID readings except for SPB-5, which had PID readings ranging from 2.0 to 28 ppm. PID readings with their respective depths are shown on the boring logs located in Appendix B.

5.4 METEOROLOGY

The climate of this area is considered temperate and semi-arid. The mean annual temperature is approximately 52°F, with recorded 20 plus degrees below and 105 plus degrees above zero. Precipitation varies in the site vicinity, generally due to the presence of the Wasatch Mountains to the east, with higher amounts falling in the higher elevations and tapering off at the lower elevations to the west. For the site, the annual precipitation is between 12 and 16 inches annually. Winds in the area normally range from 7 to 10 miles per hour, but powerful damaging winds are not uncommon. The strongest winds and thunderstorms generally come from the east, out of the canyons of the Wasatch Mountains. Prevailing wind direction is from the southwest.

6.0 ANALYTICAL RESULTS

Soil and groundwater analytical results were compared to the EPA Regional Screening Levels (RSLs) from May 2016 for Industrial Soils and the Utah Initial Screening Levels (ISLs) for TPH-GRO and TPH-DRO. Groundwater screening levels were obtained from the EPA RSL table from May 2016 for Maximum Contaminant Levels (MCLs) and tap water. The analytical results are discussed in greater detail in the following sections below. Laboratory analytical reports are provided in Appendix C. Figure 2 shows sampling locations and Site layout.

6.1 SOIL VOC AND TPH-GRO ANALYTICAL RESULTS

A total of 15 soil samples, SPB-1 through SPB-8, were collected and analyzed for VOCs. VOC concentrations were below the EPA RSLs. Constituents were detected above the laboratory Method Detection Limit (MDL) in each of the sample locations except for samples SPB-3-2, SPB-6-1, and SPB-8-1. All constituent detections above the laboratory MDL were below the EPA RSLs.

A total of 15 soil samples were analyzed for TPH-GRO. TPH-GRO concentrations were below the Utah ISL except for sample SPB-5-1, which had a concentration of 208 milligrams per kilogram (mg/kg). Laboratory analytical results for VOCs and TPH-GRO are provided on Table 1.

6.2 SOIL SVOC AND TPH-DRO ANALYTICAL RESULTS

A total of 15 soil samples, SPB-1 through SPB-8, were analyzed for SVOCs. SVOC concentrations were below the EPA RSLs in all samples except for SPB-5-1. Soil sample SPB-5-1 had a concentration of benzo(a)pyrene of 1.01 mg/kg, which is above the EPA RSL of 0.29 mg/kg. Several laboratory constituents were detected above the laboratory MDL, but were below the EPA RSLs.

A total of 15 soil samples were analyzed for TPH-DRO. TPH-DRO concentrations were below the Utah ISL except for sample SPB-5-1, which had a concentration of 2,330 mg/kg.

Laboratory analytical results are provided on Table 2. Figure 3 shows SVOCs and TPH-DRO concentrations above the EPA RSLs.

6.3 SOIL RCRA 8 METALS ANALYTICAL RESULTS

A total of 15 soil samples, SPB-1 through SPB-8, were analyzed for RCRA 8 Metals. Several analytical constituents were detected in each sample above the laboratory MDL, but were below the EPA RSLs except for arsenic. Arsenic was detected in 13 samples at concentrations above the EPA RSL of 3.0 mg/kg. Concentrations in the soil samples above EPA RSL of 3.0 mg/kg and range from 3.35 mg/kg to 27.8 mg/kg. Laboratory analytical results are provided on Table 3.

6.4 GROUNDWATER VOC AND TOH-GRO ANALYTICAL RESULTS

A total of eight groundwater samples were collected and analyzed for VOCs and TPH-GRO (SPB-1 through SPB-8). Methyl tert-butyl ether (MTBE) was detected at concentrations above the laboratory MDL in all samples except SPB-1, SPB-2, and SPB-8. MTBE concentrations were below the EPA RSL. All other laboratory constituents were below the laboratory MDLs, EPA RSLs, and Utah ISL. Laboratory analytical results are provided on Table 4.

6.5 GROUNDWATER SVOC AND TPH-DRO ANALYTICAL RESULTS

A total of eight groundwater samples were collected and analyzed for SVOCs and TPH-DRO (SPB-1 through SPB-8). Two constituents, Diethyl Phthalate and Di-n-butylphthalate, were detected at concentrations above the laboratory MDLs, but were below the EPA RSL. All other laboratory constituents were below the laboratory MDLs, EPA RSLs, and Utah ISL. Laboratory analytical results are provided on Table 5.

6.6 GROUNDWATER METALS ANALYTICAL RESULTS

A total of eight groundwater samples were analyzed for RCRA 8 Dissolved Metals (SPB-1 through SPB-8). Each of the sampled contained constituents above laboratory MDLs, however, all were below EPA RSLs. Laboratory analytical results are provided on Table 6.

7.0 POTENTIAL SOURCE ANALYSIS

The following is a discussion of potential exposure pathways and receptors based on the previous discussions of land usage and impacted media.

7.1 SOIL EXPOSURE PATHWAY

The Site is unpaved outside of the building footprint. Based on the current sample analysis there is evidence of impacts to the soil, therefore exposure to soil impacted by contamination is possible.

7.2 GROUNDWATER EXPOSURE PATHWAY

The Site is unpaved outside of the building footprint with gravel used for driveway and parking areas. Soil contamination identified in the borings did not coincide with any groundwater constituents. Amec Foster Wheeler does not anticipate exposure to groundwater impacts through normal maintenance and landscaping activities.

7.3 SURFACE WATER EXPOSURE PATHWAY

There is no storm drain system; thus, surface water travels via sheet flow or percolation to groundwater and flows to the northeast. The Weber river is adjacent to the site to the east and northeast, therefore, the potential impact to surface water from the Site is considered a pathway of concern and the risk of surface water as a receptor is a potential pathway for this Site.

7.4 AIR EXPOSURE PATHWAY

The ground surface of the Site is developed with a building, an outbuilding, and covered with equipment, containers, and scrap metal. Surface samples were not collected during field activities; therefore, an evaluation of the air exposure pathway cannot be fully completed. Based on laboratory analytical results VOC and SVOC constituent concentrations at depth were below EPA RSLs in the sample locations except for sample locations SPB-5-1, located in the central eastern portion of the site. Additionally, arsenic concentrations exceeded the screening levels in 13 of the 15 soil samples.

Background concentrations of arsenic in soil within the area have been documented to be as high as 30 mg/kg. Due to the higher background levels the Utah Division of Environmental Response and Remediation (DERR) has utilized a higher screening level of 15 mg/kg on properties surrounding the Site during remediation activities. If this higher screening level is used only one sample at approximately four feet would exceed.

There is the potential for an air exposure pathway on-site when subsurface soils are encountered. A surface soil evaluation will require additional sampling.

7.5 UTILITY EXPOSURE PATHWAY

Utility lines and corridors can be a source of potential groundwater movement through the subsurface. Once groundwater reaches the buried utility lines it may travel along the length of conduit or piping. Depth of burial depends on the utility. Power lines are buried on the order of 18 to 24 inches bgs. Water lines are buried on the order of 48 inches bgs while the sanitary sewer lines are buried on the order of 5 to 7 feet bgs.

The Site is primarily unpaved where utilities are present and groundwater was encountered approximately 3 to 9 feet bgs. Due to no impacts identified at this time to groundwater on-site the potential to impact to the utilities is not considered a pathway of concern and the risk of the utility corridors as a receptor from this Site are minimal.

8.0 SUMMARY

The surficial soil type observed beneath the site is characterized as silty sands and clays, underlain by coarse sands and gravel. The following is a summary of field activities and sampling;

- Eight soil borings, SPB-1 through SPB-8, were completed on-site and soil samples collected. Soil samples were identified as SBP-1-1, SPB-2-1, SPB-2-2, SPB-3-1, SPB-3-2, SPB-4-1, SPB-4-2, SPB-5-1, SPB-5-2, SPB-6-1, SPB-6-2, SPB-7-1, SPB-7-2, AND SPB-8-1, and SPB-8-2.
- VOC analytical constituents were detected in the soil samples above the laboratory MDL at several locations, but concentrations were below the EPA RSLs.
- TPH-GRO analytical concentrations were below the Utah ISL in all samples but one, SPB-5-1 at a concentration of 208 mg/kg.
- SVOC analytical constituents were detected in the soil samples above the laboratory MDL at several locations, but concentrations were below the EPA RSLs except for sample, SPB-5-1, which exceeded the EPA RSL for benzo(a)pyrene.
- TPH-DRO analytical concentrations were below the Utah ISL in all samples but one, SPB-5-1 at a concentration of 2,330 mg/kg.
- All soil samples had detected concentrations of RCRA 8 Metals. All laboratory analyte concentrations were below EPA RSLs except for arsenic. Arsenic concentrations were above the EPA RSL in 13 out of the 15 samples analyzed and ranged from 3.35 mg/kg to 27.8 mg/kg.
- Groundwater VOC concentrations were below the EPA RSLs.
- Groundwater SVOC concentrations were below the EPA RSLs.
- Groundwater RCRA 8 Metals concentrations were below the EPA RSLs.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the historic property usage and Limited Phase II ESA performed by Amec Foster Wheeler the follow conclusions and recommendations are presented:

1. The Site is zoned for industrial use and future land use is intended to remain the same or of similar type.

2. Soil impacted arsenic is present throughout the Site above EPA MCL of 3.0 mg/kg. Additional site characterization or monitoring during constructions activities will be necessary.
3. Groundwater does not appear to be impacted with COCs at this time, but the sampling performed in April 2017 was limited in nature and may not have identified all potential impacts.
4. Groundwater on-site is not utilized as a source for potable water. Additionally, the current development in the area utilize municipal water and sewer services.

10.0 REFERENCES

- Davis, F.D., (1985). Geologic Map of the Central Wasatch Front: Utah Geological and Mineral Survey, Map 54-A.
- Eldredge, S.N. and Wilkerson, C.W., (1990). Geologic Resources of Salt Lake County, Utah: State of Utah, Department of Natural Resources, Public Information Series 5, 27 p.
- Personius, S.F., and Scott, W.E., 1992, Preliminary surficial geologic map of the Salt Lake City segment and parts of adjacent segments of the Wasatch fault zone, Davis, Salt Lake, and Utah Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2114, scale 1:50,000.
- USGS 7.5-minute Topographic Quadrangle Maps titled "Salt Lake, Utah," dated 1998.

11.0 LIMITATIONS

This report is covered by the limitations set out below and it is for the exclusive use of OCMC. No other use of this report in whole or in part except as directed by legal jurisdiction, is allowed without written approval of OCMC and Amec Foster Wheeler. Use by any unauthorized parties is at the sole risk of the user.

The findings and opinions presented are relative to the dates and the limited scope of our site work and should not be relied on to represent conditions at substantially later dates or beyond the limitations of the approved investigation. The opinions included herein are based on our experience and information obtained during the study. If additional information becomes available which might impact our environmental findings, we request the opportunity to review the information, reassess the potential concerns, and modify our opinions, if warranted.

This report was prepared by **Amec Foster Wheeler Environment & Infrastructure, Inc.**



Date: May 15, 2017

Angie Chadd
Environmental Geologist

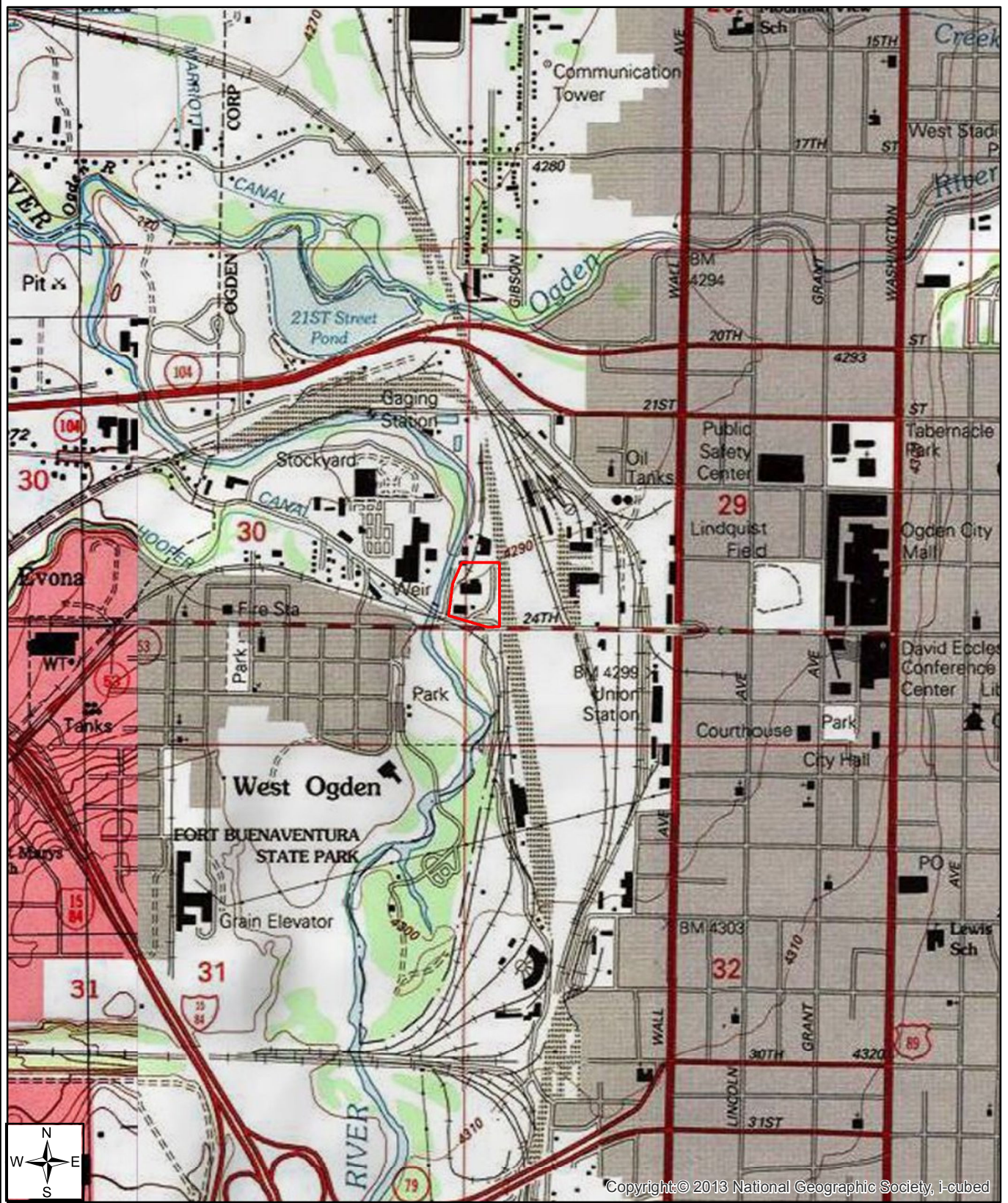
Reviewed by:



Date: May 15, 2017

Scott Wheeler. PG
Environmental Group Manager

FIGURES



Legend Property Boundary	SCALE: 1 inch = 2,000 feet DATE: 05/03/2017 PROJECT NO: 1781400633 DWN BY: AGC CHK'D BY: REK	CLIENT Ogden City Cooperation 2546 Washington Boulevard, Suite 420 Ogden, Utah 84401 Environment & Infrastructure, Inc. 9865 South 500 West Sandy, Utah 84070 Tel: (801) 999-2002 Fax: (801) 999-2098	PROJECT Swift Building, Ogden Utah 390 W Exchange Road Ogden, Utah TITLE Vicinity Topography Map	FIGURE NO: 1



Legend  Soil Borings  Property Boundary	SCALE: 1 inch = 250 feet		CLIENT Ogden City Cooperation 2546 Washington Boulevard, Suite 420 Ogden, Utah 84401		PROJECT Swift Building, Ogden Utah 390 W Exchange Road Ogden, Utah	
	DATE: 05/03/2017				TITLE Site Map Sample Locations	
	PROJECT NO: 1781400633		 Environment & Infrastructure, Inc. 9865 South 500 West Sandy, Utah 84070 Tel: (801) 999-2002 Fax: (801) 999-2098			
	DWN BY: AGC	CHK'D BY: REK			FIGURE NO: 2	



Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend <div><div></div> Property Boundary</div> <div> Soil Borings</div>	SCALE:		CLIENT Ogden City Cooperation 2546 Washington Boulevard, Suite 420 Ogden, Utah 84401	PROJECT Swift Building, Ogden Utah 390 W Exchange Road Ogden, Utah		
	DATE: 05/03/2017					
	PROJECT NO: 1781400633		 Environment & Infrastructure, Inc. 9865 South 500 West Sandy, Utah 84070 Tel: (801) 999-2002 Fax: (801) 999-2098	TITLE Soil Exceedance Map units in mg/kg		FIGURE NO: 3
	DWN BY: AGC	CHK'D BY: REK				

TABLES

TABLE 1
SOIL VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2-1		SPB-2-2		SPB-3-1		SPB-3-2	
Lab Sample ID				L903712-01		L903712-02		L903712-03		L903712-04		L903712-05	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				Composite		3.5 - 4.7		4.7-5.0		2.0 - 2.7		3.5 - 4.2	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	ACETONE	mg/kg	670000	0.0161 J	0.0121	<0.012	0.012	<0.0106	0.0106	<0.0112	0.0112	<0.0109	0.0109
8260B	ACRYLONITRILE	mg/kg	1.1	<0.00216	0.00216	<0.00214	0.00214	<0.0019	0.0019	<0.002	0.002	<0.00194	0.00194
8260B	BENZENE	mg/kg	5.1	0.000584 J	0.000326	<0.000323	0.000323	<0.000287	0.000287	<0.000302	0.000302	<0.000293	0.000293
8260B	BROMOBENZENE	mg/kg	1800	<0.000343	0.000343	<0.00034	0.00034	<0.000302	0.000302	<0.000318	0.000318	<0.000308	0.000308
8260B	BROMODICHLOROMETHANE	mg/kg	1.3	<0.000307	0.000307	<0.000304	0.000304	<0.00027	0.00027	<0.000284	0.000284	<0.000276	0.000276
8260B	BROMOFORM	mg/kg	86	<0.000512	0.000512	<0.000507	0.000507	<0.000451	0.000451	<0.000474	0.000474	<0.00046	0.00046
8260B	BROMOMETHANE	mg/kg	30	<0.00162	0.00162	<0.0016	0.0016	<0.00143	0.00143	<0.0015	0.0015	<0.00146	0.00146
8260B	N-BUTYLBENZENE	mg/kg	58000	<0.000311	0.000311	<0.000309	0.000309	<0.000274	0.000274	<0.000289	0.000289	<0.00028	0.00028
8260B	SEC-BUTYLBENZENE	mg/kg	120000	<0.000243	0.000243	<0.000241	0.000241	<0.000214	0.000214	<0.000225	0.000225	<0.000218	0.000218
8260B	TERT-BUTYLBENZENE	mg/kg	120000	<0.000249	0.000249	<0.000247	0.000247	<0.000219	0.000219	<0.000231	0.000231	<0.000224	0.000224
8260B	CARBON TETRACHLORIDE	mg/kg	2.9	0.00118 J	0.000396	<0.000393	0.000393	<0.000349	0.000349	<0.000367	0.000367	<0.000356	0.000356
8260B	CHLOROBENZENE	mg/kg	1300	<0.000256	0.000256	<0.000254	0.000254	<0.000226	0.000226	<0.000237	0.000237	<0.00023	0.00023
8260B	CHLORODIBROMOMETHANE	mg/kg	39	<0.00045	0.00045	<0.000446	0.000446	<0.000397	0.000397	<0.000417	0.000417	<0.000405	0.000405
8260B	CHLOROETHANE	mg/kg	57000	<0.00114	0.00114	<0.00113	0.00113	<0.00101	0.00101	<0.00106	0.00106	<0.00103	0.00103
8260B	2-CHLOROETHYL VINYL ETHER	mg/kg	NA	<0.00282	0.00282	<0.0028	0.0028	<0.00249	0.00249	<0.00262	0.00262	<0.00254	0.00254
8260B	CHLOROFORM	mg/kg	1.4	0.00170 J	0.000276	<0.000274	0.000274	<0.000244	0.000244	<0.000256	0.000256	<0.000249	0.000249
8260B	CHLOROMETHANE	mg/kg	460	<0.000453	0.000453	<0.000449	0.000449	<0.000399	0.000399	<0.00042	0.00042	<0.000407	0.000407
8260B	2-CHLOROTOLUENE	mg/kg	23000	<0.000363	0.000363	<0.00036	0.00036	<0.00032	0.00032	<0.000337	0.000337	<0.000327	0.000327
8260B	4-CHLOROTOLUENE	mg/kg	23000	<0.00029	0.00029	<0.000287	0.000287	<0.000255	0.000255	<0.000269	0.000269	<0.000261	0.000261
8260B	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	0.064	<0.00127	0.00127	<0.00126	0.00126	<0.00112	0.00112	<0.00117	0.00117	<0.00114	0.00114
8260B	1,2-DIBROMOETHANE	mg/kg	0.16	<0.000414	0.000414	<0.00041	0.00041	<0.000365	0.000365	<0.000384	0.000384	<0.000372	0.000372
8260B	DIBROMOMETHANE	mg/kg	99	<0.000461	0.000461	<0.000457	0.000457	<0.000406	0.000406	<0.000427	0.000427	<0.000415	0.000415
8260B	1,2-DICHLOROBENZENE	mg/kg	9300	<0.000368	0.000368	<0.000365	0.000365	<0.000324	0.000324	<0.000341	0.000341	<0.000331	0.000331
8260B	1,3-DICHLOROBENZENE	mg/kg	NA	<0.000288	0.000288	<0.000286	0.000286	<0.000254	0.000254	<0.000267	0.000267	<0.00026	0.00026
8260B	1,4-DICHLOROBENZENE	mg/kg	11	<0.000273	0.000273	<0.00027	0.00027	<0.00024	0.00024	<0.000253	0.000253	<0.000245	0.000245
8260B	DICHLORODIFLUOROMETHANE	mg/kg	370	<0.000861	0.000861	<0.000853	0.000853	<0.000759	0.000759	<0.000798	0.000798	<0.000774	0.000774
8260B	1,1-DICHLOROETHANE	mg/kg	16	<0.00024	0.00024	<0.000238	0.000238	0.000805 J	0.000212	<0.000223	0.000223	<0.000216	0.000216
8260B	1,2-DICHLOROETHANE	mg/kg	2	<0.00032	0.00032	<0.000317	0.000317	<0.000282	0.000282	<0.000297	0.000297	<0.000288	0.000288
8260B	1,1-DICHLOROETHENE	mg/kg	1000	<0.000366	0.000366	<0.000363	0.000363	<0.000322	0.000322	<0.000339	0.000339	<0.000329	0.000329
8260B	CIS-1,2-DICHLOROETHENE	mg/kg	2300	<0.000284	0.000284	<0.000281	0.000281	<0.00025	0.00025	<0.000263	0.000263	<0.000255	0.000255
8260B	TRANS-1,2-DICHLOROETHENE	mg/kg	23000	<0.000319	0.000319	<0.000316	0.000316	<0.000281	0.000281	<0.000295	0.000295	<0.000287	0.000287
8260B	1,2-DICHLOROPROPANE	mg/kg	4.4	<0.000432	0.000432	<0.000428	0.000428	<0.000381	0.000381	<0.000401	0.000401	<0.000389	0.000389
8260B	1,1-DICHLOROPROPENE	mg/kg	NA	<0.000383	0.000383	<0.000379	0.000379	<0.000337	0.000337	<0.000355	0.000355	<0.000344	0.000344
8260B	1,3-DICHLOROPROPANE	mg/kg	23000	<0.00025	0.00025	<0.000248	0.000248	<0.00022	0.00022	<0.000232	0.000232	<0.000225	0.000225
8260B	CIS-1,3-DICHLOROPROPENE	mg/kg	NA	<0.000316	0.000316	<0.000314	0.000314	<0.000279	0.000279	<0.000293	0.000293	<0.000285	0.000285
8260B	TRANS-1,3-DICHLOROPROPENE	mg/kg	NA	<0.000322	0.000322	<0.00032	0.00032	<0.000284	0.000284	<0.000299	0.000299	<0.00029	0.00029
8260B	2,2-DICHLOROPROPANE	mg/kg	NA	<0.000337	0.000337	<0.000334	0.000334	<0.000297	0.000297	<0.000312	0.000312	<0.000303	0.000303
8260B	DI-ISOPROPYL ETHER	mg/kg	9400	<0.000299	0.000299	<0.000297	0.000297	<0.000264	0.000264	<0.000278	0.000278	<0.000269	0.000269
8260B	ETHYLBENZENE	mg/kg	25	<0.000358	0.000358	<0.000355	0.000355	<0.000316	0.000316	<0.000332	0.000332	<0.000323	0.000323

TABLE 1
SOIL VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2-1		SPB-2-2		SPB-3-1		SPB-3-2	
Lab Sample ID				L903712-01		L903712-02		L903712-03		L903712-04		L903712-05	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				Composite		3.5 - 4.7		4.7-5.0		2.0 - 2.7		3.5 - 4.2	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	HEXACHLORO-1,3-BUTADIENE	mg/kg	5.3	<0.000413	0.000413	<0.000409	0.000409	<0.000364	0.000364	<0.000383	0.000383	<0.000371	0.000371
8260B	ISOPROPYLBENZENE	mg/kg	9900	<0.000293	0.000293	<0.000291	0.000291	<0.000259	0.000259	<0.000272	0.000272	<0.000264	0.000264
8260B	P-ISOPROPYLTOLUENE	mg/kg	NA	<0.000246	0.000246	<0.000244	0.000244	<0.000217	0.000217	<0.000228	0.000228	<0.000222	0.000222
8260B	2-BUTANONE (MEK)	mg/kg	190000	<0.00565	0.00565	<0.0056	0.0056	<0.00498	0.00498	<0.00524	0.00524	<0.00508	0.00508
8260B	METHYLENE CHLORIDE	mg/kg	1000	<0.00121	0.00121	<0.0012	0.0012	<0.00106	0.00106	<0.00112	0.00112	<0.00109	0.00109
8260B	4-METHYL-2-PENTANONE (MIBK)	mg/kg	140000	<0.00227	0.00227	<0.00225	0.00225	<0.002	0.002	<0.0021	0.0021	<0.00204	0.00204
8260B	METHYL TERT-BUTYL ETHER	mg/kg	210	<0.000256	0.000256	<0.000254	0.000254	<0.000226	0.000226	<0.000237	0.000237	<0.00023	0.00023
8260B	NAPHTHALENE	mg/kg	17	<0.00121	0.00121	<0.0012	0.0012	<0.00106	0.00106	<0.00112	0.00112	<0.00109	0.00109
8260B	N-PROPYLBENZENE	mg/kg	24000	<0.000249	0.000249	<0.000247	0.000247	<0.000219	0.000219	<0.000231	0.000231	<0.000224	0.000224
8260B	STYRENE	mg/kg	35000	<0.000282	0.000282	<0.00028	0.00028	<0.000249	0.000249	<0.000262	0.000262	<0.000254	0.000254
8260B	1,1,1,2-TETRACHLOROETHANE	mg/kg	8.8	<0.000319	0.000319	<0.000316	0.000316	<0.000281	0.000281	<0.000295	0.000295	<0.000287	0.000287
8260B	1,1,2,2-TETRACHLOROETHANE	mg/kg	2.7	<0.000441	0.000441	<0.000437	0.000437	<0.000388	0.000388	<0.000408	0.000408	<0.000396	0.000396
8260B	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	170000	<0.000441	0.000441	<0.000437	0.000437	<0.000388	0.000388	<0.000408	0.000408	<0.000396	0.000396
8260B	TETRACHLOROETHENE	mg/kg	100	0.000390 J	0.000333	0.00276	0.00033	0.000296 J	0.000294	0.00126	0.000309	<0.0003	0.0003
8260B	TOLUENE	mg/kg	47000	<0.000524	0.000524	<0.000519	0.000519	0.00417 J	0.000462	<0.000486	0.000486	<0.000471	0.000471
8260B	1,2,3-TRICHLOROBENZENE	mg/kg	930	<0.000369	0.000369	<0.000366	0.000366	<0.000326	0.000326	<0.000342	0.000342	<0.000332	0.000332
8260B	1,2,4-TRICHLOROBENZENE	mg/kg	110	<0.000468	0.000468	<0.000464	0.000464	<0.000413	0.000413	<0.000434	0.000434	<0.000421	0.000421
8260B	1,1,1-TRICHLOROETHANE	mg/kg	36000	0.000527 J	0.000345	0.00143	0.000342	<0.000304	0.000304	<0.00032	0.00032	<0.000311	0.000311
8260B	1,1,2-TRICHLOROETHANE	mg/kg	5.0	<0.000334	0.000334	<0.000331	0.000331	<0.000295	0.000295	<0.00031	0.00031	<0.000301	0.000301
8260B	TRICHLOROETHENE	mg/kg	6.0	<0.000337	0.000337	0.000393 J	0.000334	<0.000297	0.000297	0.000525 J	0.000312	<0.000303	0.000303
8260B	TRICHLOROFLUOROMETHANE	mg/kg	350000	<0.000461	0.000461	<0.000457	0.000457	<0.000406	0.000406	<0.000427	0.000427	<0.000415	0.000415
8260B	1,2,3-TRICHLOROPROPANE	mg/kg	0.11	<0.000894	0.000894	<0.000887	0.000887	<0.000788	0.000788	<0.000829	0.000829	<0.000805	0.000805
8260B	1,2,4-TRIMETHYLBENZENE	mg/kg	240	0.000301 J	0.000255	<0.000253	0.000253	<0.000224	0.000224	<0.000236	0.000236	<0.000229	0.000229
8260B	1,2,3-TRIMETHYLBENZENE	mg/kg	210	<0.000346	0.000346	<0.000343	0.000343	<0.000305	0.000305	<0.000321	0.000321	<0.000312	0.000312
8260B	1,3,5-TRIMETHYLBENZENE	mg/kg	12000	<0.000321	0.000321	<0.000318	0.000318	<0.000283	0.000283	<0.000298	0.000298	<0.000289	0.000289
8260B	VINYL CHLORIDE	mg/kg	1.7	<0.000351	0.000351	<0.000348	0.000348	<0.00031	0.00031	<0.000326	0.000326	<0.000316	0.000316
8260B	XYLENES, TOTAL	mg/kg	2500	<0.000842	0.000842	<0.000835	0.000835	<0.000743	0.000743	<0.000781	0.000781	<0.000758	0.000758
8015D	TPH-GRO	mg/kg	150	0.0536 J	0.0262	<0.026	0.026	<0.0231	0.0231	<0.0243	0.0243	<0.0236	0.0236

Notes:

NA - Not Available

mg/kg - milligram per kilogram

MDL - Method Detection Limit

RSLs - EPA Regional Screening Levels May 2016 (Industrial Soils)

Red RSL indicates Utah Initial Screening Levels (ISLs)

Bold numbers exceed the MDL.

Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

* - Soil sample depth value is based on methodology, noted field depths not recorded

Qualifiers:

J: The identification of the analyte is acceptable; the reported value is an estimate

TABLE 1
SOIL VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-4-1		SPB-4-2		SPB-5-1		SPB-5-2		SPB-6-1	
Lab Sample ID				L903712-06		L903712-07		L903712-08		L903712-09		L903712-10	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				3.2 - 3.7		4.2 - 4.9		3.0*		5.0*		4.5*	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	ACETONE	mg/kg	670000	0.0131 J	0.0118	0.0137 J	0.0127	<2.21	2.21	0.0502 J	0.0108	<0.0118	0.0118
8260B	ACRYLONITRILE	mg/kg	1.1	<0.00211	0.00211	<0.00228	0.00228	<0.396	0.396	<0.00194	0.00194	<0.00211	0.00211
8260B	BENZENE	mg/kg	5.1	0.00122	0.000318	0.00122 J	0.000344	<0.0597	0.0597	<0.000293	0.000293	<0.000318	0.000318
8260B	BROMOBENZENE	mg/kg	1800	<0.000334	0.000334	<0.000361	0.000361	<0.0628	0.0628	<0.000308	0.000308	<0.000334	0.000334
8260B	BROMODICHLOROMETHANE	mg/kg	1.3	<0.000299	0.000299	<0.000323	0.000323	<0.0562	0.0562	<0.000275	0.000275	<0.000299	0.000299
8260B	BROMOFORM	mg/kg	86	<0.000499	0.000499	<0.00054	0.00054	<0.0937	0.0937	<0.000459	0.000459	<0.000499	0.000499
8260B	BROMOMETHANE	mg/kg	30	<0.00158	0.00158	<0.00171	0.00171	<0.296	0.296	<0.00145	0.00145	<0.00158	0.00158
8260B	N-BUTYLBENZENE	mg/kg	58000	<0.000304	0.000304	<0.000328	0.000328	0.140 J	0.057	<0.00028	0.00028	<0.000304	0.000304
8260B	SEC-BUTYLBENZENE	mg/kg	120000	<0.000237	0.000237	<0.000256	0.000256	0.206 J	0.0444	<0.000218	0.000218	<0.000237	0.000237
8260B	TERT-BUTYLBENZENE	mg/kg	120000	<0.000242	0.000242	<0.000262	0.000262	<0.0455	0.0455	<0.000223	0.000223	<0.000243	0.000243
8260B	CARBON TETRACHLORIDE	mg/kg	2.9	<0.000386	0.000386	<0.000417	0.000417	<0.0725	0.0725	<0.000355	0.000355	<0.000386	0.000386
8260B	CHLOROBENZENE	mg/kg	1300	<0.00025	0.00025	<0.00027	0.00027	<0.0469	0.0469	<0.00023	0.00023	<0.00025	0.00025
8260B	CHLORODIBROMOMETHANE	mg/kg	39	<0.000439	0.000439	<0.000475	0.000475	<0.0825	0.0825	<0.000404	0.000404	<0.000439	0.000439
8260B	CHLOROETHANE	mg/kg	57000	<0.00111	0.00111	<0.0012	0.0012	<0.209	0.209	<0.00103	0.00103	<0.00111	0.00111
8260B	2-CHLOROETHYL VINYL ETHER	mg/kg	NA	<0.00275	0.00275	<0.00298	0.00298	<0.517	0.517	<0.00254	0.00254	<0.00276	0.00276
8260B	CHLOROFORM	mg/kg	1.4	<0.00027	0.00027	<0.000291	0.000291	<0.0506	0.0506	<0.000248	0.000248	<0.00027	0.00027
8260B	CHLOROMETHANE	mg/kg	460	<0.000441	0.000441	<0.000477	0.000477	<0.0829	0.0829	<0.000406	0.000406	<0.000442	0.000442
8260B	2-CHLOROTOLUENE	mg/kg	23000	<0.000354	0.000354	<0.000383	0.000383	<0.0666	0.0666	<0.000326	0.000326	<0.000354	0.000354
8260B	4-CHLOROTOLUENE	mg/kg	23000	<0.000282	0.000282	<0.000305	0.000305	<0.0531	0.0531	<0.00026	0.00026	<0.000283	0.000283
8260B	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	0.064	<0.00124	0.00124	<0.00134	0.00134	<0.232	0.232	<0.00114	0.00114	<0.00124	0.00124
8260B	1,2-DIBROMOETHANE	mg/kg	0.16	<0.000404	0.000404	<0.000437	0.000437	<0.0758	0.0758	<0.000372	0.000372	<0.000404	0.000404
8260B	DIBROMOMETHANE	mg/kg	99	<0.00045	0.00045	<0.000486	0.000486	<0.0845	0.0845	<0.000414	0.000414	<0.00045	0.00045
8260B	1,2-DICHLOROBENZENE	mg/kg	9300	<0.000359	0.000359	<0.000388	0.000388	<0.0674	0.0674	<0.000331	0.000331	<0.000359	0.000359
8260B	1,3-DICHLOROBENZENE	mg/kg	NA	<0.000281	0.000281	<0.000304	0.000304	<0.0528	0.0528	<0.000259	0.000259	<0.000281	0.000281
8260B	1,4-DICHLOROBENZENE	mg/kg	11	<0.000266	0.000266	<0.000288	0.000288	<0.05	0.05	<0.000245	0.000245	<0.000266	0.000266
8260B	DICHLORODIFLUOROMETHANE	mg/kg	370	<0.000839	0.000839	<0.000907	0.000907	<0.158	0.158	<0.000773	0.000773	<0.00084	0.00084
8260B	1,1-DICHLOROETHANE	mg/kg	16	<0.000234	0.000234	<0.000253	0.000253	<0.044	0.044	<0.000216	0.000216	<0.000234	0.000234
8260B	1,2-DICHLOROETHANE	mg/kg	2	<0.000312	0.000312	<0.000337	0.000337	<0.0586	0.0586	<0.000287	0.000287	<0.000312	0.000312
8260B	1,1-DICHLOROETHENE	mg/kg	1000	<0.000357	0.000357	<0.000386	0.000386	<0.067	0.067	<0.000328	0.000328	<0.000357	0.000357
8260B	CIS-1,2-DICHLOROETHENE	mg/kg	2300	<0.000277	0.000277	<0.000299	0.000299	<0.052	0.052	<0.000255	0.000255	<0.000277	0.000277
8260B	TRANS-1,2-DICHLOROETHENE	mg/kg	23000	<0.000311	0.000311	<0.000336	0.000336	<0.0584	0.0584	<0.000286	0.000286	<0.000311	0.000311
8260B	1,2-DICHLOROPROPANE	mg/kg	4.4	<0.000421	0.000421	<0.000456	0.000456	<0.0792	0.0792	<0.000388	0.000388	<0.000422	0.000422
8260B	1,1-DICHLOROPROPENE	mg/kg	NA	<0.000373	0.000373	<0.000403	0.000403	<0.0701	0.0701	<0.000344	0.000344	<0.000373	0.000373
8260B	1,3-DICHLOROPROPANE	mg/kg	23000	<0.000244	0.000244	<0.000263	0.000263	<0.0458	0.0458	<0.000224	0.000224	<0.000244	0.000244
8260B	CIS-1,3-DICHLOROPROPENE	mg/kg	NA	<0.000308	0.000308	<0.000333	0.000333	<0.0579	0.0579	<0.000284	0.000284	<0.000309	0.000309
8260B	TRANS-1,3-DICHLOROPROPENE	mg/kg	NA	<0.000314	0.000314	<0.00034	0.00034	<0.059	0.059	<0.000289	0.000289	<0.000314	0.000314
8260B	2,2-DICHLOROPROPANE	mg/kg	NA	<0.000328	0.000328	<0.000355	0.000355	<0.0617	0.0617	<0.000302	0.000302	<0.000329	0.000329
8260B	DI-ISOPROPYL ETHER	mg/kg	9400	<0.000292	0.000292	<0.000316	0.000316	<0.0548	0.0548	<0.000269	0.000269	<0.000292	0.000292
8260B	ETHYLBENZENE	mg/kg	25	<0.00035	0.00035	<0.000378	0.000378	<0.0657	0.0657	<0.000322	0.000322	<0.00035	0.00035

TABLE 1
SOIL VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-4-1		SPB-4-2		SPB-5-1		SPB-5-2		SPB-6-1	
Lab Sample ID				L903712-06		L903712-07		L903712-08		L903712-09		L903712-10	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				3.2 - 3.7		4.2 - 4.9		3.0*		5.0*		4.5*	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	HEXACHLORO-1,3-BUTADIENE	mg/kg	5.3	<0.000403	0.000403	<0.000435	0.000435	<0.0756	0.0756	<0.000371	0.000371	<0.000403	0.000403
8260B	ISOPROPYLBENZENE	mg/kg	9900	<0.000286	0.000286	<0.000309	0.000309	<0.0537	0.0537	<0.000263	0.000263	<0.000286	0.000286
8260B	P-ISOPROPYLTOLUENE	mg/kg	NA	<0.00024	0.00024	<0.00026	0.00026	0.822	0.0451	<0.000221	0.000221	<0.00024	0.00024
8260B	2-BUTANONE (MEK)	mg/kg	190000	<0.00551	0.00551	<0.00596	0.00596	<1.03	1.03	0.0103 J	0.00507	<0.00551	0.00551
8260B	METHYLENE CHLORIDE	mg/kg	1000	<0.00118	0.00118	<0.00127	0.00127	<0.221	0.221	<0.00108	0.00108	<0.00118	0.00118
8260B	4-METHYL-2-PENTANONE (MIBK)	mg/kg	140000	<0.00221	0.00221	<0.00239	0.00239	<0.416	0.416	<0.00204	0.00204	<0.00221	0.00221
8260B	METHYL TERT-BUTYL ETHER	mg/kg	210	<0.00025	0.00025	<0.00027	0.00027	<0.0469	0.0469	0.00405	0.00023	<0.00025	0.00025
8260B	NAPHTHALENE	mg/kg	17	<0.00118	0.00118	<0.00127	0.00127	<0.221	0.221	<0.00108	0.00108	<0.00118	0.00118
8260B	N-PROPYLBENZENE	mg/kg	24000	<0.000242	0.000242	<0.000262	0.000262	<0.0455	0.0455	<0.000223	0.000223	<0.000243	0.000243
8260B	STYRENE	mg/kg	35000	<0.000275	0.000275	<0.000298	0.000298	<0.0517	0.0517	<0.000254	0.000254	<0.000276	0.000276
8260B	1,1,1,2-TETRACHLOROETHANE	mg/kg	8.8	<0.000311	0.000311	<0.000336	0.000336	<0.0584	0.0584	<0.000286	0.000286	<0.000311	0.000311
8260B	1,1,2,2-TETRACHLOROETHANE	mg/kg	2.7	<0.00043	0.00043	<0.000465	0.000465	<0.0807	0.0807	<0.000396	0.000396	<0.00043	0.00043
8260B	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	170000	<0.00043	0.00043	<0.000465	0.000465	<0.0807	0.0807	<0.000396	0.000396	<0.00043	0.00043
8260B	TETRACHLOROETHENE	mg/kg	100	<0.000325	0.000325	<0.000351	0.000351	<0.061	0.061	<0.000299	0.000299	<0.000325	0.000325
8260B	TOLUENE	mg/kg	47000	0.000679 J	0.000511	0.000645 J	0.000552	<0.096	0.096	<0.00047	0.00047	<0.000511	0.000511
8260B	1,2,3-TRICHLOROBENZENE	mg/kg	930	<0.00036	0.00036	<0.000389	0.000389	<0.0677	0.0677	<0.000332	0.000332	<0.00036	0.00036
8260B	1,2,4-TRICHLOROBENZENE	mg/kg	110	<0.000457	0.000457	<0.000494	0.000494	<0.0858	0.0858	<0.00042	0.00042	<0.000457	0.000457
8260B	1,1,1-TRICHLOROETHANE	mg/kg	36000	<0.000337	0.000337	<0.000364	0.000364	<0.0632	0.0632	<0.00031	0.00031	<0.000337	0.000337
8260B	1,1,2-TRICHLOROETHANE	mg/kg	5.0	<0.000326	0.000326	<0.000353	0.000353	<0.0612	0.0612	<0.0003	0.0003	<0.000326	0.000326
8260B	TRICHLOROETHENE	mg/kg	6.0	<0.000328	0.000328	<0.000355	0.000355	<0.0617	0.0617	<0.000302	0.000302	<0.000329	0.000329
8260B	TRICHLOROFLUOROMETHANE	mg/kg	350000	<0.00045	0.00045	<0.000486	0.000486	<0.0845	0.0845	<0.000414	0.000414	<0.00045	0.00045
8260B	1,2,3-TRICHLOROPROPANE	mg/kg	0.11	<0.000872	0.000872	<0.000943	0.000943	<0.164	0.164	<0.000803	0.000803	<0.000873	0.000873
8260B	1,2,4-TRIMETHYLBENZENE	mg/kg	240	<0.000248	0.000248	<0.000269	0.000269	0.544	0.0467	<0.000229	0.000229	<0.000248	0.000248
8260B	1,2,3-TRIMETHYLBENZENE	mg/kg	210	<0.000338	0.000338	<0.000365	0.000365	2.64	0.0635	<0.000311	0.000311	<0.000338	0.000338
8260B	1,3,5-TRIMETHYLBENZENE	mg/kg	12000	<0.000313	0.000313	<0.000339	0.000339	2.23	0.0588	<0.000288	0.000288	<0.000313	0.000313
8260B	VINYL CHLORIDE	mg/kg	1.7	<0.000343	0.000343	<0.00037	0.00037	<0.0643	0.0643	<0.000315	0.000315	<0.000343	0.000343
8260B	XYLENES, TOTAL	mg/kg	2500	<0.000822	0.000822	<0.000888	0.000888	0.324 J	0.155	<0.000756	0.000756	<0.000822	0.000822
8015D	TPH-GRO	mg/kg	150	<0.0255	0.0255	<0.0276	0.0276	208	4.8	<0.0235	0.0235	<0.0256	0.0256

Notes:

NA - Not Available

mg/kg - milligram per kilogram

MDL - Method Detection Limit

RSLs - EPA Regional Screening Levels May 2016 (Industrial Soils)

Red RSL indicates Utah Initial Screening Levels (ISLs)

Bold numbers exceed the MDL.

Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

* - Soil sample depth value is based on methodology, noted field depths not recorded

Qualifiers:

J: The identification of the analyte is acceptable; the reported value is an estimate

TABLE 1
SOIL VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-6-2		SPB-7-1		SPB-7-2		SPB-8-1		SPB-8-2	
Lab Sample ID				L903712-11		L903712-12		L903712-13		L903712-14		L903712-15	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				8.0*		3.0*		8.0*		3.0 - 4.0		8.0 - 9.0	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	ACETONE	mg/kg	670000	0.0228 J	0.0118	0.0143 J	0.0113	0.0175 J	0.015	<0.0132	0.0132	0.0299 J	0.0143
8260B	ACRYLONITRILE	mg/kg	1.1	<0.00212	0.00212	<0.00202	0.00202	<0.00269	0.00269	<0.00236	0.00236	<0.00256	0.00256
8260B	BENZENE	mg/kg	5.1	<0.00032	0.00032	0.00219	0.000305	0.00115 J	0.000405	<0.000356	0.000356	<0.000387	0.000387
8260B	BROMOBENZENE	mg/kg	1800	<0.000336	0.000336	<0.000321	0.000321	<0.000426	0.000426	<0.000375	0.000375	<0.000407	0.000407
8260B	BROMODICHLOROMETHANE	mg/kg	1.3	<0.000301	0.000301	<0.000287	0.000287	<0.000381	0.000381	<0.000335	0.000335	<0.000364	0.000364
8260B	BROMOFORM	mg/kg	86	<0.000502	0.000502	<0.000479	0.000479	<0.000636	0.000636	<0.000559	0.000559	<0.000608	0.000608
8260B	BROMOMETHANE	mg/kg	30	<0.00159	0.00159	<0.00152	0.00152	<0.00201	0.00201	<0.00177	0.00177	<0.00192	0.00192
8260B	N-BUTYLBENZENE	mg/kg	58000	<0.000306	0.000306	<0.000292	0.000292	<0.000387	0.000387	<0.00034	0.00034	<0.00037	0.00037
8260B	SEC-BUTYLBENZENE	mg/kg	120000	<0.000238	0.000238	<0.000227	0.000227	<0.000302	0.000302	<0.000265	0.000265	<0.000288	0.000288
8260B	TERT-BUTYLBENZENE	mg/kg	120000	<0.000244	0.000244	<0.000233	0.000233	<0.000309	0.000309	<0.000272	0.000272	<0.000295	0.000295
8260B	CARBON TETRACHLORIDE	mg/kg	2.9	<0.000388	0.000388	<0.000371	0.000371	<0.000492	0.000492	<0.000433	0.000433	<0.00047	0.00047
8260B	CHLOROBENZENE	mg/kg	1300	<0.000251	0.000251	<0.00024	0.00024	<0.000318	0.000318	<0.00028	0.00028	<0.000304	0.000304
8260B	CHLORODIBROMOMETHANE	mg/kg	39	<0.000442	0.000442	<0.000422	0.000422	<0.00056	0.00056	<0.000492	0.000492	<0.000534	0.000534
8260B	CHLOROETHANE	mg/kg	57000	<0.00112	0.00112	<0.00107	0.00107	<0.00142	0.00142	<0.00125	0.00125	<0.00136	0.00136
8260B	2-CHLOROETHYL VINYL ETHER	mg/kg	NA	<0.00277	0.00277	<0.00265	0.00265	<0.00351	0.00351	<0.00309	0.00309	<0.00335	0.00335
8260B	CHLOROFORM	mg/kg	1.4	<0.000271	0.000271	<0.000259	0.000259	<0.000344	0.000344	<0.000302	0.000302	<0.000328	0.000328
8260B	CHLOROMETHANE	mg/kg	460	<0.000444	0.000444	<0.000424	0.000424	<0.000563	0.000563	<0.000495	0.000495	<0.000537	0.000537
8260B	2-CHLOROTOLUENE	mg/kg	23000	<0.000356	0.000356	<0.00034	0.00034	<0.000452	0.000452	<0.000397	0.000397	<0.000431	0.000431
8260B	4-CHLOROTOLUENE	mg/kg	23000	<0.000284	0.000284	<0.000271	0.000271	<0.00036	0.00036	<0.000317	0.000317	<0.000344	0.000344
8260B	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	0.064	<0.00124	0.00124	<0.00119	0.00119	<0.00158	0.00158	<0.00139	0.00139	<0.0015	0.0015
8260B	1,2-DIBROMOETHANE	mg/kg	0.16	<0.000406	0.000406	<0.000388	0.000388	<0.000515	0.000515	<0.000453	0.000453	<0.000491	0.000491
8260B	DIBROMOMETHANE	mg/kg	99	<0.000452	0.000452	<0.000432	0.000432	<0.000573	0.000573	<0.000504	0.000504	<0.000547	0.000547
8260B	1,2-DICHLOROBENZENE	mg/kg	9300	<0.000361	0.000361	<0.000345	0.000345	<0.000458	0.000458	<0.000402	0.000402	<0.000437	0.000437
8260B	1,3-DICHLOROBENZENE	mg/kg	NA	<0.000283	0.000283	<0.00027	0.00027	<0.000359	0.000359	<0.000315	0.000315	<0.000342	0.000342
8260B	1,4-DICHLOROBENZENE	mg/kg	11	<0.000268	0.000268	<0.000256	0.000256	<0.000339	0.000339	<0.000298	0.000298	<0.000324	0.000324
8260B	DICHLORODIFLUOROMETHANE	mg/kg	370	<0.000844	0.000844	<0.000806	0.000806	<0.00107	0.00107	<0.000941	0.000941	<0.00102	0.00102
8260B	1,1-DICHLOROETHANE	mg/kg	16	<0.000236	0.000236	<0.000225	0.000225	<0.000299	0.000299	<0.000263	0.000263	<0.000285	0.000285
8260B	1,2-DICHLOROETHANE	mg/kg	2	<0.000314	0.000314	<0.0003	0.0003	<0.000398	0.000398	<0.00035	0.00035	<0.00038	0.00038
8260B	1,1-DICHLOROETHENE	mg/kg	1000	<0.000359	0.000359	<0.000343	0.000343	<0.000455	0.000455	<0.0004	0.0004	<0.000434	0.000434
8260B	CIS-1,2-DICHLOROETHENE	mg/kg	2300	<0.000278	0.000278	<0.000266	0.000266	<0.000353	0.000353	<0.00031	0.00031	<0.000337	0.000337
8260B	TRANS-1,2-DICHLOROETHENE	mg/kg	23000	<0.000313	0.000313	<0.000299	0.000299	<0.000396	0.000396	<0.000348	0.000348	<0.000378	0.000378
8260B	1,2-DICHLOROPROPANE	mg/kg	4.4	<0.000424	0.000424	<0.000405	0.000405	<0.000537	0.000537	<0.000472	0.000472	<0.000513	0.000513
8260B	1,1-DICHLOROPROPENE	mg/kg	NA	<0.000375	0.000375	<0.000358	0.000358	<0.000476	0.000476	<0.000418	0.000418	<0.000454	0.000454
8260B	1,3-DICHLOROPROPANE	mg/kg	23000	<0.000245	0.000245	<0.000234	0.000234	<0.000311	0.000311	<0.000273	0.000273	<0.000297	0.000297
8260B	CIS-1,3-DICHLOROPROPENE	mg/kg	NA	<0.00031	0.00031	<0.000296	0.000296	<0.000393	0.000393	<0.000346	0.000346	<0.000375	0.000375
8260B	TRANS-1,3-DICHLOROPROPENE	mg/kg	NA	<0.000316	0.000316	<0.000302	0.000302	<0.000401	0.000401	<0.000352	0.000352	<0.000383	0.000383
8260B	2,2-DICHLOROPROPANE	mg/kg	NA	<0.00033	0.00033	<0.000316	0.000316	<0.000419	0.000419	<0.000368	0.000368	<0.0004	0.0004
8260B	DI-ISOPROPYL ETHER	mg/kg	9400	<0.000294	0.000294	<0.00028	0.00028	<0.000372	0.000372	<0.000327	0.000327	<0.000355	0.000355
8260B	ETHYLBENZENE	mg/kg	25	<0.000352	0.000352	<0.000336	0.000336	<0.000446	0.000446	<0.000392	0.000392	<0.000426	0.000426

TABLE 1
SOIL VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-6-2		SPB-7-1		SPB-7-2		SPB-8-1		SPB-8-2	
Lab Sample ID				L903712-11		L903712-12		L903712-13		L903712-14		L903712-15	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				8.0*		3.0*		8.0*		3.0 - 4.0		8.0 - 9.0	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	HEXACHLORO-1,3-BUTADIENE	mg/kg	5.3	<0.000405	0.000405	<0.000387	0.000387	<0.000513	0.000513	<0.000451	0.000451	<0.00049	0.00049
8260B	ISOPROPYLBENZENE	mg/kg	9900	<0.000288	0.000288	<0.000275	0.000275	<0.000365	0.000365	<0.000321	0.000321	<0.000348	0.000348
8260B	P-ISOPROPYLTOLUENE	mg/kg	NA	<0.000242	0.000242	<0.000231	0.000231	<0.000306	0.000306	<0.000269	0.000269	<0.000292	0.000292
8260B	2-BUTANONE (MEK)	mg/kg	190000	<0.00554	0.00554	<0.00529	0.00529	<0.00702	0.00702	<0.00617	0.00617	<0.00671	0.00671
8260B	METHYLENE CHLORIDE	mg/kg	1000	<0.00118	0.00118	<0.00113	0.00113	<0.0015	0.0015	<0.00132	0.00132	<0.00143	0.00143
8260B	4-METHYL-2-PENTANONE (MIBK)	mg/kg	140000	<0.00223	0.00223	<0.00213	0.00213	<0.00282	0.00282	<0.00248	0.00248	<0.00269	0.00269
8260B	METHYL TERT-BUTYL ETHER	mg/kg	210	<0.000251	0.000251	<0.00024	0.00024	<0.000318	0.000318	<0.00028	0.00028	0.00387	0.000304
8260B	NAPHTHALENE	mg/kg	17	<0.00118	0.00118	<0.00113	0.00113	<0.0015	0.0015	<0.00132	0.00132	<0.00143	0.00143
8260B	N-PROPYLBENZENE	mg/kg	24000	<0.000244	0.000244	<0.000233	0.000233	<0.000309	0.000309	<0.000272	0.000272	<0.000295	0.000295
8260B	STYRENE	mg/kg	35000	<0.000277	0.000277	<0.000265	0.000265	<0.000351	0.000351	<0.000309	0.000309	<0.000335	0.000335
8260B	1,1,1,2-TETRACHLOROETHANE	mg/kg	8.8	<0.000313	0.000313	<0.000299	0.000299	<0.000396	0.000396	<0.000348	0.000348	<0.000378	0.000378
8260B	1,1,2,2-TETRACHLOROETHANE	mg/kg	2.7	<0.000432	0.000432	<0.000413	0.000413	<0.000548	0.000548	<0.000482	0.000482	<0.000523	0.000523
8260B	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	170000	<0.000432	0.000432	<0.000413	0.000413	<0.000548	0.000548	<0.000482	0.000482	<0.000523	0.000523
8260B	TETRACHLOROETHENE	mg/kg	100	<0.000327	0.000327	<0.000312	0.000312	<0.000414	0.000414	<0.000364	0.000364	<0.000395	0.000395
8260B	TOLUENE	mg/kg	47000	<0.000514	0.000514	0.00291 J	0.000491	<0.000651	0.000651	<0.000573	0.000573	<0.000622	0.000622
8260B	1,2,3-TRICHLOROBENZENE	mg/kg	930	<0.000362	0.000362	<0.000346	0.000346	<0.000459	0.000459	<0.000404	0.000404	<0.000438	0.000438
8260B	1,2,4-TRICHLOROBENZENE	mg/kg	110	<0.00046	0.00046	<0.000439	0.000439	<0.000582	0.000582	<0.000512	0.000512	<0.000556	0.000556
8260B	1,1,1-TRICHLOROETHANE	mg/kg	36000	<0.000339	0.000339	<0.000323	0.000323	<0.000429	0.000429	<0.000377	0.000377	<0.00041	0.00041
8260B	1,1,2-TRICHLOROETHANE	mg/kg	5.0	<0.000328	0.000328	<0.000313	0.000313	<0.000416	0.000416	<0.000365	0.000365	<0.000397	0.000397
8260B	TRICHLOROETHENE	mg/kg	6.0	<0.00033	0.00033	<0.000316	0.000316	<0.000419	0.000419	<0.000368	0.000368	<0.0004	0.0004
8260B	TRICHLOROFLUOROMETHANE	mg/kg	350000	<0.000452	0.000452	<0.000432	0.000432	<0.000573	0.000573	<0.000504	0.000504	<0.000547	0.000547
8260B	1,2,3-TRICHLOROPROPANE	mg/kg	0.11	<0.000878	0.000878	<0.000838	0.000838	<0.00111	0.00111	<0.000978	0.000978	<0.00106	0.00106
8260B	1,2,4-TRIMETHYLBENZENE	mg/kg	240	<0.00025	0.00025	<0.000239	0.000239	<0.000317	0.000317	<0.000278	0.000278	<0.000302	0.000302
8260B	1,2,3-TRIMETHYLBENZENE	mg/kg	210	<0.00034	0.00034	<0.000325	0.000325	<0.000431	0.000431	<0.000379	0.000379	<0.000411	0.000411
8260B	1,3,5-TRIMETHYLBENZENE	mg/kg	12000	<0.000315	0.000315	<0.000301	0.000301	<0.000399	0.000399	<0.000351	0.000351	<0.000381	0.000381
8260B	VINYL CHLORIDE	mg/kg	1.7	<0.000345	0.000345	<0.000329	0.000329	<0.000437	0.000437	<0.000384	0.000384	<0.000417	0.000417
8260B	XYLENES, TOTAL	mg/kg	2500	<0.000827	0.000827	<0.000789	0.000789	<0.00105	0.00105	<0.000921	0.000921	<0.001	0.001
8015D	TPH-GRO	mg/kg	150	<0.0257	0.0257	<0.0245	0.0245	<0.0326	0.0326	<0.0286	0.0286	<0.0311	0.0311

Notes:

NA - Not Available

mg/kg - milligram per kilogram

MDL - Method Detection Limit

RSLs - EPA Regional Screening Levels May 2016 (Industrial Soils)

Red RSL indicates Utah Initial Screening Levels (ISLs)

Bold numbers exceed the MDL.

Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

* - Soil sample depth value is based on methodology, noted field depths not recorded

Qualifiers:

J: The identification of the analyte is acceptable; the reported value is an estimate

TABLE 2
SOIL SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2-1		SPB-2-2		SPB-3-1		SPB-3-2		SPB-4-1		SPB-4-2	
Lab Sample ID				L903712-01		L903712-02		L903712-03		L903712-04		L903712-05		L903712-06		L903712-07	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				Composite		3.5 - 4.7		4.7-5.0		2.0 - 2.7		3.5 - 4.2		3.2 - 3.7		4.2 - 4.9	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8270C	ACENAPHTHENE	mg/kg	45000	<0.00775	0.00775	<0.00768	0.00768	<0.00683	0.00683	<0.00718	0.00718	<0.697	0.697	<0.00756	0.00756	<0.00817	0.00817
8270C	ACENAPHTHYLENE	mg/kg	NA	<0.0081	0.0081	<0.00803	0.00803	<0.00714	0.00714	<0.00751	0.00751	<0.729	0.729	<0.0079	0.0079	0.0116 J	0.00854
8270C	ANTHRACENE	mg/kg	230000	<0.00763	0.00763	<0.00756	0.00756	<0.00672	0.00672	0.00923 J	0.00707	<0.686	0.686	<0.00744	0.00744	0.0177 J	0.00804
8270C	BENZIDINE	mg/kg	0.01	<0.0769	0.0769	<0.0762	0.0762	<0.0678	0.0678	<0.0713	0.0713	<6.92	6.92	<0.075	0.075	<0.0811	0.0811
8270C	BENZO(A)ANTHRACENE	mg/kg	2.9	0.0212 J	0.00517	0.0309 J	0.00512	<0.00455	0.00455	0.0456	0.00479	<0.465	0.465	0.0148 J	0.00504	0.0728	0.00545
8270C	BENZO(B)FLUORANTHENE	mg/kg	2.9	0.0211 J	0.00839	0.0369 J	0.00832	<0.00739	0.00739	0.0544	0.00778	<0.755	0.755	0.0226 J	0.00818	0.0969	0.00885
8270C	BENZO(K)FLUORANTHENE	mg/kg	29	<0.00702	0.00702	0.0119 J	0.00697	<0.00619	0.00619	0.0230 J	0.00651	<0.632	0.632	0.00937 J	0.00685	0.0258 J	0.00741
8270C	BENZO(G,H,I)PERYLENE	mg/kg	NA	0.0106 J	0.0087	0.0115 J	0.00863	<0.00767	0.00767	0.0285 J	0.00807	<0.783	0.783	0.0136 J	0.00849	0.0380 J	0.00918
8270C	BENZO(A)PYRENE	mg/kg	0.29	0.0178 J	0.00661	0.0297 J	0.00656	<0.00583	0.00583	0.0544	0.00613	<0.595	0.595	0.0180 J	0.00645	0.0803	0.00697
8270C	BIS(2-CHLORETHOXY)METHANE	mg/kg	2500	<0.00929	0.00929	<0.00921	0.00921	<0.00819	0.00819	<0.00862	0.00862	<0.836	0.836	<0.00906	0.00906	<0.0098	0.0098
8270C	BIS(2-CHLOROETHYL)ETHER	mg/kg	1.0	<0.0108	0.0108	<0.0107	0.0107	<0.00953	0.00953	<0.01	0.01	<0.973	0.973	<0.0105	0.0105	<0.0114	0.0114
8270C	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	NA	<0.00917	0.00917	<0.0091	0.0091	<0.00809	0.00809	<0.0085	0.0085	<0.825	0.825	<0.00895	0.00895	<0.00967	0.00967
8270C	4-BROMOPHENYL-PHENYLEETHER	mg/kg	NA	<0.0138	0.0138	<0.0136	0.0136	<0.0121	0.0121	<0.0128	0.0128	<1.24	1.24	<0.0134	0.0134	<0.0145	0.0145
8270C	2-CHLORONAPHTHALENE	mg/kg	60000	<0.00771	0.00771	<0.00765	0.00765	<0.0068	0.0068	<0.00715	0.00715	<0.694	0.694	<0.00752	0.00752	<0.00813	0.00813
8270C	4-CHLOROPHENYL-PHENYLEETHER	mg/kg	NA	<0.00757	0.00757	<0.0075	0.0075	<0.00667	0.00667	<0.00702	0.00702	<0.681	0.681	<0.00738	0.00738	<0.00798	0.00798
8270C	CHRYSENE	mg/kg	290	0.0217 J	0.0067	0.0311 J	0.00664	<0.0059	0.0059	0.0508	0.00621	<0.603	0.603	0.0201 J	0.00653	0.0847	0.00706
8270C	DIBENZ(A,H)ANTHRACENE	mg/kg	0.29	0.0103 J	0.00991	0.0112 J	0.00983	<0.00873	0.00873	<0.00919	0.00919	<0.892	0.892	0.0119 J	0.00966	0.0121 J	0.0104
8270C	3,3-DICHLOROBENZIDINE	mg/kg	5.1	<0.0958	0.0958	<0.095	0.095	<0.0845	0.0845	<0.0888	0.0888	<8.62	8.62	<0.0935	0.0935	<0.101	0.101
8270C	2,4-DINITROTOLUENE	mg/kg	7.4	<0.00733	0.00733	<0.00726	0.00726	<0.00646	0.00646	<0.00679	0.00679	<0.659	0.659	<0.00714	0.00714	<0.00773	0.00773
8270C	2,6-DINITROTOLUENE	mg/kg	1.5	<0.0089	0.0089	<0.00882	0.00882	<0.00784	0.00784	<0.00825	0.00825	<0.8	0.8	<0.00867	0.00867	<0.00938	0.00938
8270C	FLUORANTHENE	mg/kg	30000	0.0299 J	0.00599	0.0418	0.00594	<0.00528	0.00528	0.0642	0.00555	<0.539	0.539	0.0236 J	0.00584	0.118	0.00631
8270C	FLUORENE	mg/kg	30000	<0.00823	0.00823	<0.00816	0.00816	<0.00726	0.00726	<0.00763	0.00763	<0.741	0.741	<0.00803	0.00803	<0.00868	0.00868
8270C	HEXACHLOROENZENE	mg/kg	0.96	<0.0103	0.0103	<0.0102	0.0102	<0.00911	0.00911	<0.00958	0.00958	<0.93	0.93	<0.0101	0.0101	<0.0109	0.0109
8270C	HEXACHLORO-1,3-BUTADIENE	mg/kg	5.3	<0.0121	0.0121	<0.012	0.012	<0.0106	0.0106	<0.0112	0.0112	<1.09	1.09	<0.0118	0.0118	<0.0127	0.0127
8270C	HEXACHLOROCYCLOPENTADIENE	mg/kg	7.5	<0.0708	0.0708	<0.0702	0.0702	<0.0624	0.0624	<0.0657	0.0657	<6.37	6.37	<0.0691	0.0691	<0.0747	0.0747
8270C	HEXACHLOROETHANE	mg/kg	8.0	<0.0162	0.0162	<0.016	0.016	<0.0143	0.0143	<0.015	0.015	<1.46	1.46	<0.0158	0.0158	<0.0171	0.0171
8270C	INDENO(1,2,3-CD)PYRENE	mg/kg	2.9	0.00997 J	0.00932	0.0117 J	0.00924	<0.00821	0.00821	0.0257 J	0.00864	<0.838	0.838	0.00929 J	0.00909	0.0355 J	0.00983
8270C	ISOPHORONE	mg/kg	2400	<0.0063	0.0063	<0.00625	0.00625	<0.00555	0.00555	<0.00584	0.00584	<0.567	0.567	<0.00614	0.00614	<0.00664	0.00664
8270C	NAPHTHALENE	mg/kg	17	<0.0107	0.0107	<0.0106	0.0106	<0.00946	0.00946	<0.00995	0.00995	<0.965	0.965	0.0137 J	0.0105	0.0192 J	0.0113
8270C	NITROBENZENE	mg/kg	22	<0.00839	0.00839	<0.00832	0.00832	<0.00739	0.00739	<0.00778	0.00778	<0.755	0.755	<0.00818	0.00818	<0.00885	0.00885
8270C	N-NITROSODIMETHYLAMINE	mg/kg	0.034	<0.0781	0.0781	<0.0774	0.0774	<0.0688	0.0688	<0.0724	0.0724	<7.03	7.03	<0.0762	0.0762	<0.0823	0.0823
8270C	N-NITROSODIPHENYLAMINE	mg/kg	470	<0.00717	0.00717	<0.00711	0.00711	<0.00632	0.00632	<0.00665	0.00665	<0.645	0.645	<0.00699	0.00699	<0.00756	0.00756
8270C	N-NITROSODI-N-PROPYLAMINE	mg/kg	0.33	<0.0109	0.0109	<0.0108	0.0108	<0.00964	0.00964	<0.0101	0.0101	<0.984	0.984	<0.0107	0.0107	<0.0115	0.0115
8270C	PHENANTHRENE	mg/kg	NA	0.0211 J	0.00637	0.0277 J	0.00632	<0.00562	0.00562	0.0282 J	0.00591	<0.573	0.573	0.0191 J	0.00621	0.0654	0.00672
8270C	BENZYL BUTYL PHTHALATE	mg/kg	1200	<0.0124	0.0124	<0.0123	0.0123	<0.011	0.011	<0.0115	0.0115	<1.12	1.12	<0.0121	0.0121	<0.0131	0.0131
8270C	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	160	<0.0145	0.0145	<0.0144	0.0144	<0.0128	0.0128	<0.0134	0.0134	<1.3	1.3	<0.0141	0.0141	<0.0153	0.0153
8270C	DI-N-BUTYL PHTHALATE	mg/kg	82000	<0.0132	0.0132	<0.013	0.013	<0.0116	0.0116	<0.0122	0.0122	<1.18	1.18	<0.0128	0.0128	<0.0139	0.0139
8270C	DIETHYL PHTHALATE	mg/kg	660000	0.00913 J	0.00834	0.0104 J	0.00827	<0.00735	0.00735	<0.00773	0.00773	<0.75	0.75	<0.00813	0.00813	<0.00879	0.00879
8270C	DIMETHYL PHTHALATE	mg/kg	NA	<0.00652	0.00652	<0.00646	0.00646	<0.00574	0.00574	<0.00604	0.00604	<0.586	0.586	<0.00636	0.00636	<0.00687	0.00687
8270C	DI-N-OCTYL PHTHALATE	mg/kg	8200	<0.0109	0.0109	<0.0109	0.0109	<0.00965	0.00965	<0.0101	0.0101	<0.985	0.985	<0.0107	0.0107	<0.0115	0.0115

TABLE 2
SOIL SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2-1		SPB-2-2		SPB-3-1		SPB-3-2		SPB-4-1		SPB-4-2	
Lab Sample ID				L903712-01		L903712-02		L903712-03		L903712-04		L903712-05		L903712-06		L903712-07	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				Composite		3.5 - 4.7		4.7-5.0		2.0 - 2.7		3.5 - 4.2		3.2 - 3.7		4.2 - 4.9	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8270C	PYRENE	mg/kg	23000	0.0342 J	0.0148	0.0429	0.0147	<0.0131	0.0131	0.0622	0.0138	<1.34	1.34	0.0251 J	0.0145	0.109	0.0157
8270C	1,2,4-TRICHLOROBENZENE	mg/kg	110	<0.0106	0.0106	<0.0105	0.0105	<0.00932	0.00932	<0.0098	0.0098	<0.951	0.951	<0.0103	0.0103	<0.0111	0.0111
8270C	4-CHLORO-3-METHYLPHENOL	mg/kg	82000	<0.00576	0.00576	<0.00571	0.00571	<0.00507	0.00507	<0.00534	0.00534	<0.518	0.518	<0.00561	0.00561	<0.00607	0.00607
8270C	2-CHLOROPHENOL	mg/kg	5800	<0.01	0.01	<0.00994	0.00994	<0.00884	0.00884	<0.0093	0.0093	<0.902	0.902	<0.00978	0.00978	<0.0106	0.0106
8270C	2,4-DICHLOROPHENOL	mg/kg	2500	<0.009	0.009	<0.00893	0.00893	<0.00794	0.00794	<0.00835	0.00835	<0.81	0.81	<0.00878	0.00878	<0.00949	0.00949
8270C	2,4-DIMETHYLPHENOL	mg/kg	16000	<0.0568	0.0568	<0.0564	0.0564	<0.0501	0.0501	<0.0527	0.0527	<5.11	5.11	<0.0554	0.0554	<0.0599	0.0599
8270C	4,6-DINITRO-2-METHYLPHENOL	mg/kg	66	<0.15	0.15	<0.148	0.148	<0.132	0.132	<0.139	0.139	<13.5	13.5	<0.146	0.146	<0.158	0.158
8270C	2,4-DINITROPHENOL	mg/kg	1600	<0.118	0.118	<0.117	0.117	<0.104	0.104	<0.11	0.11	<10.6	10.6	<0.115	0.115	<0.125	0.125
8270C	2-NITROPHENOL	mg/kg	NA	<0.0157	0.0157	<0.0156	0.0156	<0.0138	0.0138	<0.0145	0.0145	<1.41	1.41	<0.0153	0.0153	<0.0165	0.0165
8270C	4-NITROPHENOL	mg/kg	NA	<0.0634	0.0634	<0.0628	0.0628	<0.0559	0.0559	<0.0587	0.0587	<5.7	5.7	<0.0618	0.0618	<0.0668	0.0668
8270C	PENTACHLOROPHENOL	mg/kg	4.0	<0.0579	0.0579	<0.0574	0.0574	<0.0511	0.0511	<0.0537	0.0537	<5.21	5.21	<0.0565	0.0565	<0.0611	0.0611
8270C	PHENOL	mg/kg	250000	<0.00839	0.00839	<0.00832	0.00832	<0.00739	0.00739	<0.00778	0.00778	<0.755	0.755	<0.00818	0.00818	<0.00885	0.00885
8270C	2,4,6-TRICHLOROPHENOL	mg/kg	210	<0.0094	0.0094	<0.00932	0.00932	<0.00829	0.00829	<0.00872	0.00872	<0.846	0.846	<0.00917	0.00917	<0.00991	0.00991
8015	TPH-DRO	mg/kg	500	1.73 J	0.928	15.4	0.92	15	0.818	12.3	0.86	<83.5	83.5	280 J	90.5	22.2	0.979

Notes:
NA - Not Available
mg/kg - milligram per kilogram
MDL - Method Detection Limit
RSLs - EPA Regional Screening Levels May 2016 (Industrial Soils)
Red RSL indicates Utah Initial Screen Levels (ISLs)
Bold numbers exceed the MDL.
Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.
* - Soil sample depth value is based on methodology, noted field depths not recorded

Qualifiers:
J: The identification of the analyte is acceptable; the reported value is an estimate

TABLE 2
SOIL SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-5-1		SPB-5-2		SPB-6-1		SPB-6-2		SPB-7-1		SPB-7-2		SPB-8-1		SPB-8-2	
Lab Sample ID				L903712-08		L903712-09		L903712-10		L903712-11		L903712-12		L903712-13		L903712-14		L903712-15	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				3.0*		5.0*		4.5*		8.0*		3.0*		8.0*		3.0 - 4.0		8.0 - 9.0	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8270C	ACENAPHTHENE	mg/kg	45000	0.361 J	0.142	<0.00696	0.00696	<0.151	0.151	0.0128 J	0.0076	<0.726	0.726	<0.00963	0.00963	<0.00847	0.00847	<0.183	0.183
8270C	ACENAPHTHYLENE	mg/kg	NA	<0.148	0.148	<0.00727	0.00727	<0.158	0.158	<0.00795	0.00795	<0.759	0.759	<0.0101	0.0101	<0.00885	0.00885	<0.192	0.192
8270C	ANTHRACENE	mg/kg	230000	0.550 J	0.139	<0.00685	0.00685	<0.148	0.148	0.0305 J	0.00748	<0.715	0.715	<0.00948	0.00948	<0.00834	0.00834	<0.181	0.181
8270C	BENZIDINE	mg/kg	0.01	<1.4	1.4	<0.069	0.069	<1.5	1.5	<0.0754	0.0754	<7.2	7.2	<0.0956	0.0956	<0.084	0.084	<1.82	1.82
8270C	BENZO(A)ANTHRACENE	mg/kg	2.9	0.938	0.0946	<0.00464	0.00464	<0.101	0.101	0.053	0.00507	<0.484	0.484	0.0119 J	0.00642	0.0130 J	0.00565	<0.123	0.123
8270C	BENZO(B)FLUORANTHENE	mg/kg	2.9	1.21	0.154	<0.00753	0.00753	<0.164	0.164	0.053	0.00823	<0.786	0.786	0.0199 J	0.0104	0.0225 J	0.00917	<0.199	0.199
8270C	BENZO(K)FLUORANTHENE	mg/kg	29	0.262 J	0.128	<0.00631	0.00631	<0.137	0.137	0.0196 J	0.00689	<0.658	0.658	<0.00873	0.00873	<0.00768	0.00768	<0.166	0.166
8270C	BENZO(G,H,I)PERYLENE	mg/kg	NA	0.526 J	0.159	<0.00781	0.00781	<0.17	0.17	0.0251 J	0.00854	<0.815	0.815	<0.0108	0.0108	0.0131 J	0.00951	<0.206	0.206
8270C	BENZO(A)PYRENE	mg/kg	0.29	1.01	0.122	<0.00594	0.00594	<0.13	0.13	0.0445	0.00649	<0.62	0.62	0.00858 J	0.00822	0.0131 J	0.00723	<0.158	0.158
8270C	BIS(2-CHLORETHOXY)METHANE	mg/kg	2500	<0.17	0.17	<0.00834	0.00834	<0.181	0.181	<0.00912	0.00912	<0.871	0.871	<0.0116	0.0116	<0.0102	0.0102	<0.221	0.221
8270C	BIS(2-CHLOROETHYL)ETHER	mg/kg	1.0	<0.198	0.198	<0.00971	0.00971	<0.211	0.211	<0.0106	0.0106	<1.01	1.01	<0.0134	0.0134	<0.0118	0.0118	<0.256	0.256
8270C	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	NA	<0.168	0.168	<0.00824	0.00824	<0.179	0.179	<0.009	0.009	<0.859	0.859	<0.0114	0.0114	<0.01	0.01	<0.218	0.218
8270C	4-BROMOPHENYL-PHENYLEETHER	mg/kg	NA	<0.252	0.252	<0.0124	0.0124	<0.268	0.268	<0.0135	0.0135	<1.29	1.29	<0.0171	0.0171	<0.015	0.015	<0.327	0.327
8270C	2-CHLORONAPHTHALENE	mg/kg	60000	<0.142	0.142	<0.00692	0.00692	<0.151	0.151	<0.00757	0.00757	<0.723	0.723	<0.00959	0.00959	<0.00843	0.00843	<0.183	0.183
8270C	4-CHLOROPHENYL-PHENYLEETHER	mg/kg	NA	<0.138	0.138	<0.00679	0.00679	<0.147	0.147	<0.00743	0.00743	<0.709	0.709	<0.00941	0.00941	<0.00827	0.00827	<0.179	0.179
8270C	CHRYSENE	mg/kg	290	1.06	0.123	<0.00601	0.00601	<0.131	0.131	0.064	0.00657	<0.628	0.628	0.0197 J	0.00833	0.0211 J	0.00732	<0.159	0.159
8270C	DIBENZ(A,H)ANTHRACENE	mg/kg	0.29	<0.181	0.181	<0.0089	0.0089	<0.193	0.193	<0.00972	0.00972	<0.928	0.928	<0.0123	0.0123	<0.0108	0.0108	<0.235	0.235
8270C	3,3-DICHLOROBENZIDINE	mg/kg	5.1	<1.76	1.76	<0.086	0.086	<1.87	1.87	<0.094	0.094	<8.98	8.98	<0.119	0.119	<0.105	0.105	<2.28	2.28
8270C	2,4-DINITROTOLUENE	mg/kg	7.4	<0.134	0.134	<0.00658	0.00658	<0.142	0.142	<0.00719	0.00719	<0.686	0.686	<0.00911	0.00911	<0.00801	0.00801	<0.173	0.173
8270C	2,6-DINITROTOLUENE	mg/kg	1.5	<0.163	0.163	<0.00799	0.00799	<0.173	0.173	<0.00873	0.00873	<0.833	0.833	<0.0111	0.0111	<0.00972	0.00972	<0.211	0.211
8270C	FLUORANTHENE	mg/kg	30000	1.81	0.11	<0.00537	0.00537	<0.117	0.117	0.0998	0.00587	<0.561	0.561	0.0492 J	0.00744	0.0301 J	0.00654	<0.142	0.142
8270C	FLUORENE	mg/kg	30000	0.264 J	0.15	<0.00739	0.00739	<0.16	0.16	0.0149 J	0.00808	<0.771	0.771	<0.0102	0.0102	<0.009	0.009	<0.195	0.195
8270C	HEXACHLOROBENZENE	mg/kg	0.96	<0.189	0.189	<0.00928	0.00928	<0.201	0.201	<0.0101	0.0101	<0.968	0.968	<0.0128	0.0128	<0.0113	0.0113	<0.245	0.245
8270C	HEXACHLORO-1,3-BUTADIENE	mg/kg	5.3	<0.221	0.221	<0.0108	0.0108	<0.236	0.236	<0.0118	0.0118	<1.13	1.13	<0.015	0.015	<0.0132	0.0132	<0.287	0.287
8270C	HEXACHLOROCYCLOPENTADIENE	mg/kg	7.5	<1.29	1.29	<0.0636	0.0636	<1.38	1.38	<0.0695	0.0695	<6.64	6.64	<0.0881	0.0881	<0.0775	0.0775	<1.68	1.68
8270C	HEXACHLOROETHANE	mg/kg	8.0	<0.296	0.296	<0.0145	0.0145	<0.316	0.316	<0.0159	0.0159	<1.52	1.52	<0.0201	0.0201	<0.0177	0.0177	<0.384	0.384
8270C	INDENO(1,2,3-CD)PYRENE	mg/kg	2.9	0.520 J	0.17	<0.00837	0.00837	<0.181	0.181	0.0176 J	0.00914	<0.873	0.873	<0.0116	0.0116	<0.0102	0.0102	<0.221	0.221
8270C	ISOPHORONE	mg/kg	2400	<0.115	0.115	<0.00566	0.00566	<0.122	0.122	<0.00618	0.00618	<0.59	0.59	<0.00783	0.00783	<0.00689	0.00689	<0.149	0.149
8270C	NAPHTHALENE	mg/kg	17	<0.197	0.197	<0.00963	0.00963	<0.21	0.21	0.0694	0.0105	<1.01	1.01	0.0351 J	0.0133	0.0253 J	0.0117	<0.255	0.255
8270C	NITROBENZENE	mg/kg	22	<0.154	0.154	<0.00753	0.00753	<0.164	0.164	<0.00823	0.00823	<0.786	0.786	<0.0104	0.0104	<0.00917	0.00917	<0.199	0.199
8270C	N-NITROSODIMETHYLAMINE	mg/kg	0.034	<1.43	1.43	<0.0701	0.0701	<1.52	1.52	<0.0766	0.0766	<7.32	7.32	<0.0971	0.0971	<0.0854	0.0854	<1.85	1.85
8270C	N-NITROSODIPHENYLAMINE	mg/kg	470	<0.132	0.132	<0.00644	0.00644	<0.14	0.14	<0.00703	0.00703	<0.672	0.672	<0.00891	0.00891	<0.00784	0.00784	<0.171	0.171
8270C	N-NITROSODI-N-PROPYLAMINE	mg/kg	0.33	<0.2	0.2	<0.00982	0.00982	<0.213	0.213	<0.0107	0.0107	<1.02	1.02	<0.0136	0.0136	<0.012	0.012	<0.259	0.259
8270C	PHENANTHRENE	mg/kg	NA	1.69	0.117	<0.00572	0.00572	<0.125	0.125	0.0936	0.00625	<0.597	0.597	0.0529	0.00792	0.0453	0.00697	<0.152	0.152
8270C	BENZYL BUTYL PHTHALATE	mg/kg	1200	<0.228	0.228	<0.0112	0.0112	<0.243	0.243	<0.0122	0.0122	<1.16	1.16	<0.0155	0.0155	<0.0136	0.0136	<0.295	0.295
8270C	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	160	<0.265	0.265	<0.013	0.013	<0.283	0.283	<0.0142	0.0142	<1.36	1.36	<0.018	0.018	<0.0158	0.0158	<0.344	0.344
8270C	DI-N-BUTYL PHTHALATE	mg/kg	82000	<0.241	0.241	<0.0118	0.0118	<0.257	0.257	<0.0129	0.0129	<1.23	1.23	<0.0164	0.0164	<0.0144	0.0144	<0.312	0.312
8270C	DIETHYL PHTHALATE	mg/kg	660000	<0.153	0.153	<0.00749	0.00749	<0.163	0.163	<0.00818	0.00818	<0.781	0.781	<0.0104	0.0104	<0.00912	0.00912	<0.198	0.198
8270C	DIMETHYL PHTHALATE	mg/kg	NA	<0.119	0.119	<0.00585	0.00585	<0.127	0.127	<0.0064	0.0064	<0.611	0.611	<0.0081	0.0081	<0.00712	0.00712	<0.155	0.155
8270C	DI-N-OCTYL PHTHALATE	mg/kg	8200	<0.2	0.2	<0.00983	0.00983	<0.213	0.213	<0.0107	0.0107	<1.03	1.03	<0.0136	0.0136	<0.012	0.012	<0.259	0.259

TABLE 2
SOIL SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-5-1		SPB-5-2		SPB-6-1		SPB-6-2		SPB-7-1		SPB-7-2		SPB-8-1		SPB-8-2	
Lab Sample ID				L903712-08		L903712-09		L903712-10		L903712-11		L903712-12		L903712-13		L903712-14		L903712-15	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				3.0*		5.0*		4.5*		8.0*		3.0*		8.0*		3.0 - 4.0		8.0 - 9.0	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8270C	PYRENE	mg/kg	23000	1.81	0.272	<0.0133	0.0133	<0.29	0.29	0.0856	0.0146	<1.39	1.39	0.0209 J	0.0185	0.0302 J	0.0162	<0.352	0.352
8270C	1,2,4-TRICHLOROBENZENE	mg/kg	110	<0.193	0.193	<0.00949	0.00949	<0.206	0.206	<0.0104	0.0104	<0.991	0.991	<0.0131	0.0131	<0.0116	0.0116	<0.251	0.251
8270C	4-CHLORO-3-METHYLPHENOL	mg/kg	82000	<0.105	0.105	<0.00517	0.00517	<0.112	0.112	<0.00565	0.00565	<0.539	0.539	<0.00716	0.00716	<0.00629	0.00629	<0.137	0.137
8270C	2-CHLOROPHENOL	mg/kg	5800	<0.184	0.184	<0.00901	0.00901	<0.195	0.195	<0.00984	0.00984	<0.94	0.94	<0.0125	0.0125	<0.011	0.011	<0.238	0.238
8270C	2,4-DICHLOROPHENOL	mg/kg	2500	<0.165	0.165	<0.00808	0.00808	<0.175	0.175	<0.00884	0.00884	<0.844	0.844	<0.0112	0.0112	<0.00984	0.00984	<0.214	0.214
8270C	2,4-DIMETHYLPHENOL	mg/kg	16000	<1.04	1.04	<0.051	0.051	<1.11	1.11	<0.0558	0.0558	<5.33	5.33	<0.0707	0.0707	<0.0621	0.0621	<1.35	1.35
8270C	4,6-DINITRO-2-METHYLPHENOL	mg/kg	66	<2.74	2.74	<0.134	0.134	<2.92	2.92	<0.147	0.147	<14	14	<0.186	0.186	<0.164	0.164	<3.55	3.55
8270C	2,4-DINITROPHENOL	mg/kg	1600	<2.17	2.17	<0.106	0.106	<2.31	2.31	<0.116	0.116	<11.1	11.1	<0.147	0.147	<0.129	0.129	<2.81	2.81
8270C	2-NITROPHENOL	mg/kg	NA	<0.287	0.287	<0.0141	0.0141	<0.306	0.306	<0.0154	0.0154	<1.47	1.47	<0.0195	0.0195	<0.0172	0.0172	<0.373	0.373
8270C	4-NITROPHENOL	mg/kg	NA	<1.16	1.16	<0.0569	0.0569	<1.24	1.24	<0.0622	0.0622	<5.94	5.94	<0.0788	0.0788	<0.0693	0.0693	<1.5	1.5
8270C	PENTACHLOROPHENOL	mg/kg	4.0	<1.06	1.06	<0.052	0.052	<1.13	1.13	<0.0568	0.0568	<5.43	5.43	<0.072	0.072	<0.0633	0.0633	<1.38	1.38
8270C	PHENOL	mg/kg	250000	<0.154	0.154	<0.00753	0.00753	<0.164	0.164	<0.00823	0.00823	<0.786	0.786	<0.0104	0.0104	<0.00917	0.00917	<0.199	0.199
8270C	2,4,6-TRICHLOROPHENOL	mg/kg	210	<0.172	0.172	<0.00844	0.00844	<0.184	0.184	<0.00923	0.00923	<0.881	0.881	<0.0117	0.0117	<0.0103	0.0103	<0.224	0.224
8015	TPH-DRO	mg/kg	500	2330	17	40.6	0.833	57.4 J	18.1	10.5	0.911	190 J	87	<11.5	11.5	<10.1	10.1	<110	110

Notes:
NA - Not Available
mg/kg - milligram per kilogram
MDL - Method Detection Limit
RSLs - EPA Regional Screening Levels May 2016 (Industrial Soils)
Red RSL indicates Utah Initial Screen Levels (ISLs)
Bold numbers exceed the MDL.
Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.
* - Soil sample depth value is based on methodology, noted field depths not record

Qualifiers:
J: The identification of the analyte is acceptable; the reported value is an estimate

TABLE 3
SOIL METALS ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2-1		SPB-2-2		SPB-3-1		SPB-3-2		SPB-4-1		SPB-4-2		SPB-5-1	
Lab Sample ID				L903712-01		L903712-02		L903712-03		L903712-04		L903712-05		L903712-06		L903712-07		L903712-08	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				Composite		3.5 - 4.7		4.7-5.0		2.0 - 2.7		3.5 - 4.2		3.2 - 3.7		4.2 - 4.9		3.0*	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
6010B	ARSENIC	mg/kg	3.0	10.2	0.785	4.52	0.778	1.78 J	0.692	6.09	0.727	6.78	0.706	6.1	0.765	27.8	0.827	2.84	0.719
6010B	BARIUM	mg/kg	220000	205	0.205	103	0.203	29.7	0.181	87.2	0.19	56.1	0.185	146	0.2	218	0.216	66.2	0.188
6010B	CADMIUM	mg/kg	980	1.05	0.0845	0.302 J	0.0838	0.172 J	0.0745	0.265 J	0.0783	0.878	0.076	0.998	0.0824	3.88	0.0891	0.207 J	0.0774
6010B	CHROMIUM	mg/kg	NA	515	0.169	7.26	0.168	4.89	0.149	9.43	0.157	10.8	0.152	10.1	0.165	13.9	0.178	10.1	0.155
6010B	LEAD	mg/kg	800	367	0.229	68.6	0.227	76.4	0.202	53.4	0.213	68.8	0.206	164	0.224	620	0.242	24	0.21
6010B	SELENIUM	mg/kg	5800	1.24 J	0.893	<0.886	0.886	<0.787	0.787	<0.828	0.828	<0.804	0.804	<0.871	0.871	<0.942	0.942	<0.818	0.818
6010B	SILVER	mg/kg	5800	<0.338	0.338	<0.335	0.335	<0.298	0.298	<0.313	0.313	<0.304	0.304	<0.33	0.33	0.952 J	0.356	<0.31	0.31
7471A	MERCURY	mg/kg	46	0.636 J3 J5 J6	0.00338	0.215	0.00335	0.135	0.00298	0.0511	0.00313	0.0159 J	0.00304	0.376	0.0033	1.65	0.00713	0.0465	0.0031

Notes:
NA - Not Available
mg/kg - milligram per kilogram
MDL - Method Detection Limit
RSLs - EPA Regional Screening Levels May 2016 (Industrial Soils)
Bold numbers exceed the MDL.
Bold and yellow highlighted numbers exceed RSL(s) .
* - Soil sample depth value is based on methodology, noted field depths not recorded

Qualifiers:
J: The identification of the analyte is acceptable; the reported value is an estimate
J3: The associated batch QC was outside the established quality control range for precision.
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

**TABLE 4
GROUNDWATER VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH**

Client Sample ID				SPB-1		SPB-2		SPB-3		SPB-4	
Lab Sample ID				L903712-16		L903712-17		L903712-18		L903712-19	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	ACETONE	mg/l	14	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01
8260B	ACROLEIN	mg/l	0.000042	<0.00887	0.00887	<0.00887	0.00887	<0.00887	0.00887	<0.00887	0.00887
8260B	ACRYLONITRILE	mg/l	0.000052	<0.00187	0.00187	<0.00187	0.00187	<0.00187	0.00187	<0.00187	0.00187
8260B	BENZENE	mg/l	0.005	<0.000331	0.000331	<0.000331	0.000331	<0.000331	0.000331	<0.000331	0.000331
8260B	BROMOBENZENE	mg/l	0.062	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352
8260B	BROMODICHLOROMETHANE	mg/l	0.08	<0.00038	0.00038	<0.00038	0.00038	<0.00038	0.00038	<0.00038	0.00038
8260B	BROMOFORM	mg/l	0.08	<0.000469	0.000469	<0.000469	0.000469	<0.000469	0.000469	<0.000469	0.000469
8260B	BROMOMETHANE	mg/l	0.0075	<0.000866	0.000866	<0.000866	0.000866	<0.000866	0.000866	<0.000866	0.000866
8260B	N-BUTYLBENZENE	mg/l	1.0	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361
8260B	SEC-BUTYLBENZENE	mg/l	2.0	<0.000365	0.000365	<0.000365	0.000365	<0.000365	0.000365	<0.000365	0.000365
8260B	TERT-BUTYLBENZENE	mg/l	0.69	<0.000399	0.000399	<0.000399	0.000399	<0.000399	0.000399	<0.000399	0.000399
8260B	CARBON TETRACHLORIDE	mg/l	0.005	<0.000379	0.000379	<0.000379	0.000379	<0.000379	0.000379	<0.000379	0.000379
8260B	CHLOROBENZENE	mg/l	0.1	<0.000348	0.000348	<0.000348	0.000348	<0.000348	0.000348	<0.000348	0.000348
8260B	CHLORODIBROMOMETHANE	mg/l	0.08	<0.000327	0.000327	<0.000327	0.000327	<0.000327	0.000327	<0.000327	0.000327
8260B	CHLOROETHANE	mg/l	21	<0.000453	0.000453	<0.000453	0.000453	<0.000453	0.000453	<0.000453	0.000453
8260B	2-CHLOROETHYL VINYL ETHER	mg/l	NA	<0.00301	0.00301	<0.00301	0.00301	<0.00301	0.00301	<0.00301	0.00301
8260B	CHLOROFORM	mg/l	0.08	<0.000324	0.000324	<0.000324	0.000324	<0.000324	0.000324	<0.000324	0.000324
8260B	CHLOROMETHANE	mg/l	0.19	<0.000276	0.000276	<0.000276	0.000276	<0.000276	0.000276	<0.000276	0.000276
8260B	2-CHLOROTOLUENE	mg/l	0.24	<0.000375	0.000375	<0.000375	0.000375	<0.000375	0.000375	<0.000375	0.000375
8260B	4-CHLOROTOLUENE	mg/l	0.25	<0.000351	0.000351	<0.000351	0.000351	<0.000351	0.000351	<0.000351	0.000351
8260B	1,2-DIBROMO-3-CHLOROPROPANE	mg/l	0.0002	<0.00133	0.00133	<0.00133	0.00133	<0.00133	0.00133	<0.00133	0.00133
8260B	1,2-DIBROMOETHANE	mg/l	0.00005	<0.000381	0.000381	<0.000381	0.000381	<0.000381	0.000381	<0.000381	0.000381
8260B	DIBROMOMETHANE	mg/l	0.0083	<0.000346	0.000346	<0.000346	0.000346	<0.000346	0.000346	<0.000346	0.000346
8260B	1,2-DICHLOROBENZENE	mg/l	0.6	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349
8260B	1,3-DICHLOROBENZENE	mg/l	NA	<0.00022	0.00022	<0.00022	0.00022	<0.00022	0.00022	<0.00022	0.00022
8260B	1,4-DICHLOROBENZENE	mg/l	0.075	<0.000274	0.000274	<0.000274	0.000274	<0.000274	0.000274	<0.000274	0.000274
8260B	DICHLORODIFLUOROMETHANE	mg/l	0.2	<0.000551	0.000551	<0.000551	0.000551	<0.000551	0.000551	<0.000551	0.000551
8260B	1,1-DICHLOROETHANE	mg/l	0.0028	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259
8260B	1,2-DICHLOROETHANE	mg/l	0.005	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361
8260B	1,1-DICHLOROETHENE	mg/l	0.007	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398
8260B	CIS-1,2-DICHLOROETHENE	mg/l	0.07	<0.00026	0.00026	<0.00026	0.00026	<0.00026	0.00026	<0.00026	0.00026
8260B	TRANS-1,2-DICHLOROETHENE	mg/l	0.1	<0.000396	0.000396	<0.000396	0.000396	<0.000396	0.000396	<0.000396	0.000396
8260B	1,2-DICHLOROPROPANE	mg/l	0.005	<0.000306	0.000306	<0.000306	0.000306	<0.000306	0.000306	<0.000306	0.000306
8260B	1,1-DICHLOROPROPENE	mg/l	NA	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352
8260B	1,3-DICHLOROPROPANE	mg/l	0.37	<0.000366	0.000366	<0.000366	0.000366	<0.000366	0.000366	<0.000366	0.000366

TABLE 4
GROUNDWATER VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2		SPB-3		SPB-4	
Lab Sample ID				L903712-16		L903712-17		L903712-18		L903712-19	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	CIS-1,3-DICHLOROPROPENE	mg/l	NA	<0.000418	0.000418	<0.000418	0.000418	<0.000418	0.000418	<0.000418	0.000418
8260B	TRANS-1,3-DICHLOROPROPENE	mg/l	NA	<0.000419	0.000419	<0.000419	0.000419	<0.000419	0.000419	<0.000419	0.000419
8260B	2,2-DICHLOROPROPANE	mg/l	NA	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321
8260B	DI-ISOPROPYL ETHER	mg/l	1.5	<0.00032	0.00032	<0.00032	0.00032	<0.00032	0.00032	<0.00032	0.00032
8260B	ETHYLBENZENE	mg/l	0.7	<0.000384	0.000384	<0.000384	0.000384	<0.000384	0.000384	<0.000384	0.000384
8260B	HEXACHLORO-1,3-BUTADIENE	mg/l	0.00014	<0.000256	0.000256	<0.000256	0.000256	<0.000256	0.000256	<0.000256	0.000256
8260B	ISOPROPYLBENZENE	mg/l	0.45	<0.000326	0.000326	<0.000326	0.000326	<0.000326	0.000326	<0.000326	0.000326
8260B	P-ISOPROPYLTOLUENE	mg/l	NA	<0.00035	0.00035	<0.00035	0.00035	<0.00035	0.00035	<0.00035	0.00035
8260B	2-BUTANONE (MEK)	mg/l	5.6	<0.00393	0.00393	<0.00393	0.00393	<0.00393	0.00393	<0.00393	0.00393
8260B	METHYLENE CHLORIDE	mg/l	0.005	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001
8260B	4-METHYL-2-PENTANONE (MIBK)	mg/l	6.3	<0.00214	0.00214	<0.00214	0.00214	<0.00214	0.00214	<0.00214	0.00214
8260B	METHYL TERT-BUTYL ETHER	mg/l	0.014	0.00123	0.000367	0.00135	0.000367	<0.000367	0.000367	<0.000367	0.000367
8260B	NAPHTHALENE	mg/l	0.00017	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001
8260B	N-PROPYLBENZENE	mg/l	0.66	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349
8260B	STYRENE	mg/l	0.1	<0.000307	0.000307	<0.000307	0.000307	<0.000307	0.000307	<0.000307	0.000307
8260B	1,1,1,2-TETRACHLOROETHANE	mg/l	0.00057	<0.000385	0.000385	<0.000385	0.000385	<0.000385	0.000385	<0.000385	0.000385
8260B	1,1,2,2-TETRACHLOROETHANE	mg/l	0.000076	<0.00013	0.00013	<0.00013	0.00013	<0.00013	0.00013	<0.00013	0.00013
8260B	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/l	55	<0.000303	0.000303	<0.000303	0.000303	<0.000303	0.000303	<0.000303	0.000303
8260B	TETRACHLOROETHENE	mg/l	0.005	<0.000372	0.000372	<0.000372	0.000372	<0.000372	0.000372	<0.000372	0.000372
8260B	TOLUENE	mg/l	1.0	<0.000412	0.000412	<0.000412	0.000412	<0.000412	0.000412	<0.000412	0.000412
8260B	1,2,3-TRICHLOROBENZENE	mg/l	0.007	<0.00023	0.00023	<0.00023	0.00023	<0.00023	0.00023	<0.00023	0.00023
8260B	1,2,4-TRICHLOROBENZENE	mg/l	0.07	<0.000355	0.000355	<0.000355	0.000355	<0.000355	0.000355	<0.000355	0.000355
8260B	1,1,1-TRICHLOROETHANE	mg/l	0.2	<0.000319	0.000319	<0.000319	0.000319	<0.000319	0.000319	<0.000319	0.000319
8260B	1,1,2-TRICHLOROETHANE	mg/l	0.005	<0.000383	0.000383	<0.000383	0.000383	<0.000383	0.000383	<0.000383	0.000383
8260B	TRICHLOROETHENE	mg/l	0.005	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398
8260B	TRICHLOROFLUOROMETHANE	mg/l	5.2	<0.0012	0.0012	<0.0012	0.0012	<0.0012	0.0012	<0.0012	0.0012
8260B	1,2,3-TRICHLOROPROPANE	mg/l	0.00000075	<0.000807	0.000807	<0.000807	0.000807	<0.000807	0.000807	<0.000807	0.000807
8260B	1,2,4-TRIMETHYLBENZENE	mg/l	0.015	<0.000373	0.000373	<0.000373	0.000373	<0.000373	0.000373	<0.000373	0.000373
8260B	1,2,3-TRIMETHYLBENZENE	mg/l	0.01	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321
8260B	1,3,5-TRIMETHYLBENZENE	mg/l	0.12	<0.000387	0.000387	<0.000387	0.000387	<0.000387	0.000387	<0.000387	0.000387
8260B	VINYL CHLORIDE	mg/l	0.002	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259
8260B	XYLENES, TOTAL	mg/l	10	<0.00106	0.00106	<0.00106	0.00106	<0.00106	0.00106	<0.00106	0.00106
8015D	TPH-GRO	mg/l	1.0	<0.0314	0.0314	<0.0314	0.0314	<0.0314	0.0314	<0.0314	0.0314

Notes:
mg/l - milligrams per liter
MDL - Method Detection Limit
RSLs - EPA Regional Screen Levels May 2016 (MCLs and tap water)
NA - Not Available
Red indicates Utah Initial Screening Level (ISL)
Bold numbers exceed the MDL.
Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

TABLE 4
GROUNDWATER VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-5		SPB-6		SPB-7		SPB-8	
Lab Sample ID				L903712-20		L903712-21		L903712-22		L903712-23	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	ACETONE	mg/l	14	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01
8260B	ACROLEIN	mg/l	0.000042	<0.00887	0.00887	<0.00887	0.00887	<0.00887	0.00887	<0.00887	0.00887
8260B	ACRYLONITRILE	mg/l	0.000052	<0.00187	0.00187	<0.00187	0.00187	<0.00187	0.00187	<0.00187	0.00187
8260B	BENZENE	mg/l	0.005	<0.000331	0.000331	<0.000331	0.000331	<0.000331	0.000331	<0.000331	0.000331
8260B	BROMOBENZENE	mg/l	0.062	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352
8260B	BROMODICHLOROMETHANE	mg/l	0.08	<0.00038	0.00038	<0.00038	0.00038	<0.00038	0.00038	<0.00038	0.00038
8260B	BROMOFORM	mg/l	0.08	<0.000469	0.000469	<0.000469	0.000469	<0.000469	0.000469	<0.000469	0.000469
8260B	BROMOMETHANE	mg/l	0.0075	<0.000866	0.000866	<0.000866	0.000866	<0.000866	0.000866	<0.000866	0.000866
8260B	N-BUTYLBENZENE	mg/l	1.0	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361
8260B	SEC-BUTYLBENZENE	mg/l	2.0	<0.000365	0.000365	<0.000365	0.000365	<0.000365	0.000365	<0.000365	0.000365
8260B	TERT-BUTYLBENZENE	mg/l	0.69	<0.000399	0.000399	<0.000399	0.000399	<0.000399	0.000399	<0.000399	0.000399
8260B	CARBON TETRACHLORIDE	mg/l	0.005	<0.000379	0.000379	<0.000379	0.000379	<0.000379	0.000379	<0.000379	0.000379
8260B	CHLOROBENZENE	mg/l	0.1	<0.000348	0.000348	<0.000348	0.000348	<0.000348	0.000348	<0.000348	0.000348
8260B	CHLORODIBROMOMETHANE	mg/l	0.08	<0.000327	0.000327	<0.000327	0.000327	<0.000327	0.000327	<0.000327	0.000327
8260B	CHLOROETHANE	mg/l	21	<0.000453	0.000453	<0.000453	0.000453	<0.000453	0.000453	<0.000453	0.000453
8260B	2-CHLOROETHYL VINYL ETHER	mg/l	NA	<0.00301	0.00301	<0.00301	0.00301	<0.00301	0.00301	<0.00301	0.00301
8260B	CHLOROFORM	mg/l	0.08	<0.000324	0.000324	<0.000324	0.000324	<0.000324	0.000324	<0.000324	0.000324
8260B	CHLOROMETHANE	mg/l	0.19	<0.000276	0.000276	<0.000276	0.000276	<0.000276	0.000276	<0.000276	0.000276
8260B	2-CHLOROTOLUENE	mg/l	0.24	<0.000375	0.000375	<0.000375	0.000375	<0.000375	0.000375	<0.000375	0.000375
8260B	4-CHLOROTOLUENE	mg/l	0.25	<0.000351	0.000351	<0.000351	0.000351	<0.000351	0.000351	<0.000351	0.000351
8260B	1,2-DIBROMO-3-CHLOROPROPANE	mg/l	0.0002	<0.00133	0.00133	<0.00133	0.00133	<0.00133	0.00133	<0.00133	0.00133
8260B	1,2-DIBROMOETHANE	mg/l	0.00005	<0.000381	0.000381	<0.000381	0.000381	<0.000381	0.000381	<0.000381	0.000381
8260B	DIBROMOMETHANE	mg/l	0.0083	<0.000346	0.000346	<0.000346	0.000346	<0.000346	0.000346	<0.000346	0.000346
8260B	1,2-DICHLOROBENZENE	mg/l	0.6	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349
8260B	1,3-DICHLOROBENZENE	mg/l	NA	<0.00022	0.00022	<0.00022	0.00022	<0.00022	0.00022	<0.00022	0.00022
8260B	1,4-DICHLOROBENZENE	mg/l	0.075	<0.000274	0.000274	<0.000274	0.000274	<0.000274	0.000274	<0.000274	0.000274
8260B	DICHLORODIFLUOROMETHANE	mg/l	0.2	<0.000551	0.000551	<0.000551	0.000551	<0.000551	0.000551	<0.000551	0.000551
8260B	1,1-DICHLOROETHANE	mg/l	0.0028	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259
8260B	1,2-DICHLOROETHANE	mg/l	0.005	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361	<0.000361	0.000361
8260B	1,1-DICHLOROETHENE	mg/l	0.007	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398
8260B	CIS-1,2-DICHLOROETHENE	mg/l	0.07	<0.00026	0.00026	<0.00026	0.00026	<0.00026	0.00026	<0.00026	0.00026
8260B	TRANS-1,2-DICHLOROETHENE	mg/l	0.1	<0.000396	0.000396	<0.000396	0.000396	<0.000396	0.000396	<0.000396	0.000396
8260B	1,2-DICHLOROPROPANE	mg/l	0.005	<0.000306	0.000306	<0.000306	0.000306	<0.000306	0.000306	<0.000306	0.000306
8260B	1,1-DICHLOROPROPENE	mg/l	NA	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352	<0.000352	0.000352
8260B	1,3-DICHLOROPROPANE	mg/l	0.37	<0.000366	0.000366	<0.000366	0.000366	<0.000366	0.000366	<0.000366	0.000366

TABLE 4
GROUNDWATER VOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-5		SPB-6		SPB-7		SPB-8	
Lab Sample ID				L903712-20		L903712-21		L903712-22		L903712-23	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8260B	CIS-1,3-DICHLOROPROPENE	mg/l	NA	<0.000418	0.000418	<0.000418	0.000418	<0.000418	0.000418	<0.000418	0.000418
8260B	TRANS-1,3-DICHLOROPROPENE	mg/l	NA	<0.000419	0.000419	<0.000419	0.000419	<0.000419	0.000419	<0.000419	0.000419
8260B	2,2-DICHLOROPROPANE	mg/l	NA	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321
8260B	DI-ISOPROPYL ETHER	mg/l	1.5	<0.00032	0.00032	<0.00032	0.00032	<0.00032	0.00032	<0.00032	0.00032
8260B	ETHYLBENZENE	mg/l	0.7	<0.000384	0.000384	<0.000384	0.000384	<0.000384	0.000384	<0.000384	0.000384
8260B	HEXACHLORO-1,3-BUTADIENE	mg/l	0.00014	<0.000256	0.000256	<0.000256	0.000256	<0.000256	0.000256	<0.000256	0.000256
8260B	ISOPROPYLBENZENE	mg/l	0.45	<0.000326	0.000326	<0.000326	0.000326	<0.000326	0.000326	<0.000326	0.000326
8260B	P-ISOPROPYLTOLUENE	mg/l	NA	<0.00035	0.00035	<0.00035	0.00035	<0.00035	0.00035	<0.00035	0.00035
8260B	2-BUTANONE (MEK)	mg/l	5.6	<0.00393	0.00393	<0.00393	0.00393	<0.00393	0.00393	<0.00393	0.00393
8260B	METHYLENE CHLORIDE	mg/l	0.005	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001
8260B	4-METHYL-2-PENTANONE (MIBK)	mg/l	6.3	<0.00214	0.00214	<0.00214	0.00214	<0.00214	0.00214	<0.00214	0.00214
8260B	METHYL TERT-BUTYL ETHER	mg/l	0.014	<0.000367	0.000367	<0.000367	0.000367	<0.000367	0.000367	0.00208	0.000367
8260B	NAPHTHALENE	mg/l	0.00017	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001
8260B	N-PROPYLBENZENE	mg/l	0.66	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349	<0.000349	0.000349
8260B	STYRENE	mg/l	0.1	<0.000307	0.000307	<0.000307	0.000307	<0.000307	0.000307	<0.000307	0.000307
8260B	1,1,1,2-TETRACHLOROETHANE	mg/l	0.00057	<0.000385	0.000385	<0.000385	0.000385	<0.000385	0.000385	<0.000385	0.000385
8260B	1,1,2,2-TETRACHLOROETHANE	mg/l	0.000076	<0.00013	0.00013	<0.00013	0.00013	<0.00013	0.00013	<0.00013	0.00013
8260B	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/l	55	<0.000303	0.000303	<0.000303	0.000303	<0.000303	0.000303	<0.000303	0.000303
8260B	TETRACHLOROETHENE	mg/l	0.005	<0.000372	0.000372	<0.000372	0.000372	<0.000372	0.000372	<0.000372	0.000372
8260B	TOLUENE	mg/l	1.0	<0.000412	0.000412	<0.000412	0.000412	<0.000412	0.000412	<0.000412	0.000412
8260B	1,2,3-TRICHLOROBENZENE	mg/l	0.007	<0.00023	0.00023	<0.00023	0.00023	<0.00023	0.00023	<0.00023	0.00023
8260B	1,2,4-TRICHLOROBENZENE	mg/l	0.07	<0.000355	0.000355	<0.000355	0.000355	<0.000355	0.000355	<0.000355	0.000355
8260B	1,1,1-TRICHLOROETHANE	mg/l	0.2	<0.000319	0.000319	<0.000319	0.000319	<0.000319	0.000319	<0.000319	0.000319
8260B	1,1,2-TRICHLOROETHANE	mg/l	0.005	<0.000383	0.000383	<0.000383	0.000383	<0.000383	0.000383	<0.000383	0.000383
8260B	TRICHLOROETHENE	mg/l	0.005	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398	<0.000398	0.000398
8260B	TRICHLOROFLUOROMETHANE	mg/l	5.2	<0.0012	0.0012	<0.0012	0.0012	<0.0012	0.0012	<0.0012	0.0012
8260B	1,2,3-TRICHLOROPROPANE	mg/l	0.00000075	<0.000807	0.000807	<0.000807	0.000807	<0.000807	0.000807	<0.000807	0.000807
8260B	1,2,4-TRIMETHYLBENZENE	mg/l	0.015	<0.000373	0.000373	<0.000373	0.000373	<0.000373	0.000373	<0.000373	0.000373
8260B	1,2,3-TRIMETHYLBENZENE	mg/l	0.01	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321	<0.000321	0.000321
8260B	1,3,5-TRIMETHYLBENZENE	mg/l	0.12	<0.000387	0.000387	<0.000387	0.000387	<0.000387	0.000387	<0.000387	0.000387
8260B	VINYL CHLORIDE	mg/l	0.002	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259	<0.000259	0.000259
8260B	XYLENES, TOTAL	mg/l	10	<0.00106	0.00106	<0.00106	0.00106	<0.00106	0.00106	<0.00106	0.00106
8015D	TPH-GRO	mg/l	1.0	<0.0314	0.0314	<0.0314	0.0314	<0.0314	0.0314	<0.0314	0.0314

Notes:

mg/l - milligrams per liter

MDL - Method Detection Limit

RSLs - EPA Regional Screen Levels May 2016 (MCLs and tap water)

NA - Not Available

Red indicates Utah Initial Screening Level (ISL)

Bold numbers exceed the MDL.

Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

TABLE 5
GROUNDWATER SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2		SPB-3		SPB-4		SPB-5		SPB-6	
Lab Sample ID				L903712-16		L903712-17		L903712-18		L903712-19		L903712-20		L903712-21	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8270C	ACENAPHTHENE	mg/l	0.53	<0.000417	0.000417	<0.000316	0.000316	<0.000288	0.000288	<0.000316	0.000316	<0.000316	0.000316	<0.000288	0.000288
8270C	ACENAPHTHYLENE	mg/l	NA	<0.000408	0.000408	<0.000309	0.000309	<0.000281	0.000281	<0.000309	0.000309	<0.000309	0.000309	<0.000281	0.000281
8270C	ANTHRACENE	mg/l	1.8	<0.000384	0.000384	<0.000291	0.000291	<0.000265	0.000265	<0.000291	0.000291	<0.000291	0.000291	<0.000265	0.000265
8270C	BENZIDINE	mg/l	0.00000011	<0.0057	0.0057	<0.00432	0.00432	<0.00393	0.00393	<0.00432	0.00432	<0.00432	0.00432	<0.00393	0.00393
8270C	BENZO(A)ANTHRACENE	mg/l	0.000012	<0.000129	0.000129	<0.0000975	0.0000975	<0.0000887	0.0000887	<0.0000975	0.0000975	<0.0000975	0.0000975	<0.0000887	0.0000887
8270C	BENZO(B)FLUORANTHENE	mg/l	0.000034	<0.000118	0.000118	<0.0000896	0.0000896	<0.0000815	0.0000815	<0.0000896	0.0000896	<0.0000896	0.0000896	<0.0000815	0.0000815
8270C	BENZO(K)FLUORANTHENE	mg/l	0.00034	<0.000469	0.000469	<0.000355	0.000355	<0.000323	0.000323	<0.000355	0.000355	<0.000355	0.000355	<0.000323	0.000323
8270C	BENZO(G,H,I)PERYLENE	mg/l	NA	<0.000212	0.000212	<0.000161	0.000161	<0.000146	0.000146	<0.000161	0.000161	<0.000161	0.000161	<0.000146	0.000146
8270C	BENZO(A)PYRENE	mg/l	0.0002	<0.000449	0.000449	<0.00034	0.00034	<0.000309	0.000309	<0.00034	0.00034	<0.00034	0.00034	<0.000309	0.000309
8270C	BIS(2-CHLORETHOXY)METHANE	mg/l	0.059	<0.000434	0.000434	<0.000329	0.000329	<0.000299	0.000299	<0.000329	0.000329	<0.000329	0.000329	<0.000299	0.000299
8270C	BIS(2-CHLOROETHYL)ETHER	mg/l	0.000014	<0.00214	0.00214	<0.00162	0.00162	<0.00147	0.00147	<0.00162	0.00162	<0.00162	0.00162	<0.00147	0.00147
8270C	BIS(2-CHLOROISOPROPYL)ETHER	mg/l	NA	<0.000587	0.000587	<0.000445	0.000445	<0.000405	0.000405	<0.000445	0.000445	<0.000445	0.000445	<0.000405	0.000405
8270C	4-BROMOPHENYL-PHENYLEETHER	mg/l	NA	<0.000442	0.000442	<0.000335	0.000335	<0.000305	0.000305	<0.000335	0.000335	<0.000335	0.000335	<0.000305	0.000305
8270C	2-CHLORONAPHTHALENE	mg/l	0.75	<0.000436	0.000436	<0.00033	0.00033	<0.0003	0.0003	<0.00033	0.00033	<0.00033	0.00033	<0.0003	0.0003
8270C	4-CHLOROPHENYL-PHENYLEETHER	mg/l	NA	<0.0004	0.0004	<0.000303	0.000303	<0.000276	0.000276	<0.000303	0.000303	<0.000303	0.000303	<0.000276	0.000276
8270C	CHRYSENE	mg/l	0.0034	<0.000438	0.000438	<0.000332	0.000332	<0.000302	0.000302	<0.000332	0.000332	<0.000332	0.000332	<0.000302	0.000302
8270C	DIBENZ(A,H)ANTHRACENE	mg/l	0.0000034	<0.000368	0.000368	<0.000279	0.000279	<0.000254	0.000254	<0.000279	0.000279	<0.000279	0.000279	<0.000254	0.000254
8270C	3,3-DICHLOROBENZIDINE	mg/l	0.00013	<0.00267	0.00267	<0.00202 J4	0.00202	<0.00184	0.00184	<0.00202 J4	0.00202	<0.00202 J4	0.00202	<0.00184	0.00184
8270C	2,4-DINITROTOLUENE	mg/l	0.00024	<0.00218	0.00218	<0.00165	0.00165	<0.0015	0.0015	<0.00165	0.00165	<0.00165	0.00165	<0.0015	0.0015
8270C	2,6-DINITROTOLUENE	mg/l	0.000049	<0.000368	0.000368	<0.000279	0.000279	<0.000254	0.000254	<0.000279	0.000279	<0.000279	0.000279	<0.000254	0.000254
8270C	FLUORANTHENE	mg/l	0.8	<0.000409	0.000409	<0.00031	0.00031	<0.000282	0.000282	<0.00031	0.00031	<0.00031	0.00031	<0.000282	0.000282
8270C	FLUORENE	mg/l	0.29	<0.000426	0.000426	<0.000323	0.000323	<0.000294	0.000294	<0.000323	0.000323	<0.000323	0.000323	<0.000294	0.000294
8270C	HEXACHLOROBENZENE	mg/l	0.001	<0.00045	0.00045	<0.000341	0.000341	<0.00031	0.00031	<0.000341	0.000341	<0.000341	0.000341	<0.00031	0.00031
8270C	HEXACHLORO-1,3-BUTADIENE	mg/l	0.00014	<0.000434	0.000434	<0.000329	0.000329	<0.000299	0.000299	<0.000329	0.000329	<0.000329	0.000329	<0.000299	0.000299
8270C	HEXACHLOROCYCLOPENTADIENE	mg/l	0.05	<0.00308	0.00308	<0.00233	0.00233	<0.00212	0.00212	<0.00233	0.00233	<0.00233	0.00233	<0.00212	0.00212
8270C	HEXACHLOROETHANE	mg/l	0.00033	<0.000482	0.000482	<0.000365	0.000365	<0.000332	0.000332	<0.000365	0.000365	<0.000365	0.000365	<0.000332	0.000332
8270C	INDENO(1,2,3-CD)PYRENE	mg/l	0.000034	<0.000368	0.000368	<0.000279	0.000279	<0.000254	0.000254	<0.000279	0.000279	<0.000279	0.000279	<0.000254	0.000254
8270C	ISOPHORONE	mg/l	0.078	<0.000359	0.000359	<0.000272	0.000272	<0.000248	0.000248	<0.000272	0.000272	<0.000272	0.000272	<0.000248	0.000248
8270C	NAPHTHALENE	mg/l	0.00017	<0.000491	0.000491	<0.000372	0.000372	<0.000338	0.000338	<0.000372	0.000372	<0.000372	0.000372	<0.000338	0.000338
8270C	NITROBENZENE	mg/l	0.00014	<0.000484	0.000484	<0.000367	0.000367	<0.000334	0.000334	<0.000367	0.000367	<0.000367	0.000367	<0.000334	0.000334
8270C	N-NITROSODIMETHYLAMINE	mg/l	0.00000011	<0.00166	0.00166	<0.00126	0.00126	<0.00115	0.00115	<0.00126	0.00126	<0.00126	0.00126	<0.00115	0.00115
8270C	N-NITROSODIPHENYLAMINE	mg/l	0.012	<0.000401	0.000401	<0.000304	0.000304	<0.000277	0.000277	<0.000304	0.000304	<0.000304	0.000304	<0.000277	0.000277
8270C	N-NITROSODI-N-PROPYLAMINE	mg/l	0.000011	<0.000532	0.000532	<0.000403	0.000403	<0.000367	0.000367	<0.000403	0.000403	<0.000403	0.000403	<0.000367	0.000367
8270C	PHENANTHRENE	mg/l	NA	<0.000483	0.000483	<0.000366	0.000366	<0.000333	0.000333	<0.000366	0.000366	<0.000366	0.000366	<0.000333	0.000333
8270C	BENZYL BUTYL PHTHALATE	mg/l	0.016	<0.000363	0.000363	<0.000275	0.000275	<0.00025	0.00025	<0.000275	0.000275	<0.000275	0.000275	<0.00025	0.00025
8270C	BIS(2-ETHYLHEXYL)PHTHALATE	mg/l	0.006	<0.000936	0.000936	<0.000709	0.000709	<0.000645	0.000645	<0.000709	0.000709	<0.000709	0.000709	<0.000645	0.000645
8270C	DI-N-BUTYL PHTHALATE	mg/l	0.9	<0.000351	0.000351	0.000537 J	0.000266	0.000796 J	0.000242	0.000628 J	0.000266	0.00125 J	0.000266	0.000430 J	0.000242
8270C	DIETHYL PHTHALATE	mg/l	15	<0.000372	0.000372	0.000377 B J	0.000282	<0.000257	0.000257	0.000333 B J	0.000282	0.000335 B J	0.000282	<0.000257	0.000257
8270C	DIMETHYL PHTHALATE	mg/l	NA	<0.000374	0.000374	<0.000283	0.000283	<0.000258	0.000258	<0.000283	0.000283	<0.000283	0.000283	<0.000258	0.000258
8270C	DI-N-OCTYL PHTHALATE	mg/l	0.2	<0.000367	0.000367	<0.000278	0.000278	<0.000253	0.000253	<0.000278	0.000278	<0.000278	0.000278	<0.000253	0.000253

TABLE 5
GROUNDWATER SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2		SPB-3		SPB-4		SPB-5		SPB-6	
Lab Sample ID				L903712-16		L903712-17		L903712-18		L903712-19		L903712-20		L903712-21	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
8270C	PYRENE	mg/l	0.12	<0.000436	0.000436	<0.00033	0.00033	<0.0003	0.0003	<0.00033	0.00033	<0.00033	0.00033	<0.0003	0.0003
8270C	1,2,4-TRICHLOROBENZENE	mg/l	0.07	<0.000469	0.000469	<0.000355	0.000355	<0.000323	0.000323	<0.000355	0.000355	<0.000355	0.000355	<0.000323	0.000323
8270C	4-CHLORO-3-METHYLPHENOL	mg/l	1.4	<0.000347	0.000347	<0.000263	0.000263	<0.000239	0.000239	<0.000263	0.000263	<0.000263	0.000263	<0.000239	0.000239
8270C	2-CHLOROPHENOL	mg/l	0.091	<0.000374	0.000374	<0.000283	0.000283	<0.000258	0.000258	<0.000283	0.000283	<0.000283	0.000283	<0.000258	0.000258
8270C	2,4-DICHLOROPHENOL	mg/l	0.046	<0.000375	0.000375	<0.000284	0.000284	<0.000258	0.000258	<0.000284	0.000284	<0.000284	0.000284	<0.000258	0.000258
8270C	2,4-DIMETHYLPHENOL	mg/l	0.36	<0.000824	0.000824	<0.000624	0.000624	<0.000568	0.000568	<0.000624	0.000624	<0.000624	0.000624	<0.000568	0.000568
8270C	4,6-DINITRO-2-METHYLPHENOL	mg/l	0.0015	<0.00346	0.00346	<0.00262	0.00262	<0.00238	0.00238	<0.00262	0.00262	<0.00262	0.00262	<0.00238	0.00238
8270C	2,4-DINITROPHENOL	mg/l	0.039	<0.00429	0.00429	<0.00325	0.00325	<0.00296	0.00296	<0.00325	0.00325	<0.00325	0.00325	<0.00296	0.00296
8270C	2-NITROPHENOL	mg/l	NA	<0.000422	0.000422	<0.00032	0.00032	<0.000291	0.000291	<0.00032	0.00032	<0.00032	0.00032	<0.000291	0.000291
8270C	4-NITROPHENOL	mg/l	NA	<0.00265	0.00265	<0.00201	0.00201	<0.00183	0.00183	<0.00201	0.00201	<0.00201	0.00201	<0.00183	0.00183
8270C	PENTACHLOROPHENOL	mg/l	0.001	<0.000413	0.000413	<0.000313	0.000313	<0.000285	0.000285	<0.000313	0.000313	<0.000313	0.000313	<0.000285	0.000285
8270C	PHENOL	mg/l	5.8	<0.000441	0.000441	<0.000334	0.000334	<0.000304	0.000304	<0.000334	0.000334	<0.000334	0.000334	<0.000304	0.000304
8270C	2,4,6-TRICHLOROPHENOL	mg/l	0.0041	<0.000392	0.000392	<0.000297	0.000297	<0.00027	0.00027	<0.000297	0.000297	<0.000297	0.000297	<0.00027	0.00027
8015	TPH-DRO	mg/l	1.0	0.229	0.0247	0.614	0.0494	0.195	0.0247	0.163	0.0247	0.164	0.0247	0.21	0.0247

Notes:
mg/l - milligrams per liter
MDL - Method Detection Limit
RSLs - EPA Regional Screen Levels May 2016 (MCLs and tap water)
NA - Not Available
Red indicates Utah Initial Screen Level (ISL)
Bold numbers exceed the MDL.
Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

Qualifiers:
B: The same analyte is found in the associated blank .
J: The identification of the analyte is acceptable; the reported value is an estimate
J4: The associated batch QC was outside the established quality control range for accuracy

TABLE 5
GROUNDWATER SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-7		SPB-8	
Lab Sample ID				L903712-22		L903712-23	
Date Collected				04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL
8270C	ACENAPHTHENE	mg/l	0.53	<0.000288	0.000288	<0.000288	0.000288
8270C	ACENAPHTHYLENE	mg/l	NA	<0.000281	0.000281	<0.000281	0.000281
8270C	ANTHRACENE	mg/l	1.8	<0.000265	0.000265	<0.000265	0.000265
8270C	BENZIDINE	mg/l	0.00000011	<0.00393	0.00393	<0.00393	0.00393
8270C	BENZO(A)ANTHRACENE	mg/l	0.000012	<0.0000887	0.0000887	<0.0000887	0.0000887
8270C	BENZO(B)FLUORANTHENE	mg/l	0.000034	<0.0000815	0.0000815	<0.0000815	0.0000815
8270C	BENZO(K)FLUORANTHENE	mg/l	0.00034	<0.000323	0.000323	<0.000323	0.000323
8270C	BENZO(G,H,I)PERYLENE	mg/l	NA	<0.000146	0.000146	<0.000146	0.000146
8270C	BENZO(A)PYRENE	mg/l	0.0002	<0.000309	0.000309	<0.000309	0.000309
8270C	BIS(2-CHLORETHOXY)METHANE	mg/l	0.059	<0.000299	0.000299	<0.000299	0.000299
8270C	BIS(2-CHLOROETHYL)ETHER	mg/l	0.000014	<0.00147	0.00147	<0.00147	0.00147
8270C	BIS(2-CHLOROISOPROPYL)ETHER	mg/l	NA	<0.000405	0.000405	<0.000405	0.000405
8270C	4-BROMOPHENYL-PHENYLEETHER	mg/l	NA	<0.000305	0.000305	<0.000305	0.000305
8270C	2-CHLORONAPHTHALENE	mg/l	0.75	<0.0003	0.0003	<0.0003	0.0003
8270C	4-CHLOROPHENYL-PHENYLEETHER	mg/l	NA	<0.000276	0.000276	<0.000276	0.000276
8270C	CHRYSENE	mg/l	0.0034	<0.000302	0.000302	<0.000302	0.000302
8270C	DIBENZ(A,H)ANTHRACENE	mg/l	0.0000034	<0.000254	0.000254	<0.000254	0.000254
8270C	3,3-DICHLOROBENZIDINE	mg/l	0.00013	<0.00184	0.00184	<0.00184	0.00184
8270C	2,4-DINITROTOLUENE	mg/l	0.00024	<0.0015	0.0015	<0.0015	0.0015
8270C	2,6-DINITROTOLUENE	mg/l	0.000049	<0.000254	0.000254	<0.000254	0.000254
8270C	FLUORANTHENE	mg/l	0.8	<0.000282	0.000282	<0.000282	0.000282
8270C	FLUORENE	mg/l	0.29	<0.000294	0.000294	<0.000294	0.000294
8270C	HEXACHLOROBENZENE	mg/l	0.001	<0.00031	0.00031	<0.00031	0.00031
8270C	HEXACHLORO-1,3-BUTADIENE	mg/l	0.00014	<0.000299	0.000299	<0.000299	0.000299
8270C	HEXACHLOROCYCLOPENTADIENE	mg/l	0.05	<0.00212	0.00212	<0.00212	0.00212
8270C	HEXACHLOROETHANE	mg/l	0.00033	<0.000332	0.000332	<0.000332	0.000332
8270C	INDENO(1,2,3-CD)PYRENE	mg/l	0.000034	<0.000254	0.000254	<0.000254	0.000254
8270C	ISOPHORONE	mg/l	0.078	<0.000248	0.000248	<0.000248	0.000248
8270C	NAPHTHALENE	mg/l	0.00017	<0.000338	0.000338	<0.000338	0.000338
8270C	NITROBENZENE	mg/l	0.00014	<0.000334	0.000334	<0.000334	0.000334
8270C	N-NITROSODIMETHYLAMINE	mg/l	0.00000011	<0.00115	0.00115	<0.00115	0.00115
8270C	N-NITROSODIPHENYLAMINE	mg/l	0.012	<0.000277	0.000277	<0.000277	0.000277
8270C	N-NITROSODI-N-PROPYLAMINE	mg/l	0.000011	<0.000367	0.000367	<0.000367	0.000367
8270C	PHENANTHRENE	mg/l	NA	<0.000333	0.000333	<0.000333	0.000333
8270C	BENZYL BUTYL PHTHALATE	mg/l	0.016	<0.00025	0.00025	<0.00025	0.00025
8270C	BIS(2-ETHYLHEXYL)PHTHALATE	mg/l	0.006	<0.000645	0.000645	<0.000645	0.000645
8270C	DI-N-BUTYL PHTHALATE	mg/l	0.9	0.000556 J	0.000242	0.000586 J	0.000242
8270C	DIETHYL PHTHALATE	mg/l	15	<0.000257	0.000257	<0.000257	0.000257
8270C	DIMETHYL PHTHALATE	mg/l	NA	<0.000258	0.000258	<0.000258	0.000258
8270C	DI-N-OCTYL PHTHALATE	mg/l	0.2	<0.000253	0.000253	<0.000253	0.000253

TABLE 5
GROUNDWATER SVOC ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-7		SPB-8	
Lab Sample ID				L903712-22		L903712-23	
Date Collected				04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL
8270C	PYRENE	mg/l	0.12	<0.0003	0.0003	<0.0003	0.0003
8270C	1,2,4-TRICHLOROBENZENE	mg/l	0.07	<0.000323	0.000323	<0.000323	0.000323
8270C	4-CHLORO-3-METHYLPHENOL	mg/l	1.4	<0.000239	0.000239	<0.000239	0.000239
8270C	2-CHLOROPHENOL	mg/l	0.091	<0.000258	0.000258	<0.000258	0.000258
8270C	2,4-DICHLOROPHENOL	mg/l	0.046	<0.000258	0.000258	<0.000258	0.000258
8270C	2,4-DIMETHYLPHENOL	mg/l	0.36	<0.000568	0.000568	<0.000568	0.000568
8270C	4,6-DINITRO-2-METHYLPHENOL	mg/l	0.0015	<0.00238	0.00238	<0.00238	0.00238
8270C	2,4-DINITROPHENOL	mg/l	0.039	<0.00296	0.00296	<0.00296	0.00296
8270C	2-NITROPHENOL	mg/l	NA	<0.000291	0.000291	<0.000291	0.000291
8270C	4-NITROPHENOL	mg/l	NA	<0.00183	0.00183	<0.00183	0.00183
8270C	PENTACHLOROPHENOL	mg/l	0.001	<0.000285	0.000285	<0.000285	0.000285
8270C	PHENOL	mg/l	5.8	<0.000304	0.000304	<0.000304	0.000304
8270C	2,4,6-TRICHLOROPHENOL	mg/l	0.0041	<0.00027	0.00027	<0.00027	0.00027
8015	TPH-DRO	mg/l	1.0	0.117	0.0247	0.14	0.0247

Notes:
mg/l - milligrams per liter
MDL - Method Detection Limit
RSLs - EPA Regional Screen Levels May 2016 (MCLs and tap water)
NA - Not Available
Red indicates Utah Initial Screen Level (ISL)
Bold numbers exceed the MDL.
Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

Qualifiers:
B: The same analyte is found in the associated blank .
J: The identification of the analyte is acceptable; the reported value is an estimate
J4: The associated batch QC was outside the established quality control range for accu

TABLE 6
GROUNDWATER DISSOLVED METALS ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-1		SPB-2		SPB-3		SPB-4		SPB-5		SPB-6		SPB-7		SPB-8	
Lab Sample ID				L903712-16		L903712-17		L903712-18		L903712-19		L903712-20		L903712-21		L903712-22		L903712-23	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
6010B	ARSENIC	mg/l	0.01	<0.0065	0.0065	<0.0065	0.0065	<0.0065	0.0065	<0.0065	0.0065	<0.0065	0.0065	<0.0065	0.0065	<0.0065	0.0065	<0.0065	0.0065
6010B	BARIUM	mg/l	2.0	0.225	0.0017	0.197	0.0017	0.114	0.0017	0.155	0.0017	0.2	0.0017	0.137	0.0017	0.0997	0.0017	0.26	0.0017
6010B	CADMIUM	mg/l	0.005	<0.0007	0.0007	<0.0007	0.0007	<0.0007	0.0007	<0.0007	0.0007	<0.0007	0.0007	<0.0007	0.0007	<0.0007	0.0007	<0.0007	0.0007
6010B	CHROMIUM	mg/l	0.1	<0.0014	0.0014	0.00182 J	0.0014	0.00291 J	0.0014	0.00241 J	0.0014	0.00204 J	0.0014	0.00249 J	0.0014	0.00148 J	0.0014	0.00160 J	0.0014
6010B	LEAD	mg/l	0.015	0.00269 J	0.0019	<0.0019	0.0019	0.00376 J	0.0019	0.00298 J	0.0019	0.00364 J	0.0019	0.00458 J	0.0019	0.00230 J	0.0019	0.00201 J	0.0019
6010B	SELENIUM	mg/l	0.05	<0.0074	0.0074	<0.0074	0.0074	<0.0074	0.0074	<0.0074	0.0074	<0.0074	0.0074	<0.0074	0.0074	<0.0074	0.0074	<0.0074	0.0074
6010B	SILVER	mg/l	0.094	<0.0028	0.0028	<0.0028	0.0028	<0.0028	0.0028	<0.0028	0.0028	<0.0028	0.0028	<0.0028	0.0028	<0.0028	0.0028	<0.0028	0.0028
7470A	MERCURY	mg/l	0.002	<0.000049	0.000049	<0.000049	0.000049	<0.000049	0.000049	<0.000049	0.000049	<0.000049	0.000049	<0.000049	0.000049	<0.000049	0.000049	<0.000049	0.000049

Notes:

mg/l - milligrams per liter

MDL - Method Detection Limit

RSLs - EPA Regional Screen Levels May 2016 (MCLs and tap water)

NA - Not Available

Bold numbers exceed the MDL.

Bold and yellow highlighted numbers exceed RSL(s) and/or ISL.

Qualifiers:

J: The identification of the analyte is acceptable; the reported value is an estimate

TABLE 3
SOIL METALS ANALYTICAL RESULTS
OGDEN CITY SWIFT BUILDING
OGDEN, UTAH

Client Sample ID				SPB-5-2		SPB-6-1		SPB-6-2		SPB-7-1		SPB-7-2		SPB-8-1		SPB-8-2	
Lab Sample ID				L903712-09		L903712-10		L903712-11		L903712-12		L903712-13		L903712-14		L903712-15	
Date Collected				04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017		04/19/2017	
Depth of Sample				5.0*		4.5*		8.0*		3.0*		8.0*		3.0 - 4.0		8.0 - 9.0	
Method	Analyte	Units	RSLs	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
6010B	ARSENIC	mg/kg	3.0	5.68	0.704	6.36	0.765	4.6	0.77	3.35	0.735	10.4	0.975	5.37	0.858	6.98	0.931
6010B	BARIUM	mg/kg	220000	140	0.184	202	0.2	152	0.201	72	0.192	264	0.255	96	0.224	109	0.244
6010B	CADMIUM	mg/kg	980	0.795	0.0759	0.379 J	0.0824	0.422 J	0.0829	0.325 J	0.0792	1.18	0.105	0.261 J	0.0924	0.698 J	0.1
6010B	CHROMIUM	mg/kg	NA	17.1	0.152	8.35	0.165	9.22	0.166	8.26	0.158	10.7	0.21	10.6	0.185	8.44	0.201
6010B	LEAD	mg/kg	800	120	0.206	87.2	0.224	176	0.225	42.8	0.215	153	0.285	19.4	0.251	96.1	0.272
6010B	SELENIUM	mg/kg	5800	<0.802	0.802	<0.871	0.871	<0.876	0.876	<0.837	0.837	1.12 J	1.11	<0.976	0.976	<1.06	1.06
6010B	SILVER	mg/kg	5800	<0.303	0.303	<0.33	0.33	<0.332	0.332	<0.317	0.317	<0.42	0.42	<0.369	0.369	<0.401	0.401
7471A	MERCURY	mg/kg	46	1.24	0.00607	0.0581	0.0033	0.507	0.00332	0.12	0.00317	0.241	0.0042	0.0155 J	0.00369	0.76	0.00401

Notes:
NA - Not Available
mg/kg - milligram per kilogram
MDL - Method Detection Limit
RSLs - EPA Regional Screening Levels May 2016 (Indt
Bold numbers exceed the MDL.
Bold and yellow highlighted numbers exceed RSL(s) .
* - Soil sample depth value is based on methodology, n


Qualifiers:
J: The identification of the analyte is acceptable; the re
J3: The associated batch QC was outside the establish
J5: The sample matrix interfered with the ability to mak
J6: The sample matrix interfered with the ability to mak










APPENDIX A

Boring Logs

Boring No.: SPB-1

Project Name: Swift Property		Project No: 1781400457	Northing:	
Environmental Contractor:			Easting:	
Drilling Contractor: EarthProbe Environmental Services			Casing Elevation:	
Drilling Method: Direct Push		Well Type: Soil Boring	TOC Height AGL:	
Date Boring Started: 4/19/17		Date Boring Completed: 4/19/17	Drill Hole Depth (ft): 15	
Logged by: J. Thacker		Notes: Soil samples collected at 4 to 4.5 feet bgs (SB-1-1) and 8.4 to 8.8 feet bgs (SB-1-2)		Page 1 of 1
QA Check by: R. Kurz				

Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
			[NO RECOVERY] No recovery from 0 to 2.5 feet.					
	2							
			Silty GRAVEL [GM] brown to black-brown, moist gray-tan, some thin clay layers.		0		1	50
	4		Clayey SAND [SC] stiff, red-brown, damp Silty SAND [SM] black, damp brown, coarse grained sand with some gravel.	SS ROD				
			[NO RECOVERY] No recovery from 5 to 8.2 feet.					
	6							
	8				0		2	46
			Poorly Graded SAND [SP] brown, moist, with some gravel, sub-angular to sub-rounded.					
	10		[NO RECOVERY] No recovery from 9.1 to 13 feet	TEMP SS SCREEN				
	12							
			Sandy GRAVEL [GM] red-brown, wet, sub-rounded.		0		3	20
	14							
	16		End of boring 15 feet below ground surface. Groundwater encountered at 9.1 feet below ground surface.					
	18							

Boring No.: SPB-2

Project Name: Swift Property

Project No: 1781400457

Environmental Contractor:

Drilling Contractor: EarthProbe Environmental Services

Drilling Method: Direct Push

Well Type: Soil Boring

Date Boring Started: 4/19/17

Date Boring Completed: 4/19/17

Logged by: J. Thacker

QA Check by: R. Kurz

Northing:

Easting:

Casing Elevation:

TOC Height AGL:

Drill Hole Depth (ft): 10

Ground Surface Elevation:


Page 1 of 1


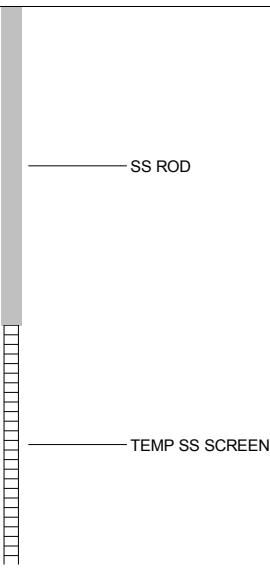








Notes: Soil samples collected at 3.5 to 4.7 ft bgs (SB-2-1) and 4.7 to 5.0 ft bgs (SB-2-2).

Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
			[NO RECOVERY] No recovery from 0 to 4 feet.					
	2	●		SS ROD	0		1	20
	4	■	Concrete fill [A CONCRETE] gray,.					
	4.7	■	Silty SAND [SM] black to brown-orange, damp, trace gravel, subrounded, staining, odors.					
	5	■	dark brown, moist, subangular.	TEMP SS SCREEN				
	6	●	[NO RECOVERY] No recovery from 5 to 8 feet.					
	8	■	Clayey SAND with Gravel [SC] brown, moist, fine grained s, <0.5 inch diameter gravel, subrounded to subangular.		0		2	40
	10		End of boring at 10 feet below ground surface. Groundwater encountered at 4.7 feet below ground surface.					
	12							
	14							
	16							
	18							

Boring No.: SPB-3

Project Name: Swift Property		Project No: 1781400457	Northing:	
Environmental Contractor:			Easting:	
Drilling Contractor: EarthProbe Environmental Services			Casing Elevation:	
Drilling Method: Direct Push		Well Type: Soil Boring	TOC Height AGL:	
Date Boring Started: 4/19/17		Date Boring Completed: 4/19/17	Drill Hole Depth (ft): 10	
Logged by: J. Thacker		Notes: Soil sample collected at 2.0 to 2.7 ft bgs (SB-3-1) and 3.5 to 4.2 ft bgs (SB-3-2).		Page 1 of 1
QA Check by: R. Kurz				

Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
			[NO RECOVERY] No recovery from 0 to 1.8 feet.					
	2		SILT with Sand [ML] dark brown, moist, organic matter.		0		1	64
			Silty SAND with Gravel [SM] dark brown to black, damp, trace gravel, subangular to subrounded.					
	4		Poorly Graded SAND [SP] brown, dry, medium grained, poorly sorted, subangular to subrounded.					
			Clayey SAND [SC] black, damp red-brown, dry					
			Silty SAND with Gravel [SM] white-tan to brown, damp, subrounded.					
	6		[NO RECOVERY] No recovery from 5 to 8 feet.					
	8		Clayey SAND [SC] brown, wet, .		0		2	40
			Silty SAND with Gravel [SM] brown, wet, medium to large grained sand, with subrounded gravel.					
	10		End of boring at 10 feet below ground surface. Groundwater encountered at 4.4 feet below ground surface.					
	12							
	14							
	16							
	18							

Boring No.: SPB-4

Project Name: Swift Property

Project No: 1781400457

Environmental Contractor:

Drilling Contractor: EarthProbe Environmental Services

Drilling Method: Direct Push

Well Type: Soil Boring

Date Boring Started: 4/19/17

Date Boring Completed: 4/19/17

Logged by: J. Thacker

QA Check by: R. Kurz

Northing:

Easting:

Casing Elevation:

TOC Height AGL:

Drill Hole Depth (ft): 10

Ground Surface Elevation:



Page 1 of 1

Notes: Soil sample collected at 3.2 to 3.7 ft bgs (SB-4-1) and 4.2 to 4.9 ft bgs (SB-4-2).

Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
			[NO RECOVERY] No recovery from 0 to 2.6 feet.					
	2							
			Silty SAND [SM] dark brown, dry, thin interbedded clay layers, slight odor.		0		1	48
	4		Poorly Graded SAND [SP] brown, dry, trace gravel, subrounded.					
			Clayey SAND [SC] red to dark brown, moist, black mottling, subangular to subrounded.					
			[NO RECOVERY] No recovery from 5 to 7.6 feet.					
	6							
			Silty SAND [SM] dark brown to brown, wet, trace gravel. gravels <1.0 inches in diameter.		0		2	48
	8							
	10		End of boring at 10 feet below ground surface. Groundwater encountered at 3.0 feet below ground surface.					
	12							
	14							
	16							
	18							

Boring No.: SPB-5

Project Name: Swift Property

Project No: 1781400457

Environmental Contractor:

Drilling Contractor: EarthProbe Environmental Services

Drilling Method: Direct Push

Well Type: Soil Boring

Date Boring Started: 4/19/17

Date Boring Completed: 4/19/17

Logged by: J. Thacker

QA Check by: R. Kurz

Notes: Soil samples collected at two intervals.

Northing:

Easting:

Casing Elevation:

TOC Height AGL:

Drill Hole Depth (ft): 15

Ground Surface Elevation:



Page 1 of 1

Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
			[NO RECOVERY] No recovery from 0 to 1.8 feet.					
	2		Silty SAND with Gravel [SM] black to dark brown, dry, some gravel, poorly sorted, staining, strong odor.		28		1	
					76		2	
			black staining.	SS ROD	4.5		3	
	4		Clayey SAND with Gravel [SC] light brown to brown, damp, slight odor.		2		4	64
			[NO RECOVERY] No recovery from 5 to 7.1 feet.					
	6				3.2		5	
			Clayey SAND with Gravel [SC] brown to dark brown, moist, glass shards present at 8.5 feet below ground surface.	TEMP SS SCREEN			7	58
	8				2.5		6	
			Silty, Clayey SAND [SM] brown to brown-orange, moist trace gravel, subrounded.					
	10		Silty GRAVEL with Sand [GM] brown-orange, moist, angular to subrounded.					
	12							
	14						8	100
	16		End of boring at 15 feet below ground surface. Groundwater encountered at 6.3 feet below ground surface.					
	18							

Boring No.: SPB-6

Project Name: Swift Property

Project No: 1781400457

Environmental Contractor:

Drilling Contractor: EarthProbe Environmental Services

Drilling Method: Direct Push

Well Type: Soil Boring

Date Boring Started: 4/19/17

Date Boring Completed: 4/19/17

Logged by: J. Thacker

Notes: Soil samples collected at two intervals.

QA Check by: R. Kurz

Northing:

Easting:

Casing Elevation:

TOC Height AGL:

Drill Hole Depth (ft): 15


Ground Surface Elevation:

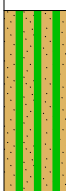



Page 1 of 1

Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
		●	[NO RECOVERY] No recovery from 0 to 1 foot.					
	2		Sandy SILT with Gravel [ML] brown, damp, trace gravel, angular to subangular, black staining.					
			Silty SAND [SM] brown to dark brown, damp trace gravel.		0		1	80
	4		Clayey SAND [SC] dark brown, damp, trace gravel. black staining. light to medium brown	SS ROD				
	6	●	[NO RECOVERY] No recovery from 5 to 8 feet.					
	8		Clayey SAND [SC] dark brown, damp, trace gravel, black staining.		0		2	40
			Silty SAND [SM] dark brown, damp, fine to very fine grained, trace gravel.	TEMP SS SCREEN				
	10		[NO RECOVERY] No recovery from 10 to 14.2 feet.					
	12	●						
	14		Silty SAND with Gravel [SM] brown, moist, coarse grained, some gravel, subangular to subrounded.		0		3	16
	16		End of boring at 15 feet below ground surface. Groundwater encountered at 7.3 feet below ground surface.					
	18							

Boring No.: SPB-7

Project Name: Swift Property		Project No: 1781400457	Northing:	
Environmental Contractor:			Easting:	
Drilling Contractor: EarthProbe Environmental Services			Casing Elevation:	
Drilling Method: Direct Push		Well Type: Soil Boring	TOC Height AGL:	
Date Boring Started: 4/19/17		Date Boring Completed: 4/19/17	Drill Hole Depth (ft): 10	
Logged by: J. Thacker		Notes: Soil samples collected at two intervals.		Page 1 of 1
QA Check by: R. Kurz				

Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
	0		[NO RECOVERY] No recovery from 0 to 2.7 feet.					
	2							
	4		Silty SAND with Gravel [SM] dark brown to light brown, moist, some gravel, plant roots. black staining, trace gravel. red-orange to dark brown, damp to moist	SS ROD	0		1	46
	6		[NO RECOVERY] No recovery from 5 to 8 feet.					
	8			TEMP SS SCREEN	0		2	40
	10		Well-graded GRAVEL with Sand [GW] brown, wet, subangular to subrounded, gravel content increases as depth extends to 10 feet.					
	12		End of boring at 10 feet below ground surface. Groundwater encountered at 7.0 feet below ground surface.					
	14							
	16							
	18							

Boring No.: SPB-8

Project Name: Swift Property

Project No: 1781400457

Northing:

Easting:

Environmental Contractor:

Casing Elevation:

Drilling Contractor: EarthProbe Environmental Services

TOC Height AGL:

Drilling Method: Direct Push

Well Type: Soil Boring

Drill Hole Depth (ft): 10

Date Boring Started: 4/19/17

Date Boring Completed: 4/19/17

Ground Surface Elevation:

Page 1 of 1

Logged by: J. Thacker

Notes: Soil samples collected at 3 to 4 ft bgs (SB-8-1) and 8 to 9 ft bgs (SB-8-2)

QA Check by: R. Kurz



Elevation (feet)	Depth (feet)	Legend	Material Description	Well Construction	PID (ppm)	Blow Count	Sample Interval	Recovery (inch)
			[NO RECOVERY] No recovery from 0 to 2.3 feet.					
	2							
			Silty SAND with Gravel [SM] dark brown to light brown, damp, trace gravel, subangular to subrounded, plant roots from 2.3 to 2.4 feet.	SS ROD	0		1	54
	4		Clayey SAND [SC] black, dry, trace gravel, white motteling. brown, damp					
	6		[NO RECOVERY] No recovery from 5 to 7.5 feet.					
	8		Clayey SAND [SC] brown, damp, trace gravel.	TEMP SS SCREEN	0		2	50
			Silty SAND with Gravel [SM] dark brown to gray, damp, black staining, trace gravel.					
	10		Silty GRAVEL with Sand [GM] brown, damp, <0.5 inch in diameter gravels.					
			End of boring at 10 feet below ground surface. Groundwater encountered at 6.8 feet below ground surface.					
	12							
	14							
	16							
	18							



APPENDIX B

Analytical Laboratory Report

AMEC Earth & Environmental - UT

Sample Delivery Group: L903712
Samples Received: 04/20/2017
Project Number: 17-0063
Description: Swift Property

Report To: Scott Wheeler
9865 South 500 West
Sandy, UT 84070

Entire Report Reviewed By:



Daphne Richards
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.



¹ Cp: Cover Page	1
² Tc: Table of Contents	2
³ Ss: Sample Summary	4
⁴ Cn: Case Narrative	9
⁵ Sr: Sample Results	10
SPB-1 L903712-01	10
SPB-2-1 L903712-02	14
SPB-2-2 L903712-03	18
SPB-3-1 L903712-04	22
SPB-3-2 L903712-05	26
SPB-4-1 L903712-06	30
SPB-4-2 L903712-07	34
SPB-5-1 L903712-08	38
SPB-5-2 L903712-09	42
SPB-6-1 L903712-10	46
SPB-6-2 L903712-11	50
SPB-7-1 L903712-12	54
SPB-7-2 L903712-13	58
SPB-8-1 L903712-14	62
SPB-8-2 L903712-15	66
SPB-1 L903712-16	70
SPB-2 L903712-17	73
SPB-3 L903712-18	76
SPB-4 L903712-19	79
SPB-5 L903712-20	82
SPB-6 L903712-21	85
SPB-7 L903712-22	88
SPB-8 L903712-23	91
⁶ Qc: Quality Control Summary	94
Total Solids by Method 2540 G-2011	94
Mercury by Method 7470A	97
Mercury by Method 7471A	98
Metals (ICP) by Method 6010B	99
Volatile Organic Compounds (GC) by Method 8015D/GRO	101
Volatile Organic Compounds (GC/MS) by Method 8260B	103
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	113
Semi-Volatile Organic Compounds (GC) by Method 8015	114
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	115
⁷ Gl: Glossary of Terms	131
⁸ Al: Accreditations & Locations	132





⁹Sc: Chain of Custody

133

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



SPB-1 L903712-01 Solid

Collected by
J. ThackerCollected date/time
04/19/17 09:40Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972288	1	04/20/17 11:01	04/20/17 11:11	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 13:50	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 14:58	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/22/17 22:05	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 18:44	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	1	04/21/17 09:02	04/24/17 12:38	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973554	1	04/24/17 14:08	04/25/17 05:56	KMP

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

SPB-2-1 L903712-02 Solid

Collected by
J. ThackerCollected date/time
04/19/17 10:25Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972288	1	04/20/17 11:01	04/20/17 11:11	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:15	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:00	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/22/17 22:27	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 19:05	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	1	04/21/17 09:02	04/22/17 14:53	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	1	04/24/17 14:08	04/25/17 09:02	KMP

SPB-2-2 L903712-03 Solid

Collected by
J. ThackerCollected date/time
04/19/17 10:25Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972288	1	04/20/17 11:01	04/20/17 11:11	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:18	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:08	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/22/17 22:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 19:26	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	1	04/21/17 09:02	04/22/17 15:04	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973554	1	04/24/17 14:08	04/25/17 06:22	KMP

SPB-3-1 L903712-04 Solid

Collected by
J. ThackerCollected date/time
04/19/17 11:30Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972288	1	04/20/17 11:01	04/20/17 11:11	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:21	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:11	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/22/17 23:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 19:46	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	1	04/21/17 09:02	04/22/17 15:16	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	1	04/24/17 14:08	04/25/17 09:50	KMP

SPB-3-2 L903712-05 Solid

Collected by
J. ThackerCollected date/time
04/19/17 11:30Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:23	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:14	RDS

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SPB-3-2 L903712-05 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 11:30

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/22/17 23:34	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 20:07	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	100	04/21/17 09:02	04/22/17 17:19	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	100	04/24/17 14:08	04/25/17 10:57	KMP

¹ Cp

² Tc

³ Ss

⁴ Cn

SPB-4-1 L903712-06 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 12:15

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:31	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:16	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/22/17 23:56	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 20:28	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	100	04/21/17 09:02	04/22/17 17:30	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	1	04/24/17 14:08	04/25/17 09:27	KMP

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SPB-4-2 L903712-07 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 12:15

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	2	04/20/17 11:58	04/21/17 16:21	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:19	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 00:19	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 20:48	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	1	04/21/17 09:02	04/22/17 15:27	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	1	04/24/17 14:08	04/25/17 10:15	KMP

SPB-5-1 L903712-08 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 12:45

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:36	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:22	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	200	04/22/17 09:20	04/22/17 21:43	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	200	04/22/17 09:20	04/23/17 21:09	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	20	04/21/17 09:02	04/22/17 17:07	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	20	04/24/17 14:08	04/25/17 11:06	KMP

SPB-5-2 L903712-09 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 12:45

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	2	04/20/17 11:58	04/21/17 16:24	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:24	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 00:41	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 22:31	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	1	04/21/17 09:02	04/22/17 16:11	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973554	1	04/24/17 14:08	04/25/17 05:06	KMP

ACCOUNT:

AMEC Earth & Environmental - UT

PROJECT:

17-0063

SDG:

L903712

DATE/TIME:

04/25/17 18:51

PAGE:

5 of 135

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SPB-6-1 L903712-10 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 13:45

Received date/time
04/20/17 08:45

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:41	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:27	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 01:03	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 22:52	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	20	04/21/17 09:02	04/22/17 16:56	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	20	04/24/17 14:08	04/25/17 12:21	KMP

² Tc

³ Ss

⁴ Cn

⁵ Sr

SPB-6-2 L903712-11 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 13:45

Received date/time
04/20/17 08:45

⁶ Qc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:44	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:29	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 01:25	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 23:13	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	1	04/21/17 09:02	04/22/17 16:23	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	1	04/24/17 14:08	04/25/17 10:41	KMP

⁷ Gl

⁸ Al

⁹ Sc

SPB-7-1 L903712-12 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 14:40

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:46	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:32	RDS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 01:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 23:33	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	100	04/21/17 09:02	04/22/17 17:52	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	100	04/24/17 14:08	04/25/17 11:22	KMP

Collected by
J. Thacker

Collected date/time
04/19/17 14:40

Received date/time
04/20/17 08:45

SPB-7-2 L903712-13 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:49	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:40	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 02:10	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/23/17 23:54	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	10	04/21/17 09:02	04/24/17 12:49	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	1	04/24/17 14:08	04/25/17 11:31	KMP

Collected by
J. Thacker

Collected date/time
04/19/17 15:25

Received date/time
04/20/17 08:45

SPB-8-1 L903712-14 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972291	1	04/20/17 11:12	04/20/17 11:39	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:51	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:43	ST

ACCOUNT:

AMEC Earth & Environmental - UT

PROJECT:

17-0063

SDG:

L903712

DATE/TIME:

04/25/17 18:51

PAGE:

6 of 135

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SPB-8-1 L903712-14 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 15:25

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 02:32	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/24/17 00:14	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	10	04/21/17 09:02	04/24/17 13:01	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	1	04/24/17 14:08	04/25/17 11:56	KMP

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SPB-8-2 L903712-15 Solid

Collected by
J. Thacker

Collected date/time
04/19/17 15:25

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG972333	1	04/20/17 14:35	04/20/17 14:44	KDW
Mercury by Method 7471A	WG972271	1	04/20/17 11:58	04/21/17 14:54	TRB
Metals (ICP) by Method 6010B	WG972363	1	04/20/17 20:01	04/21/17 15:45	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG973065	1	04/22/17 09:20	04/23/17 02:54	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG973085	1	04/22/17 09:20	04/24/17 00:35	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG972471	100	04/21/17 09:02	04/22/17 17:41	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973349	20	04/24/17 14:08	04/25/17 11:48	KMP

SPB-1 L903712-16 GW

Collected by
J. Thacker

Collected date/time
04/19/17 09:40

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 10:56	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 11:51	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 15:30	04/21/17 15:30	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 15:49	04/21/17 15:49	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	1	04/24/17 21:09	04/25/17 14:48	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG972495	1.32	04/21/17 08:56	04/21/17 22:36	JF

SPB-2 L903712-17 GW

Collected by
J. Thacker

Collected date/time
04/19/17 10:20

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 11:14	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 13:23	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 15:54	04/21/17 15:54	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 16:04	04/21/17 16:04	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	2	04/24/17 21:09	04/25/17 15:04	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973471	1	04/24/17 20:20	04/25/17 13:48	JF

SPB-3 L903712-18 GW

Collected by
J. Thacker

Collected date/time
04/19/17 11:30

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 11:16	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 13:26	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 16:18	04/21/17 16:18	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 16:18	04/21/17 16:18	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	1	04/24/17 21:09	04/25/17 15:21	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG972495	.91	04/21/17 08:56	04/21/17 23:23	JF

ACCOUNT:

AMEC Earth & Environmental - UT

PROJECT:

17-0063

SDG:

L903712

DATE/TIME:

04/25/17 18:51

PAGE:

7 of 135

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SPB-4 L903712-19 GW

Collected by
J. Thacker

Collected date/time
04/19/17 12:15

Received date/time
04/20/17 08:45

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 11:18	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 13:33	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 16:42	04/21/17 16:42	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 16:32	04/21/17 16:32	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	1	04/24/17 21:09	04/25/17 15:38	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973471	1	04/24/17 20:20	04/25/17 14:12	JF

² Tc

³ Ss

⁴ Cn

⁵ Sr

SPB-5 L903712-20 GW

Collected by
J. Thacker

Collected date/time
04/19/17 12:40

Received date/time
04/20/17 08:45

⁶ Qc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 11:21	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 13:38	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 17:05	04/21/17 17:05	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 16:47	04/21/17 16:47	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	1	04/24/17 21:09	04/25/17 15:55	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG973471	1	04/24/17 20:20	04/25/17 14:35	JF

⁷ Gl

⁸ Al

⁹ Sc

SPB-6 L903712-21 GW

Collected by
J. Thacker

Collected date/time
04/19/17 13:45

Received date/time
04/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 11:23	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 13:41	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 17:29	04/21/17 17:29	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 17:01	04/21/17 17:01	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	1	04/24/17 21:09	04/25/17 16:12	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG972495	.91	04/21/17 08:56	04/22/17 00:33	JF

Collected by
J. Thacker

Collected date/time
04/19/17 14:40

Received date/time
04/20/17 08:45

SPB-7 L903712-22 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 11:25	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 13:44	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 17:58	04/21/17 17:58	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 17:15	04/21/17 17:15	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	1	04/24/17 21:09	04/25/17 16:29	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG972495	.91	04/21/17 08:56	04/22/17 00:56	JF

Collected by
J. Thacker

Collected date/time
04/19/17 15:15

Received date/time
04/20/17 08:45

SPB-8 L903712-23 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG972272	1	04/20/17 13:19	04/21/17 11:27	TRB
Metals (ICP) by Method 6010B	WG972413	1	04/20/17 18:20	04/21/17 13:47	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG972504	1	04/21/17 18:22	04/21/17 18:22	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG972710	1	04/21/17 17:29	04/21/17 17:29	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG973456	1	04/24/17 21:09	04/25/17 16:46	TH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG972495	.91	04/21/17 08:56	04/22/17 01:19	JF

ACCOUNT:

AMEC Earth & Environmental - UT

PROJECT:

17-0063

SDG:

L903712

DATE/TIME:

04/25/17 18:51

PAGE:

8 of 135



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.

Daphne Richards
Technical Service Representative

Sample Handling and Receiving

The analysis for 2-Chloroethyl Vinyl Ether was conducted from a chemically preserved container.

ESC Sample ID	Project Sample ID	Method
L903712-16	SPB-1	8260B
L903712-17	SPB-2	8260B
L903712-18	SPB-3	8260B
L903712-19	SPB-4	8260B
L903712-20	SPB-5	8260B
L903712-22	SPB-7	8260B

¹ Cp

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	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.9		1	04/20/2017 11:11	WG972288

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.636	J3 J5 J6	0.00338	0.0241	1	04/21/2017 13:50	WG972271

Metals (ICP) by Method 6010B

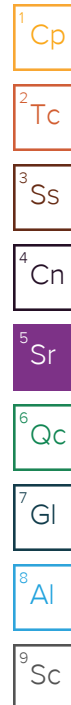
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	10.2		0.785	2.41	1	04/21/2017 14:58	WG972363
Barium	205		0.205	0.603	1	04/21/2017 14:58	WG972363
Cadmium	1.05		0.0845	0.603	1	04/21/2017 14:58	WG972363
Chromium	515		0.169	1.21	1	04/21/2017 14:58	WG972363
Lead	367		0.229	0.603	1	04/21/2017 14:58	WG972363
Selenium	1.24	J	0.893	2.41	1	04/21/2017 14:58	WG972363
Silver	U		0.338	1.21	1	04/21/2017 14:58	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0536	J	0.0262	0.121	1	04/22/2017 22:05	WG973065
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		04/22/2017 22:05	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	0.0161	J	0.0121	0.0603	1	04/23/2017 18:44	WG973085
Acrylonitrile	U		0.00216	0.0121	1	04/23/2017 18:44	WG973085
Benzene	0.000584	J	0.000326	0.00121	1	04/23/2017 18:44	WG973085
Bromobenzene	U		0.000343	0.00121	1	04/23/2017 18:44	WG973085
Bromodichloromethane	U		0.000307	0.00121	1	04/23/2017 18:44	WG973085
Bromoform	U		0.000512	0.00121	1	04/23/2017 18:44	WG973085
Bromomethane	U		0.00162	0.00603	1	04/23/2017 18:44	WG973085
n-Butylbenzene	U		0.000311	0.00121	1	04/23/2017 18:44	WG973085
sec-Butylbenzene	U		0.000243	0.00121	1	04/23/2017 18:44	WG973085
tert-Butylbenzene	U		0.000249	0.00121	1	04/23/2017 18:44	WG973085
Carbon tetrachloride	0.00118	J	0.000396	0.00121	1	04/23/2017 18:44	WG973085
Chlorobenzene	U		0.000256	0.00121	1	04/23/2017 18:44	WG973085
Chlorodibromomethane	U		0.000450	0.00121	1	04/23/2017 18:44	WG973085
Chloroethane	U		0.00114	0.00603	1	04/23/2017 18:44	WG973085
2-Chloroethyl vinyl ether	U		0.00282	0.0603	1	04/23/2017 18:44	WG973085
Chloroform	0.00170	J	0.000276	0.00603	1	04/23/2017 18:44	WG973085
Chloromethane	U		0.000453	0.00302	1	04/23/2017 18:44	WG973085
2-Chlorotoluene	U		0.000363	0.00121	1	04/23/2017 18:44	WG973085
4-Chlorotoluene	U		0.000290	0.00121	1	04/23/2017 18:44	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00127	0.00603	1	04/23/2017 18:44	WG973085
1,2-Dibromoethane	U		0.000414	0.00121	1	04/23/2017 18:44	WG973085
Dibromomethane	U		0.000461	0.00121	1	04/23/2017 18:44	WG973085
1,2-Dichlorobenzene	U		0.000368	0.00121	1	04/23/2017 18:44	WG973085
1,3-Dichlorobenzene	U		0.000288	0.00121	1	04/23/2017 18:44	WG973085
1,4-Dichlorobenzene	U		0.000273	0.00121	1	04/23/2017 18:44	WG973085
Dichlorodifluoromethane	U		0.000861	0.00603	1	04/23/2017 18:44	WG973085
1,1-Dichloroethane	U		0.000240	0.00121	1	04/23/2017 18:44	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000320	0.00121	1	04/23/2017 18:44	WG973085
1,1-Dichloroethene	U		0.000366	0.00121	1	04/23/2017 18:44	WG973085
cis-1,2-Dichloroethene	U		0.000284	0.00121	1	04/23/2017 18:44	WG973085
trans-1,2-Dichloroethene	U		0.000319	0.00121	1	04/23/2017 18:44	WG973085
1,2-Dichloropropane	U		0.000432	0.00121	1	04/23/2017 18:44	WG973085
1,1-Dichloropropene	U		0.000383	0.00121	1	04/23/2017 18:44	WG973085
1,3-Dichloropropane	U		0.000250	0.00121	1	04/23/2017 18:44	WG973085
cis-1,3-Dichloropropene	U		0.000316	0.00121	1	04/23/2017 18:44	WG973085
trans-1,3-Dichloropropene	U		0.000322	0.00121	1	04/23/2017 18:44	WG973085
2,2-Dichloropropane	U		0.000337	0.00121	1	04/23/2017 18:44	WG973085
Di-isopropyl ether	U		0.000299	0.00121	1	04/23/2017 18:44	WG973085
Ethylbenzene	U		0.000358	0.00121	1	04/23/2017 18:44	WG973085
Hexachloro-1,3-butadiene	U		0.000413	0.00121	1	04/23/2017 18:44	WG973085
Isopropylbenzene	U		0.000293	0.00121	1	04/23/2017 18:44	WG973085
p-Isopropyltoluene	U		0.000246	0.00121	1	04/23/2017 18:44	WG973085
2-Butanone (MEK)	U		0.00565	0.0121	1	04/23/2017 18:44	WG973085
Methylene Chloride	U		0.00121	0.00603	1	04/23/2017 18:44	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00227	0.0121	1	04/23/2017 18:44	WG973085
Methyl tert-butyl ether	U		0.000256	0.00121	1	04/23/2017 18:44	WG973085
Naphthalene	U		0.00121	0.00603	1	04/23/2017 18:44	WG973085
n-Propylbenzene	U		0.000249	0.00121	1	04/23/2017 18:44	WG973085
Styrene	U		0.000282	0.00121	1	04/23/2017 18:44	WG973085
1,1,1,2-Tetrachloroethane	U		0.000319	0.00121	1	04/23/2017 18:44	WG973085
1,1,2,2-Tetrachloroethane	U		0.000441	0.00121	1	04/23/2017 18:44	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000441	0.00121	1	04/23/2017 18:44	WG973085
Tetrachloroethene	0.000390	J	0.000333	0.00121	1	04/23/2017 18:44	WG973085
Toluene	U		0.000524	0.00603	1	04/23/2017 18:44	WG973085
1,2,3-Trichlorobenzene	U		0.000369	0.00121	1	04/23/2017 18:44	WG973085
1,2,4-Trichlorobenzene	U		0.000468	0.00121	1	04/23/2017 18:44	WG973085
1,1,1-Trichloroethane	0.000527	J	0.000345	0.00121	1	04/23/2017 18:44	WG973085
1,1,2-Trichloroethane	U		0.000334	0.00121	1	04/23/2017 18:44	WG973085
Trichloroethene	U		0.000337	0.00121	1	04/23/2017 18:44	WG973085
Trichlorofluoromethane	U		0.000461	0.00603	1	04/23/2017 18:44	WG973085
1,2,3-Trichloropropane	U		0.000894	0.00302	1	04/23/2017 18:44	WG973085
1,2,4-Trimethylbenzene	0.000301	J	0.000255	0.00121	1	04/23/2017 18:44	WG973085
1,2,3-Trimethylbenzene	U		0.000346	0.00121	1	04/23/2017 18:44	WG973085
1,3,5-Trimethylbenzene	U		0.000321	0.00121	1	04/23/2017 18:44	WG973085
Vinyl chloride	U		0.000351	0.00121	1	04/23/2017 18:44	WG973085
Xylenes, Total	U		0.000842	0.00362	1	04/23/2017 18:44	WG973085
(S) Toluene-d8	103			80.0-120		04/23/2017 18:44	WG973085
(S) Dibromofluoromethane	102			74.0-131		04/23/2017 18:44	WG973085
(S) 4-Bromofluorobenzene	75.4			64.0-132		04/23/2017 18:44	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.73	J	0.928	4.83	1	04/24/2017 12:38	WG972471
(S) o-Terphenyl	71.9			18.0-148		04/24/2017 12:38	WG972471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00775	0.0398	1	04/25/2017 05:56	WG973554
Acenaphthylene	U		0.00810	0.0398	1	04/25/2017 05:56	WG973554
Anthracene	U		0.00763	0.0398	1	04/25/2017 05:56	WG973554
Benidine	U		0.0769	0.402	1	04/25/2017 05:56	WG973554
Benzo(a)anthracene	0.0212	U	0.00517	0.0398	1	04/25/2017 05:56	WG973554
Benzo(b)fluoranthene	0.0211	U	0.00839	0.0398	1	04/25/2017 05:56	WG973554
Benzo(k)fluoranthene	U		0.00702	0.0398	1	04/25/2017 05:56	WG973554
Benzo(g,h,i)perylene	0.0106	U	0.00870	0.0398	1	04/25/2017 05:56	WG973554
Benzo(a)pyrene	0.0178	U	0.00661	0.0398	1	04/25/2017 05:56	WG973554
Bis(2-chlorethoxy)methane	U		0.00929	0.402	1	04/25/2017 05:56	WG973554
Bis(2-chloroethyl)ether	U		0.0108	0.402	1	04/25/2017 05:56	WG973554
Bis(2-chloroisopropyl)ether	U		0.00917	0.402	1	04/25/2017 05:56	WG973554
4-Bromophenyl-phenylether	U		0.0138	0.402	1	04/25/2017 05:56	WG973554
2-Chloronaphthalene	U		0.00771	0.0398	1	04/25/2017 05:56	WG973554
4-Chlorophenyl-phenylether	U		0.00757	0.402	1	04/25/2017 05:56	WG973554
Chrysene	0.0217	U	0.00670	0.0398	1	04/25/2017 05:56	WG973554
Dibenz(a,h)anthracene	0.0103	U	0.00991	0.0398	1	04/25/2017 05:56	WG973554
3,3-Dichlorobenzidine	U		0.0958	0.402	1	04/25/2017 05:56	WG973554
2,4-Dinitrotoluene	U		0.00733	0.402	1	04/25/2017 05:56	WG973554
2,6-Dinitrotoluene	U		0.00890	0.402	1	04/25/2017 05:56	WG973554
Fluoranthene	0.0299	U	0.00599	0.0398	1	04/25/2017 05:56	WG973554
Fluorene	U		0.00823	0.0398	1	04/25/2017 05:56	WG973554
Hexachlorobenzene	U		0.0103	0.402	1	04/25/2017 05:56	WG973554
Hexachloro-1,3-butadiene	U		0.0121	0.402	1	04/25/2017 05:56	WG973554
Hexachlorocyclopentadiene	U		0.0708	0.402	1	04/25/2017 05:56	WG973554
Hexachloroethane	U		0.0162	0.402	1	04/25/2017 05:56	WG973554
Indeno(1,2,3-cd)pyrene	0.00997	U	0.00932	0.0398	1	04/25/2017 05:56	WG973554
Isophorone	U		0.00630	0.402	1	04/25/2017 05:56	WG973554
Naphthalene	U		0.0107	0.0398	1	04/25/2017 05:56	WG973554
Nitrobenzene	U		0.00839	0.402	1	04/25/2017 05:56	WG973554
n-Nitrosodimethylamine	U		0.0781	0.402	1	04/25/2017 05:56	WG973554
n-Nitrosodiphenylamine	U		0.00717	0.402	1	04/25/2017 05:56	WG973554
n-Nitrosodi-n-propylamine	U		0.0109	0.402	1	04/25/2017 05:56	WG973554
Phenanthrene	0.0211	U	0.00637	0.0398	1	04/25/2017 05:56	WG973554
Benzylbutyl phthalate	U		0.0124	0.402	1	04/25/2017 05:56	WG973554
Bis(2-ethylhexyl)phthalate	U		0.0145	0.402	1	04/25/2017 05:56	WG973554
Di-n-butyl phthalate	U		0.0132	0.402	1	04/25/2017 05:56	WG973554
Diethyl phthalate	0.00913	U	0.00834	0.402	1	04/25/2017 05:56	WG973554
Dimethyl phthalate	U		0.00652	0.402	1	04/25/2017 05:56	WG973554
Di-n-octyl phthalate	U		0.0109	0.402	1	04/25/2017 05:56	WG973554
Pyrene	0.0342	U	0.0148	0.0398	1	04/25/2017 05:56	WG973554
1,2,4-Trichlorobenzene	U		0.0106	0.402	1	04/25/2017 05:56	WG973554
4-Chloro-3-methylphenol	U		0.00576	0.402	1	04/25/2017 05:56	WG973554
2-Chlorophenol	U		0.0100	0.402	1	04/25/2017 05:56	WG973554
2,4-Dichlorophenol	U		0.00900	0.402	1	04/25/2017 05:56	WG973554
2,4-Dimethylphenol	U		0.0568	0.402	1	04/25/2017 05:56	WG973554
4,6-Dinitro-2-methylphenol	U		0.150	0.402	1	04/25/2017 05:56	WG973554
2,4-Dinitrophenol	U		0.118	0.402	1	04/25/2017 05:56	WG973554
2-Nitrophenol	U		0.0157	0.402	1	04/25/2017 05:56	WG973554
4-Nitrophenol	U		0.0634	0.402	1	04/25/2017 05:56	WG973554
Pentachlorophenol	U		0.0579	0.402	1	04/25/2017 05:56	WG973554
Phenol	U		0.00839	0.402	1	04/25/2017 05:56	WG973554
2,4,6-Trichlorophenol	U		0.00940	0.402	1	04/25/2017 05:56	WG973554
(S) 2-Fluorophenol	57.1			20.0-120		04/25/2017 05:56	WG973554
(S) Phenol-d5	53.4			20.0-120		04/25/2017 05:56	WG973554
(S) Nitrobenzene-d5	62.8			18.0-125		04/25/2017 05:56	WG973554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 09:40

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	<u>Qualifier</u>	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	<u>Batch</u>
(S) 2-Fluorobiphenyl	69.6			28.0-120		04/25/2017 05:56	WG973554
(S) 2,4,6-Tribromophenol	45.0			17.0-137		04/25/2017 05:56	WG973554
(S) p-Terphenyl-d14	57.0			13.0-131		04/25/2017 05:56	WG973554

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.6		1	04/20/2017 11:11	WG972288

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.215		0.00335	0.0239	1	04/21/2017 14:15	WG972271

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	4.52		0.778	2.39	1	04/21/2017 15:00	WG972363
Barium	103		0.203	0.598	1	04/21/2017 15:00	WG972363
Cadmium	0.302	J	0.0838	0.598	1	04/21/2017 15:00	WG972363
Chromium	7.26		0.168	1.20	1	04/21/2017 15:00	WG972363
Lead	68.6		0.227	0.598	1	04/21/2017 15:00	WG972363
Selenium	U		0.886	2.39	1	04/21/2017 15:00	WG972363
Silver	U		0.335	1.20	1	04/21/2017 15:00	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0260	0.120	1	04/22/2017 22:27	WG973065
(S) a,a,a-Trifluorotoluene(FID)	92.8			77.0-120		04/22/2017 22:27	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	U		0.0120	0.0598	1	04/23/2017 19:05	WG973085
Acrylonitrile	U		0.00214	0.0120	1	04/23/2017 19:05	WG973085
Benzene	U		0.000323	0.00120	1	04/23/2017 19:05	WG973085
Bromobenzene	U		0.000340	0.00120	1	04/23/2017 19:05	WG973085
Bromodichloromethane	U		0.000304	0.00120	1	04/23/2017 19:05	WG973085
Bromoform	U		0.000507	0.00120	1	04/23/2017 19:05	WG973085
Bromomethane	U		0.00160	0.00598	1	04/23/2017 19:05	WG973085
n-Butylbenzene	U		0.000309	0.00120	1	04/23/2017 19:05	WG973085
sec-Butylbenzene	U		0.000241	0.00120	1	04/23/2017 19:05	WG973085
tert-Butylbenzene	U		0.000247	0.00120	1	04/23/2017 19:05	WG973085
Carbon tetrachloride	U		0.000393	0.00120	1	04/23/2017 19:05	WG973085
Chlorobenzene	U		0.000254	0.00120	1	04/23/2017 19:05	WG973085
Chlorodibromomethane	U		0.000446	0.00120	1	04/23/2017 19:05	WG973085
Chloroethane	U		0.00113	0.00598	1	04/23/2017 19:05	WG973085
2-Chloroethyl vinyl ether	U		0.00280	0.0598	1	04/23/2017 19:05	WG973085
Chloroform	U		0.000274	0.00598	1	04/23/2017 19:05	WG973085
Chloromethane	U		0.000449	0.00299	1	04/23/2017 19:05	WG973085
2-Chlorotoluene	U		0.000360	0.00120	1	04/23/2017 19:05	WG973085
4-Chlorotoluene	U		0.000287	0.00120	1	04/23/2017 19:05	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00126	0.00598	1	04/23/2017 19:05	WG973085
1,2-Dibromoethane	U		0.000410	0.00120	1	04/23/2017 19:05	WG973085
Dibromomethane	U		0.000457	0.00120	1	04/23/2017 19:05	WG973085
1,2-Dichlorobenzene	U		0.000365	0.00120	1	04/23/2017 19:05	WG973085
1,3-Dichlorobenzene	U		0.000286	0.00120	1	04/23/2017 19:05	WG973085
1,4-Dichlorobenzene	U		0.000270	0.00120	1	04/23/2017 19:05	WG973085
Dichlorodifluoromethane	U		0.000853	0.00598	1	04/23/2017 19:05	WG973085
1,1-Dichloroethane	U		0.000238	0.00120	1	04/23/2017 19:05	WG973085

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000317	0.00120	1	04/23/2017 19:05	WG973085
1,1-Dichloroethene	U		0.000363	0.00120	1	04/23/2017 19:05	WG973085
cis-1,2-Dichloroethene	U		0.000281	0.00120	1	04/23/2017 19:05	WG973085
trans-1,2-Dichloroethene	U		0.000316	0.00120	1	04/23/2017 19:05	WG973085
1,2-Dichloropropane	U		0.000428	0.00120	1	04/23/2017 19:05	WG973085
1,1-Dichloropropene	U		0.000379	0.00120	1	04/23/2017 19:05	WG973085
1,3-Dichloropropane	U		0.000248	0.00120	1	04/23/2017 19:05	WG973085
cis-1,3-Dichloropropene	U		0.000314	0.00120	1	04/23/2017 19:05	WG973085
trans-1,3-Dichloropropene	U		0.000320	0.00120	1	04/23/2017 19:05	WG973085
2,2-Dichloropropane	U		0.000334	0.00120	1	04/23/2017 19:05	WG973085
Di-isopropyl ether	U		0.000297	0.00120	1	04/23/2017 19:05	WG973085
Ethylbenzene	U		0.000355	0.00120	1	04/23/2017 19:05	WG973085
Hexachloro-1,3-butadiene	U		0.000409	0.00120	1	04/23/2017 19:05	WG973085
Isopropylbenzene	U		0.000291	0.00120	1	04/23/2017 19:05	WG973085
p-Isopropyltoluene	U		0.000244	0.00120	1	04/23/2017 19:05	WG973085
2-Butanone (MEK)	U		0.00560	0.0120	1	04/23/2017 19:05	WG973085
Methylene Chloride	U		0.00120	0.00598	1	04/23/2017 19:05	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00225	0.0120	1	04/23/2017 19:05	WG973085
Methyl tert-butyl ether	U		0.000254	0.00120	1	04/23/2017 19:05	WG973085
Naphthalene	U		0.00120	0.00598	1	04/23/2017 19:05	WG973085
n-Propylbenzene	U		0.000247	0.00120	1	04/23/2017 19:05	WG973085
Styrene	U		0.000280	0.00120	1	04/23/2017 19:05	WG973085
1,1,1,2-Tetrachloroethane	U		0.000316	0.00120	1	04/23/2017 19:05	WG973085
1,1,2,2-Tetrachloroethane	U		0.000437	0.00120	1	04/23/2017 19:05	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000437	0.00120	1	04/23/2017 19:05	WG973085
Tetrachloroethene	0.00276		0.000330	0.00120	1	04/23/2017 19:05	WG973085
Toluene	U		0.000519	0.00598	1	04/23/2017 19:05	WG973085
1,2,3-Trichlorobenzene	U		0.000366	0.00120	1	04/23/2017 19:05	WG973085
1,2,4-Trichlorobenzene	U		0.000464	0.00120	1	04/23/2017 19:05	WG973085
1,1,1-Trichloroethane	0.00143		0.000342	0.00120	1	04/23/2017 19:05	WG973085
1,1,2-Trichloroethane	U		0.000331	0.00120	1	04/23/2017 19:05	WG973085
Trichloroethene	0.000393	J	0.000334	0.00120	1	04/23/2017 19:05	WG973085
Trichlorofluoromethane	U		0.000457	0.00598	1	04/23/2017 19:05	WG973085
1,2,3-Trichloropropane	U		0.000887	0.00299	1	04/23/2017 19:05	WG973085
1,2,4-Trimethylbenzene	U		0.000253	0.00120	1	04/23/2017 19:05	WG973085
1,2,3-Trimethylbenzene	U		0.000343	0.00120	1	04/23/2017 19:05	WG973085
1,3,5-Trimethylbenzene	U		0.000318	0.00120	1	04/23/2017 19:05	WG973085
Vinyl chloride	U		0.000348	0.00120	1	04/23/2017 19:05	WG973085
Xylenes, Total	U		0.000835	0.00359	1	04/23/2017 19:05	WG973085
(S) Toluene-d8	103			80.0-120		04/23/2017 19:05	WG973085
(S) Dibromofluoromethane	104			74.0-131		04/23/2017 19:05	WG973085
(S) 4-Bromofluorobenzene	62.4	J2		64.0-132		04/23/2017 19:05	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	15.4		0.920	4.79	1	04/22/2017 14:53	WG972471
(S) o-Terphenyl	66.4			18.0-148		04/22/2017 14:53	WG972471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00768	0.0395	1	04/25/2017 09:02	WG973349
Acenaphthylene	U		0.00803	0.0395	1	04/25/2017 09:02	WG973349
Anthracene	U		0.00756	0.0395	1	04/25/2017 09:02	WG973349
Benidine	U		0.0762	0.399	1	04/25/2017 09:02	WG973349
Benzo(a)anthracene	0.0309	L	0.00512	0.0395	1	04/25/2017 09:02	WG973349
Benzo(b)fluoranthene	0.0369	L	0.00832	0.0395	1	04/25/2017 09:02	WG973349
Benzo(k)fluoranthene	0.0119	L	0.00697	0.0395	1	04/25/2017 09:02	WG973349
Benzo(g,h,i)perylene	0.0115	L	0.00863	0.0395	1	04/25/2017 09:02	WG973349
Benzo(a)pyrene	0.0297	L	0.00656	0.0395	1	04/25/2017 09:02	WG973349
Bis(2-chlorethoxy)methane	U		0.00921	0.399	1	04/25/2017 09:02	WG973349
Bis(2-chloroethyl)ether	U		0.0107	0.399	1	04/25/2017 09:02	WG973349
Bis(2-chloroisopropyl)ether	U		0.00910	0.399	1	04/25/2017 09:02	WG973349
4-Bromophenyl-phenylether	U		0.0136	0.399	1	04/25/2017 09:02	WG973349
2-Chloronaphthalene	U		0.00765	0.0395	1	04/25/2017 09:02	WG973349
4-Chlorophenyl-phenylether	U		0.00750	0.399	1	04/25/2017 09:02	WG973349
Chrysene	0.0311	L	0.00664	0.0395	1	04/25/2017 09:02	WG973349
Dibenz(a,h)anthracene	0.0112	L	0.00983	0.0395	1	04/25/2017 09:02	WG973349
3,3-Dichlorobenzidine	U		0.0950	0.399	1	04/25/2017 09:02	WG973349
2,4-Dinitrotoluene	U		0.00726	0.399	1	04/25/2017 09:02	WG973349
2,6-Dinitrotoluene	U		0.00882	0.399	1	04/25/2017 09:02	WG973349
Fluoranthene	0.0418		0.00594	0.0395	1	04/25/2017 09:02	WG973349
Fluorene	U		0.00816	0.0395	1	04/25/2017 09:02	WG973349
Hexachlorobenzene	U		0.0102	0.399	1	04/25/2017 09:02	WG973349
Hexachloro-1,3-butadiene	U		0.0120	0.399	1	04/25/2017 09:02	WG973349
Hexachlorocyclopentadiene	U		0.0702	0.399	1	04/25/2017 09:02	WG973349
Hexachloroethane	U		0.0160	0.399	1	04/25/2017 09:02	WG973349
Indeno(1,2,3-cd)pyrene	0.0117	L	0.00924	0.0395	1	04/25/2017 09:02	WG973349
Isophorone	U		0.00625	0.399	1	04/25/2017 09:02	WG973349
Naphthalene	U		0.0106	0.0395	1	04/25/2017 09:02	WG973349
Nitrobenzene	U		0.00832	0.399	1	04/25/2017 09:02	WG973349
n-Nitrosodimethylamine	U		0.0774	0.399	1	04/25/2017 09:02	WG973349
n-Nitrosodiphenylamine	U		0.00711	0.399	1	04/25/2017 09:02	WG973349
n-Nitrosodi-n-propylamine	U		0.0108	0.399	1	04/25/2017 09:02	WG973349
Phenanthrene	0.0277	L	0.00632	0.0395	1	04/25/2017 09:02	WG973349
Benzylbutyl phthalate	U		0.0123	0.399	1	04/25/2017 09:02	WG973349
Bis(2-ethylhexyl)phthalate	U		0.0144	0.399	1	04/25/2017 09:02	WG973349
Di-n-butyl phthalate	U		0.0130	0.399	1	04/25/2017 09:02	WG973349
Diethyl phthalate	0.0104	L	0.00827	0.399	1	04/25/2017 09:02	WG973349
Dimethyl phthalate	U		0.00646	0.399	1	04/25/2017 09:02	WG973349
Di-n-octyl phthalate	U		0.0109	0.399	1	04/25/2017 09:02	WG973349
Pyrene	0.0429		0.0147	0.0395	1	04/25/2017 09:02	WG973349
1,2,4-Trichlorobenzene	U		0.0105	0.399	1	04/25/2017 09:02	WG973349
4-Chloro-3-methylphenol	U		0.00571	0.399	1	04/25/2017 09:02	WG973349
2-Chlorophenol	U		0.00994	0.399	1	04/25/2017 09:02	WG973349
2,4-Dichlorophenol	U		0.00893	0.399	1	04/25/2017 09:02	WG973349
2,4-Dimethylphenol	U		0.0564	0.399	1	04/25/2017 09:02	WG973349
4,6-Dinitro-2-methylphenol	U		0.148	0.399	1	04/25/2017 09:02	WG973349
2,4-Dinitrophenol	U		0.117	0.399	1	04/25/2017 09:02	WG973349
2-Nitrophenol	U		0.0156	0.399	1	04/25/2017 09:02	WG973349
4-Nitrophenol	U		0.0628	0.399	1	04/25/2017 09:02	WG973349
Pentachlorophenol	U		0.0574	0.399	1	04/25/2017 09:02	WG973349
Phenol	U		0.00832	0.399	1	04/25/2017 09:02	WG973349
2,4,6-Trichlorophenol	U		0.00932	0.399	1	04/25/2017 09:02	WG973349
(S) 2-Fluorophenol	57.3			20.0-120		04/25/2017 09:02	WG973349
(S) Phenol-d5	60.1			20.0-120		04/25/2017 09:02	WG973349
(S) Nitrobenzene-d5	65.7			18.0-125		04/25/2017 09:02	WG973349

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 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	74.9			28.0-120		04/25/2017 09:02	WG973349
(S) 2,4,6-Tribromophenol	76.5			17.0-137		04/25/2017 09:02	WG973349
(S) p-Terphenyl-d14	57.0			13.0-131		04/25/2017 09:02	WG973349

¹ Cp

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	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.0		1	04/20/2017 11:11	WG972288

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.135		0.00298	0.0213	1	04/21/2017 14:18	WG972271

Metals (ICP) by Method 6010B

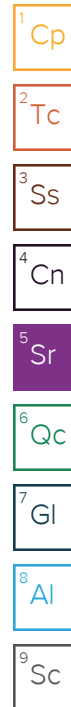
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	1.78	J	0.692	2.13	1	04/21/2017 15:08	WG972363
Barium	29.7		0.181	0.532	1	04/21/2017 15:08	WG972363
Cadmium	0.172	J	0.0745	0.532	1	04/21/2017 15:08	WG972363
Chromium	4.89		0.149	1.06	1	04/21/2017 15:08	WG972363
Lead	76.4		0.202	0.532	1	04/21/2017 15:08	WG972363
Selenium	U		0.787	2.13	1	04/21/2017 15:08	WG972363
Silver	U		0.298	1.06	1	04/21/2017 15:08	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0231	0.106	1	04/22/2017 22:50	WG973065
(S) a,a,a-Trifluorotoluene(FID)	91.4			77.0-120		04/22/2017 22:50	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	U		0.0106	0.0532	1	04/23/2017 19:26	WG973085
Acrylonitrile	U		0.00190	0.0106	1	04/23/2017 19:26	WG973085
Benzene	U		0.000287	0.00106	1	04/23/2017 19:26	WG973085
Bromobenzene	U		0.000302	0.00106	1	04/23/2017 19:26	WG973085
Bromodichloromethane	U		0.000270	0.00106	1	04/23/2017 19:26	WG973085
Bromoform	U		0.000451	0.00106	1	04/23/2017 19:26	WG973085
Bromomethane	U		0.00143	0.00532	1	04/23/2017 19:26	WG973085
n-Butylbenzene	U		0.000274	0.00106	1	04/23/2017 19:26	WG973085
sec-Butylbenzene	U		0.000214	0.00106	1	04/23/2017 19:26	WG973085
tert-Butylbenzene	U		0.000219	0.00106	1	04/23/2017 19:26	WG973085
Carbon tetrachloride	U		0.000349	0.00106	1	04/23/2017 19:26	WG973085
Chlorobenzene	U		0.000226	0.00106	1	04/23/2017 19:26	WG973085
Chlorodibromomethane	U		0.000397	0.00106	1	04/23/2017 19:26	WG973085
Chloroethane	U		0.00101	0.00532	1	04/23/2017 19:26	WG973085
2-Chloroethyl vinyl ether	U		0.00249	0.0532	1	04/23/2017 19:26	WG973085
Chloroform	U		0.000244	0.00532	1	04/23/2017 19:26	WG973085
Chloromethane	U		0.000399	0.00266	1	04/23/2017 19:26	WG973085
2-Chlorotoluene	U		0.000320	0.00106	1	04/23/2017 19:26	WG973085
4-Chlorotoluene	U		0.000255	0.00106	1	04/23/2017 19:26	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00112	0.00532	1	04/23/2017 19:26	WG973085
1,2-Dibromoethane	U		0.000365	0.00106	1	04/23/2017 19:26	WG973085
Dibromomethane	U		0.000406	0.00106	1	04/23/2017 19:26	WG973085
1,2-Dichlorobenzene	U		0.000324	0.00106	1	04/23/2017 19:26	WG973085
1,3-Dichlorobenzene	U		0.000254	0.00106	1	04/23/2017 19:26	WG973085
1,4-Dichlorobenzene	U		0.000240	0.00106	1	04/23/2017 19:26	WG973085
Dichlorodifluoromethane	U		0.000759	0.00532	1	04/23/2017 19:26	WG973085
1,1-Dichloroethane	0.000805	J	0.000212	0.00106	1	04/23/2017 19:26	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000282	0.00106	1	04/23/2017 19:26	WG973085
1,1-Dichloroethene	U		0.000322	0.00106	1	04/23/2017 19:26	WG973085
cis-1,2-Dichloroethene	U		0.000250	0.00106	1	04/23/2017 19:26	WG973085
trans-1,2-Dichloroethene	U		0.000281	0.00106	1	04/23/2017 19:26	WG973085
1,2-Dichloropropane	U		0.000381	0.00106	1	04/23/2017 19:26	WG973085
1,1-Dichloropropene	U		0.000337	0.00106	1	04/23/2017 19:26	WG973085
1,3-Dichloropropane	U		0.000220	0.00106	1	04/23/2017 19:26	WG973085
cis-1,3-Dichloropropene	U		0.000279	0.00106	1	04/23/2017 19:26	WG973085
trans-1,3-Dichloropropene	U		0.000284	0.00106	1	04/23/2017 19:26	WG973085
2,2-Dichloropropane	U		0.000297	0.00106	1	04/23/2017 19:26	WG973085
Di-isopropyl ether	U		0.000264	0.00106	1	04/23/2017 19:26	WG973085
Ethylbenzene	U		0.000316	0.00106	1	04/23/2017 19:26	WG973085
Hexachloro-1,3-butadiene	U		0.000364	0.00106	1	04/23/2017 19:26	WG973085
Isopropylbenzene	U		0.000259	0.00106	1	04/23/2017 19:26	WG973085
p-Isopropyltoluene	U		0.000217	0.00106	1	04/23/2017 19:26	WG973085
2-Butanone (MEK)	U		0.00498	0.0106	1	04/23/2017 19:26	WG973085
Methylene Chloride	U		0.00106	0.00532	1	04/23/2017 19:26	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00200	0.0106	1	04/23/2017 19:26	WG973085
Methyl tert-butyl ether	U		0.000226	0.00106	1	04/23/2017 19:26	WG973085
Naphthalene	U		0.00106	0.00532	1	04/23/2017 19:26	WG973085
n-Propylbenzene	U		0.000219	0.00106	1	04/23/2017 19:26	WG973085
Styrene	U		0.000249	0.00106	1	04/23/2017 19:26	WG973085
1,1,1,2-Tetrachloroethane	U		0.000281	0.00106	1	04/23/2017 19:26	WG973085
1,1,2,2-Tetrachloroethane	U		0.000388	0.00106	1	04/23/2017 19:26	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000388	0.00106	1	04/23/2017 19:26	WG973085
Tetrachloroethene	0.000296	J	0.000294	0.00106	1	04/23/2017 19:26	WG973085
Toluene	0.00417	J	0.000462	0.00532	1	04/23/2017 19:26	WG973085
1,2,3-Trichlorobenzene	U		0.000326	0.00106	1	04/23/2017 19:26	WG973085
1,2,4-Trichlorobenzene	U		0.000413	0.00106	1	04/23/2017 19:26	WG973085
1,1,1-Trichloroethane	U		0.000304	0.00106	1	04/23/2017 19:26	WG973085
1,1,2-Trichloroethane	U		0.000295	0.00106	1	04/23/2017 19:26	WG973085
Trichloroethene	U		0.000297	0.00106	1	04/23/2017 19:26	WG973085
Trichlorofluoromethane	U		0.000406	0.00532	1	04/23/2017 19:26	WG973085
1,2,3-Trichloropropane	U		0.000788	0.00266	1	04/23/2017 19:26	WG973085
1,2,4-Trimethylbenzene	U		0.000224	0.00106	1	04/23/2017 19:26	WG973085
1,2,3-Trimethylbenzene	U		0.000305	0.00106	1	04/23/2017 19:26	WG973085
1,3,5-Trimethylbenzene	U		0.000283	0.00106	1	04/23/2017 19:26	WG973085
Vinyl chloride	U		0.000310	0.00106	1	04/23/2017 19:26	WG973085
Xylenes, Total	U		0.000743	0.00319	1	04/23/2017 19:26	WG973085
(S) Toluene-d8	102			80.0-120		04/23/2017 19:26	WG973085
(S) Dibromofluoromethane	101			74.0-131		04/23/2017 19:26	WG973085
(S) 4-Bromofluorobenzene	90.6			64.0-132		04/23/2017 19:26	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	15.0		0.818	4.26	1	04/22/2017 15:04	WG972471
(S) o-Terphenyl	61.9			18.0-148		04/22/2017 15:04	WG972471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00683	0.0351	1	04/25/2017 06:22	WG973554
Acenaphthylene	U		0.00714	0.0351	1	04/25/2017 06:22	WG973554
Anthracene	U		0.00672	0.0351	1	04/25/2017 06:22	WG973554
Benzidine	U		0.0678	0.354	1	04/25/2017 06:22	WG973554
Benzo(a)anthracene	U		0.00455	0.0351	1	04/25/2017 06:22	WG973554
Benzo(b)fluoranthene	U		0.00739	0.0351	1	04/25/2017 06:22	WG973554
Benzo(k)fluoranthene	U		0.00619	0.0351	1	04/25/2017 06:22	WG973554
Benzo(g,h,i)perylene	U		0.00767	0.0351	1	04/25/2017 06:22	WG973554
Benzo(a)pyrene	U		0.00583	0.0351	1	04/25/2017 06:22	WG973554
Bis(2-chlorethoxy)methane	U		0.00819	0.354	1	04/25/2017 06:22	WG973554
Bis(2-chloroethyl)ether	U		0.00953	0.354	1	04/25/2017 06:22	WG973554
Bis(2-chloroisopropyl)ether	U		0.00809	0.354	1	04/25/2017 06:22	WG973554
4-Bromophenyl-phenylether	U		0.0121	0.354	1	04/25/2017 06:22	WG973554
2-Chloronaphthalene	U		0.00680	0.0351	1	04/25/2017 06:22	WG973554
4-Chlorophenyl-phenylether	U		0.00667	0.354	1	04/25/2017 06:22	WG973554
Chrysene	U		0.00590	0.0351	1	04/25/2017 06:22	WG973554
Dibenz(a,h)anthracene	U		0.00873	0.0351	1	04/25/2017 06:22	WG973554
3,3-Dichlorobenzidine	U		0.0845	0.354	1	04/25/2017 06:22	WG973554
2,4-Dinitrotoluene	U		0.00646	0.354	1	04/25/2017 06:22	WG973554
2,6-Dinitrotoluene	U		0.00784	0.354	1	04/25/2017 06:22	WG973554
Fluoranthene	U		0.00528	0.0351	1	04/25/2017 06:22	WG973554
Fluorene	U		0.00726	0.0351	1	04/25/2017 06:22	WG973554
Hexachlorobenzene	U		0.00911	0.354	1	04/25/2017 06:22	WG973554
Hexachloro-1,3-butadiene	U		0.0106	0.354	1	04/25/2017 06:22	WG973554
Hexachlorocyclopentadiene	U		0.0624	0.354	1	04/25/2017 06:22	WG973554
Hexachloroethane	U		0.0143	0.354	1	04/25/2017 06:22	WG973554
Indeno(1,2,3-cd)pyrene	U		0.00821	0.0351	1	04/25/2017 06:22	WG973554
Isophorone	U		0.00555	0.354	1	04/25/2017 06:22	WG973554
Naphthalene	U		0.00946	0.0351	1	04/25/2017 06:22	WG973554
Nitrobenzene	U		0.00739	0.354	1	04/25/2017 06:22	WG973554
n-Nitrosodimethylamine	U		0.0688	0.354	1	04/25/2017 06:22	WG973554
n-Nitrosodiphenylamine	U		0.00632	0.354	1	04/25/2017 06:22	WG973554
n-Nitrosodi-n-propylamine	U		0.00964	0.354	1	04/25/2017 06:22	WG973554
Phenanthrene	U		0.00562	0.0351	1	04/25/2017 06:22	WG973554
Benzylbutyl phthalate	U		0.0110	0.354	1	04/25/2017 06:22	WG973554
Bis(2-ethylhexyl)phthalate	U		0.0128	0.354	1	04/25/2017 06:22	WG973554
Di-n-butyl phthalate	U		0.0116	0.354	1	04/25/2017 06:22	WG973554
Diethyl phthalate	U		0.00735	0.354	1	04/25/2017 06:22	WG973554
Dimethyl phthalate	U		0.00574	0.354	1	04/25/2017 06:22	WG973554
Di-n-octyl phthalate	U		0.00965	0.354	1	04/25/2017 06:22	WG973554
Pyrene	U		0.0131	0.0351	1	04/25/2017 06:22	WG973554
1,2,4-Trichlorobenzene	U		0.00932	0.354	1	04/25/2017 06:22	WG973554
4-Chloro-3-methylphenol	U		0.00507	0.354	1	04/25/2017 06:22	WG973554
2-Chlorophenol	U		0.00884	0.354	1	04/25/2017 06:22	WG973554
2,4-Dichlorophenol	U		0.00794	0.354	1	04/25/2017 06:22	WG973554
2,4-Dimethylphenol	U		0.0501	0.354	1	04/25/2017 06:22	WG973554
4,6-Dinitro-2-methylphenol	U		0.132	0.354	1	04/25/2017 06:22	WG973554
2,4-Dinitrophenol	U		0.104	0.354	1	04/25/2017 06:22	WG973554
2-Nitrophenol	U		0.0138	0.354	1	04/25/2017 06:22	WG973554
4-Nitrophenol	U		0.0559	0.354	1	04/25/2017 06:22	WG973554
Pentachlorophenol	U		0.0511	0.354	1	04/25/2017 06:22	WG973554
Phenol	U		0.00739	0.354	1	04/25/2017 06:22	WG973554
2,4,6-Trichlorophenol	U		0.00829	0.354	1	04/25/2017 06:22	WG973554
(S) 2-Fluorophenol	62.4			20.0-120		04/25/2017 06:22	WG973554
(S) Phenol-d5	66.8			20.0-120		04/25/2017 06:22	WG973554
(S) Nitrobenzene-d5	62.4			18.0-125		04/25/2017 06:22	WG973554

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 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	61.0			28.0-120		04/25/2017 06:22	WG973554
(S) 2,4,6-Tribromophenol	60.1			17.0-137		04/25/2017 06:22	WG973554
(S) p-Terphenyl-d14	55.4			13.0-131		04/25/2017 06:22	WG973554

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	04/20/2017 11:11	WG972288

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.0511		0.00313	0.0224	1	04/21/2017 14:21	WG972271

Metals (ICP) by Method 6010B

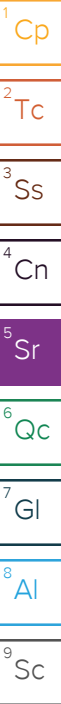
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	6.09		0.727	2.24	1	04/21/2017 15:11	WG972363
Barium	87.2		0.190	0.559	1	04/21/2017 15:11	WG972363
Cadmium	0.265	J	0.0783	0.559	1	04/21/2017 15:11	WG972363
Chromium	9.43		0.157	1.12	1	04/21/2017 15:11	WG972363
Lead	53.4		0.213	0.559	1	04/21/2017 15:11	WG972363
Selenium	U		0.828	2.24	1	04/21/2017 15:11	WG972363
Silver	U		0.313	1.12	1	04/21/2017 15:11	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0243	0.112	1	04/22/2017 23:12	WG973065
(S) a,a,a-Trifluorotoluene(FID)	91.4			77.0-120		04/22/2017 23:12	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	U		0.0112	0.0559	1	04/23/2017 19:46	WG973085
Acrylonitrile	U		0.00200	0.0112	1	04/23/2017 19:46	WG973085
Benzene	U		0.000302	0.00112	1	04/23/2017 19:46	WG973085
Bromobenzene	U		0.000318	0.00112	1	04/23/2017 19:46	WG973085
Bromodichloromethane	U		0.000284	0.00112	1	04/23/2017 19:46	WG973085
Bromoform	U		0.000474	0.00112	1	04/23/2017 19:46	WG973085
Bromomethane	U		0.00150	0.00559	1	04/23/2017 19:46	WG973085
n-Butylbenzene	U		0.000289	0.00112	1	04/23/2017 19:46	WG973085
sec-Butylbenzene	U		0.000225	0.00112	1	04/23/2017 19:46	WG973085
tert-Butylbenzene	U		0.000231	0.00112	1	04/23/2017 19:46	WG973085
Carbon tetrachloride	U		0.000367	0.00112	1	04/23/2017 19:46	WG973085
Chlorobenzene	U		0.000237	0.00112	1	04/23/2017 19:46	WG973085
Chlorodibromomethane	U		0.000417	0.00112	1	04/23/2017 19:46	WG973085
Chloroethane	U		0.00106	0.00559	1	04/23/2017 19:46	WG973085
2-Chloroethyl vinyl ether	U		0.00262	0.0559	1	04/23/2017 19:46	WG973085
Chloroform	U		0.000256	0.00559	1	04/23/2017 19:46	WG973085
Chloromethane	U		0.000420	0.00280	1	04/23/2017 19:46	WG973085
2-Chlorotoluene	U		0.000337	0.00112	1	04/23/2017 19:46	WG973085
4-Chlorotoluene	U		0.000269	0.00112	1	04/23/2017 19:46	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00117	0.00559	1	04/23/2017 19:46	WG973085
1,2-Dibromoethane	U		0.000384	0.00112	1	04/23/2017 19:46	WG973085
Dibromomethane	U		0.000427	0.00112	1	04/23/2017 19:46	WG973085
1,2-Dichlorobenzene	U		0.000341	0.00112	1	04/23/2017 19:46	WG973085
1,3-Dichlorobenzene	U		0.000267	0.00112	1	04/23/2017 19:46	WG973085
1,4-Dichlorobenzene	U		0.000253	0.00112	1	04/23/2017 19:46	WG973085
Dichlorodifluoromethane	U		0.000798	0.00559	1	04/23/2017 19:46	WG973085
1,1-Dichloroethane	U		0.000223	0.00112	1	04/23/2017 19:46	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000297	0.00112	1	04/23/2017 19:46	WG973085
1,1-Dichloroethene	U		0.000339	0.00112	1	04/23/2017 19:46	WG973085
cis-1,2-Dichloroethene	U		0.000263	0.00112	1	04/23/2017 19:46	WG973085
trans-1,2-Dichloroethene	U		0.000295	0.00112	1	04/23/2017 19:46	WG973085
1,2-Dichloropropane	U		0.000401	0.00112	1	04/23/2017 19:46	WG973085
1,1-Dichloropropene	U		0.000355	0.00112	1	04/23/2017 19:46	WG973085
1,3-Dichloropropane	U		0.000232	0.00112	1	04/23/2017 19:46	WG973085
cis-1,3-Dichloropropene	U		0.000293	0.00112	1	04/23/2017 19:46	WG973085
trans-1,3-Dichloropropene	U		0.000299	0.00112	1	04/23/2017 19:46	WG973085
2,2-Dichloropropane	U		0.000312	0.00112	1	04/23/2017 19:46	WG973085
Di-isopropyl ether	U		0.000278	0.00112	1	04/23/2017 19:46	WG973085
Ethylbenzene	U		0.000332	0.00112	1	04/23/2017 19:46	WG973085
Hexachloro-1,3-butadiene	U		0.000383	0.00112	1	04/23/2017 19:46	WG973085
Isopropylbenzene	U		0.000272	0.00112	1	04/23/2017 19:46	WG973085
p-Isopropyltoluene	U		0.000228	0.00112	1	04/23/2017 19:46	WG973085
2-Butanone (MEK)	U		0.00524	0.0112	1	04/23/2017 19:46	WG973085
Methylene Chloride	U		0.00112	0.00559	1	04/23/2017 19:46	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00210	0.0112	1	04/23/2017 19:46	WG973085
Methyl tert-butyl ether	U		0.000237	0.00112	1	04/23/2017 19:46	WG973085
Naphthalene	U		0.00112	0.00559	1	04/23/2017 19:46	WG973085
n-Propylbenzene	U		0.000231	0.00112	1	04/23/2017 19:46	WG973085
Styrene	U		0.000262	0.00112	1	04/23/2017 19:46	WG973085
1,1,1,2-Tetrachloroethane	U		0.000295	0.00112	1	04/23/2017 19:46	WG973085
1,1,2,2-Tetrachloroethane	U		0.000408	0.00112	1	04/23/2017 19:46	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000408	0.00112	1	04/23/2017 19:46	WG973085
Tetrachloroethene	0.00126		0.000309	0.00112	1	04/23/2017 19:46	WG973085
Toluene	U		0.000486	0.00559	1	04/23/2017 19:46	WG973085
1,2,3-Trichlorobenzene	U		0.000342	0.00112	1	04/23/2017 19:46	WG973085
1,2,4-Trichlorobenzene	U		0.000434	0.00112	1	04/23/2017 19:46	WG973085
1,1,1-Trichloroethane	U		0.000320	0.00112	1	04/23/2017 19:46	WG973085
1,1,2-Trichloroethane	U		0.000310	0.00112	1	04/23/2017 19:46	WG973085
Trichloroethene	0.000525	J	0.000312	0.00112	1	04/23/2017 19:46	WG973085
Trichlorofluoromethane	U		0.000427	0.00559	1	04/23/2017 19:46	WG973085
1,2,3-Trichloropropane	U		0.000829	0.00280	1	04/23/2017 19:46	WG973085
1,2,4-Trimethylbenzene	U		0.000236	0.00112	1	04/23/2017 19:46	WG973085
1,2,3-Trimethylbenzene	U		0.000321	0.00112	1	04/23/2017 19:46	WG973085
1,3,5-Trimethylbenzene	U		0.000298	0.00112	1	04/23/2017 19:46	WG973085
Vinyl chloride	U		0.000326	0.00112	1	04/23/2017 19:46	WG973085
Xylenes, Total	U		0.000781	0.00336	1	04/23/2017 19:46	WG973085
(S) Toluene-d8	98.4			80.0-120		04/23/2017 19:46	WG973085
(S) Dibromofluoromethane	106			74.0-131		04/23/2017 19:46	WG973085
(S) 4-Bromofluorobenzene	72.6			64.0-132		04/23/2017 19:46	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12.3		0.860	4.48	1	04/22/2017 15:16	WG972471
(S) o-Terphenyl	66.1			18.0-148		04/22/2017 15:16	WG972471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00718	0.0369	1	04/25/2017 09:50	WG973349
Acenaphthylene	U		0.00751	0.0369	1	04/25/2017 09:50	WG973349
Anthracene	0.00923	J	0.00707	0.0369	1	04/25/2017 09:50	WG973349
Benzidine	U		0.0713	0.373	1	04/25/2017 09:50	WG973349
Benzo(a)anthracene	0.0456		0.00479	0.0369	1	04/25/2017 09:50	WG973349
Benzo(b)fluoranthene	0.0544		0.00778	0.0369	1	04/25/2017 09:50	WG973349
Benzo(k)fluoranthene	0.0230	J	0.00651	0.0369	1	04/25/2017 09:50	WG973349
Benzo(g,h,i)perylene	0.0285	J	0.00807	0.0369	1	04/25/2017 09:50	WG973349
Benzo(a)pyrene	0.0544		0.00613	0.0369	1	04/25/2017 09:50	WG973349
Bis(2-chlorethoxy)methane	U		0.00862	0.373	1	04/25/2017 09:50	WG973349
Bis(2-chloroethyl)ether	U		0.0100	0.373	1	04/25/2017 09:50	WG973349
Bis(2-chloroisopropyl)ether	U		0.00850	0.373	1	04/25/2017 09:50	WG973349
4-Bromophenyl-phenylether	U		0.0128	0.373	1	04/25/2017 09:50	WG973349
2-Chloronaphthalene	U		0.00715	0.0369	1	04/25/2017 09:50	WG973349
4-Chlorophenyl-phenylether	U		0.00702	0.373	1	04/25/2017 09:50	WG973349
Chrysene	0.0508		0.00621	0.0369	1	04/25/2017 09:50	WG973349
Dibenz(a,h)anthracene	U		0.00919	0.0369	1	04/25/2017 09:50	WG973349
3,3-Dichlorobenzidine	U		0.0888	0.373	1	04/25/2017 09:50	WG973349
2,4-Dinitrotoluene	U		0.00679	0.373	1	04/25/2017 09:50	WG973349
2,6-Dinitrotoluene	U		0.00825	0.373	1	04/25/2017 09:50	WG973349
Fluoranthene	0.0642		0.00555	0.0369	1	04/25/2017 09:50	WG973349
Fluorene	U		0.00763	0.0369	1	04/25/2017 09:50	WG973349
Hexachlorobenzene	U		0.00958	0.373	1	04/25/2017 09:50	WG973349
Hexachloro-1,3-butadiene	U		0.0112	0.373	1	04/25/2017 09:50	WG973349
Hexachlorocyclopentadiene	U		0.0657	0.373	1	04/25/2017 09:50	WG973349
Hexachloroethane	U		0.0150	0.373	1	04/25/2017 09:50	WG973349
Indeno(1,2,3-cd)pyrene	0.0257	J	0.00864	0.0369	1	04/25/2017 09:50	WG973349
Isophorone	U		0.00584	0.373	1	04/25/2017 09:50	WG973349
Naphthalene	U		0.00995	0.0369	1	04/25/2017 09:50	WG973349
Nitrobenzene	U		0.00778	0.373	1	04/25/2017 09:50	WG973349
n-Nitrosodimethylamine	U		0.0724	0.373	1	04/25/2017 09:50	WG973349
n-Nitrosodiphenylamine	U		0.00665	0.373	1	04/25/2017 09:50	WG973349
n-Nitrosodi-n-propylamine	U		0.0101	0.373	1	04/25/2017 09:50	WG973349
Phenanthrene	0.0282	J	0.00591	0.0369	1	04/25/2017 09:50	WG973349
Benzylbutyl phthalate	U		0.0115	0.373	1	04/25/2017 09:50	WG973349
Bis(2-ethylhexyl)phthalate	U		0.0134	0.373	1	04/25/2017 09:50	WG973349
Di-n-butyl phthalate	U		0.0122	0.373	1	04/25/2017 09:50	WG973349
Diethyl phthalate	U		0.00773	0.373	1	04/25/2017 09:50	WG973349
Dimethyl phthalate	U		0.00604	0.373	1	04/25/2017 09:50	WG973349
Di-n-octyl phthalate	U		0.0101	0.373	1	04/25/2017 09:50	WG973349
Pyrene	0.0622		0.0138	0.0369	1	04/25/2017 09:50	WG973349
1,2,4-Trichlorobenzene	U		0.00980	0.373	1	04/25/2017 09:50	WG973349
4-Chloro-3-methylphenol	U		0.00534	0.373	1	04/25/2017 09:50	WG973349
2-Chlorophenol	U		0.00930	0.373	1	04/25/2017 09:50	WG973349
2,4-Dichlorophenol	U		0.00835	0.373	1	04/25/2017 09:50	WG973349
2,4-Dimethylphenol	U		0.0527	0.373	1	04/25/2017 09:50	WG973349
4,6-Dinitro-2-methylphenol	U		0.139	0.373	1	04/25/2017 09:50	WG973349
2,4-Dinitrophenol	U		0.110	0.373	1	04/25/2017 09:50	WG973349
2-Nitrophenol	U		0.0145	0.373	1	04/25/2017 09:50	WG973349
4-Nitrophenol	U		0.0587	0.373	1	04/25/2017 09:50	WG973349
Pentachlorophenol	U		0.0537	0.373	1	04/25/2017 09:50	WG973349
Phenol	U		0.00778	0.373	1	04/25/2017 09:50	WG973349
2,4,6-Trichlorophenol	U		0.00872	0.373	1	04/25/2017 09:50	WG973349
(S) 2-Fluorophenol	47.9			20.0-120		04/25/2017 09:50	WG973349
(S) Phenol-d5	53.0			20.0-120		04/25/2017 09:50	WG973349
(S) Nitrobenzene-d5	60.7			18.0-125		04/25/2017 09:50	WG973349

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 11:30

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	71.1			28.0-120		04/25/2017 09:50	WG973349
(S) 2,4,6-Tribromophenol	87.5			17.0-137		04/25/2017 09:50	WG973349
(S) p-Terphenyl-d14	52.3			13.0-131		04/25/2017 09:50	WG973349

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.1		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.0159	J	0.00304	0.0217	1	04/21/2017 14:23	WG972271

Metals (ICP) by Method 6010B

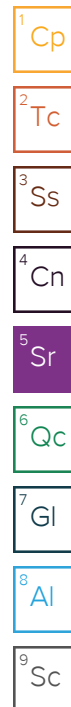
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	6.78		0.706	2.17	1	04/21/2017 15:14	WG972363
Barium	56.1		0.185	0.543	1	04/21/2017 15:14	WG972363
Cadmium	0.878		0.0760	0.543	1	04/21/2017 15:14	WG972363
Chromium	10.8		0.152	1.09	1	04/21/2017 15:14	WG972363
Lead	68.8		0.206	0.543	1	04/21/2017 15:14	WG972363
Selenium	U		0.804	2.17	1	04/21/2017 15:14	WG972363
Silver	U		0.304	1.09	1	04/21/2017 15:14	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	04/22/2017 23:34	WG973065
(S) a,a,a-Trifluorotoluene(FID)	90.6			77.0-120		04/22/2017 23:34	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	U		0.0109	0.0543	1	04/23/2017 20:07	WG973085
Acrylonitrile	U		0.00194	0.0109	1	04/23/2017 20:07	WG973085
Benzene	U		0.000293	0.00109	1	04/23/2017 20:07	WG973085
Bromobenzene	U		0.000308	0.00109	1	04/23/2017 20:07	WG973085
Bromodichloromethane	U		0.000276	0.00109	1	04/23/2017 20:07	WG973085
Bromoform	U		0.000460	0.00109	1	04/23/2017 20:07	WG973085
Bromomethane	U		0.00146	0.00543	1	04/23/2017 20:07	WG973085
n-Butylbenzene	U		0.000280	0.00109	1	04/23/2017 20:07	WG973085
sec-Butylbenzene	U		0.000218	0.00109	1	04/23/2017 20:07	WG973085
tert-Butylbenzene	U		0.000224	0.00109	1	04/23/2017 20:07	WG973085
Carbon tetrachloride	U		0.000356	0.00109	1	04/23/2017 20:07	WG973085
Chlorobenzene	U		0.000230	0.00109	1	04/23/2017 20:07	WG973085
Chlorodibromomethane	U		0.000405	0.00109	1	04/23/2017 20:07	WG973085
Chloroethane	U		0.00103	0.00543	1	04/23/2017 20:07	WG973085
2-Chloroethyl vinyl ether	U		0.00254	0.0543	1	04/23/2017 20:07	WG973085
Chloroform	U		0.000249	0.00543	1	04/23/2017 20:07	WG973085
Chloromethane	U		0.000407	0.00271	1	04/23/2017 20:07	WG973085
2-Chlorotoluene	U		0.000327	0.00109	1	04/23/2017 20:07	WG973085
4-Chlorotoluene	U		0.000261	0.00109	1	04/23/2017 20:07	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00114	0.00543	1	04/23/2017 20:07	WG973085
1,2-Dibromoethane	U		0.000372	0.00109	1	04/23/2017 20:07	WG973085
Dibromomethane	U		0.000415	0.00109	1	04/23/2017 20:07	WG973085
1,2-Dichlorobenzene	U		0.000331	0.00109	1	04/23/2017 20:07	WG973085
1,3-Dichlorobenzene	U		0.000260	0.00109	1	04/23/2017 20:07	WG973085
1,4-Dichlorobenzene	U		0.000245	0.00109	1	04/23/2017 20:07	WG973085
Dichlorodifluoromethane	U		0.000774	0.00543	1	04/23/2017 20:07	WG973085
1,1-Dichloroethane	U		0.000216	0.00109	1	04/23/2017 20:07	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
1,2-Dichloroethane	U		0.000288	0.00109	1	04/23/2017 20:07	WG973085	¹ Cp
1,1-Dichloroethene	U		0.000329	0.00109	1	04/23/2017 20:07	WG973085	² Tc
cis-1,2-Dichloroethene	U		0.000255	0.00109	1	04/23/2017 20:07	WG973085	³ Ss
trans-1,2-Dichloroethene	U		0.000287	0.00109	1	04/23/2017 20:07	WG973085	⁴ Cn
1,2-Dichloropropane	U		0.000389	0.00109	1	04/23/2017 20:07	WG973085	⁵ Sr
1,1-Dichloropropene	U		0.000344	0.00109	1	04/23/2017 20:07	WG973085	⁶ Qc
1,3-Dichloropropane	U		0.000225	0.00109	1	04/23/2017 20:07	WG973085	⁷ Gl
cis-1,3-Dichloropropene	U		0.000285	0.00109	1	04/23/2017 20:07	WG973085	⁸ Al
trans-1,3-Dichloropropene	U		0.000290	0.00109	1	04/23/2017 20:07	WG973085	⁹ Sc
2,2-Dichloropropane	U		0.000303	0.00109	1	04/23/2017 20:07	WG973085	
Di-isopropyl ether	U		0.000269	0.00109	1	04/23/2017 20:07	WG973085	
Ethylbenzene	U		0.000323	0.00109	1	04/23/2017 20:07	WG973085	
Hexachloro-1,3-butadiene	U		0.000371	0.00109	1	04/23/2017 20:07	WG973085	
Isopropylbenzene	U		0.000264	0.00109	1	04/23/2017 20:07	WG973085	
p-Isopropyltoluene	U		0.000222	0.00109	1	04/23/2017 20:07	WG973085	
2-Butanone (MEK)	U		0.00508	0.0109	1	04/23/2017 20:07	WG973085	
Methylene Chloride	U		0.00109	0.00543	1	04/23/2017 20:07	WG973085	
4-Methyl-2-pentanone (MIBK)	U		0.00204	0.0109	1	04/23/2017 20:07	WG973085	
Methyl tert-butyl ether	U		0.000230	0.00109	1	04/23/2017 20:07	WG973085	
Naphthalene	U		0.00109	0.00543	1	04/23/2017 20:07	WG973085	
n-Propylbenzene	U		0.000224	0.00109	1	04/23/2017 20:07	WG973085	
Styrene	U		0.000254	0.00109	1	04/23/2017 20:07	WG973085	
1,1,1,2-Tetrachloroethane	U		0.000287	0.00109	1	04/23/2017 20:07	WG973085	
1,1,2,2-Tetrachloroethane	U		0.000396	0.00109	1	04/23/2017 20:07	WG973085	
1,1,2-Trichlorotrifluoroethane	U		0.000396	0.00109	1	04/23/2017 20:07	WG973085	
Tetrachloroethene	U		0.000300	0.00109	1	04/23/2017 20:07	WG973085	
Toluene	U		0.000471	0.00543	1	04/23/2017 20:07	WG973085	
1,2,3-Trichlorobenzene	U		0.000332	0.00109	1	04/23/2017 20:07	WG973085	
1,2,4-Trichlorobenzene	U		0.000421	0.00109	1	04/23/2017 20:07	WG973085	
1,1,1-Trichloroethane	U		0.000311	0.00109	1	04/23/2017 20:07	WG973085	
1,1,2-Trichloroethane	U		0.000301	0.00109	1	04/23/2017 20:07	WG973085	
Trichloroethene	U		0.000303	0.00109	1	04/23/2017 20:07	WG973085	
Trichlorofluoromethane	U		0.000415	0.00543	1	04/23/2017 20:07	WG973085	
1,2,3-Trichloropropane	U		0.000805	0.00271	1	04/23/2017 20:07	WG973085	
1,2,4-Trimethylbenzene	U		0.000229	0.00109	1	04/23/2017 20:07	WG973085	
1,2,3-Trimethylbenzene	U		0.000312	0.00109	1	04/23/2017 20:07	WG973085	
1,3,5-Trimethylbenzene	U		0.000289	0.00109	1	04/23/2017 20:07	WG973085	
Vinyl chloride	U		0.000316	0.00109	1	04/23/2017 20:07	WG973085	
Xylenes, Total	U		0.000758	0.00326	1	04/23/2017 20:07	WG973085	
(S) Toluene-d8	102			80.0-120		04/23/2017 20:07	WG973085	
(S) Dibromofluoromethane	105			74.0-131		04/23/2017 20:07	WG973085	
(S) 4-Bromofluorobenzene	84.6			64.0-132		04/23/2017 20:07	WG973085	

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		83.5	434	100	04/22/2017 17:19	WG972471
(S) o-Terphenyl	42.3	J7		18.0-148		04/22/2017 17:19	WG972471

Sample Narrative:

8015 L903712-05 WG972471: Cannot run at lower dilution due to viscosity of extract



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.697	3.58	100	04/25/2017 10:57	WG973349
Acenaphthylene	U		0.729	3.58	100	04/25/2017 10:57	WG973349
Anthracene	U		0.686	3.58	100	04/25/2017 10:57	WG973349
Benzidine	U		6.92	36.2	100	04/25/2017 10:57	WG973349
Benzo(a)anthracene	U		0.465	3.58	100	04/25/2017 10:57	WG973349
Benzo(b)fluoranthene	U		0.755	3.58	100	04/25/2017 10:57	WG973349
Benzo(k)fluoranthene	U		0.632	3.58	100	04/25/2017 10:57	WG973349
Benzo(g,h,i)perylene	U		0.783	3.58	100	04/25/2017 10:57	WG973349
Benzo(a)pyrene	U		0.595	3.58	100	04/25/2017 10:57	WG973349
Bis(2-chlorethoxy)methane	U		0.836	36.2	100	04/25/2017 10:57	WG973349
Bis(2-chloroethyl)ether	U		0.973	36.2	100	04/25/2017 10:57	WG973349
Bis(2-chloroisopropyl)ether	U		0.825	36.2	100	04/25/2017 10:57	WG973349
4-Bromophenyl-phenylether	U		1.24	36.2	100	04/25/2017 10:57	WG973349
2-Chloronaphthalene	U		0.694	3.58	100	04/25/2017 10:57	WG973349
4-Chlorophenyl-phenylether	U		0.681	36.2	100	04/25/2017 10:57	WG973349
Chrysene	U		0.603	3.58	100	04/25/2017 10:57	WG973349
Dibenz(a,h)anthracene	U		0.892	3.58	100	04/25/2017 10:57	WG973349
3,3-Dichlorobenzidine	U		8.62	36.2	100	04/25/2017 10:57	WG973349
2,4-Dinitrotoluene	U		0.659	36.2	100	04/25/2017 10:57	WG973349
2,6-Dinitrotoluene	U		0.800	36.2	100	04/25/2017 10:57	WG973349
Fluoranthene	U		0.539	3.58	100	04/25/2017 10:57	WG973349
Fluorene	U		0.741	3.58	100	04/25/2017 10:57	WG973349
Hexachlorobenzene	U		0.930	36.2	100	04/25/2017 10:57	WG973349
Hexachloro-1,3-butadiene	U		1.09	36.2	100	04/25/2017 10:57	WG973349
Hexachlorocyclopentadiene	U		6.37	36.2	100	04/25/2017 10:57	WG973349
Hexachloroethane	U		1.46	36.2	100	04/25/2017 10:57	WG973349
Indeno(1,2,3-cd)pyrene	U		0.838	3.58	100	04/25/2017 10:57	WG973349
Isophorone	U		0.567	36.2	100	04/25/2017 10:57	WG973349
Naphthalene	U		0.965	3.58	100	04/25/2017 10:57	WG973349
Nitrobenzene	U		0.755	36.2	100	04/25/2017 10:57	WG973349
n-Nitrosodimethylamine	U		7.03	36.2	100	04/25/2017 10:57	WG973349
n-Nitrosodiphenylamine	U		0.645	36.2	100	04/25/2017 10:57	WG973349
n-Nitrosodi-n-propylamine	U		0.984	36.2	100	04/25/2017 10:57	WG973349
Phenanthrene	U		0.573	3.58	100	04/25/2017 10:57	WG973349
Benzylbutyl phthalate	U		1.12	36.2	100	04/25/2017 10:57	WG973349
Bis(2-ethylhexyl)phthalate	U		1.30	36.2	100	04/25/2017 10:57	WG973349
Di-n-butyl phthalate	U		1.18	36.2	100	04/25/2017 10:57	WG973349
Diethyl phthalate	U		0.750	36.2	100	04/25/2017 10:57	WG973349
Dimethyl phthalate	U		0.586	36.2	100	04/25/2017 10:57	WG973349
Di-n-octyl phthalate	U		0.985	36.2	100	04/25/2017 10:57	WG973349
Pyrene	U		1.34	3.58	100	04/25/2017 10:57	WG973349
1,2,4-Trichlorobenzene	U		0.951	36.2	100	04/25/2017 10:57	WG973349
4-Chloro-3-methylphenol	U		0.518	36.2	100	04/25/2017 10:57	WG973349
2-Chlorophenol	U		0.902	36.2	100	04/25/2017 10:57	WG973349
2,4-Dichlorophenol	U		0.810	36.2	100	04/25/2017 10:57	WG973349
2,4-Dimethylphenol	U		5.11	36.2	100	04/25/2017 10:57	WG973349
4,6-Dinitro-2-methylphenol	U		13.5	36.2	100	04/25/2017 10:57	WG973349
2,4-Dinitrophenol	U		10.6	36.2	100	04/25/2017 10:57	WG973349
2-Nitrophenol	U		1.41	36.2	100	04/25/2017 10:57	WG973349
4-Nitrophenol	U		5.70	36.2	100	04/25/2017 10:57	WG973349
Pentachlorophenol	U		5.21	36.2	100	04/25/2017 10:57	WG973349
Phenol	U		0.755	36.2	100	04/25/2017 10:57	WG973349
2,4,6-Trichlorophenol	U		0.846	36.2	100	04/25/2017 10:57	WG973349
(S) 2-Fluorophenol	69.8	J7		20.0-120		04/25/2017 10:57	WG973349
(S) Phenol-d5	84.1	J7		20.0-120		04/25/2017 10:57	WG973349
(S) Nitrobenzene-d5	72.4	J7		18.0-125		04/25/2017 10:57	WG973349

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 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	100	J7		28.0-120		04/25/2017 10:57	WG973349
(S) 2,4,6-Tribromophenol	61.6	J7		17.0-137		04/25/2017 10:57	WG973349
(S) p-Terphenyl-d14	95.9	J7		13.0-131		04/25/2017 10:57	WG973349

Sample Narrative:

8270C L903712-05 WG973349: Cannot run at lower dilution due to viscosity of extract

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.376		0.00330	0.0235	1	04/21/2017 14:31	WG972271

Metals (ICP) by Method 6010B

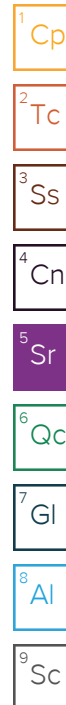
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	6.10		0.765	2.35	1	04/21/2017 15:16	WG972363
Barium	146		0.200	0.589	1	04/21/2017 15:16	WG972363
Cadmium	0.998		0.0824	0.589	1	04/21/2017 15:16	WG972363
Chromium	10.1		0.165	1.18	1	04/21/2017 15:16	WG972363
Lead	164		0.224	0.589	1	04/21/2017 15:16	WG972363
Selenium	U		0.871	2.35	1	04/21/2017 15:16	WG972363
Silver	U		0.330	1.18	1	04/21/2017 15:16	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0255	0.118	1	04/22/2017 23:56	WG973065
(S) a,a,a-Trifluorotoluene(FID)	91.0			77.0-120		04/22/2017 23:56	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	0.0131	J	0.0118	0.0589	1	04/23/2017 20:28	WG973085
Acrylonitrile	U		0.00211	0.0118	1	04/23/2017 20:28	WG973085
Benzene	0.00122		0.000318	0.00118	1	04/23/2017 20:28	WG973085
Bromobenzene	U		0.000334	0.00118	1	04/23/2017 20:28	WG973085
Bromodichloromethane	U		0.000299	0.00118	1	04/23/2017 20:28	WG973085
Bromoform	U		0.000499	0.00118	1	04/23/2017 20:28	WG973085
Bromomethane	U		0.00158	0.00589	1	04/23/2017 20:28	WG973085
n-Butylbenzene	U		0.000304	0.00118	1	04/23/2017 20:28	WG973085
sec-Butylbenzene	U		0.000237	0.00118	1	04/23/2017 20:28	WG973085
tert-Butylbenzene	U		0.000242	0.00118	1	04/23/2017 20:28	WG973085
Carbon tetrachloride	U		0.000386	0.00118	1	04/23/2017 20:28	WG973085
Chlorobenzene	U		0.000250	0.00118	1	04/23/2017 20:28	WG973085
Chlorodibromomethane	U		0.000439	0.00118	1	04/23/2017 20:28	WG973085
Chloroethane	U		0.00111	0.00589	1	04/23/2017 20:28	WG973085
2-Chloroethyl vinyl ether	U		0.00275	0.0589	1	04/23/2017 20:28	WG973085
Chloroform	U		0.000270	0.00589	1	04/23/2017 20:28	WG973085
Chloromethane	U		0.000441	0.00294	1	04/23/2017 20:28	WG973085
2-Chlorotoluene	U		0.000354	0.00118	1	04/23/2017 20:28	WG973085
4-Chlorotoluene	U		0.000282	0.00118	1	04/23/2017 20:28	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00124	0.00589	1	04/23/2017 20:28	WG973085
1,2-Dibromoethane	U		0.000404	0.00118	1	04/23/2017 20:28	WG973085
Dibromomethane	U		0.000450	0.00118	1	04/23/2017 20:28	WG973085
1,2-Dichlorobenzene	U		0.000359	0.00118	1	04/23/2017 20:28	WG973085
1,3-Dichlorobenzene	U		0.000281	0.00118	1	04/23/2017 20:28	WG973085
1,4-Dichlorobenzene	U		0.000266	0.00118	1	04/23/2017 20:28	WG973085
Dichlorodifluoromethane	U		0.000839	0.00589	1	04/23/2017 20:28	WG973085
1,1-Dichloroethane	U		0.000234	0.00118	1	04/23/2017 20:28	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
1,2-Dichloroethane	U		0.000312	0.00118	1	04/23/2017 20:28	WG973085	¹ Cp
1,1-Dichloroethene	U		0.000357	0.00118	1	04/23/2017 20:28	WG973085	² Tc
cis-1,2-Dichloroethene	U		0.000277	0.00118	1	04/23/2017 20:28	WG973085	³ Ss
trans-1,2-Dichloroethene	U		0.000311	0.00118	1	04/23/2017 20:28	WG973085	⁴ Cn
1,2-Dichloropropane	U		0.000421	0.00118	1	04/23/2017 20:28	WG973085	⁵ Sr
1,1-Dichloropropene	U		0.000373	0.00118	1	04/23/2017 20:28	WG973085	⁶ Qc
1,3-Dichloropropane	U		0.000244	0.00118	1	04/23/2017 20:28	WG973085	⁷ Gl
cis-1,3-Dichloropropene	U		0.000308	0.00118	1	04/23/2017 20:28	WG973085	⁸ Al
trans-1,3-Dichloropropene	U		0.000314	0.00118	1	04/23/2017 20:28	WG973085	⁹ Sc
2,2-Dichloropropane	U		0.000328	0.00118	1	04/23/2017 20:28	WG973085	
Di-isopropyl ether	U		0.000292	0.00118	1	04/23/2017 20:28	WG973085	
Ethylbenzene	U		0.000350	0.00118	1	04/23/2017 20:28	WG973085	
Hexachloro-1,3-butadiene	U		0.000403	0.00118	1	04/23/2017 20:28	WG973085	
Isopropylbenzene	U		0.000286	0.00118	1	04/23/2017 20:28	WG973085	
p-Isopropyltoluene	U		0.000240	0.00118	1	04/23/2017 20:28	WG973085	
2-Butanone (MEK)	U		0.00551	0.0118	1	04/23/2017 20:28	WG973085	
Methylene Chloride	U		0.00118	0.00589	1	04/23/2017 20:28	WG973085	
4-Methyl-2-pentanone (MIBK)	U		0.00221	0.0118	1	04/23/2017 20:28	WG973085	
Methyl tert-butyl ether	U		0.000250	0.00118	1	04/23/2017 20:28	WG973085	
Naphthalene	U		0.00118	0.00589	1	04/23/2017 20:28	WG973085	
n-Propylbenzene	U		0.000242	0.00118	1	04/23/2017 20:28	WG973085	
Styrene	U		0.000275	0.00118	1	04/23/2017 20:28	WG973085	
1,1,1,2-Tetrachloroethane	U		0.000311	0.00118	1	04/23/2017 20:28	WG973085	
1,1,2,2-Tetrachloroethane	U		0.000430	0.00118	1	04/23/2017 20:28	WG973085	
1,1,2-Trichlorotrifluoroethane	U		0.000430	0.00118	1	04/23/2017 20:28	WG973085	
Tetrachloroethene	U		0.000325	0.00118	1	04/23/2017 20:28	WG973085	
Toluene	0.000679	J	0.000511	0.00589	1	04/23/2017 20:28	WG973085	
1,2,3-Trichlorobenzene	U		0.000360	0.00118	1	04/23/2017 20:28	WG973085	
1,2,4-Trichlorobenzene	U		0.000457	0.00118	1	04/23/2017 20:28	WG973085	
1,1,1-Trichloroethane	U		0.000337	0.00118	1	04/23/2017 20:28	WG973085	
1,1,2-Trichloroethane	U		0.000326	0.00118	1	04/23/2017 20:28	WG973085	
Trichloroethene	U		0.000328	0.00118	1	04/23/2017 20:28	WG973085	
Trichlorofluoromethane	U		0.000450	0.00589	1	04/23/2017 20:28	WG973085	
1,2,3-Trichloropropane	U		0.000872	0.00294	1	04/23/2017 20:28	WG973085	
1,2,4-Trimethylbenzene	U		0.000248	0.00118	1	04/23/2017 20:28	WG973085	
1,2,3-Trimethylbenzene	U		0.000338	0.00118	1	04/23/2017 20:28	WG973085	
1,3,5-Trimethylbenzene	U		0.000313	0.00118	1	04/23/2017 20:28	WG973085	
Vinyl chloride	U		0.000343	0.00118	1	04/23/2017 20:28	WG973085	
Xylenes, Total	U		0.000822	0.00353	1	04/23/2017 20:28	WG973085	
(S) Toluene-d8	99.0			80.0-120		04/23/2017 20:28	WG973085	
(S) Dibromofluoromethane	107			74.0-131		04/23/2017 20:28	WG973085	
(S) 4-Bromofluorobenzene	51.2	J2		64.0-132		04/23/2017 20:28	WG973085	

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	280	J	90.5	471	100	04/22/2017 17:30	WG972471
(S) o-Terphenyl	58.2	J7		18.0-148		04/22/2017 17:30	WG972471

Sample Narrative:

8015 L903712-06 WG972471: Cannot run at lower dilution due to viscosity of extract



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00756	0.0388	1	04/25/2017 09:27	WG973349
Acenaphthylene	U		0.00790	0.0388	1	04/25/2017 09:27	WG973349
Anthracene	U		0.00744	0.0388	1	04/25/2017 09:27	WG973349
Benidine	U		0.0750	0.392	1	04/25/2017 09:27	WG973349
Benzo(a)anthracene	0.0148	L	0.00504	0.0388	1	04/25/2017 09:27	WG973349
Benzo(b)fluoranthene	0.0226	L	0.00818	0.0388	1	04/25/2017 09:27	WG973349
Benzo(k)fluoranthene	0.00937	L	0.00685	0.0388	1	04/25/2017 09:27	WG973349
Benzo(g,h,i)perylene	0.0136	L	0.00849	0.0388	1	04/25/2017 09:27	WG973349
Benzo(a)pyrene	0.0180	L	0.00645	0.0388	1	04/25/2017 09:27	WG973349
Bis(2-chlorethoxy)methane	U		0.00906	0.392	1	04/25/2017 09:27	WG973349
Bis(2-chloroethyl)ether	U		0.0105	0.392	1	04/25/2017 09:27	WG973349
Bis(2-chloroisopropyl)ether	U		0.00895	0.392	1	04/25/2017 09:27	WG973349
4-Bromophenyl-phenylether	U		0.0134	0.392	1	04/25/2017 09:27	WG973349
2-Chloronaphthalene	U		0.00752	0.0388	1	04/25/2017 09:27	WG973349
4-Chlorophenyl-phenylether	U		0.00738	0.392	1	04/25/2017 09:27	WG973349
Chrysene	0.0201	L	0.00653	0.0388	1	04/25/2017 09:27	WG973349
Dibenz(a,h)anthracene	0.0119	L	0.00966	0.0388	1	04/25/2017 09:27	WG973349
3,3-Dichlorobenzidine	U		0.0935	0.392	1	04/25/2017 09:27	WG973349
2,4-Dinitrotoluene	U		0.00714	0.392	1	04/25/2017 09:27	WG973349
2,6-Dinitrotoluene	U		0.00867	0.392	1	04/25/2017 09:27	WG973349
Fluoranthene	0.0236	L	0.00584	0.0388	1	04/25/2017 09:27	WG973349
Fluorene	U		0.00803	0.0388	1	04/25/2017 09:27	WG973349
Hexachlorobenzene	U		0.0101	0.392	1	04/25/2017 09:27	WG973349
Hexachloro-1,3-butadiene	U		0.0118	0.392	1	04/25/2017 09:27	WG973349
Hexachlorocyclopentadiene	U		0.0691	0.392	1	04/25/2017 09:27	WG973349
Hexachloroethane	U		0.0158	0.392	1	04/25/2017 09:27	WG973349
Indeno(1,2,3-cd)pyrene	0.00929	L	0.00909	0.0388	1	04/25/2017 09:27	WG973349
Isophorone	U		0.00614	0.392	1	04/25/2017 09:27	WG973349
Naphthalene	0.0137	L	0.0105	0.0388	1	04/25/2017 09:27	WG973349
Nitrobenzene	U		0.00818	0.392	1	04/25/2017 09:27	WG973349
n-Nitrosodimethylamine	U		0.0762	0.392	1	04/25/2017 09:27	WG973349
n-Nitrosodiphenylamine	U		0.00699	0.392	1	04/25/2017 09:27	WG973349
n-Nitrosodi-n-propylamine	U		0.0107	0.392	1	04/25/2017 09:27	WG973349
Phenanthrene	0.0191	L	0.00621	0.0388	1	04/25/2017 09:27	WG973349
Benzylbutyl phthalate	U		0.0121	0.392	1	04/25/2017 09:27	WG973349
Bis(2-ethylhexyl)phthalate	U		0.0141	0.392	1	04/25/2017 09:27	WG973349
Di-n-butyl phthalate	U		0.0128	0.392	1	04/25/2017 09:27	WG973349
Diethyl phthalate	U		0.00813	0.392	1	04/25/2017 09:27	WG973349
Dimethyl phthalate	U		0.00636	0.392	1	04/25/2017 09:27	WG973349
Di-n-octyl phthalate	U		0.0107	0.392	1	04/25/2017 09:27	WG973349
Pyrene	0.0251	L	0.0145	0.0388	1	04/25/2017 09:27	WG973349
1,2,4-Trichlorobenzene	U		0.0103	0.392	1	04/25/2017 09:27	WG973349
4-Chloro-3-methylphenol	U		0.00561	0.392	1	04/25/2017 09:27	WG973349
2-Chlorophenol	U		0.00978	0.392	1	04/25/2017 09:27	WG973349
2,4-Dichlorophenol	U		0.00878	0.392	1	04/25/2017 09:27	WG973349
2,4-Dimethylphenol	U		0.0554	0.392	1	04/25/2017 09:27	WG973349
4,6-Dinitro-2-methylphenol	U		0.146	0.392	1	04/25/2017 09:27	WG973349
2,4-Dinitrophenol	U		0.115	0.392	1	04/25/2017 09:27	WG973349
2-Nitrophenol	U		0.0153	0.392	1	04/25/2017 09:27	WG973349
4-Nitrophenol	U		0.0618	0.392	1	04/25/2017 09:27	WG973349
Pentachlorophenol	U		0.0565	0.392	1	04/25/2017 09:27	WG973349
Phenol	U		0.00818	0.392	1	04/25/2017 09:27	WG973349
2,4,6-Trichlorophenol	U		0.00917	0.392	1	04/25/2017 09:27	WG973349
(S) 2-Fluorophenol	63.3			20.0-120		04/25/2017 09:27	WG973349
(S) Phenol-d5	66.4			20.0-120		04/25/2017 09:27	WG973349
(S) Nitrobenzene-d5	68.9			18.0-125		04/25/2017 09:27	WG973349

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 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	73.5			28.0-120		04/25/2017 09:27	WG973349
(S) 2,4,6-Tribromophenol	69.5			17.0-137		04/25/2017 09:27	WG973349
(S) p-Terphenyl-d14	64.5			13.0-131		04/25/2017 09:27	WG973349

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.6		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	1.65		0.00713	0.0509	2	04/21/2017 16:21	WG972271

Metals (ICP) by Method 6010B

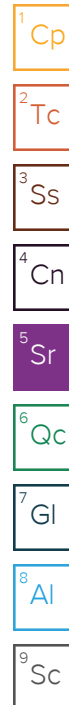
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	27.8		0.827	2.55	1	04/21/2017 15:19	WG972363
Barium	218		0.216	0.636	1	04/21/2017 15:19	WG972363
Cadmium	3.88		0.0891	0.636	1	04/21/2017 15:19	WG972363
Chromium	13.9		0.178	1.27	1	04/21/2017 15:19	WG972363
Lead	620		0.242	0.636	1	04/21/2017 15:19	WG972363
Selenium	U		0.942	2.55	1	04/21/2017 15:19	WG972363
Silver	0.952	J	0.356	1.27	1	04/21/2017 15:19	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0276	0.127	1	04/23/2017 00:19	WG973065
(S) a,a,a-Trifluorotoluene(FID)	90.2			77.0-120		04/23/2017 00:19	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0137	J	0.0127	0.0636	1	04/23/2017 20:48	WG973085
Acrylonitrile	U		0.00228	0.0127	1	04/23/2017 20:48	WG973085
Benzene	0.00122	J	0.000344	0.00127	1	04/23/2017 20:48	WG973085
Bromobenzene	U		0.000361	0.00127	1	04/23/2017 20:48	WG973085
Bromodichloromethane	U		0.000323	0.00127	1	04/23/2017 20:48	WG973085
Bromoform	U		0.000540	0.00127	1	04/23/2017 20:48	WG973085
Bromomethane	U		0.00171	0.00636	1	04/23/2017 20:48	WG973085
n-Butylbenzene	U		0.000328	0.00127	1	04/23/2017 20:48	WG973085
sec-Butylbenzene	U		0.000256	0.00127	1	04/23/2017 20:48	WG973085
tert-Butylbenzene	U		0.000262	0.00127	1	04/23/2017 20:48	WG973085
Carbon tetrachloride	U		0.000417	0.00127	1	04/23/2017 20:48	WG973085
Chlorobenzene	U		0.000270	0.00127	1	04/23/2017 20:48	WG973085
Chlorodibromomethane	U		0.000475	0.00127	1	04/23/2017 20:48	WG973085
Chloroethane	U		0.00120	0.00636	1	04/23/2017 20:48	WG973085
2-Chloroethyl vinyl ether	U		0.00298	0.0636	1	04/23/2017 20:48	WG973085
Chloroform	U		0.000291	0.00636	1	04/23/2017 20:48	WG973085
Chloromethane	U		0.000477	0.00318	1	04/23/2017 20:48	WG973085
2-Chlorotoluene	U		0.000383	0.00127	1	04/23/2017 20:48	WG973085
4-Chlorotoluene	U		0.000305	0.00127	1	04/23/2017 20:48	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00134	0.00636	1	04/23/2017 20:48	WG973085
1,2-Dibromoethane	U		0.000437	0.00127	1	04/23/2017 20:48	WG973085
Dibromomethane	U		0.000486	0.00127	1	04/23/2017 20:48	WG973085
1,2-Dichlorobenzene	U		0.000388	0.00127	1	04/23/2017 20:48	WG973085
1,3-Dichlorobenzene	U		0.000304	0.00127	1	04/23/2017 20:48	WG973085
1,4-Dichlorobenzene	U		0.000288	0.00127	1	04/23/2017 20:48	WG973085
Dichlorodifluoromethane	U		0.000907	0.00636	1	04/23/2017 20:48	WG973085
1,1-Dichloroethane	U		0.000253	0.00127	1	04/23/2017 20:48	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000337	0.00127	1	04/23/2017 20:48	WG973085
1,1-Dichloroethene	U		0.000386	0.00127	1	04/23/2017 20:48	WG973085
cis-1,2-Dichloroethene	U		0.000299	0.00127	1	04/23/2017 20:48	WG973085
trans-1,2-Dichloroethene	U		0.000336	0.00127	1	04/23/2017 20:48	WG973085
1,2-Dichloropropane	U		0.000456	0.00127	1	04/23/2017 20:48	WG973085
1,1-Dichloropropene	U		0.000403	0.00127	1	04/23/2017 20:48	WG973085
1,3-Dichloropropane	U		0.000263	0.00127	1	04/23/2017 20:48	WG973085
cis-1,3-Dichloropropene	U		0.000333	0.00127	1	04/23/2017 20:48	WG973085
trans-1,3-Dichloropropene	U		0.000340	0.00127	1	04/23/2017 20:48	WG973085
2,2-Dichloropropane	U		0.000355	0.00127	1	04/23/2017 20:48	WG973085
Di-isopropyl ether	U		0.000316	0.00127	1	04/23/2017 20:48	WG973085
Ethylbenzene	U		0.000378	0.00127	1	04/23/2017 20:48	WG973085
Hexachloro-1,3-butadiene	U		0.000435	0.00127	1	04/23/2017 20:48	WG973085
Isopropylbenzene	U		0.000309	0.00127	1	04/23/2017 20:48	WG973085
p-Isopropyltoluene	U		0.000260	0.00127	1	04/23/2017 20:48	WG973085
2-Butanone (MEK)	U		0.00596	0.0127	1	04/23/2017 20:48	WG973085
Methylene Chloride	U		0.00127	0.00636	1	04/23/2017 20:48	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00239	0.0127	1	04/23/2017 20:48	WG973085
Methyl tert-butyl ether	U		0.000270	0.00127	1	04/23/2017 20:48	WG973085
Naphthalene	U		0.00127	0.00636	1	04/23/2017 20:48	WG973085
n-Propylbenzene	U		0.000262	0.00127	1	04/23/2017 20:48	WG973085
Styrene	U		0.000298	0.00127	1	04/23/2017 20:48	WG973085
1,1,1,2-Tetrachloroethane	U		0.000336	0.00127	1	04/23/2017 20:48	WG973085
1,1,2,2-Tetrachloroethane	U		0.000465	0.00127	1	04/23/2017 20:48	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000465	0.00127	1	04/23/2017 20:48	WG973085
Tetrachloroethene	U		0.000351	0.00127	1	04/23/2017 20:48	WG973085
Toluene	0.000645	J	0.000552	0.00636	1	04/23/2017 20:48	WG973085
1,2,3-Trichlorobenzene	U		0.000389	0.00127	1	04/23/2017 20:48	WG973085
1,2,4-Trichlorobenzene	U		0.000494	0.00127	1	04/23/2017 20:48	WG973085
1,1,1-Trichloroethane	U		0.000364	0.00127	1	04/23/2017 20:48	WG973085
1,1,2-Trichloroethane	U		0.000353	0.00127	1	04/23/2017 20:48	WG973085
Trichloroethene	U		0.000355	0.00127	1	04/23/2017 20:48	WG973085
Trichlorofluoromethane	U		0.000486	0.00636	1	04/23/2017 20:48	WG973085
1,2,3-Trichloropropane	U		0.000943	0.00318	1	04/23/2017 20:48	WG973085
1,2,4-Trimethylbenzene	U		0.000269	0.00127	1	04/23/2017 20:48	WG973085
1,2,3-Trimethylbenzene	U		0.000365	0.00127	1	04/23/2017 20:48	WG973085
1,3,5-Trimethylbenzene	U		0.000339	0.00127	1	04/23/2017 20:48	WG973085
Vinyl chloride	U		0.000370	0.00127	1	04/23/2017 20:48	WG973085
Xylenes, Total	U		0.000888	0.00382	1	04/23/2017 20:48	WG973085
(S) Toluene-d8	103			80.0-120		04/23/2017 20:48	WG973085
(S) Dibromofluoromethane	103			74.0-131		04/23/2017 20:48	WG973085
(S) 4-Bromofluorobenzene	77.9			64.0-132		04/23/2017 20:48	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	22.2		0.979	5.09	1	04/22/2017 15:27	WG972471
(S) o-Terphenyl	62.8			18.0-148		04/22/2017 15:27	WG972471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00817	0.0420	1	04/25/2017 10:15	WG973349
Acenaphthylene	0.0116	U	0.00854	0.0420	1	04/25/2017 10:15	WG973349
Anthracene	0.0177	U	0.00804	0.0420	1	04/25/2017 10:15	WG973349
Benzidine	U		0.0811	0.424	1	04/25/2017 10:15	WG973349
Benzo(a)anthracene	0.0728		0.00545	0.0420	1	04/25/2017 10:15	WG973349
Benzo(b)fluoranthene	0.0969		0.00885	0.0420	1	04/25/2017 10:15	WG973349
Benzo(k)fluoranthene	0.0258	U	0.00741	0.0420	1	04/25/2017 10:15	WG973349
Benzo(g,h,i)perylene	0.0380	U	0.00918	0.0420	1	04/25/2017 10:15	WG973349
Benzo(a)pyrene	0.0803		0.00697	0.0420	1	04/25/2017 10:15	WG973349
Bis(2-chlorethoxy)methane	U		0.00980	0.424	1	04/25/2017 10:15	WG973349
Bis(2-chloroethyl)ether	U		0.0114	0.424	1	04/25/2017 10:15	WG973349
Bis(2-chloroisopropyl)ether	U		0.00967	0.424	1	04/25/2017 10:15	WG973349
4-Bromophenyl-phenylether	U		0.0145	0.424	1	04/25/2017 10:15	WG973349
2-Chloronaphthalene	U		0.00813	0.0420	1	04/25/2017 10:15	WG973349
4-Chlorophenyl-phenylether	U		0.00798	0.424	1	04/25/2017 10:15	WG973349
Chrysene	0.0847		0.00706	0.0420	1	04/25/2017 10:15	WG973349
Dibenz(a,h)anthracene	0.0121	U	0.0104	0.0420	1	04/25/2017 10:15	WG973349
3,3-Dichlorobenzidine	U		0.101	0.424	1	04/25/2017 10:15	WG973349
2,4-Dinitrotoluene	U		0.00773	0.424	1	04/25/2017 10:15	WG973349
2,6-Dinitrotoluene	U		0.00938	0.424	1	04/25/2017 10:15	WG973349
Fluoranthene	0.118		0.00631	0.0420	1	04/25/2017 10:15	WG973349
Fluorene	U		0.00868	0.0420	1	04/25/2017 10:15	WG973349
Hexachlorobenzene	U		0.0109	0.424	1	04/25/2017 10:15	WG973349
Hexachloro-1,3-butadiene	U		0.0127	0.424	1	04/25/2017 10:15	WG973349
Hexachlorocyclopentadiene	U		0.0747	0.424	1	04/25/2017 10:15	WG973349
Hexachloroethane	U		0.0171	0.424	1	04/25/2017 10:15	WG973349
Indeno(1,2,3-cd)pyrene	0.0355	U	0.00983	0.0420	1	04/25/2017 10:15	WG973349
Isophorone	U		0.00664	0.424	1	04/25/2017 10:15	WG973349
Naphthalene	0.0192	U	0.0113	0.0420	1	04/25/2017 10:15	WG973349
Nitrobenzene	U		0.00885	0.424	1	04/25/2017 10:15	WG973349
n-Nitrosodimethylamine	U		0.0823	0.424	1	04/25/2017 10:15	WG973349
n-Nitrosodiphenylamine	U		0.00756	0.424	1	04/25/2017 10:15	WG973349
n-Nitrosodi-n-propylamine	U		0.0115	0.424	1	04/25/2017 10:15	WG973349
Phenanthrene	0.0654		0.00672	0.0420	1	04/25/2017 10:15	WG973349
Benzylbutyl phthalate	U		0.0131	0.424	1	04/25/2017 10:15	WG973349
Bis(2-ethylhexyl)phthalate	U		0.0153	0.424	1	04/25/2017 10:15	WG973349
Di-n-butyl phthalate	U		0.0139	0.424	1	04/25/2017 10:15	WG973349
Diethyl phthalate	U		0.00879	0.424	1	04/25/2017 10:15	WG973349
Dimethyl phthalate	U		0.00687	0.424	1	04/25/2017 10:15	WG973349
Di-n-octyl phthalate	U		0.0115	0.424	1	04/25/2017 10:15	WG973349
Pyrene	0.109		0.0157	0.0420	1	04/25/2017 10:15	WG973349
1,2,4-Trichlorobenzene	U		0.0111	0.424	1	04/25/2017 10:15	WG973349
4-Chloro-3-methylphenol	U		0.00607	0.424	1	04/25/2017 10:15	WG973349
2-Chlorophenol	U		0.0106	0.424	1	04/25/2017 10:15	WG973349
2,4-Dichlorophenol	U		0.00949	0.424	1	04/25/2017 10:15	WG973349
2,4-Dimethylphenol	U		0.0599	0.424	1	04/25/2017 10:15	WG973349
4,6-Dinitro-2-methylphenol	U		0.158	0.424	1	04/25/2017 10:15	WG973349
2,4-Dinitrophenol	U		0.125	0.424	1	04/25/2017 10:15	WG973349
2-Nitrophenol	U		0.0165	0.424	1	04/25/2017 10:15	WG973349
4-Nitrophenol	U		0.0668	0.424	1	04/25/2017 10:15	WG973349
Pentachlorophenol	U		0.0611	0.424	1	04/25/2017 10:15	WG973349
Phenol	U		0.00885	0.424	1	04/25/2017 10:15	WG973349
2,4,6-Trichlorophenol	U		0.00991	0.424	1	04/25/2017 10:15	WG973349
(S) 2-Fluorophenol	55.1			20.0-120		04/25/2017 10:15	WG973349
(S) Phenol-d5	55.8			20.0-120		04/25/2017 10:15	WG973349
(S) Nitrobenzene-d5	67.2			18.0-125		04/25/2017 10:15	WG973349

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 12:15

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	64.9			28.0-120		04/25/2017 10:15	WG973349
(S) 2,4,6-Tribromophenol	96.4			17.0-137		04/25/2017 10:15	WG973349
(S) p-Terphenyl-d14	41.6			13.0-131		04/25/2017 10:15	WG973349

¹ Cp

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	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	04/20/2017 11:39	WG972291

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)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.0465		0.00310	0.0221	1	04/21/2017 14:36	WG972271

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	2.84		0.719	2.21	1	04/21/2017 15:22	WG972363
Barium	66.2		0.188	0.553	1	04/21/2017 15:22	WG972363
Cadmium	0.207	J	0.0774	0.553	1	04/21/2017 15:22	WG972363
Chromium	10.1		0.155	1.11	1	04/21/2017 15:22	WG972363
Lead	24.0		0.210	0.553	1	04/21/2017 15:22	WG972363
Selenium	U		0.818	2.21	1	04/21/2017 15:22	WG972363
Silver	U		0.310	1.11	1	04/21/2017 15:22	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	208		4.80	22.1	200	04/22/2017 21:43	WG973065
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		04/22/2017 21:43	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	U		2.21	11.1	200	04/23/2017 21:09	WG973085
Acrylonitrile	U		0.396	2.21	200	04/23/2017 21:09	WG973085
Benzene	U		0.0597	0.221	200	04/23/2017 21:09	WG973085
Bromobenzene	U		0.0628	0.221	200	04/23/2017 21:09	WG973085
Bromodichloromethane	U		0.0562	0.221	200	04/23/2017 21:09	WG973085
Bromoform	U		0.0937	0.221	200	04/23/2017 21:09	WG973085
Bromomethane	U		0.296	1.11	200	04/23/2017 21:09	WG973085
n-Butylbenzene	0.140	J	0.0570	0.221	200	04/23/2017 21:09	WG973085
sec-Butylbenzene	0.206	J	0.0444	0.221	200	04/23/2017 21:09	WG973085
tert-Butylbenzene	U		0.0455	0.221	200	04/23/2017 21:09	WG973085
Carbon tetrachloride	U		0.0725	0.221	200	04/23/2017 21:09	WG973085
Chlorobenzene	U		0.0469	0.221	200	04/23/2017 21:09	WG973085
Chlorodibromomethane	U		0.0825	0.221	200	04/23/2017 21:09	WG973085
Chloroethane	U		0.209	1.11	200	04/23/2017 21:09	WG973085
2-Chloroethyl vinyl ether	U		0.517	11.1	200	04/23/2017 21:09	WG973085
Chloroform	U		0.0506	1.11	200	04/23/2017 21:09	WG973085
Chloromethane	U		0.0829	0.553	200	04/23/2017 21:09	WG973085
2-Chlorotoluene	U		0.0666	0.221	200	04/23/2017 21:09	WG973085
4-Chlorotoluene	U		0.0531	0.221	200	04/23/2017 21:09	WG973085
1,2-Dibromo-3-Chloropropane	U		0.232	1.11	200	04/23/2017 21:09	WG973085
1,2-Dibromoethane	U		0.0758	0.221	200	04/23/2017 21:09	WG973085
Dibromomethane	U		0.0845	0.221	200	04/23/2017 21:09	WG973085
1,2-Dichlorobenzene	U		0.0674	0.221	200	04/23/2017 21:09	WG973085
1,3-Dichlorobenzene	U		0.0528	0.221	200	04/23/2017 21:09	WG973085
1,4-Dichlorobenzene	U		0.0500	0.221	200	04/23/2017 21:09	WG973085
Dichlorodifluoromethane	U		0.158	1.11	200	04/23/2017 21:09	WG973085
1,1-Dichloroethane	U		0.0440	0.221	200	04/23/2017 21:09	WG973085



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0586	0.221	200	04/23/2017 21:09	WG973085
1,1-Dichloroethene	U		0.0670	0.221	200	04/23/2017 21:09	WG973085
cis-1,2-Dichloroethene	U		0.0520	0.221	200	04/23/2017 21:09	WG973085
trans-1,2-Dichloroethene	U		0.0584	0.221	200	04/23/2017 21:09	WG973085
1,2-Dichloropropane	U		0.0792	0.221	200	04/23/2017 21:09	WG973085
1,1-Dichloropropene	U		0.0701	0.221	200	04/23/2017 21:09	WG973085
1,3-Dichloropropane	U		0.0458	0.221	200	04/23/2017 21:09	WG973085
cis-1,3-Dichloropropene	U		0.0579	0.221	200	04/23/2017 21:09	WG973085
trans-1,3-Dichloropropene	U		0.0590	0.221	200	04/23/2017 21:09	WG973085
2,2-Dichloropropane	U		0.0617	0.221	200	04/23/2017 21:09	WG973085
Di-isopropyl ether	U		0.0548	0.221	200	04/23/2017 21:09	WG973085
Ethylbenzene	U		0.0657	0.221	200	04/23/2017 21:09	WG973085
Hexachloro-1,3-butadiene	U		0.0756	0.221	200	04/23/2017 21:09	WG973085
Isopropylbenzene	U		0.0537	0.221	200	04/23/2017 21:09	WG973085
p-Isopropyltoluene	0.822		0.0451	0.221	200	04/23/2017 21:09	WG973085
2-Butanone (MEK)	U		1.03	2.21	200	04/23/2017 21:09	WG973085
Methylene Chloride	U		0.221	1.11	200	04/23/2017 21:09	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.416	2.21	200	04/23/2017 21:09	WG973085
Methyl tert-butyl ether	U		0.0469	0.221	200	04/23/2017 21:09	WG973085
Naphthalene	U		0.221	1.11	200	04/23/2017 21:09	WG973085
n-Propylbenzene	U		0.0455	0.221	200	04/23/2017 21:09	WG973085
Styrene	U		0.0517	0.221	200	04/23/2017 21:09	WG973085
1,1,1,2-Tetrachloroethane	U		0.0584	0.221	200	04/23/2017 21:09	WG973085
1,1,2,2-Tetrachloroethane	U		0.0807	0.221	200	04/23/2017 21:09	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.0807	0.221	200	04/23/2017 21:09	WG973085
Tetrachloroethene	U		0.0610	0.221	200	04/23/2017 21:09	WG973085
Toluene	U		0.0960	1.11	200	04/23/2017 21:09	WG973085
1,2,3-Trichlorobenzene	U		0.0677	0.221	200	04/23/2017 21:09	WG973085
1,2,4-Trichlorobenzene	U		0.0858	0.221	200	04/23/2017 21:09	WG973085
1,1,1-Trichloroethane	U		0.0632	0.221	200	04/23/2017 21:09	WG973085
1,1,2-Trichloroethane	U		0.0612	0.221	200	04/23/2017 21:09	WG973085
Trichloroethene	U		0.0617	0.221	200	04/23/2017 21:09	WG973085
Trichlorofluoromethane	U		0.0845	1.11	200	04/23/2017 21:09	WG973085
1,2,3-Trichloropropane	U		0.164	0.553	200	04/23/2017 21:09	WG973085
1,2,4-Trimethylbenzene	0.544		0.0467	0.221	200	04/23/2017 21:09	WG973085
1,2,3-Trimethylbenzene	2.64		0.0635	0.221	200	04/23/2017 21:09	WG973085
1,3,5-Trimethylbenzene	2.23		0.0588	0.221	200	04/23/2017 21:09	WG973085
Vinyl chloride	U		0.0643	0.221	200	04/23/2017 21:09	WG973085
Xylenes, Total	0.324	J	0.155	0.663	200	04/23/2017 21:09	WG973085
(S) Toluene-d8	106			80.0-120		04/23/2017 21:09	WG973085
(S) Dibromofluoromethane	95.8			74.0-131		04/23/2017 21:09	WG973085
(S) 4-Bromofluorobenzene	122			64.0-132		04/23/2017 21:09	WG973085

Sample Narrative:

8260B L903712-08 WG973085: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2330		17.0	88.4	20	04/22/2017 17:07	WG972471
(S) o-Terphenyl	1970	J7		18.0-148		04/22/2017 17:07	WG972471

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 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.361	J	0.142	0.730	20	04/25/2017 11:06	WG973349
Acenaphthylene	U		0.148	0.730	20	04/25/2017 11:06	WG973349
Anthracene	0.550	J	0.139	0.730	20	04/25/2017 11:06	WG973349
Benzidine	U		1.40	7.36	20	04/25/2017 11:06	WG973349
Benzo(a)anthracene	0.938		0.0946	0.730	20	04/25/2017 11:06	WG973349
Benzo(b)fluoranthene	1.21		0.154	0.730	20	04/25/2017 11:06	WG973349
Benzo(k)fluoranthene	0.262	J	0.128	0.730	20	04/25/2017 11:06	WG973349
Benzo(g,h,i)perylene	0.526	J	0.159	0.730	20	04/25/2017 11:06	WG973349
Benzo(a)pyrene	1.01		0.122	0.730	20	04/25/2017 11:06	WG973349
Bis(2-chlorethoxy)methane	U		0.170	7.36	20	04/25/2017 11:06	WG973349
Bis(2-chloroethyl)ether	U		0.198	7.36	20	04/25/2017 11:06	WG973349
Bis(2-chloroisopropyl)ether	U		0.168	7.36	20	04/25/2017 11:06	WG973349
4-Bromophenyl-phenylether	U		0.252	7.36	20	04/25/2017 11:06	WG973349
2-Chloronaphthalene	U		0.142	0.730	20	04/25/2017 11:06	WG973349
4-Chlorophenyl-phenylether	U		0.138	7.36	20	04/25/2017 11:06	WG973349
Chrysene	1.06		0.123	0.730	20	04/25/2017 11:06	WG973349
Dibenz(a,h)anthracene	U		0.181	0.730	20	04/25/2017 11:06	WG973349
3,3-Dichlorobenzidine	U		1.76	7.36	20	04/25/2017 11:06	WG973349
2,4-Dinitrotoluene	U		0.134	7.36	20	04/25/2017 11:06	WG973349
2,6-Dinitrotoluene	U		0.163	7.36	20	04/25/2017 11:06	WG973349
Fluoranthene	1.81		0.110	0.730	20	04/25/2017 11:06	WG973349
Fluorene	0.264	J	0.150	0.730	20	04/25/2017 11:06	WG973349
Hexachlorobenzene	U		0.189	7.36	20	04/25/2017 11:06	WG973349
Hexachloro-1,3-butadiene	U		0.221	7.36	20	04/25/2017 11:06	WG973349
Hexachlorocyclopentadiene	U		1.29	7.36	20	04/25/2017 11:06	WG973349
Hexachloroethane	U		0.296	7.36	20	04/25/2017 11:06	WG973349
Indeno(1,2,3-cd)pyrene	0.520	J	0.170	0.730	20	04/25/2017 11:06	WG973349
Isophorone	U		0.115	7.36	20	04/25/2017 11:06	WG973349
Naphthalene	U		0.197	0.730	20	04/25/2017 11:06	WG973349
Nitrobenzene	U		0.154	7.36	20	04/25/2017 11:06	WG973349
n-Nitrosodimethylamine	U		1.43	7.36	20	04/25/2017 11:06	WG973349
n-Nitrosodiphenylamine	U		0.132	7.36	20	04/25/2017 11:06	WG973349
n-Nitrosodi-n-propylamine	U		0.200	7.36	20	04/25/2017 11:06	WG973349
Phenanthrene	1.69		0.117	0.730	20	04/25/2017 11:06	WG973349
Benzylbutyl phthalate	U		0.228	7.36	20	04/25/2017 11:06	WG973349
Bis(2-ethylhexyl)phthalate	U		0.265	7.36	20	04/25/2017 11:06	WG973349
Di-n-butyl phthalate	U		0.241	7.36	20	04/25/2017 11:06	WG973349
Diethyl phthalate	U		0.153	7.36	20	04/25/2017 11:06	WG973349
Dimethyl phthalate	U		0.119	7.36	20	04/25/2017 11:06	WG973349
Di-n-octyl phthalate	U		0.200	7.36	20	04/25/2017 11:06	WG973349
Pyrene	1.81		0.272	0.730	20	04/25/2017 11:06	WG973349
1,2,4-Trichlorobenzene	U		0.193	7.36	20	04/25/2017 11:06	WG973349
4-Chloro-3-methylphenol	U		0.105	7.36	20	04/25/2017 11:06	WG973349
2-Chlorophenol	U		0.184	7.36	20	04/25/2017 11:06	WG973349
2,4-Dichlorophenol	U		0.165	7.36	20	04/25/2017 11:06	WG973349
2,4-Dimethylphenol	U		1.04	7.36	20	04/25/2017 11:06	WG973349
4,6-Dinitro-2-methylphenol	U		2.74	7.36	20	04/25/2017 11:06	WG973349
2,4-Dinitrophenol	U		2.17	7.36	20	04/25/2017 11:06	WG973349
2-Nitrophenol	U		0.287	7.36	20	04/25/2017 11:06	WG973349
4-Nitrophenol	U		1.16	7.36	20	04/25/2017 11:06	WG973349
Pentachlorophenol	U		1.06	7.36	20	04/25/2017 11:06	WG973349
Phenol	U		0.154	7.36	20	04/25/2017 11:06	WG973349
2,4,6-Trichlorophenol	U		0.172	7.36	20	04/25/2017 11:06	WG973349
(S) 2-Fluorophenol	79.6	J7		20.0-120		04/25/2017 11:06	WG973349
(S) Phenol-d5	66.5	J7		20.0-120		04/25/2017 11:06	WG973349
(S) Nitrobenzene-d5	154	J7		18.0-125		04/25/2017 11:06	WG973349

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 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	73.1	J7		28.0-120		04/25/2017 11:06	WG973349
(S) 2,4,6-Tribromophenol	81.7	J7		17.0-137		04/25/2017 11:06	WG973349
(S) p-Terphenyl-d14	74.3	J7		13.0-131		04/25/2017 11:06	WG973349

Sample Narrative:

8270C L903712-08 WG973349: Cannot run at lower dilution due to viscosity of extract

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	1.24		0.00607	0.0433	2	04/21/2017 16:24	WG972271

Metals (ICP) by Method 6010B

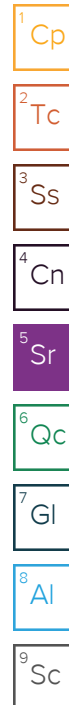
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.68		0.704	2.17	1	04/21/2017 15:24	WG972363
Barium	140		0.184	0.542	1	04/21/2017 15:24	WG972363
Cadmium	0.795		0.0759	0.542	1	04/21/2017 15:24	WG972363
Chromium	17.1		0.152	1.08	1	04/21/2017 15:24	WG972363
Lead	120		0.206	0.542	1	04/21/2017 15:24	WG972363
Selenium	U		0.802	2.17	1	04/21/2017 15:24	WG972363
Silver	U		0.303	1.08	1	04/21/2017 15:24	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0235	0.108	1	04/23/2017 00:41	WG973065
(S) a,a,a-Trifluorotoluene(FID)	92.3			77.0-120		04/23/2017 00:41	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0502	J	0.0108	0.0542	1	04/23/2017 22:31	WG973085
Acrylonitrile	U		0.00194	0.0108	1	04/23/2017 22:31	WG973085
Benzene	U		0.000293	0.00108	1	04/23/2017 22:31	WG973085
Bromobenzene	U		0.000308	0.00108	1	04/23/2017 22:31	WG973085
Bromodichloromethane	U		0.000275	0.00108	1	04/23/2017 22:31	WG973085
Bromoform	U		0.000459	0.00108	1	04/23/2017 22:31	WG973085
Bromomethane	U		0.00145	0.00542	1	04/23/2017 22:31	WG973085
n-Butylbenzene	U		0.000280	0.00108	1	04/23/2017 22:31	WG973085
sec-Butylbenzene	U		0.000218	0.00108	1	04/23/2017 22:31	WG973085
tert-Butylbenzene	U		0.000223	0.00108	1	04/23/2017 22:31	WG973085
Carbon tetrachloride	U		0.000355	0.00108	1	04/23/2017 22:31	WG973085
Chlorobenzene	U		0.000230	0.00108	1	04/23/2017 22:31	WG973085
Chlorodibromomethane	U		0.000404	0.00108	1	04/23/2017 22:31	WG973085
Chloroethane	U		0.00103	0.00542	1	04/23/2017 22:31	WG973085
2-Chloroethyl vinyl ether	U		0.00254	0.0542	1	04/23/2017 22:31	WG973085
Chloroform	U		0.000248	0.00542	1	04/23/2017 22:31	WG973085
Chloromethane	U		0.000406	0.00271	1	04/23/2017 22:31	WG973085
2-Chlorotoluene	U		0.000326	0.00108	1	04/23/2017 22:31	WG973085
4-Chlorotoluene	U		0.000260	0.00108	1	04/23/2017 22:31	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00114	0.00542	1	04/23/2017 22:31	WG973085
1,2-Dibromoethane	U		0.000372	0.00108	1	04/23/2017 22:31	WG973085
Dibromomethane	U		0.000414	0.00108	1	04/23/2017 22:31	WG973085
1,2-Dichlorobenzene	U		0.000331	0.00108	1	04/23/2017 22:31	WG973085
1,3-Dichlorobenzene	U		0.000259	0.00108	1	04/23/2017 22:31	WG973085
1,4-Dichlorobenzene	U		0.000245	0.00108	1	04/23/2017 22:31	WG973085
Dichlorodifluoromethane	U		0.000773	0.00542	1	04/23/2017 22:31	WG973085
1,1-Dichloroethane	U		0.000216	0.00108	1	04/23/2017 22:31	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000287	0.00108	1	04/23/2017 22:31	WG973085
1,1-Dichloroethene	U		0.000328	0.00108	1	04/23/2017 22:31	WG973085
cis-1,2-Dichloroethene	U		0.000255	0.00108	1	04/23/2017 22:31	WG973085
trans-1,2-Dichloroethene	U		0.000286	0.00108	1	04/23/2017 22:31	WG973085
1,2-Dichloropropane	U		0.000388	0.00108	1	04/23/2017 22:31	WG973085
1,1-Dichloropropene	U		0.000344	0.00108	1	04/23/2017 22:31	WG973085
1,3-Dichloropropane	U		0.000224	0.00108	1	04/23/2017 22:31	WG973085
cis-1,3-Dichloropropene	U		0.000284	0.00108	1	04/23/2017 22:31	WG973085
trans-1,3-Dichloropropene	U		0.000289	0.00108	1	04/23/2017 22:31	WG973085
2,2-Dichloropropane	U		0.000302	0.00108	1	04/23/2017 22:31	WG973085
Di-isopropyl ether	U		0.000269	0.00108	1	04/23/2017 22:31	WG973085
Ethylbenzene	U		0.000322	0.00108	1	04/23/2017 22:31	WG973085
Hexachloro-1,3-butadiene	U		0.000371	0.00108	1	04/23/2017 22:31	WG973085
Isopropylbenzene	U		0.000263	0.00108	1	04/23/2017 22:31	WG973085
p-Isopropyltoluene	U		0.000221	0.00108	1	04/23/2017 22:31	WG973085
2-Butanone (MEK)	0.0103	J	0.00507	0.0108	1	04/23/2017 22:31	WG973085
Methylene Chloride	U		0.00108	0.00542	1	04/23/2017 22:31	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00204	0.0108	1	04/23/2017 22:31	WG973085
Methyl tert-butyl ether	0.00405		0.000230	0.00108	1	04/23/2017 22:31	WG973085
Naphthalene	U		0.00108	0.00542	1	04/23/2017 22:31	WG973085
n-Propylbenzene	U		0.000223	0.00108	1	04/23/2017 22:31	WG973085
Styrene	U		0.000254	0.00108	1	04/23/2017 22:31	WG973085
1,1,1,2-Tetrachloroethane	U		0.000286	0.00108	1	04/23/2017 22:31	WG973085
1,1,2,2-Tetrachloroethane	U		0.000396	0.00108	1	04/23/2017 22:31	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000396	0.00108	1	04/23/2017 22:31	WG973085
Tetrachloroethene	U		0.000299	0.00108	1	04/23/2017 22:31	WG973085
Toluene	U		0.000470	0.00542	1	04/23/2017 22:31	WG973085
1,2,3-Trichlorobenzene	U		0.000332	0.00108	1	04/23/2017 22:31	WG973085
1,2,4-Trichlorobenzene	U		0.000420	0.00108	1	04/23/2017 22:31	WG973085
1,1,1-Trichloroethane	U		0.000310	0.00108	1	04/23/2017 22:31	WG973085
1,1,2-Trichloroethane	U		0.000300	0.00108	1	04/23/2017 22:31	WG973085
Trichloroethene	U		0.000302	0.00108	1	04/23/2017 22:31	WG973085
Trichlorofluoromethane	U		0.000414	0.00542	1	04/23/2017 22:31	WG973085
1,2,3-Trichloropropane	U		0.000803	0.00271	1	04/23/2017 22:31	WG973085
1,2,4-Trimethylbenzene	U		0.000229	0.00108	1	04/23/2017 22:31	WG973085
1,2,3-Trimethylbenzene	U		0.000311	0.00108	1	04/23/2017 22:31	WG973085
1,3,5-Trimethylbenzene	U		0.000288	0.00108	1	04/23/2017 22:31	WG973085
Vinyl chloride	U		0.000315	0.00108	1	04/23/2017 22:31	WG973085
Xylenes, Total	U		0.000756	0.00325	1	04/23/2017 22:31	WG973085
(S) Toluene-d8	100			80.0-120		04/23/2017 22:31	WG973085
(S) Dibromofluoromethane	101			74.0-131		04/23/2017 22:31	WG973085
(S) 4-Bromofluorobenzene	90.4			64.0-132		04/23/2017 22:31	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	40.6		0.833	4.33	1	04/22/2017 16:11	WG972471
(S) o-Terphenyl	71.8			18.0-148		04/22/2017 16:11	WG972471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00696	0.0358	1	04/25/2017 05:06	WG973554
Acenaphthylene	U		0.00727	0.0358	1	04/25/2017 05:06	WG973554
Anthracene	U		0.00685	0.0358	1	04/25/2017 05:06	WG973554
Benzidine	U		0.0690	0.361	1	04/25/2017 05:06	WG973554
Benzo(a)anthracene	U		0.00464	0.0358	1	04/25/2017 05:06	WG973554
Benzo(b)fluoranthene	U		0.00753	0.0358	1	04/25/2017 05:06	WG973554
Benzo(k)fluoranthene	U		0.00631	0.0358	1	04/25/2017 05:06	WG973554
Benzo(g,h,i)perylene	U		0.00781	0.0358	1	04/25/2017 05:06	WG973554
Benzo(a)pyrene	U		0.00594	0.0358	1	04/25/2017 05:06	WG973554
Bis(2-chlorethoxy)methane	U		0.00834	0.361	1	04/25/2017 05:06	WG973554
Bis(2-chloroethyl)ether	U		0.00971	0.361	1	04/25/2017 05:06	WG973554
Bis(2-chloroisopropyl)ether	U		0.00824	0.361	1	04/25/2017 05:06	WG973554
4-Bromophenyl-phenylether	U		0.0124	0.361	1	04/25/2017 05:06	WG973554
2-Chloronaphthalene	U		0.00692	0.0358	1	04/25/2017 05:06	WG973554
4-Chlorophenyl-phenylether	U		0.00679	0.361	1	04/25/2017 05:06	WG973554
Chrysene	U		0.00601	0.0358	1	04/25/2017 05:06	WG973554
Dibenz(a,h)anthracene	U		0.00890	0.0358	1	04/25/2017 05:06	WG973554
3,3-Dichlorobenzidine	U		0.0860	0.361	1	04/25/2017 05:06	WG973554
2,4-Dinitrotoluene	U		0.00658	0.361	1	04/25/2017 05:06	WG973554
2,6-Dinitrotoluene	U		0.00799	0.361	1	04/25/2017 05:06	WG973554
Fluoranthene	U		0.00537	0.0358	1	04/25/2017 05:06	WG973554
Fluorene	U		0.00739	0.0358	1	04/25/2017 05:06	WG973554
Hexachlorobenzene	U		0.00928	0.361	1	04/25/2017 05:06	WG973554
Hexachloro-1,3-butadiene	U		0.0108	0.361	1	04/25/2017 05:06	WG973554
Hexachlorocyclopentadiene	U		0.0636	0.361	1	04/25/2017 05:06	WG973554
Hexachloroethane	U		0.0145	0.361	1	04/25/2017 05:06	WG973554
Indeno(1,2,3-cd)pyrene	U		0.00837	0.0358	1	04/25/2017 05:06	WG973554
Isophorone	U		0.00566	0.361	1	04/25/2017 05:06	WG973554
Naphthalene	U		0.00963	0.0358	1	04/25/2017 05:06	WG973554
Nitrobenzene	U		0.00753	0.361	1	04/25/2017 05:06	WG973554
n-Nitrosodimethylamine	U		0.0701	0.361	1	04/25/2017 05:06	WG973554
n-Nitrosodiphenylamine	U		0.00644	0.361	1	04/25/2017 05:06	WG973554
n-Nitrosodi-n-propylamine	U		0.00982	0.361	1	04/25/2017 05:06	WG973554
Phenanthrene	U		0.00572	0.0358	1	04/25/2017 05:06	WG973554
Benzylbutyl phthalate	U		0.0112	0.361	1	04/25/2017 05:06	WG973554
Bis(2-ethylhexyl)phthalate	U		0.0130	0.361	1	04/25/2017 05:06	WG973554
Di-n-butyl phthalate	U		0.0118	0.361	1	04/25/2017 05:06	WG973554
Diethyl phthalate	U		0.00749	0.361	1	04/25/2017 05:06	WG973554
Dimethyl phthalate	U		0.00585	0.361	1	04/25/2017 05:06	WG973554
Di-n-octyl phthalate	U		0.00983	0.361	1	04/25/2017 05:06	WG973554
Pyrene	U		0.0133	0.0358	1	04/25/2017 05:06	WG973554
1,2,4-Trichlorobenzene	U		0.00949	0.361	1	04/25/2017 05:06	WG973554
4-Chloro-3-methylphenol	U		0.00517	0.361	1	04/25/2017 05:06	WG973554
2-Chlorophenol	U		0.00901	0.361	1	04/25/2017 05:06	WG973554
2,4-Dichlorophenol	U		0.00808	0.361	1	04/25/2017 05:06	WG973554
2,4-Dimethylphenol	U		0.0510	0.361	1	04/25/2017 05:06	WG973554
4,6-Dinitro-2-methylphenol	U		0.134	0.361	1	04/25/2017 05:06	WG973554
2,4-Dinitrophenol	U		0.106	0.361	1	04/25/2017 05:06	WG973554
2-Nitrophenol	U		0.0141	0.361	1	04/25/2017 05:06	WG973554
4-Nitrophenol	U		0.0569	0.361	1	04/25/2017 05:06	WG973554
Pentachlorophenol	U		0.0520	0.361	1	04/25/2017 05:06	WG973554
Phenol	U		0.00753	0.361	1	04/25/2017 05:06	WG973554
2,4,6-Trichlorophenol	U		0.00844	0.361	1	04/25/2017 05:06	WG973554
(S) 2-Fluorophenol	67.1			20.0-120		04/25/2017 05:06	WG973554
(S) Phenol-d5	68.8			20.0-120		04/25/2017 05:06	WG973554
(S) Nitrobenzene-d5	64.4			18.0-125		04/25/2017 05:06	WG973554

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 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	72.8			28.0-120		04/25/2017 05:06	WG973554
(S) 2,4,6-Tribromophenol	74.2			17.0-137		04/25/2017 05:06	WG973554
(S) p-Terphenyl-d14	84.0			13.0-131		04/25/2017 05:06	WG973554

¹ Cp

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	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.9		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0581		0.00330	0.0236	1	04/21/2017 14:41	WG972271

Metals (ICP) by Method 6010B

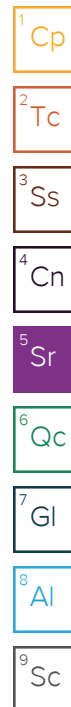
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.36		0.765	2.36	1	04/21/2017 15:27	WG972363
Barium	202		0.200	0.589	1	04/21/2017 15:27	WG972363
Cadmium	0.379	J	0.0824	0.589	1	04/21/2017 15:27	WG972363
Chromium	8.35		0.165	1.18	1	04/21/2017 15:27	WG972363
Lead	87.2		0.224	0.589	1	04/21/2017 15:27	WG972363
Selenium	U		0.871	2.36	1	04/21/2017 15:27	WG972363
Silver	U		0.330	1.18	1	04/21/2017 15:27	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0256	0.118	1	04/23/2017 01:03	WG973065
(S) a,a,a-Trifluorotoluene(FID)	91.8			77.0-120		04/23/2017 01:03	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0118	0.0589	1	04/23/2017 22:52	WG973085
Acrylonitrile	U		0.00211	0.0118	1	04/23/2017 22:52	WG973085
Benzene	U		0.000318	0.00118	1	04/23/2017 22:52	WG973085
Bromobenzene	U		0.000334	0.00118	1	04/23/2017 22:52	WG973085
Bromodichloromethane	U		0.000299	0.00118	1	04/23/2017 22:52	WG973085
Bromoform	U		0.000499	0.00118	1	04/23/2017 22:52	WG973085
Bromomethane	U		0.00158	0.00589	1	04/23/2017 22:52	WG973085
n-Butylbenzene	U		0.000304	0.00118	1	04/23/2017 22:52	WG973085
sec-Butylbenzene	U		0.000237	0.00118	1	04/23/2017 22:52	WG973085
tert-Butylbenzene	U		0.000243	0.00118	1	04/23/2017 22:52	WG973085
Carbon tetrachloride	U		0.000386	0.00118	1	04/23/2017 22:52	WG973085
Chlorobenzene	U		0.000250	0.00118	1	04/23/2017 22:52	WG973085
Chlorodibromomethane	U		0.000439	0.00118	1	04/23/2017 22:52	WG973085
Chloroethane	U		0.00111	0.00589	1	04/23/2017 22:52	WG973085
2-Chloroethyl vinyl ether	U		0.00276	0.0589	1	04/23/2017 22:52	WG973085
Chloroform	U		0.000270	0.00589	1	04/23/2017 22:52	WG973085
Chloromethane	U		0.000442	0.00294	1	04/23/2017 22:52	WG973085
2-Chlorotoluene	U		0.000354	0.00118	1	04/23/2017 22:52	WG973085
4-Chlorotoluene	U		0.000283	0.00118	1	04/23/2017 22:52	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00124	0.00589	1	04/23/2017 22:52	WG973085
1,2-Dibromoethane	U		0.000404	0.00118	1	04/23/2017 22:52	WG973085
Dibromomethane	U		0.000450	0.00118	1	04/23/2017 22:52	WG973085
1,2-Dichlorobenzene	U		0.000359	0.00118	1	04/23/2017 22:52	WG973085
1,3-Dichlorobenzene	U		0.000281	0.00118	1	04/23/2017 22:52	WG973085
1,4-Dichlorobenzene	U		0.000266	0.00118	1	04/23/2017 22:52	WG973085
Dichlorodifluoromethane	U		0.000840	0.00589	1	04/23/2017 22:52	WG973085
1,1-Dichloroethane	U		0.000234	0.00118	1	04/23/2017 22:52	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000312	0.00118	1	04/23/2017 22:52	WG973085
1,1-Dichloroethene	U		0.000357	0.00118	1	04/23/2017 22:52	WG973085
cis-1,2-Dichloroethene	U		0.000277	0.00118	1	04/23/2017 22:52	WG973085
trans-1,2-Dichloroethene	U		0.000311	0.00118	1	04/23/2017 22:52	WG973085
1,2-Dichloropropane	U		0.000422	0.00118	1	04/23/2017 22:52	WG973085
1,1-Dichloropropene	U		0.000373	0.00118	1	04/23/2017 22:52	WG973085
1,3-Dichloropropane	U		0.000244	0.00118	1	04/23/2017 22:52	WG973085
cis-1,3-Dichloropropene	U		0.000309	0.00118	1	04/23/2017 22:52	WG973085
trans-1,3-Dichloropropene	U		0.000314	0.00118	1	04/23/2017 22:52	WG973085
2,2-Dichloropropane	U		0.000329	0.00118	1	04/23/2017 22:52	WG973085
Di-isopropyl ether	U		0.000292	0.00118	1	04/23/2017 22:52	WG973085
Ethylbenzene	U		0.000350	0.00118	1	04/23/2017 22:52	WG973085
Hexachloro-1,3-butadiene	U		0.000403	0.00118	1	04/23/2017 22:52	WG973085
Isopropylbenzene	U		0.000286	0.00118	1	04/23/2017 22:52	WG973085
p-Isopropyltoluene	U		0.000240	0.00118	1	04/23/2017 22:52	WG973085
2-Butanone (MEK)	U		0.00551	0.0118	1	04/23/2017 22:52	WG973085
Methylene Chloride	U		0.00118	0.00589	1	04/23/2017 22:52	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00221	0.0118	1	04/23/2017 22:52	WG973085
Methyl tert-butyl ether	U		0.000250	0.00118	1	04/23/2017 22:52	WG973085
Naphthalene	U		0.00118	0.00589	1	04/23/2017 22:52	WG973085
n-Propylbenzene	U		0.000243	0.00118	1	04/23/2017 22:52	WG973085
Styrene	U		0.000276	0.00118	1	04/23/2017 22:52	WG973085
1,1,1,2-Tetrachloroethane	U		0.000311	0.00118	1	04/23/2017 22:52	WG973085
1,1,2,2-Tetrachloroethane	U		0.000430	0.00118	1	04/23/2017 22:52	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000430	0.00118	1	04/23/2017 22:52	WG973085
Tetrachloroethene	U		0.000325	0.00118	1	04/23/2017 22:52	WG973085
Toluene	U		0.000511	0.00589	1	04/23/2017 22:52	WG973085
1,2,3-Trichlorobenzene	U		0.000360	0.00118	1	04/23/2017 22:52	WG973085
1,2,4-Trichlorobenzene	U		0.000457	0.00118	1	04/23/2017 22:52	WG973085
1,1,1-Trichloroethane	U		0.000337	0.00118	1	04/23/2017 22:52	WG973085
1,1,2-Trichloroethane	U		0.000326	0.00118	1	04/23/2017 22:52	WG973085
Trichloroethene	U		0.000329	0.00118	1	04/23/2017 22:52	WG973085
Trichlorofluoromethane	U		0.000450	0.00589	1	04/23/2017 22:52	WG973085
1,2,3-Trichloropropane	U		0.000873	0.00294	1	04/23/2017 22:52	WG973085
1,2,4-Trimethylbenzene	U		0.000248	0.00118	1	04/23/2017 22:52	WG973085
1,2,3-Trimethylbenzene	U		0.000338	0.00118	1	04/23/2017 22:52	WG973085
1,3,5-Trimethylbenzene	U		0.000313	0.00118	1	04/23/2017 22:52	WG973085
Vinyl chloride	U		0.000343	0.00118	1	04/23/2017 22:52	WG973085
Xylenes, Total	U		0.000822	0.00353	1	04/23/2017 22:52	WG973085
(S) Toluene-d8	100			80.0-120		04/23/2017 22:52	WG973085
(S) Dibromofluoromethane	101			74.0-131		04/23/2017 22:52	WG973085
(S) 4-Bromofluorobenzene	73.5			64.0-132		04/23/2017 22:52	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	57.4	J	18.1	94.2	20	04/22/2017 16:56	WG972471
(S) o-Terphenyl	60.0	J7		18.0-148		04/22/2017 16:56	WG972471

Sample Narrative:

8015 L903712-10 WG972471: Cannot run at lower dilution due to viscosity of extract



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.151	0.777	20	04/25/2017 12:21	WG973349
Acenaphthylene	U		0.158	0.777	20	04/25/2017 12:21	WG973349
Anthracene	U		0.148	0.777	20	04/25/2017 12:21	WG973349
Benzidine	U		1.50	7.84	20	04/25/2017 12:21	WG973349
Benzo(a)anthracene	U		0.101	0.777	20	04/25/2017 12:21	WG973349
Benzo(b)fluoranthene	U		0.164	0.777	20	04/25/2017 12:21	WG973349
Benzo(k)fluoranthene	U		0.137	0.777	20	04/25/2017 12:21	WG973349
Benzo(g,h,i)perylene	U		0.170	0.777	20	04/25/2017 12:21	WG973349
Benzo(a)pyrene	U		0.130	0.777	20	04/25/2017 12:21	WG973349
Bis(2-chlorethoxy)methane	U		0.181	7.84	20	04/25/2017 12:21	WG973349
Bis(2-chloroethyl)ether	U		0.211	7.84	20	04/25/2017 12:21	WG973349
Bis(2-chloroisopropyl)ether	U		0.179	7.84	20	04/25/2017 12:21	WG973349
4-Bromophenyl-phenylether	U		0.268	7.84	20	04/25/2017 12:21	WG973349
2-Chloronaphthalene	U		0.151	0.777	20	04/25/2017 12:21	WG973349
4-Chlorophenyl-phenylether	U		0.147	7.84	20	04/25/2017 12:21	WG973349
Chrysene	U		0.131	0.777	20	04/25/2017 12:21	WG973349
Dibenz(a,h)anthracene	U		0.193	0.777	20	04/25/2017 12:21	WG973349
3,3-Dichlorobenzidine	U		1.87	7.84	20	04/25/2017 12:21	WG973349
2,4-Dinitrotoluene	U		0.142	7.84	20	04/25/2017 12:21	WG973349
2,6-Dinitrotoluene	U		0.173	7.84	20	04/25/2017 12:21	WG973349
Fluoranthene	U		0.117	0.777	20	04/25/2017 12:21	WG973349
Fluorene	U		0.160	0.777	20	04/25/2017 12:21	WG973349
Hexachlorobenzene	U		0.201	7.84	20	04/25/2017 12:21	WG973349
Hexachloro-1,3-butadiene	U		0.236	7.84	20	04/25/2017 12:21	WG973349
Hexachlorocyclopentadiene	U		1.38	7.84	20	04/25/2017 12:21	WG973349
Hexachloroethane	U		0.316	7.84	20	04/25/2017 12:21	WG973349
Indeno(1,2,3-cd)pyrene	U		0.181	0.777	20	04/25/2017 12:21	WG973349
Isophorone	U		0.122	7.84	20	04/25/2017 12:21	WG973349
Naphthalene	U		0.210	0.777	20	04/25/2017 12:21	WG973349
Nitrobenzene	U		0.164	7.84	20	04/25/2017 12:21	WG973349
n-Nitrosodimethylamine	U		1.52	7.84	20	04/25/2017 12:21	WG973349
n-Nitrosodiphenylamine	U		0.140	7.84	20	04/25/2017 12:21	WG973349
n-Nitrosodi-n-propylamine	U		0.213	7.84	20	04/25/2017 12:21	WG973349
Phenanthrene	U		0.125	0.777	20	04/25/2017 12:21	WG973349
Benzylbutyl phthalate	U		0.243	7.84	20	04/25/2017 12:21	WG973349
Bis(2-ethylhexyl)phthalate	U		0.283	7.84	20	04/25/2017 12:21	WG973349
Di-n-butyl phthalate	U		0.257	7.84	20	04/25/2017 12:21	WG973349
Diethyl phthalate	U		0.163	7.84	20	04/25/2017 12:21	WG973349
Dimethyl phthalate	U		0.127	7.84	20	04/25/2017 12:21	WG973349
Di-n-octyl phthalate	U		0.213	7.84	20	04/25/2017 12:21	WG973349
Pyrene	U		0.290	0.777	20	04/25/2017 12:21	WG973349
1,2,4-Trichlorobenzene	U		0.206	7.84	20	04/25/2017 12:21	WG973349
4-Chloro-3-methylphenol	U		0.112	7.84	20	04/25/2017 12:21	WG973349
2-Chlorophenol	U		0.195	7.84	20	04/25/2017 12:21	WG973349
2,4-Dichlorophenol	U		0.175	7.84	20	04/25/2017 12:21	WG973349
2,4-Dimethylphenol	U		1.11	7.84	20	04/25/2017 12:21	WG973349
4,6-Dinitro-2-methylphenol	U		2.92	7.84	20	04/25/2017 12:21	WG973349
2,4-Dinitrophenol	U		2.31	7.84	20	04/25/2017 12:21	WG973349
2-Nitrophenol	U		0.306	7.84	20	04/25/2017 12:21	WG973349
4-Nitrophenol	U		1.24	7.84	20	04/25/2017 12:21	WG973349
Pentachlorophenol	U		1.13	7.84	20	04/25/2017 12:21	WG973349
Phenol	U		0.164	7.84	20	04/25/2017 12:21	WG973349
2,4,6-Trichlorophenol	U		0.184	7.84	20	04/25/2017 12:21	WG973349
(S) 2-Fluorophenol	44.8	J7		20.0-120		04/25/2017 12:21	WG973349
(S) Phenol-d5	53.5	J7		20.0-120		04/25/2017 12:21	WG973349
(S) Nitrobenzene-d5	63.7	J7		18.0-125		04/25/2017 12:21	WG973349

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 13:45

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	64.3	J7		28.0-120		04/25/2017 12:21	WG973349
(S) 2,4,6-Tribromophenol	71.7	J7		17.0-137		04/25/2017 12:21	WG973349
(S) p-Terphenyl-d14	64.8	J7		13.0-131		04/25/2017 12:21	WG973349

Sample Narrative:

8270C L903712-10 WG973349: Cannot run at lower dilution due to viscosity of extract

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.4		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.507		0.00332	0.0237	1	04/21/2017 14:44	WG972271

Metals (ICP) by Method 6010B

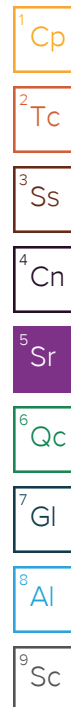
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.60		0.770	2.37	1	04/21/2017 15:29	WG972363
Barium	152		0.201	0.592	1	04/21/2017 15:29	WG972363
Cadmium	0.422	J	0.0829	0.592	1	04/21/2017 15:29	WG972363
Chromium	9.22		0.166	1.18	1	04/21/2017 15:29	WG972363
Lead	176		0.225	0.592	1	04/21/2017 15:29	WG972363
Selenium	U		0.876	2.37	1	04/21/2017 15:29	WG972363
Silver	U		0.332	1.18	1	04/21/2017 15:29	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0257	0.118	1	04/23/2017 01:25	WG973065
(S) a,a,a-Trifluorotoluene(FID)	91.7			77.0-120		04/23/2017 01:25	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0228	J	0.0118	0.0592	1	04/23/2017 23:13	WG973085
Acrylonitrile	U		0.00212	0.0118	1	04/23/2017 23:13	WG973085
Benzene	U		0.000320	0.00118	1	04/23/2017 23:13	WG973085
Bromobenzene	U		0.000336	0.00118	1	04/23/2017 23:13	WG973085
Bromodichloromethane	U		0.000301	0.00118	1	04/23/2017 23:13	WG973085
Bromoform	U		0.000502	0.00118	1	04/23/2017 23:13	WG973085
Bromomethane	U		0.00159	0.00592	1	04/23/2017 23:13	WG973085
n-Butylbenzene	U		0.000306	0.00118	1	04/23/2017 23:13	WG973085
sec-Butylbenzene	U		0.000238	0.00118	1	04/23/2017 23:13	WG973085
tert-Butylbenzene	U		0.000244	0.00118	1	04/23/2017 23:13	WG973085
Carbon tetrachloride	U		0.000388	0.00118	1	04/23/2017 23:13	WG973085
Chlorobenzene	U		0.000251	0.00118	1	04/23/2017 23:13	WG973085
Chlorodibromomethane	U		0.000442	0.00118	1	04/23/2017 23:13	WG973085
Chloroethane	U		0.00112	0.00592	1	04/23/2017 23:13	WG973085
2-Chloroethyl vinyl ether	U		0.00277	0.0592	1	04/23/2017 23:13	WG973085
Chloroform	U		0.000271	0.00592	1	04/23/2017 23:13	WG973085
Chloromethane	U		0.000444	0.00296	1	04/23/2017 23:13	WG973085
2-Chlorotoluene	U		0.000356	0.00118	1	04/23/2017 23:13	WG973085
4-Chlorotoluene	U		0.000284	0.00118	1	04/23/2017 23:13	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00124	0.00592	1	04/23/2017 23:13	WG973085
1,2-Dibromoethane	U		0.000406	0.00118	1	04/23/2017 23:13	WG973085
Dibromomethane	U		0.000452	0.00118	1	04/23/2017 23:13	WG973085
1,2-Dichlorobenzene	U		0.000361	0.00118	1	04/23/2017 23:13	WG973085
1,3-Dichlorobenzene	U		0.000283	0.00118	1	04/23/2017 23:13	WG973085
1,4-Dichlorobenzene	U		0.000268	0.00118	1	04/23/2017 23:13	WG973085
Dichlorodifluoromethane	U		0.000844	0.00592	1	04/23/2017 23:13	WG973085
1,1-Dichloroethane	U		0.000236	0.00118	1	04/23/2017 23:13	WG973085





Collected date/time: 04/19/17 13:45

L903712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000314	0.00118	1	04/23/2017 23:13	WG973085
1,1-Dichloroethene	U		0.000359	0.00118	1	04/23/2017 23:13	WG973085
cis-1,2-Dichloroethene	U		0.000278	0.00118	1	04/23/2017 23:13	WG973085
trans-1,2-Dichloroethene	U		0.000313	0.00118	1	04/23/2017 23:13	WG973085
1,2-Dichloropropane	U		0.000424	0.00118	1	04/23/2017 23:13	WG973085
1,1-Dichloropropene	U		0.000375	0.00118	1	04/23/2017 23:13	WG973085
1,3-Dichloropropane	U		0.000245	0.00118	1	04/23/2017 23:13	WG973085
cis-1,3-Dichloropropene	U		0.000310	0.00118	1	04/23/2017 23:13	WG973085
trans-1,3-Dichloropropene	U		0.000316	0.00118	1	04/23/2017 23:13	WG973085
2,2-Dichloropropane	U		0.000330	0.00118	1	04/23/2017 23:13	WG973085
Di-isopropyl ether	U		0.000294	0.00118	1	04/23/2017 23:13	WG973085
Ethylbenzene	U		0.000352	0.00118	1	04/23/2017 23:13	WG973085
Hexachloro-1,3-butadiene	U		0.000405	0.00118	1	04/23/2017 23:13	WG973085
Isopropylbenzene	U		0.000288	0.00118	1	04/23/2017 23:13	WG973085
p-Isopropyltoluene	U		0.000242	0.00118	1	04/23/2017 23:13	WG973085
2-Butanone (MEK)	U		0.00554	0.0118	1	04/23/2017 23:13	WG973085
Methylene Chloride	U		0.00118	0.00592	1	04/23/2017 23:13	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00223	0.0118	1	04/23/2017 23:13	WG973085
Methyl tert-butyl ether	U		0.000251	0.00118	1	04/23/2017 23:13	WG973085
Naphthalene	U		0.00118	0.00592	1	04/23/2017 23:13	WG973085
n-Propylbenzene	U		0.000244	0.00118	1	04/23/2017 23:13	WG973085
Styrene	U		0.000277	0.00118	1	04/23/2017 23:13	WG973085
1,1,1,2-Tetrachloroethane	U		0.000313	0.00118	1	04/23/2017 23:13	WG973085
1,1,2,2-Tetrachloroethane	U		0.000432	0.00118	1	04/23/2017 23:13	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000432	0.00118	1	04/23/2017 23:13	WG973085
Tetrachloroethene	U		0.000327	0.00118	1	04/23/2017 23:13	WG973085
Toluene	U		0.000514	0.00592	1	04/23/2017 23:13	WG973085
1,2,3-Trichlorobenzene	U		0.000362	0.00118	1	04/23/2017 23:13	WG973085
1,2,4-Trichlorobenzene	U		0.000460	0.00118	1	04/23/2017 23:13	WG973085
1,1,1-Trichloroethane	U		0.000339	0.00118	1	04/23/2017 23:13	WG973085
1,1,2-Trichloroethane	U		0.000328	0.00118	1	04/23/2017 23:13	WG973085
Trichloroethene	U		0.000330	0.00118	1	04/23/2017 23:13	WG973085
Trichlorofluoromethane	U		0.000452	0.00592	1	04/23/2017 23:13	WG973085
1,2,3-Trichloropropane	U		0.000878	0.00296	1	04/23/2017 23:13	WG973085
1,2,4-Trimethylbenzene	U		0.000250	0.00118	1	04/23/2017 23:13	WG973085
1,2,3-Trimethylbenzene	U		0.000340	0.00118	1	04/23/2017 23:13	WG973085
1,3,5-Trimethylbenzene	U		0.000315	0.00118	1	04/23/2017 23:13	WG973085
Vinyl chloride	U		0.000345	0.00118	1	04/23/2017 23:13	WG973085
Xylenes, Total	U		0.000827	0.00355	1	04/23/2017 23:13	WG973085
(S) Toluene-d8	101			80.0-120		04/23/2017 23:13	WG973085
(S) Dibromofluoromethane	103			74.0-131		04/23/2017 23:13	WG973085
(S) 4-Bromofluorobenzene	80.5			64.0-132		04/23/2017 23:13	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	10.5		0.911	4.74	1	04/22/2017 16:23	WG972471
(S) o-Terphenyl	72.9			18.0-148		04/22/2017 16:23	WG972471



Collected date/time: 04/19/17 13:45

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0128	U	0.00760	0.0391	1	04/25/2017 10:41	WG973349
Acenaphthylene	U		0.00795	0.0391	1	04/25/2017 10:41	WG973349
Anthracene	0.0305	U	0.00748	0.0391	1	04/25/2017 10:41	WG973349
Benzidine	U		0.0754	0.394	1	04/25/2017 10:41	WG973349
Benzo(a)anthracene	0.0530		0.00507	0.0391	1	04/25/2017 10:41	WG973349
Benzo(b)fluoranthene	0.0530		0.00823	0.0391	1	04/25/2017 10:41	WG973349
Benzo(k)fluoranthene	0.0196	U	0.00689	0.0391	1	04/25/2017 10:41	WG973349
Benzo(g,h,i)perylene	0.0251	U	0.00854	0.0391	1	04/25/2017 10:41	WG973349
Benzo(a)pyrene	0.0445		0.00649	0.0391	1	04/25/2017 10:41	WG973349
Bis(2-chlorethoxy)methane	U		0.00912	0.394	1	04/25/2017 10:41	WG973349
Bis(2-chloroethyl)ether	U		0.0106	0.394	1	04/25/2017 10:41	WG973349
Bis(2-chloroisopropyl)ether	U		0.00900	0.394	1	04/25/2017 10:41	WG973349
4-Bromophenyl-phenylether	U		0.0135	0.394	1	04/25/2017 10:41	WG973349
2-Chloronaphthalene	U		0.00757	0.0391	1	04/25/2017 10:41	WG973349
4-Chlorophenyl-phenylether	U		0.00743	0.394	1	04/25/2017 10:41	WG973349
Chrysene	0.0640		0.00657	0.0391	1	04/25/2017 10:41	WG973349
Dibenz(a,h)anthracene	U		0.00972	0.0391	1	04/25/2017 10:41	WG973349
3,3-Dichlorobenzidine	U		0.0940	0.394	1	04/25/2017 10:41	WG973349
2,4-Dinitrotoluene	U		0.00719	0.394	1	04/25/2017 10:41	WG973349
2,6-Dinitrotoluene	U		0.00873	0.394	1	04/25/2017 10:41	WG973349
Fluoranthene	0.0998		0.00587	0.0391	1	04/25/2017 10:41	WG973349
Fluorene	0.0149	U	0.00808	0.0391	1	04/25/2017 10:41	WG973349
Hexachlorobenzene	U		0.0101	0.394	1	04/25/2017 10:41	WG973349
Hexachloro-1,3-butadiene	U		0.0118	0.394	1	04/25/2017 10:41	WG973349
Hexachlorocyclopentadiene	U		0.0695	0.394	1	04/25/2017 10:41	WG973349
Hexachloroethane	U		0.0159	0.394	1	04/25/2017 10:41	WG973349
Indeno(1,2,3-cd)pyrene	0.0176	U	0.00914	0.0391	1	04/25/2017 10:41	WG973349
Isophorone	U		0.00618	0.394	1	04/25/2017 10:41	WG973349
Naphthalene	0.0694		0.0105	0.0391	1	04/25/2017 10:41	WG973349
Nitrobenzene	U		0.00823	0.394	1	04/25/2017 10:41	WG973349
n-Nitrosodimethylamine	U		0.0766	0.394	1	04/25/2017 10:41	WG973349
n-Nitrosodiphenylamine	U		0.00703	0.394	1	04/25/2017 10:41	WG973349
n-Nitrosodi-n-propylamine	U		0.0107	0.394	1	04/25/2017 10:41	WG973349
Phenanthrene	0.0936		0.00625	0.0391	1	04/25/2017 10:41	WG973349
Benzylbutyl phthalate	U		0.0122	0.394	1	04/25/2017 10:41	WG973349
Bis(2-ethylhexyl)phthalate	U		0.0142	0.394	1	04/25/2017 10:41	WG973349
Di-n-butyl phthalate	U		0.0129	0.394	1	04/25/2017 10:41	WG973349
Diethyl phthalate	U		0.00818	0.394	1	04/25/2017 10:41	WG973349
Dimethyl phthalate	U		0.00640	0.394	1	04/25/2017 10:41	WG973349
Di-n-octyl phthalate	U		0.0107	0.394	1	04/25/2017 10:41	WG973349
Pyrene	0.0856		0.0146	0.0391	1	04/25/2017 10:41	WG973349
1,2,4-Trichlorobenzene	U		0.0104	0.394	1	04/25/2017 10:41	WG973349
4-Chloro-3-methylphenol	U		0.00565	0.394	1	04/25/2017 10:41	WG973349
2-Chlorophenol	U		0.00984	0.394	1	04/25/2017 10:41	WG973349
2,4-Dichlorophenol	U		0.00884	0.394	1	04/25/2017 10:41	WG973349
2,4-Dimethylphenol	U		0.0558	0.394	1	04/25/2017 10:41	WG973349
4,6-Dinitro-2-methylphenol	U		0.147	0.394	1	04/25/2017 10:41	WG973349
2,4-Dinitrophenol	U		0.116	0.394	1	04/25/2017 10:41	WG973349
2-Nitrophenol	U		0.0154	0.394	1	04/25/2017 10:41	WG973349
4-Nitrophenol	U		0.0622	0.394	1	04/25/2017 10:41	WG973349
Pentachlorophenol	U		0.0568	0.394	1	04/25/2017 10:41	WG973349
Phenol	U		0.00823	0.394	1	04/25/2017 10:41	WG973349
2,4,6-Trichlorophenol	U		0.00923	0.394	1	04/25/2017 10:41	WG973349
(S) 2-Fluorophenol	49.9			20.0-120		04/25/2017 10:41	WG973349
(S) Phenol-d5	48.3			20.0-120		04/25/2017 10:41	WG973349
(S) Nitrobenzene-d5	67.4			18.0-125		04/25/2017 10:41	WG973349

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 13:45

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	63.3			28.0-120		04/25/2017 10:41	WG973349
(S) 2,4,6-Tribromophenol	77.0			17.0-137		04/25/2017 10:41	WG973349
(S) p-Terphenyl-d14	38.8			13.0-131		04/25/2017 10:41	WG973349

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.120		0.00317	0.0226	1	04/21/2017 14:46	WG972271

Metals (ICP) by Method 6010B

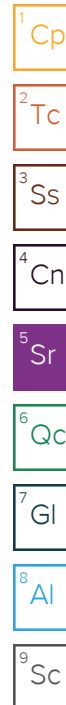
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	3.35		0.735	2.26	1	04/21/2017 15:32	WG972363
Barium	72.0		0.192	0.565	1	04/21/2017 15:32	WG972363
Cadmium	0.325	J	0.0792	0.565	1	04/21/2017 15:32	WG972363
Chromium	8.26		0.158	1.13	1	04/21/2017 15:32	WG972363
Lead	42.8		0.215	0.565	1	04/21/2017 15:32	WG972363
Selenium	U		0.837	2.26	1	04/21/2017 15:32	WG972363
Silver	U		0.317	1.13	1	04/21/2017 15:32	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0245	0.113	1	04/23/2017 01:48	WG973065
(S) a,a,a-Trifluorotoluene(FID)	88.0			77.0-120		04/23/2017 01:48	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	0.0143	J	0.0113	0.0565	1	04/23/2017 23:33	WG973085
Acrylonitrile	U		0.00202	0.0113	1	04/23/2017 23:33	WG973085
Benzene	0.00219		0.000305	0.00113	1	04/23/2017 23:33	WG973085
Bromobenzene	U		0.000321	0.00113	1	04/23/2017 23:33	WG973085
Bromodichloromethane	U		0.000287	0.00113	1	04/23/2017 23:33	WG973085
Bromoform	U		0.000479	0.00113	1	04/23/2017 23:33	WG973085
Bromomethane	U		0.00152	0.00565	1	04/23/2017 23:33	WG973085
n-Butylbenzene	U		0.000292	0.00113	1	04/23/2017 23:33	WG973085
sec-Butylbenzene	U		0.000227	0.00113	1	04/23/2017 23:33	WG973085
tert-Butylbenzene	U		0.000233	0.00113	1	04/23/2017 23:33	WG973085
Carbon tetrachloride	U		0.000371	0.00113	1	04/23/2017 23:33	WG973085
Chlorobenzene	U		0.000240	0.00113	1	04/23/2017 23:33	WG973085
Chlorodibromomethane	U		0.000422	0.00113	1	04/23/2017 23:33	WG973085
Chloroethane	U		0.00107	0.00565	1	04/23/2017 23:33	WG973085
2-Chloroethyl vinyl ether	U		0.00265	0.0565	1	04/23/2017 23:33	WG973085
Chloroform	U		0.000259	0.00565	1	04/23/2017 23:33	WG973085
Chloromethane	U		0.000424	0.00283	1	04/23/2017 23:33	WG973085
2-Chlorotoluene	U		0.000340	0.00113	1	04/23/2017 23:33	WG973085
4-Chlorotoluene	U		0.000271	0.00113	1	04/23/2017 23:33	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00119	0.00565	1	04/23/2017 23:33	WG973085
1,2-Dibromoethane	U		0.000388	0.00113	1	04/23/2017 23:33	WG973085
Dibromomethane	U		0.000432	0.00113	1	04/23/2017 23:33	WG973085
1,2-Dichlorobenzene	U		0.000345	0.00113	1	04/23/2017 23:33	WG973085
1,3-Dichlorobenzene	U		0.000270	0.00113	1	04/23/2017 23:33	WG973085
1,4-Dichlorobenzene	U		0.000256	0.00113	1	04/23/2017 23:33	WG973085
Dichlorodifluoromethane	U		0.000806	0.00565	1	04/23/2017 23:33	WG973085
1,1-Dichloroethane	U		0.000225	0.00113	1	04/23/2017 23:33	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000300	0.00113	1	04/23/2017 23:33	WG973085
1,1-Dichloroethene	U		0.000343	0.00113	1	04/23/2017 23:33	WG973085
cis-1,2-Dichloroethene	U		0.000266	0.00113	1	04/23/2017 23:33	WG973085
trans-1,2-Dichloroethene	U		0.000299	0.00113	1	04/23/2017 23:33	WG973085
1,2-Dichloropropane	U		0.000405	0.00113	1	04/23/2017 23:33	WG973085
1,1-Dichloropropene	U		0.000358	0.00113	1	04/23/2017 23:33	WG973085
1,3-Dichloropropane	U		0.000234	0.00113	1	04/23/2017 23:33	WG973085
cis-1,3-Dichloropropene	U		0.000296	0.00113	1	04/23/2017 23:33	WG973085
trans-1,3-Dichloropropene	U		0.000302	0.00113	1	04/23/2017 23:33	WG973085
2,2-Dichloropropane	U		0.000316	0.00113	1	04/23/2017 23:33	WG973085
Di-isopropyl ether	U		0.000280	0.00113	1	04/23/2017 23:33	WG973085
Ethylbenzene	U		0.000336	0.00113	1	04/23/2017 23:33	WG973085
Hexachloro-1,3-butadiene	U		0.000387	0.00113	1	04/23/2017 23:33	WG973085
Isopropylbenzene	U		0.000275	0.00113	1	04/23/2017 23:33	WG973085
p-Isopropyltoluene	U		0.000231	0.00113	1	04/23/2017 23:33	WG973085
2-Butanone (MEK)	U		0.00529	0.0113	1	04/23/2017 23:33	WG973085
Methylene Chloride	U		0.00113	0.00565	1	04/23/2017 23:33	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00213	0.0113	1	04/23/2017 23:33	WG973085
Methyl tert-butyl ether	U		0.000240	0.00113	1	04/23/2017 23:33	WG973085
Naphthalene	U		0.00113	0.00565	1	04/23/2017 23:33	WG973085
n-Propylbenzene	U		0.000233	0.00113	1	04/23/2017 23:33	WG973085
Styrene	U		0.000265	0.00113	1	04/23/2017 23:33	WG973085
1,1,1,2-Tetrachloroethane	U		0.000299	0.00113	1	04/23/2017 23:33	WG973085
1,1,2,2-Tetrachloroethane	U		0.000413	0.00113	1	04/23/2017 23:33	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000413	0.00113	1	04/23/2017 23:33	WG973085
Tetrachloroethene	U		0.000312	0.00113	1	04/23/2017 23:33	WG973085
Toluene	0.00291	J	0.000491	0.00565	1	04/23/2017 23:33	WG973085
1,2,3-Trichlorobenzene	U		0.000346	0.00113	1	04/23/2017 23:33	WG973085
1,2,4-Trichlorobenzene	U		0.000439	0.00113	1	04/23/2017 23:33	WG973085
1,1,1-Trichloroethane	U		0.000323	0.00113	1	04/23/2017 23:33	WG973085
1,1,2-Trichloroethane	U		0.000313	0.00113	1	04/23/2017 23:33	WG973085
Trichloroethene	U		0.000316	0.00113	1	04/23/2017 23:33	WG973085
Trichlorofluoromethane	U		0.000432	0.00565	1	04/23/2017 23:33	WG973085
1,2,3-Trichloropropane	U		0.000838	0.00283	1	04/23/2017 23:33	WG973085
1,2,4-Trimethylbenzene	U		0.000239	0.00113	1	04/23/2017 23:33	WG973085
1,2,3-Trimethylbenzene	U		0.000325	0.00113	1	04/23/2017 23:33	WG973085
1,3,5-Trimethylbenzene	U		0.000301	0.00113	1	04/23/2017 23:33	WG973085
Vinyl chloride	U		0.000329	0.00113	1	04/23/2017 23:33	WG973085
Xylenes, Total	U		0.000789	0.00339	1	04/23/2017 23:33	WG973085
(S) Toluene-d8	96.0			80.0-120		04/23/2017 23:33	WG973085
(S) Dibromofluoromethane	106			74.0-131		04/23/2017 23:33	WG973085
(S) 4-Bromofluorobenzene	64.3			64.0-132		04/23/2017 23:33	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	190	J	87.0	452	100	04/22/2017 17:52	WG972471
(S) o-Terphenyl	25.0	J7		18.0-148		04/22/2017 17:52	WG972471

Sample Narrative:

8015 L903712-12 WG972471: Cannot run at lower dilution due to viscosity of extract



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.726	3.73	100	04/25/2017 11:22	WG973349
Acenaphthylene	U		0.759	3.73	100	04/25/2017 11:22	WG973349
Anthracene	U		0.715	3.73	100	04/25/2017 11:22	WG973349
Benzidine	U		7.20	37.7	100	04/25/2017 11:22	WG973349
Benzo(a)anthracene	U		0.484	3.73	100	04/25/2017 11:22	WG973349
Benzo(b)fluoranthene	U		0.786	3.73	100	04/25/2017 11:22	WG973349
Benzo(k)fluoranthene	U		0.658	3.73	100	04/25/2017 11:22	WG973349
Benzo(g,h,i)perylene	U		0.815	3.73	100	04/25/2017 11:22	WG973349
Benzo(a)pyrene	U		0.620	3.73	100	04/25/2017 11:22	WG973349
Bis(2-chlorethoxy)methane	U		0.871	37.7	100	04/25/2017 11:22	WG973349
Bis(2-chloroethyl)ether	U		1.01	37.7	100	04/25/2017 11:22	WG973349
Bis(2-chloroisopropyl)ether	U		0.859	37.7	100	04/25/2017 11:22	WG973349
4-Bromophenyl-phenylether	U		1.29	37.7	100	04/25/2017 11:22	WG973349
2-Chloronaphthalene	U		0.723	3.73	100	04/25/2017 11:22	WG973349
4-Chlorophenyl-phenylether	U		0.709	37.7	100	04/25/2017 11:22	WG973349
Chrysene	U		0.628	3.73	100	04/25/2017 11:22	WG973349
Dibenz(a,h)anthracene	U		0.928	3.73	100	04/25/2017 11:22	WG973349
3,3-Dichlorobenzidine	U		8.98	37.7	100	04/25/2017 11:22	WG973349
2,4-Dinitrotoluene	U		0.686	37.7	100	04/25/2017 11:22	WG973349
2,6-Dinitrotoluene	U		0.833	37.7	100	04/25/2017 11:22	WG973349
Fluoranthene	U		0.561	3.73	100	04/25/2017 11:22	WG973349
Fluorene	U		0.771	3.73	100	04/25/2017 11:22	WG973349
Hexachlorobenzene	U		0.968	37.7	100	04/25/2017 11:22	WG973349
Hexachloro-1,3-butadiene	U		1.13	37.7	100	04/25/2017 11:22	WG973349
Hexachlorocyclopentadiene	U		6.64	37.7	100	04/25/2017 11:22	WG973349
Hexachloroethane	U		1.52	37.7	100	04/25/2017 11:22	WG973349
Indeno(1,2,3-cd)pyrene	U		0.873	3.73	100	04/25/2017 11:22	WG973349
Isophorone	U		0.590	37.7	100	04/25/2017 11:22	WG973349
Naphthalene	U		1.01	3.73	100	04/25/2017 11:22	WG973349
Nitrobenzene	U		0.786	37.7	100	04/25/2017 11:22	WG973349
n-Nitrosodimethylamine	U		7.32	37.7	100	04/25/2017 11:22	WG973349
n-Nitrosodiphenylamine	U		0.672	37.7	100	04/25/2017 11:22	WG973349
n-Nitrosodi-n-propylamine	U		1.02	37.7	100	04/25/2017 11:22	WG973349
Phenanthrene	U		0.597	3.73	100	04/25/2017 11:22	WG973349
Benzylbutyl phthalate	U		1.16	37.7	100	04/25/2017 11:22	WG973349
Bis(2-ethylhexyl)phthalate	U		1.36	37.7	100	04/25/2017 11:22	WG973349
Di-n-butyl phthalate	U		1.23	37.7	100	04/25/2017 11:22	WG973349
Diethyl phthalate	U		0.781	37.7	100	04/25/2017 11:22	WG973349
Dimethyl phthalate	U		0.611	37.7	100	04/25/2017 11:22	WG973349
Di-n-octyl phthalate	U		1.03	37.7	100	04/25/2017 11:22	WG973349
Pyrene	U		1.39	3.73	100	04/25/2017 11:22	WG973349
1,2,4-Trichlorobenzene	U		0.991	37.7	100	04/25/2017 11:22	WG973349
4-Chloro-3-methylphenol	U		0.539	37.7	100	04/25/2017 11:22	WG973349
2-Chlorophenol	U		0.940	37.7	100	04/25/2017 11:22	WG973349
2,4-Dichlorophenol	U		0.844	37.7	100	04/25/2017 11:22	WG973349
2,4-Dimethylphenol	U		5.33	37.7	100	04/25/2017 11:22	WG973349
4,6-Dinitro-2-methylphenol	U		14.0	37.7	100	04/25/2017 11:22	WG973349
2,4-Dinitrophenol	U		11.1	37.7	100	04/25/2017 11:22	WG973349
2-Nitrophenol	U		1.47	37.7	100	04/25/2017 11:22	WG973349
4-Nitrophenol	U		5.94	37.7	100	04/25/2017 11:22	WG973349
Pentachlorophenol	U		5.43	37.7	100	04/25/2017 11:22	WG973349
Phenol	U		0.786	37.7	100	04/25/2017 11:22	WG973349
2,4,6-Trichlorophenol	U		0.881	37.7	100	04/25/2017 11:22	WG973349
(S) 2-Fluorophenol	63.8	J7		20.0-120		04/25/2017 11:22	WG973349
(S) Phenol-d5	78.7	J7		20.0-120		04/25/2017 11:22	WG973349
(S) Nitrobenzene-d5	66.5	J7		18.0-125		04/25/2017 11:22	WG973349

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 14:40

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	84.7	J7		28.0-120		04/25/2017 11:22	WG973349
(S) 2,4,6-Tribromophenol	48.6	J7		17.0-137		04/25/2017 11:22	WG973349
(S) p-Terphenyl-d14	80.8	J7		13.0-131		04/25/2017 11:22	WG973349

Sample Narrative:

8270C L903712-12 WG973349: Cannot run at lower dilution due to viscosity of extract

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	66.6		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.241		0.00420	0.0300	1	04/21/2017 14:49	WG972271

Metals (ICP) by Method 6010B

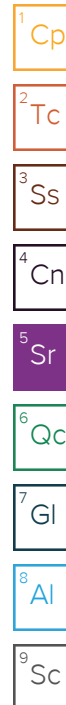
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	10.4		0.975	3.00	1	04/21/2017 15:40	WG972363
Barium	264		0.255	0.750	1	04/21/2017 15:40	WG972363
Cadmium	1.18		0.105	0.750	1	04/21/2017 15:40	WG972363
Chromium	10.7		0.210	1.50	1	04/21/2017 15:40	WG972363
Lead	153		0.285	0.750	1	04/21/2017 15:40	WG972363
Selenium	1.12	J	1.11	3.00	1	04/21/2017 15:40	WG972363
Silver	U		0.420	1.50	1	04/21/2017 15:40	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0326	0.150	1	04/23/2017 02:10	WG973065
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		04/23/2017 02:10	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	0.0175	J	0.0150	0.0750	1	04/23/2017 23:54	WG973085
Acrylonitrile	U		0.00269	0.0150	1	04/23/2017 23:54	WG973085
Benzene	0.00115	J	0.000405	0.00150	1	04/23/2017 23:54	WG973085
Bromobenzene	U		0.000426	0.00150	1	04/23/2017 23:54	WG973085
Bromodichloromethane	U		0.000381	0.00150	1	04/23/2017 23:54	WG973085
Bromoform	U		0.000636	0.00150	1	04/23/2017 23:54	WG973085
Bromomethane	U		0.00201	0.00750	1	04/23/2017 23:54	WG973085
n-Butylbenzene	U		0.000387	0.00150	1	04/23/2017 23:54	WG973085
sec-Butylbenzene	U		0.000302	0.00150	1	04/23/2017 23:54	WG973085
tert-Butylbenzene	U		0.000309	0.00150	1	04/23/2017 23:54	WG973085
Carbon tetrachloride	U		0.000492	0.00150	1	04/23/2017 23:54	WG973085
Chlorobenzene	U		0.000318	0.00150	1	04/23/2017 23:54	WG973085
Chlorodibromomethane	U		0.000560	0.00150	1	04/23/2017 23:54	WG973085
Chloroethane	U		0.00142	0.00750	1	04/23/2017 23:54	WG973085
2-Chloroethyl vinyl ether	U		0.00351	0.0750	1	04/23/2017 23:54	WG973085
Chloroform	U		0.000344	0.00750	1	04/23/2017 23:54	WG973085
Chloromethane	U		0.000563	0.00375	1	04/23/2017 23:54	WG973085
2-Chlorotoluene	U		0.000452	0.00150	1	04/23/2017 23:54	WG973085
4-Chlorotoluene	U		0.000360	0.00150	1	04/23/2017 23:54	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00158	0.00750	1	04/23/2017 23:54	WG973085
1,2-Dibromoethane	U		0.000515	0.00150	1	04/23/2017 23:54	WG973085
Dibromomethane	U		0.000573	0.00150	1	04/23/2017 23:54	WG973085
1,2-Dichlorobenzene	U		0.000458	0.00150	1	04/23/2017 23:54	WG973085
1,3-Dichlorobenzene	U		0.000359	0.00150	1	04/23/2017 23:54	WG973085
1,4-Dichlorobenzene	U		0.000339	0.00150	1	04/23/2017 23:54	WG973085
Dichlorodifluoromethane	U		0.00107	0.00750	1	04/23/2017 23:54	WG973085
1,1-Dichloroethane	U		0.000299	0.00150	1	04/23/2017 23:54	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000398	0.00150	1	04/23/2017 23:54	WG973085
1,1-Dichloroethene	U		0.000455	0.00150	1	04/23/2017 23:54	WG973085
cis-1,2-Dichloroethene	U		0.000353	0.00150	1	04/23/2017 23:54	WG973085
trans-1,2-Dichloroethene	U		0.000396	0.00150	1	04/23/2017 23:54	WG973085
1,2-Dichloropropane	U		0.000537	0.00150	1	04/23/2017 23:54	WG973085
1,1-Dichloropropene	U		0.000476	0.00150	1	04/23/2017 23:54	WG973085
1,3-Dichloropropane	U		0.000311	0.00150	1	04/23/2017 23:54	WG973085
cis-1,3-Dichloropropene	U		0.000393	0.00150	1	04/23/2017 23:54	WG973085
trans-1,3-Dichloropropene	U		0.000401	0.00150	1	04/23/2017 23:54	WG973085
2,2-Dichloropropane	U		0.000419	0.00150	1	04/23/2017 23:54	WG973085
Di-isopropyl ether	U		0.000372	0.00150	1	04/23/2017 23:54	WG973085
Ethylbenzene	U		0.000446	0.00150	1	04/23/2017 23:54	WG973085
Hexachloro-1,3-butadiene	U		0.000513	0.00150	1	04/23/2017 23:54	WG973085
Isopropylbenzene	U		0.000365	0.00150	1	04/23/2017 23:54	WG973085
p-Isopropyltoluene	U		0.000306	0.00150	1	04/23/2017 23:54	WG973085
2-Butanone (MEK)	U		0.00702	0.0150	1	04/23/2017 23:54	WG973085
Methylene Chloride	U		0.00150	0.00750	1	04/23/2017 23:54	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00282	0.0150	1	04/23/2017 23:54	WG973085
Methyl tert-butyl ether	U		0.000318	0.00150	1	04/23/2017 23:54	WG973085
Naphthalene	U		0.00150	0.00750	1	04/23/2017 23:54	WG973085
n-Propylbenzene	U		0.000309	0.00150	1	04/23/2017 23:54	WG973085
Styrene	U		0.000351	0.00150	1	04/23/2017 23:54	WG973085
1,1,1,2-Tetrachloroethane	U		0.000396	0.00150	1	04/23/2017 23:54	WG973085
1,1,2,2-Tetrachloroethane	U		0.000548	0.00150	1	04/23/2017 23:54	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000548	0.00150	1	04/23/2017 23:54	WG973085
Tetrachloroethene	U		0.000414	0.00150	1	04/23/2017 23:54	WG973085
Toluene	U		0.000651	0.00750	1	04/23/2017 23:54	WG973085
1,2,3-Trichlorobenzene	U		0.000459	0.00150	1	04/23/2017 23:54	WG973085
1,2,4-Trichlorobenzene	U		0.000582	0.00150	1	04/23/2017 23:54	WG973085
1,1,1-Trichloroethane	U		0.000429	0.00150	1	04/23/2017 23:54	WG973085
1,1,2-Trichloroethane	U		0.000416	0.00150	1	04/23/2017 23:54	WG973085
Trichloroethene	U		0.000419	0.00150	1	04/23/2017 23:54	WG973085
Trichlorofluoromethane	U		0.000573	0.00750	1	04/23/2017 23:54	WG973085
1,2,3-Trichloropropane	U		0.00111	0.00375	1	04/23/2017 23:54	WG973085
1,2,4-Trimethylbenzene	U		0.000317	0.00150	1	04/23/2017 23:54	WG973085
1,2,3-Trimethylbenzene	U		0.000431	0.00150	1	04/23/2017 23:54	WG973085
1,3,5-Trimethylbenzene	U		0.000399	0.00150	1	04/23/2017 23:54	WG973085
Vinyl chloride	U		0.000437	0.00150	1	04/23/2017 23:54	WG973085
Xylenes, Total	U		0.00105	0.00450	1	04/23/2017 23:54	WG973085
(S) Toluene-d8	101			80.0-120		04/23/2017 23:54	WG973085
(S) Dibromofluoromethane	107			74.0-131		04/23/2017 23:54	WG973085
(S) 4-Bromofluorobenzene	43.3	J2		64.0-132		04/23/2017 23:54	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		11.5	60.0	10	04/24/2017 12:49	WG972471
(S) o-Terphenyl	30.1			18.0-148		04/24/2017 12:49	WG972471

Sample Narrative:

8015 L903712-13 WG972471: Cannot run at lower dilution due to viscosity of extract



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00963	0.0495	1	04/25/2017 11:31	WG973349
Acenaphthylene	U		0.0101	0.0495	1	04/25/2017 11:31	WG973349
Anthracene	U		0.00948	0.0495	1	04/25/2017 11:31	WG973349
Benidine	U		0.0956	0.500	1	04/25/2017 11:31	WG973349
Benzo(a)anthracene	0.0119	J	0.00642	0.0495	1	04/25/2017 11:31	WG973349
Benzo(b)fluoranthene	0.0199	J	0.0104	0.0495	1	04/25/2017 11:31	WG973349
Benzo(k)fluoranthene	U		0.00873	0.0495	1	04/25/2017 11:31	WG973349
Benzo(g,h,i)perylene	U		0.0108	0.0495	1	04/25/2017 11:31	WG973349
Benzo(a)pyrene	0.00858	J	0.00822	0.0495	1	04/25/2017 11:31	WG973349
Bis(2-chlorethoxy)methane	U		0.0116	0.500	1	04/25/2017 11:31	WG973349
Bis(2-chloroethyl)ether	U		0.0134	0.500	1	04/25/2017 11:31	WG973349
Bis(2-chloroisopropyl)ether	U		0.0114	0.500	1	04/25/2017 11:31	WG973349
4-Bromophenyl-phenylether	U		0.0171	0.500	1	04/25/2017 11:31	WG973349
2-Chloronaphthalene	U		0.00959	0.0495	1	04/25/2017 11:31	WG973349
4-Chlorophenyl-phenylether	U		0.00941	0.500	1	04/25/2017 11:31	WG973349
Chrysene	0.0197	J	0.00833	0.0495	1	04/25/2017 11:31	WG973349
Dibenz(a,h)anthracene	U		0.0123	0.0495	1	04/25/2017 11:31	WG973349
3,3-Dichlorobenzidine	U		0.119	0.500	1	04/25/2017 11:31	WG973349
2,4-Dinitrotoluene	U		0.00911	0.500	1	04/25/2017 11:31	WG973349
2,6-Dinitrotoluene	U		0.0111	0.500	1	04/25/2017 11:31	WG973349
Fluoranthene	0.0492	J	0.00744	0.0495	1	04/25/2017 11:31	WG973349
Fluorene	U		0.0102	0.0495	1	04/25/2017 11:31	WG973349
Hexachlorobenzene	U		0.0128	0.500	1	04/25/2017 11:31	WG973349
Hexachloro-1,3-butadiene	U		0.0150	0.500	1	04/25/2017 11:31	WG973349
Hexachlorocyclopentadiene	U		0.0881	0.500	1	04/25/2017 11:31	WG973349
Hexachloroethane	U		0.0201	0.500	1	04/25/2017 11:31	WG973349
Indeno(1,2,3-cd)pyrene	U		0.0116	0.0495	1	04/25/2017 11:31	WG973349
Isophorone	U		0.00783	0.500	1	04/25/2017 11:31	WG973349
Naphthalene	0.0351	J	0.0133	0.0495	1	04/25/2017 11:31	WG973349
Nitrobenzene	U		0.0104	0.500	1	04/25/2017 11:31	WG973349
n-Nitrosodimethylamine	U		0.0971	0.500	1	04/25/2017 11:31	WG973349
n-Nitrosodiphenylamine	U		0.00891	0.500	1	04/25/2017 11:31	WG973349
n-Nitrosodi-n-propylamine	U		0.0136	0.500	1	04/25/2017 11:31	WG973349
Phenanthrene	0.0529		0.00792	0.0495	1	04/25/2017 11:31	WG973349
Benzylbutyl phthalate	U		0.0155	0.500	1	04/25/2017 11:31	WG973349
Bis(2-ethylhexyl)phthalate	U		0.0180	0.500	1	04/25/2017 11:31	WG973349
Di-n-butyl phthalate	U		0.0164	0.500	1	04/25/2017 11:31	WG973349
Diethyl phthalate	U		0.0104	0.500	1	04/25/2017 11:31	WG973349
Dimethyl phthalate	U		0.00810	0.500	1	04/25/2017 11:31	WG973349
Di-n-octyl phthalate	U		0.0136	0.500	1	04/25/2017 11:31	WG973349
Pyrene	0.0209	J	0.0185	0.0495	1	04/25/2017 11:31	WG973349
1,2,4-Trichlorobenzene	U		0.0131	0.500	1	04/25/2017 11:31	WG973349
4-Chloro-3-methylphenol	U		0.00716	0.500	1	04/25/2017 11:31	WG973349
2-Chlorophenol	U		0.0125	0.500	1	04/25/2017 11:31	WG973349
2,4-Dichlorophenol	U		0.0112	0.500	1	04/25/2017 11:31	WG973349
2,4-Dimethylphenol	U		0.0707	0.500	1	04/25/2017 11:31	WG973349
4,6-Dinitro-2-methylphenol	U		0.186	0.500	1	04/25/2017 11:31	WG973349
2,4-Dinitrophenol	U		0.147	0.500	1	04/25/2017 11:31	WG973349
2-Nitrophenol	U		0.0195	0.500	1	04/25/2017 11:31	WG973349
4-Nitrophenol	U		0.0788	0.500	1	04/25/2017 11:31	WG973349
Pentachlorophenol	U		0.0720	0.500	1	04/25/2017 11:31	WG973349
Phenol	U		0.0104	0.500	1	04/25/2017 11:31	WG973349
2,4,6-Trichlorophenol	U		0.0117	0.500	1	04/25/2017 11:31	WG973349
(S) 2-Fluorophenol	36.0			20.0-120		04/25/2017 11:31	WG973349
(S) Phenol-d5	37.9			20.0-120		04/25/2017 11:31	WG973349
(S) Nitrobenzene-d5	59.3			18.0-125		04/25/2017 11:31	WG973349

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 14:40

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	59.5			28.0-120		04/25/2017 11:31	WG973349
(S) 2,4,6-Tribromophenol	64.6			17.0-137		04/25/2017 11:31	WG973349
(S) p-Terphenyl-d14	35.8			13.0-131		04/25/2017 11:31	WG973349

¹ Cp

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	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.8		1	04/20/2017 11:39	WG972291

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Mercury	0.0155	J	0.00369	0.0264	1	04/21/2017 14:51	WG972271

Metals (ICP) by Method 6010B

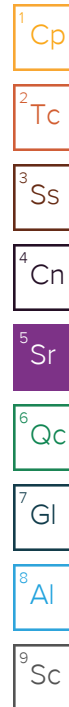
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Arsenic	5.37		0.858	2.64	1	04/21/2017 15:43	WG972363
Barium	96.0		0.224	0.660	1	04/21/2017 15:43	WG972363
Cadmium	0.261	J	0.0924	0.660	1	04/21/2017 15:43	WG972363
Chromium	10.6		0.185	1.32	1	04/21/2017 15:43	WG972363
Lead	19.4		0.251	0.660	1	04/21/2017 15:43	WG972363
Selenium	U		0.976	2.64	1	04/21/2017 15:43	WG972363
Silver	U		0.369	1.32	1	04/21/2017 15:43	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0286	0.132	1	04/23/2017 02:32	WG973065
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		04/23/2017 02:32	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Acetone	U		0.0132	0.0660	1	04/24/2017 00:14	WG973085
Acrylonitrile	U		0.00236	0.0132	1	04/24/2017 00:14	WG973085
Benzene	U		0.000356	0.00132	1	04/24/2017 00:14	WG973085
Bromobenzene	U		0.000375	0.00132	1	04/24/2017 00:14	WG973085
Bromodichloromethane	U		0.000335	0.00132	1	04/24/2017 00:14	WG973085
Bromoform	U		0.000559	0.00132	1	04/24/2017 00:14	WG973085
Bromomethane	U		0.00177	0.00660	1	04/24/2017 00:14	WG973085
n-Butylbenzene	U		0.000340	0.00132	1	04/24/2017 00:14	WG973085
sec-Butylbenzene	U		0.000265	0.00132	1	04/24/2017 00:14	WG973085
tert-Butylbenzene	U		0.000272	0.00132	1	04/24/2017 00:14	WG973085
Carbon tetrachloride	U		0.000433	0.00132	1	04/24/2017 00:14	WG973085
Chlorobenzene	U		0.000280	0.00132	1	04/24/2017 00:14	WG973085
Chlorodibromomethane	U		0.000492	0.00132	1	04/24/2017 00:14	WG973085
Chloroethane	U		0.00125	0.00660	1	04/24/2017 00:14	WG973085
2-Chloroethyl vinyl ether	U		0.00309	0.0660	1	04/24/2017 00:14	WG973085
Chloroform	U		0.000302	0.00660	1	04/24/2017 00:14	WG973085
Chloromethane	U		0.000495	0.00330	1	04/24/2017 00:14	WG973085
2-Chlorotoluene	U		0.000397	0.00132	1	04/24/2017 00:14	WG973085
4-Chlorotoluene	U		0.000317	0.00132	1	04/24/2017 00:14	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00139	0.00660	1	04/24/2017 00:14	WG973085
1,2-Dibromoethane	U		0.000453	0.00132	1	04/24/2017 00:14	WG973085
Dibromomethane	U		0.000504	0.00132	1	04/24/2017 00:14	WG973085
1,2-Dichlorobenzene	U		0.000402	0.00132	1	04/24/2017 00:14	WG973085
1,3-Dichlorobenzene	U		0.000315	0.00132	1	04/24/2017 00:14	WG973085
1,4-Dichlorobenzene	U		0.000298	0.00132	1	04/24/2017 00:14	WG973085
Dichlorodifluoromethane	U		0.000941	0.00660	1	04/24/2017 00:14	WG973085
1,1-Dichloroethane	U		0.000263	0.00132	1	04/24/2017 00:14	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000350	0.00132	1	04/24/2017 00:14	WG973085
1,1-Dichloroethene	U		0.000400	0.00132	1	04/24/2017 00:14	WG973085
cis-1,2-Dichloroethene	U		0.000310	0.00132	1	04/24/2017 00:14	WG973085
trans-1,2-Dichloroethene	U		0.000348	0.00132	1	04/24/2017 00:14	WG973085
1,2-Dichloropropane	U		0.000472	0.00132	1	04/24/2017 00:14	WG973085
1,1-Dichloropropene	U		0.000418	0.00132	1	04/24/2017 00:14	WG973085
1,3-Dichloropropane	U		0.000273	0.00132	1	04/24/2017 00:14	WG973085
cis-1,3-Dichloropropene	U		0.000346	0.00132	1	04/24/2017 00:14	WG973085
trans-1,3-Dichloropropene	U		0.000352	0.00132	1	04/24/2017 00:14	WG973085
2,2-Dichloropropane	U		0.000368	0.00132	1	04/24/2017 00:14	WG973085
Di-isopropyl ether	U		0.000327	0.00132	1	04/24/2017 00:14	WG973085
Ethylbenzene	U		0.000392	0.00132	1	04/24/2017 00:14	WG973085
Hexachloro-1,3-butadiene	U		0.000451	0.00132	1	04/24/2017 00:14	WG973085
Isopropylbenzene	U		0.000321	0.00132	1	04/24/2017 00:14	WG973085
p-Isopropyltoluene	U		0.000269	0.00132	1	04/24/2017 00:14	WG973085
2-Butanone (MEK)	U		0.00617	0.0132	1	04/24/2017 00:14	WG973085
Methylene Chloride	U		0.00132	0.00660	1	04/24/2017 00:14	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00248	0.0132	1	04/24/2017 00:14	WG973085
Methyl tert-butyl ether	U		0.000280	0.00132	1	04/24/2017 00:14	WG973085
Naphthalene	U		0.00132	0.00660	1	04/24/2017 00:14	WG973085
n-Propylbenzene	U		0.000272	0.00132	1	04/24/2017 00:14	WG973085
Styrene	U		0.000309	0.00132	1	04/24/2017 00:14	WG973085
1,1,1,2-Tetrachloroethane	U		0.000348	0.00132	1	04/24/2017 00:14	WG973085
1,1,2,2-Tetrachloroethane	U		0.000482	0.00132	1	04/24/2017 00:14	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000482	0.00132	1	04/24/2017 00:14	WG973085
Tetrachloroethene	U		0.000364	0.00132	1	04/24/2017 00:14	WG973085
Toluene	U		0.000573	0.00660	1	04/24/2017 00:14	WG973085
1,2,3-Trichlorobenzene	U		0.000404	0.00132	1	04/24/2017 00:14	WG973085
1,2,4-Trichlorobenzene	U		0.000512	0.00132	1	04/24/2017 00:14	WG973085
1,1,1-Trichloroethane	U		0.000377	0.00132	1	04/24/2017 00:14	WG973085
1,1,2-Trichloroethane	U		0.000365	0.00132	1	04/24/2017 00:14	WG973085
Trichloroethene	U		0.000368	0.00132	1	04/24/2017 00:14	WG973085
Trichlorofluoromethane	U		0.000504	0.00660	1	04/24/2017 00:14	WG973085
1,2,3-Trichloropropane	U		0.000978	0.00330	1	04/24/2017 00:14	WG973085
1,2,4-Trimethylbenzene	U		0.000278	0.00132	1	04/24/2017 00:14	WG973085
1,2,3-Trimethylbenzene	U		0.000379	0.00132	1	04/24/2017 00:14	WG973085
1,3,5-Trimethylbenzene	U		0.000351	0.00132	1	04/24/2017 00:14	WG973085
Vinyl chloride	U		0.000384	0.00132	1	04/24/2017 00:14	WG973085
Xylenes, Total	U		0.000921	0.00396	1	04/24/2017 00:14	WG973085
(S) Toluene-d8	100			80.0-120		04/24/2017 00:14	WG973085
(S) Dibromofluoromethane	102			74.0-131		04/24/2017 00:14	WG973085
(S) 4-Bromofluorobenzene	56.2	<u>J2</u>		64.0-132		04/24/2017 00:14	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		10.1	52.8	10	04/24/2017 13:01	WG972471
(S) o-Terphenyl	28.5			18.0-148		04/24/2017 13:01	WG972471

Sample Narrative:

8015 L903712-14 WG972471: Cannot run at lower dilution due to viscosity of extract



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00847	0.0435	1	04/25/2017 11:56	WG973349
Acenaphthylene	U		0.00885	0.0435	1	04/25/2017 11:56	WG973349
Anthracene	U		0.00834	0.0435	1	04/25/2017 11:56	WG973349
Benidine	U		0.0840	0.439	1	04/25/2017 11:56	WG973349
Benzo(a)anthracene	0.0130	U	0.00565	0.0435	1	04/25/2017 11:56	WG973349
Benzo(b)fluoranthene	0.0225	U	0.00917	0.0435	1	04/25/2017 11:56	WG973349
Benzo(k)fluoranthene	U		0.00768	0.0435	1	04/25/2017 11:56	WG973349
Benzo(g,h,i)perylene	0.0131	U	0.00951	0.0435	1	04/25/2017 11:56	WG973349
Benzo(a)pyrene	0.0131	U	0.00723	0.0435	1	04/25/2017 11:56	WG973349
Bis(2-chlorethoxy)methane	U		0.0102	0.439	1	04/25/2017 11:56	WG973349
Bis(2-chloroethyl)ether	U		0.0118	0.439	1	04/25/2017 11:56	WG973349
Bis(2-chloroisopropyl)ether	U		0.0100	0.439	1	04/25/2017 11:56	WG973349
4-Bromophenyl-phenylether	U		0.0150	0.439	1	04/25/2017 11:56	WG973349
2-Chloronaphthalene	U		0.00843	0.0435	1	04/25/2017 11:56	WG973349
4-Chlorophenyl-phenylether	U		0.00827	0.439	1	04/25/2017 11:56	WG973349
Chrysene	0.0211	U	0.00732	0.0435	1	04/25/2017 11:56	WG973349
Dibenz(a,h)anthracene	U		0.0108	0.0435	1	04/25/2017 11:56	WG973349
3,3-Dichlorobenzidine	U		0.105	0.439	1	04/25/2017 11:56	WG973349
2,4-Dinitrotoluene	U		0.00801	0.439	1	04/25/2017 11:56	WG973349
2,6-Dinitrotoluene	U		0.00972	0.439	1	04/25/2017 11:56	WG973349
Fluoranthene	0.0301	U	0.00654	0.0435	1	04/25/2017 11:56	WG973349
Fluorene	U		0.00900	0.0435	1	04/25/2017 11:56	WG973349
Hexachlorobenzene	U		0.0113	0.439	1	04/25/2017 11:56	WG973349
Hexachloro-1,3-butadiene	U		0.0132	0.439	1	04/25/2017 11:56	WG973349
Hexachlorocyclopentadiene	U		0.0775	0.439	1	04/25/2017 11:56	WG973349
Hexachloroethane	U		0.0177	0.439	1	04/25/2017 11:56	WG973349
Indeno(1,2,3-cd)pyrene	U		0.0102	0.0435	1	04/25/2017 11:56	WG973349
Isophorone	U		0.00689	0.439	1	04/25/2017 11:56	WG973349
Naphthalene	0.0253	U	0.0117	0.0435	1	04/25/2017 11:56	WG973349
Nitrobenzene	U		0.00917	0.439	1	04/25/2017 11:56	WG973349
n-Nitrosodimethylamine	U		0.0854	0.439	1	04/25/2017 11:56	WG973349
n-Nitrosodiphenylamine	U		0.00784	0.439	1	04/25/2017 11:56	WG973349
n-Nitrosodi-n-propylamine	U		0.0120	0.439	1	04/25/2017 11:56	WG973349
Phenanthrene	0.0453		0.00697	0.0435	1	04/25/2017 11:56	WG973349
Benzylbutyl phthalate	U		0.0136	0.439	1	04/25/2017 11:56	WG973349
Bis(2-ethylhexyl)phthalate	U		0.0158	0.439	1	04/25/2017 11:56	WG973349
Di-n-butyl phthalate	U		0.0144	0.439	1	04/25/2017 11:56	WG973349
Diethyl phthalate	U		0.00912	0.439	1	04/25/2017 11:56	WG973349
Dimethyl phthalate	U		0.00712	0.439	1	04/25/2017 11:56	WG973349
Di-n-octyl phthalate	U		0.0120	0.439	1	04/25/2017 11:56	WG973349
Pyrene	0.0302	U	0.0162	0.0435	1	04/25/2017 11:56	WG973349
1,2,4-Trichlorobenzene	U		0.0116	0.439	1	04/25/2017 11:56	WG973349
4-Chloro-3-methylphenol	U		0.00629	0.439	1	04/25/2017 11:56	WG973349
2-Chlorophenol	U		0.0110	0.439	1	04/25/2017 11:56	WG973349
2,4-Dichlorophenol	U		0.00984	0.439	1	04/25/2017 11:56	WG973349
2,4-Dimethylphenol	U		0.0621	0.439	1	04/25/2017 11:56	WG973349
4,6-Dinitro-2-methylphenol	U		0.164	0.439	1	04/25/2017 11:56	WG973349
2,4-Dinitrophenol	U		0.129	0.439	1	04/25/2017 11:56	WG973349
2-Nitrophenol	U		0.0172	0.439	1	04/25/2017 11:56	WG973349
4-Nitrophenol	U		0.0693	0.439	1	04/25/2017 11:56	WG973349
Pentachlorophenol	U		0.0633	0.439	1	04/25/2017 11:56	WG973349
Phenol	U		0.00917	0.439	1	04/25/2017 11:56	WG973349
2,4,6-Trichlorophenol	U		0.0103	0.439	1	04/25/2017 11:56	WG973349
(S) 2-Fluorophenol	31.5			20.0-120		04/25/2017 11:56	WG973349
(S) Phenol-d5	33.1			20.0-120		04/25/2017 11:56	WG973349
(S) Nitrobenzene-d5	73.5			18.0-125		04/25/2017 11:56	WG973349

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/19/17 15:25

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	68.3			28.0-120		04/25/2017 11:56	WG973349
(S) 2,4,6-Tribromophenol	65.9			17.0-137		04/25/2017 11:56	WG973349
(S) p-Terphenyl-d14	41.5			13.0-131		04/25/2017 11:56	WG973349

¹ Cp

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	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.8		1	04/20/2017 14:44	WG972333

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.760		0.00401	0.0287	1	04/21/2017 14:54	WG972271

Metals (ICP) by Method 6010B

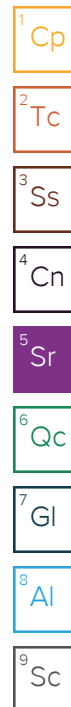
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.98		0.931	2.87	1	04/21/2017 15:45	WG972363
Barium	109		0.244	0.716	1	04/21/2017 15:45	WG972363
Cadmium	0.698	J	0.100	0.716	1	04/21/2017 15:45	WG972363
Chromium	8.44		0.201	1.43	1	04/21/2017 15:45	WG972363
Lead	96.1		0.272	0.716	1	04/21/2017 15:45	WG972363
Selenium	U		1.06	2.87	1	04/21/2017 15:45	WG972363
Silver	U		0.401	1.43	1	04/21/2017 15:45	WG972363

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0311	0.143	1	04/23/2017 02:54	WG973065
(S) a,a,a-Trifluorotoluene(FID)	90.8			77.0-120		04/23/2017 02:54	WG973065

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0299	J	0.0143	0.0716	1	04/24/2017 00:35	WG973085
Acrylonitrile	U		0.00256	0.0143	1	04/24/2017 00:35	WG973085
Benzene	U		0.000387	0.00143	1	04/24/2017 00:35	WG973085
Bromobenzene	U		0.000407	0.00143	1	04/24/2017 00:35	WG973085
Bromodichloromethane	U		0.000364	0.00143	1	04/24/2017 00:35	WG973085
Bromoform	U		0.000608	0.00143	1	04/24/2017 00:35	WG973085
Bromomethane	U		0.00192	0.00716	1	04/24/2017 00:35	WG973085
n-Butylbenzene	U		0.000370	0.00143	1	04/24/2017 00:35	WG973085
sec-Butylbenzene	U		0.000288	0.00143	1	04/24/2017 00:35	WG973085
tert-Butylbenzene	U		0.000295	0.00143	1	04/24/2017 00:35	WG973085
Carbon tetrachloride	U		0.000470	0.00143	1	04/24/2017 00:35	WG973085
Chlorobenzene	U		0.000304	0.00143	1	04/24/2017 00:35	WG973085
Chlorodibromomethane	U		0.000534	0.00143	1	04/24/2017 00:35	WG973085
Chloroethane	U		0.00136	0.00716	1	04/24/2017 00:35	WG973085
2-Chloroethyl vinyl ether	U		0.00335	0.0716	1	04/24/2017 00:35	WG973085
Chloroform	U		0.000328	0.00716	1	04/24/2017 00:35	WG973085
Chloromethane	U		0.000537	0.00358	1	04/24/2017 00:35	WG973085
2-Chlorotoluene	U		0.000431	0.00143	1	04/24/2017 00:35	WG973085
4-Chlorotoluene	U		0.000344	0.00143	1	04/24/2017 00:35	WG973085
1,2-Dibromo-3-Chloropropane	U		0.00150	0.00716	1	04/24/2017 00:35	WG973085
1,2-Dibromoethane	U		0.000491	0.00143	1	04/24/2017 00:35	WG973085
Dibromomethane	U		0.000547	0.00143	1	04/24/2017 00:35	WG973085
1,2-Dichlorobenzene	U		0.000437	0.00143	1	04/24/2017 00:35	WG973085
1,3-Dichlorobenzene	U		0.000342	0.00143	1	04/24/2017 00:35	WG973085
1,4-Dichlorobenzene	U		0.000324	0.00143	1	04/24/2017 00:35	WG973085
Dichlorodifluoromethane	U		0.00102	0.00716	1	04/24/2017 00:35	WG973085
1,1-Dichloroethane	U		0.000285	0.00143	1	04/24/2017 00:35	WG973085





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000380	0.00143	1	04/24/2017 00:35	WG973085
1,1-Dichloroethene	U		0.000434	0.00143	1	04/24/2017 00:35	WG973085
cis-1,2-Dichloroethene	U		0.000337	0.00143	1	04/24/2017 00:35	WG973085
trans-1,2-Dichloroethene	U		0.000378	0.00143	1	04/24/2017 00:35	WG973085
1,2-Dichloropropane	U		0.000513	0.00143	1	04/24/2017 00:35	WG973085
1,1-Dichloropropene	U		0.000454	0.00143	1	04/24/2017 00:35	WG973085
1,3-Dichloropropane	U		0.000297	0.00143	1	04/24/2017 00:35	WG973085
cis-1,3-Dichloropropene	U		0.000375	0.00143	1	04/24/2017 00:35	WG973085
trans-1,3-Dichloropropene	U		0.000383	0.00143	1	04/24/2017 00:35	WG973085
2,2-Dichloropropane	U		0.000400	0.00143	1	04/24/2017 00:35	WG973085
Di-isopropyl ether	U		0.000355	0.00143	1	04/24/2017 00:35	WG973085
Ethylbenzene	U		0.000426	0.00143	1	04/24/2017 00:35	WG973085
Hexachloro-1,3-butadiene	U		0.000490	0.00143	1	04/24/2017 00:35	WG973085
Isopropylbenzene	U		0.000348	0.00143	1	04/24/2017 00:35	WG973085
p-Isopropyltoluene	U		0.000292	0.00143	1	04/24/2017 00:35	WG973085
2-Butanone (MEK)	U		0.00671	0.0143	1	04/24/2017 00:35	WG973085
Methylene Chloride	U		0.00143	0.00716	1	04/24/2017 00:35	WG973085
4-Methyl-2-pentanone (MIBK)	U		0.00269	0.0143	1	04/24/2017 00:35	WG973085
Methyl tert-butyl ether	0.00387		0.000304	0.00143	1	04/24/2017 00:35	WG973085
Naphthalene	U		0.00143	0.00716	1	04/24/2017 00:35	WG973085
n-Propylbenzene	U		0.000295	0.00143	1	04/24/2017 00:35	WG973085
Styrene	U		0.000335	0.00143	1	04/24/2017 00:35	WG973085
1,1,1,2-Tetrachloroethane	U		0.000378	0.00143	1	04/24/2017 00:35	WG973085
1,1,2,2-Tetrachloroethane	U		0.000523	0.00143	1	04/24/2017 00:35	WG973085
1,1,2-Trichlorotrifluoroethane	U		0.000523	0.00143	1	04/24/2017 00:35	WG973085
Tetrachloroethene	U		0.000395	0.00143	1	04/24/2017 00:35	WG973085
Toluene	U		0.000622	0.00716	1	04/24/2017 00:35	WG973085
1,2,3-Trichlorobenzene	U		0.000438	0.00143	1	04/24/2017 00:35	WG973085
1,2,4-Trichlorobenzene	U		0.000556	0.00143	1	04/24/2017 00:35	WG973085
1,1,1-Trichloroethane	U		0.000410	0.00143	1	04/24/2017 00:35	WG973085
1,1,2-Trichloroethane	U		0.000397	0.00143	1	04/24/2017 00:35	WG973085
Trichloroethene	U		0.000400	0.00143	1	04/24/2017 00:35	WG973085
Trichlorofluoromethane	U		0.000547	0.00716	1	04/24/2017 00:35	WG973085
1,2,3-Trichloropropane	U		0.00106	0.00358	1	04/24/2017 00:35	WG973085
1,2,4-Trimethylbenzene	U		0.000302	0.00143	1	04/24/2017 00:35	WG973085
1,2,3-Trimethylbenzene	U		0.000411	0.00143	1	04/24/2017 00:35	WG973085
1,3,5-Trimethylbenzene	U		0.000381	0.00143	1	04/24/2017 00:35	WG973085
Vinyl chloride	U		0.000417	0.00143	1	04/24/2017 00:35	WG973085
Xylenes, Total	U		0.00100	0.00430	1	04/24/2017 00:35	WG973085
(S) Toluene-d8	101			80.0-120		04/24/2017 00:35	WG973085
(S) Dibromofluoromethane	105			74.0-131		04/24/2017 00:35	WG973085
(S) 4-Bromofluorobenzene	77.2			64.0-132		04/24/2017 00:35	WG973085

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		110	573	100	04/22/2017 17:41	WG972471
(S) o-Terphenyl	21.2	J7		18.0-148		04/22/2017 17:41	WG972471

Sample Narrative:

8015 L903712-15 WG972471: Cannot run at lower dilution due to viscosity of extract



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.183	0.946	20	04/25/2017 11:48	WG973349
Acenaphthylene	U		0.192	0.946	20	04/25/2017 11:48	WG973349
Anthracene	U		0.181	0.946	20	04/25/2017 11:48	WG973349
Benzidine	U		1.82	9.54	20	04/25/2017 11:48	WG973349
Benzo(a)anthracene	U		0.123	0.946	20	04/25/2017 11:48	WG973349
Benzo(b)fluoranthene	U		0.199	0.946	20	04/25/2017 11:48	WG973349
Benzo(k)fluoranthene	U		0.166	0.946	20	04/25/2017 11:48	WG973349
Benzo(g,h,i)perylene	U		0.206	0.946	20	04/25/2017 11:48	WG973349
Benzo(a)pyrene	U		0.158	0.946	20	04/25/2017 11:48	WG973349
Bis(2-chlorethoxy)methane	U		0.221	9.54	20	04/25/2017 11:48	WG973349
Bis(2-chloroethyl)ether	U		0.256	9.54	20	04/25/2017 11:48	WG973349
Bis(2-chloroisopropyl)ether	U		0.218	9.54	20	04/25/2017 11:48	WG973349
4-Bromophenyl-phenylether	U		0.327	9.54	20	04/25/2017 11:48	WG973349
2-Chloronaphthalene	U		0.183	0.946	20	04/25/2017 11:48	WG973349
4-Chlorophenyl-phenylether	U		0.179	9.54	20	04/25/2017 11:48	WG973349
Chrysene	U		0.159	0.946	20	04/25/2017 11:48	WG973349
Dibenz(a,h)anthracene	U		0.235	0.946	20	04/25/2017 11:48	WG973349
3,3-Dichlorobenzidine	U		2.28	9.54	20	04/25/2017 11:48	WG973349
2,4-Dinitrotoluene	U		0.173	9.54	20	04/25/2017 11:48	WG973349
2,6-Dinitrotoluene	U		0.211	9.54	20	04/25/2017 11:48	WG973349
Fluoranthene	U		0.142	0.946	20	04/25/2017 11:48	WG973349
Fluorene	U		0.195	0.946	20	04/25/2017 11:48	WG973349
Hexachlorobenzene	U		0.245	9.54	20	04/25/2017 11:48	WG973349
Hexachloro-1,3-butadiene	U		0.287	9.54	20	04/25/2017 11:48	WG973349
Hexachlorocyclopentadiene	U		1.68	9.54	20	04/25/2017 11:48	WG973349
Hexachloroethane	U		0.384	9.54	20	04/25/2017 11:48	WG973349
Indeno(1,2,3-cd)pyrene	U		0.221	0.946	20	04/25/2017 11:48	WG973349
Isophorone	U		0.149	9.54	20	04/25/2017 11:48	WG973349
Naphthalene	U		0.255	0.946	20	04/25/2017 11:48	WG973349
Nitrobenzene	U		0.199	9.54	20	04/25/2017 11:48	WG973349
n-Nitrosodimethylamine	U		1.85	9.54	20	04/25/2017 11:48	WG973349
n-Nitrosodiphenylamine	U		0.171	9.54	20	04/25/2017 11:48	WG973349
n-Nitrosodi-n-propylamine	U		0.259	9.54	20	04/25/2017 11:48	WG973349
Phenanthrene	U		0.152	0.946	20	04/25/2017 11:48	WG973349
Benzylbutyl phthalate	U		0.295	9.54	20	04/25/2017 11:48	WG973349
Bis(2-ethylhexyl)phthalate	U		0.344	9.54	20	04/25/2017 11:48	WG973349
Di-n-butyl phthalate	U		0.312	9.54	20	04/25/2017 11:48	WG973349
Diethyl phthalate	U		0.198	9.54	20	04/25/2017 11:48	WG973349
Dimethyl phthalate	U		0.155	9.54	20	04/25/2017 11:48	WG973349
Di-n-octyl phthalate	U		0.259	9.54	20	04/25/2017 11:48	WG973349
Pyrene	U		0.352	0.946	20	04/25/2017 11:48	WG973349
1,2,4-Trichlorobenzene	U		0.251	9.54	20	04/25/2017 11:48	WG973349
4-Chloro-3-methylphenol	U		0.137	9.54	20	04/25/2017 11:48	WG973349
2-Chlorophenol	U		0.238	9.54	20	04/25/2017 11:48	WG973349
2,4-Dichlorophenol	U		0.214	9.54	20	04/25/2017 11:48	WG973349
2,4-Dimethylphenol	U		1.35	9.54	20	04/25/2017 11:48	WG973349
4,6-Dinitro-2-methylphenol	U		3.55	9.54	20	04/25/2017 11:48	WG973349
2,4-Dinitrophenol	U		2.81	9.54	20	04/25/2017 11:48	WG973349
2-Nitrophenol	U		0.373	9.54	20	04/25/2017 11:48	WG973349
4-Nitrophenol	U		1.50	9.54	20	04/25/2017 11:48	WG973349
Pentachlorophenol	U		1.38	9.54	20	04/25/2017 11:48	WG973349
Phenol	U		0.199	9.54	20	04/25/2017 11:48	WG973349
2,4,6-Trichlorophenol	U		0.224	9.54	20	04/25/2017 11:48	WG973349
(S) 2-Fluorophenol	60.9	J7		20.0-120		04/25/2017 11:48	WG973349
(S) Phenol-d5	61.3	J7		20.0-120		04/25/2017 11:48	WG973349
(S) Nitrobenzene-d5	56.1	J7		18.0-125		04/25/2017 11:48	WG973349

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 04/19/17 15:25

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	67.3	J7		28.0-120		04/25/2017 11:48	WG973349
(S) 2,4,6-Tribromophenol	49.7	J7		17.0-137		04/25/2017 11:48	WG973349
(S) p-Terphenyl-d14	61.9	J7		13.0-131		04/25/2017 11:48	WG973349

Sample Narrative:

8270C L903712-15 WG973349: Dilution due to matrix

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 10:56	WG972272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 11:51	WG972413
Barium,Dissolved	225		1.70	5.00	1	04/21/2017 11:51	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 11:51	WG972413
Chromium,Dissolved	U		1.40	10.0	1	04/21/2017 11:51	WG972413
Lead,Dissolved	2.69	J	1.90	5.00	1	04/21/2017 11:51	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 11:51	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 11:51	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 15:30	WG972504
(S) a,a,a-Trifluorotoluene(FID) 107				77.0-122		04/21/2017 15:30	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/21/2017 15:49	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 15:49	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 15:49	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 15:49	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 15:49	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 15:49	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 15:49	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 15:49	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 15:49	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 15:49	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 15:49	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 15:49	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 15:49	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 15:49	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 15:49	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 15:49	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 15:49	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 15:49	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 15:49	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 15:49	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 15:49	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 15:49	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 15:49	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 15:49	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 15:49	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 15:49	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 15:49	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 15:49	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 15:49	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 15:49	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 15:49	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 15:49	WG972710



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 15:49	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 15:49	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 15:49	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 15:49	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 15:49	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 15:49	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 15:49	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 15:49	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 15:49	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 15:49	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 15:49	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 15:49	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 15:49	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 15:49	WG972710
Methyl tert-butyl ether	1.23		0.367	1.00	1	04/21/2017 15:49	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 15:49	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 15:49	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 15:49	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 15:49	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 15:49	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 15:49	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 15:49	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 15:49	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 15:49	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 15:49	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 15:49	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 15:49	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 15:49	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 15:49	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 15:49	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 15:49	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 15:49	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 15:49	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 15:49	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 15:49	WG972710
(S) Toluene-d8	104			80.0-120		04/21/2017 15:49	WG972710
(S) Dibromofluoromethane	104			76.0-123		04/21/2017 15:49	WG972710
(S) 4-Bromofluorobenzene	101			80.0-120		04/21/2017 15:49	WG972710

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

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	229		24.7	100	1	04/25/2017 14:48	WG973456
(S) o-Terphenyl	80.6			31.0-160		04/25/2017 14:48	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.417	1.32	1.32	04/21/2017 22:36	WG972495
Acenaphthylene	U		0.408	1.32	1.32	04/21/2017 22:36	WG972495
Anthracene	U		0.384	1.32	1.32	04/21/2017 22:36	WG972495
Benzidine	U		5.70	13.2	1.32	04/21/2017 22:36	WG972495
Benzo(a)anthracene	U		0.129	1.32	1.32	04/21/2017 22:36	WG972495
Benzo(b)fluoranthene	U		0.118	1.32	1.32	04/21/2017 22:36	WG972495
Benzo(k)fluoranthene	U		0.469	1.32	1.32	04/21/2017 22:36	WG972495



Collected date/time: 04/19/17 09:40

L903712

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.212	1.32	1.32	04/21/2017 22:36	WG972495
Benzo(a)pyrene	U		0.449	1.32	1.32	04/21/2017 22:36	WG972495
Bis(2-chlorethoxy)methane	U		0.434	13.2	1.32	04/21/2017 22:36	WG972495
Bis(2-chloroethyl)ether	U		2.14	13.2	1.32	04/21/2017 22:36	WG972495
Bis(2-chloroisopropyl)ether	U		0.587	13.2	1.32	04/21/2017 22:36	WG972495
4-Bromophenyl-phenylether	U		0.442	13.2	1.32	04/21/2017 22:36	WG972495
2-Chloronaphthalene	U		0.436	1.32	1.32	04/21/2017 22:36	WG972495
4-Chlorophenyl-phenylether	U		0.400	13.2	1.32	04/21/2017 22:36	WG972495
Chrysene	U		0.438	1.32	1.32	04/21/2017 22:36	WG972495
Dibenz(a,h)anthracene	U		0.368	1.32	1.32	04/21/2017 22:36	WG972495
3,3-Dichlorobenzidine	U		2.67	13.2	1.32	04/21/2017 22:36	WG972495
2,4-Dinitrotoluene	U		2.18	13.2	1.32	04/21/2017 22:36	WG972495
2,6-Dinitrotoluene	U		0.368	13.2	1.32	04/21/2017 22:36	WG972495
Fluoranthene	U		0.409	1.32	1.32	04/21/2017 22:36	WG972495
Fluorene	U		0.426	1.32	1.32	04/21/2017 22:36	WG972495
Hexachlorobenzene	U		0.450	1.32	1.32	04/21/2017 22:36	WG972495
Hexachloro-1,3-butadiene	U		0.434	13.2	1.32	04/21/2017 22:36	WG972495
Hexachlorocyclopentadiene	U		3.08	13.2	1.32	04/21/2017 22:36	WG972495
Hexachloroethane	U		0.482	13.2	1.32	04/21/2017 22:36	WG972495
Indeno(1,2,3-cd)pyrene	U		0.368	1.32	1.32	04/21/2017 22:36	WG972495
Isophorone	U		0.359	13.2	1.32	04/21/2017 22:36	WG972495
Naphthalene	U		0.491	1.32	1.32	04/21/2017 22:36	WG972495
Nitrobenzene	U		0.484	13.2	1.32	04/21/2017 22:36	WG972495
n-Nitrosodimethylamine	U		1.66	13.2	1.32	04/21/2017 22:36	WG972495
n-Nitrosodiphenylamine	U		0.401	13.2	1.32	04/21/2017 22:36	WG972495
n-Nitrosodi-n-propylamine	U		0.532	13.2	1.32	04/21/2017 22:36	WG972495
Phenanthrene	U		0.483	1.32	1.32	04/21/2017 22:36	WG972495
Benzylbutyl phthalate	U		0.363	3.96	1.32	04/21/2017 22:36	WG972495
Bis(2-ethylhexyl)phthalate	U		0.936	3.96	1.32	04/21/2017 22:36	WG972495
Di-n-butyl phthalate	U		0.351	3.96	1.32	04/21/2017 22:36	WG972495
Diethyl phthalate	U		0.372	3.96	1.32	04/21/2017 22:36	WG972495
Dimethyl phthalate	U		0.374	3.96	1.32	04/21/2017 22:36	WG972495
Di-n-octyl phthalate	U		0.367	3.96	1.32	04/21/2017 22:36	WG972495
Pyrene	U		0.436	1.32	1.32	04/21/2017 22:36	WG972495
1,2,4-Trichlorobenzene	U		0.469	13.2	1.32	04/21/2017 22:36	WG972495
4-Chloro-3-methylphenol	U		0.347	13.2	1.32	04/21/2017 22:36	WG972495
2-Chlorophenol	U		0.374	13.2	1.32	04/21/2017 22:36	WG972495
2,4-Dichlorophenol	U		0.375	13.2	1.32	04/21/2017 22:36	WG972495
2,4-Dimethylphenol	U		0.824	13.2	1.32	04/21/2017 22:36	WG972495
4,6-Dinitro-2-methylphenol	U		3.46	13.2	1.32	04/21/2017 22:36	WG972495
2,4-Dinitrophenol	U		4.29	13.2	1.32	04/21/2017 22:36	WG972495
2-Nitrophenol	U		0.422	13.2	1.32	04/21/2017 22:36	WG972495
4-Nitrophenol	U		2.65	13.2	1.32	04/21/2017 22:36	WG972495
Pentachlorophenol	U		0.413	13.2	1.32	04/21/2017 22:36	WG972495
Phenol	U		0.441	13.2	1.32	04/21/2017 22:36	WG972495
2,4,6-Trichlorophenol	U		0.392	13.2	1.32	04/21/2017 22:36	WG972495
(S) 2-Fluorophenol	37.1			10.0-120		04/21/2017 22:36	WG972495
(S) Phenol-d5	30.7			10.0-120		04/21/2017 22:36	WG972495
(S) Nitrobenzene-d5	75.9			10.0-126		04/21/2017 22:36	WG972495
(S) 2-Fluorobiphenyl	82.7			22.0-127		04/21/2017 22:36	WG972495
(S) 2,4,6-Tribromophenol	74.3			10.0-153		04/21/2017 22:36	WG972495
(S) p-Terphenyl-d14	94.9			29.0-141		04/21/2017 22:36	WG972495

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 11:14	WG972272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 13:23	WG972413
Barium,Dissolved	197		1.70	5.00	1	04/21/2017 13:23	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 13:23	WG972413
Chromium,Dissolved	1.82	J	1.40	10.0	1	04/21/2017 13:23	WG972413
Lead,Dissolved	U		1.90	5.00	1	04/21/2017 13:23	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 13:23	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 13:23	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 15:54	WG972504
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-122		04/21/2017 15:54	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/21/2017 16:04	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 16:04	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 16:04	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 16:04	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 16:04	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 16:04	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 16:04	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 16:04	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 16:04	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 16:04	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 16:04	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 16:04	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 16:04	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 16:04	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 16:04	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 16:04	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 16:04	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 16:04	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 16:04	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 16:04	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 16:04	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 16:04	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 16:04	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 16:04	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 16:04	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 16:04	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 16:04	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 16:04	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 16:04	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 16:04	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 16:04	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 16:04	WG972710



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 16:04	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 16:04	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 16:04	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 16:04	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 16:04	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 16:04	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 16:04	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 16:04	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 16:04	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 16:04	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 16:04	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 16:04	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 16:04	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 16:04	WG972710
Methyl tert-butyl ether	1.35		0.367	1.00	1	04/21/2017 16:04	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 16:04	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 16:04	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 16:04	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 16:04	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 16:04	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 16:04	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 16:04	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 16:04	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 16:04	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 16:04	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 16:04	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 16:04	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 16:04	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 16:04	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 16:04	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 16:04	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 16:04	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 16:04	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 16:04	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 16:04	WG972710
(S) Toluene-d8	106			80.0-120		04/21/2017 16:04	WG972710
(S) Dibromofluoromethane	104			76.0-123		04/21/2017 16:04	WG972710
(S) 4-Bromofluorobenzene	102			80.0-120		04/21/2017 16:04	WG972710

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	614		49.4	200	2	04/25/2017 15:04	WG973456
(S) o-Terphenyl	81.8			31.0-160		04/25/2017 15:04	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.316	1.00	1	04/25/2017 13:48	WG973471
Acenaphthylene	U		0.309	1.00	1	04/25/2017 13:48	WG973471
Anthracene	U		0.291	1.00	1	04/25/2017 13:48	WG973471
Benzidine	U		4.32	10.0	1	04/25/2017 13:48	WG973471
Benzo(a)anthracene	U		0.0975	1.00	1	04/25/2017 13:48	WG973471
Benzo(b)fluoranthene	U		0.0896	1.00	1	04/25/2017 13:48	WG973471
Benzo(k)fluoranthene	U		0.355	1.00	1	04/25/2017 13:48	WG973471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.161	1.00	1	04/25/2017 13:48	WG973471
Benzo(a)pyrene	U		0.340	1.00	1	04/25/2017 13:48	WG973471
Bis(2-chloroethoxy)methane	U		0.329	10.0	1	04/25/2017 13:48	WG973471
Bis(2-chloroethyl)ether	U		1.62	10.0	1	04/25/2017 13:48	WG973471
Bis(2-chloroisopropyl)ether	U		0.445	10.0	1	04/25/2017 13:48	WG973471
4-Bromophenyl-phenylether	U		0.335	10.0	1	04/25/2017 13:48	WG973471
2-Chloronaphthalene	U		0.330	1.00	1	04/25/2017 13:48	WG973471
4-Chlorophenyl-phenylether	U		0.303	10.0	1	04/25/2017 13:48	WG973471
Chrysene	U		0.332	1.00	1	04/25/2017 13:48	WG973471
Dibenz(a,h)anthracene	U		0.279	1.00	1	04/25/2017 13:48	WG973471
3,3-Dichlorobenzidine	U	J4	2.02	10.0	1	04/25/2017 13:48	WG973471
2,4-Dinitrotoluene	U		1.65	10.0	1	04/25/2017 13:48	WG973471
2,6-Dinitrotoluene	U		0.279	10.0	1	04/25/2017 13:48	WG973471
Fluoranthene	U		0.310	1.00	1	04/25/2017 13:48	WG973471
Fluorene	U		0.323	1.00	1	04/25/2017 13:48	WG973471
Hexachlorobenzene	U		0.341	1.00	1	04/25/2017 13:48	WG973471
Hexachloro-1,3-butadiene	U		0.329	10.0	1	04/25/2017 13:48	WG973471
Hexachlorocyclopentadiene	U		2.33	10.0	1	04/25/2017 13:48	WG973471
Hexachloroethane	U		0.365	10.0	1	04/25/2017 13:48	WG973471
Indeno(1,2,3-cd)pyrene	U		0.279	1.00	1	04/25/2017 13:48	WG973471
Isophorone	U		0.272	10.0	1	04/25/2017 13:48	WG973471
Naphthalene	U		0.372	1.00	1	04/25/2017 13:48	WG973471
Nitrobenzene	U		0.367	10.0	1	04/25/2017 13:48	WG973471
n-Nitrosodimethylamine	U		1.26	10.0	1	04/25/2017 13:48	WG973471
n-Nitrosodiphenylamine	U		0.304	10.0	1	04/25/2017 13:48	WG973471
n-Nitrosodi-n-propylamine	U		0.403	10.0	1	04/25/2017 13:48	WG973471
Phenanthrene	U		0.366	1.00	1	04/25/2017 13:48	WG973471
Benzylbutyl phthalate	U		0.275	3.00	1	04/25/2017 13:48	WG973471
Bis(2-ethylhexyl)phthalate	U		0.709	3.00	1	04/25/2017 13:48	WG973471
Di-n-butyl phthalate	0.537	J	0.266	3.00	1	04/25/2017 13:48	WG973471
Diethyl phthalate	0.377	B J	0.282	3.00	1	04/25/2017 13:48	WG973471
Dimethyl phthalate	U		0.283	3.00	1	04/25/2017 13:48	WG973471
Di-n-octyl phthalate	U		0.278	3.00	1	04/25/2017 13:48	WG973471
Pyrene	U		0.330	1.00	1	04/25/2017 13:48	WG973471
1,2,4-Trichlorobenzene	U		0.355	10.0	1	04/25/2017 13:48	WG973471
4-Chloro-3-methylphenol	U		0.263	10.0	1	04/25/2017 13:48	WG973471
2-Chlorophenol	U		0.283	10.0	1	04/25/2017 13:48	WG973471
2,4-Dichlorophenol	U		0.284	10.0	1	04/25/2017 13:48	WG973471
2,4-Dimethylphenol	U		0.624	10.0	1	04/25/2017 13:48	WG973471
4,6-Dinitro-2-methylphenol	U		2.62	10.0	1	04/25/2017 13:48	WG973471
2,4-Dinitrophenol	U		3.25	10.0	1	04/25/2017 13:48	WG973471
2-Nitrophenol	U		0.320	10.0	1	04/25/2017 13:48	WG973471
4-Nitrophenol	U		2.01	10.0	1	04/25/2017 13:48	WG973471
Pentachlorophenol	U		0.313	10.0	1	04/25/2017 13:48	WG973471
Phenol	U		0.334	10.0	1	04/25/2017 13:48	WG973471
2,4,6-Trichlorophenol	U		0.297	10.0	1	04/25/2017 13:48	WG973471
(S) 2-Fluorophenol	59.8			10.0-120		04/25/2017 13:48	WG973471
(S) Phenol-d5	41.4			10.0-120		04/25/2017 13:48	WG973471
(S) Nitrobenzene-d5	79.9			10.0-126		04/25/2017 13:48	WG973471
(S) 2-Fluorobiphenyl	78.4			22.0-127		04/25/2017 13:48	WG973471
(S) 2,4,6-Tribromophenol	94.1			10.0-153		04/25/2017 13:48	WG973471
(S) p-Terphenyl-d14	88.3			29.0-141		04/25/2017 13:48	WG973471

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 11:16	WG972272

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 13:26	WG972413
Barium,Dissolved	114		1.70	5.00	1	04/21/2017 13:26	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 13:26	WG972413
Chromium,Dissolved	2.91	J	1.40	10.0	1	04/21/2017 13:26	WG972413
Lead,Dissolved	3.76	J	1.90	5.00	1	04/21/2017 13:26	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 13:26	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 13:26	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 16:18	WG972504
(S) a,a,a-Trifluorotoluene(FID) 107				77.0-122		04/21/2017 16:18	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/21/2017 16:18	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 16:18	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 16:18	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 16:18	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 16:18	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 16:18	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 16:18	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 16:18	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 16:18	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 16:18	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 16:18	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 16:18	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 16:18	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 16:18	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 16:18	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 16:18	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 16:18	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 16:18	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 16:18	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 16:18	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 16:18	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 16:18	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 16:18	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 16:18	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 16:18	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 16:18	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 16:18	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 16:18	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 16:18	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 16:18	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 16:18	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 16:18	WG972710

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 16:18	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 16:18	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 16:18	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 16:18	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 16:18	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 16:18	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 16:18	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 16:18	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 16:18	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 16:18	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 16:18	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 16:18	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 16:18	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 16:18	WG972710
Methyl tert-butyl ether	U		0.367	1.00	1	04/21/2017 16:18	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 16:18	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 16:18	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 16:18	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 16:18	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 16:18	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 16:18	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 16:18	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 16:18	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 16:18	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 16:18	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 16:18	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 16:18	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 16:18	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 16:18	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 16:18	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 16:18	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 16:18	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 16:18	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 16:18	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 16:18	WG972710
(S) Toluene-d8	103			80.0-120		04/21/2017 16:18	WG972710
(S) Dibromofluoromethane	105			76.0-123		04/21/2017 16:18	WG972710
(S) 4-Bromofluorobenzene	106			80.0-120		04/21/2017 16:18	WG972710

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

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	195		24.7	100	1	04/25/2017 15:21	WG973456
(S) o-Terphenyl	81.2			31.0-160		04/25/2017 15:21	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.288	0.910	.91	04/21/2017 23:23	WG972495
Acenaphthylene	U		0.281	0.910	.91	04/21/2017 23:23	WG972495
Anthracene	U		0.265	0.910	.91	04/21/2017 23:23	WG972495
Benzidine	U		3.93	9.10	.91	04/21/2017 23:23	WG972495
Benzo(a)anthracene	U		0.0887	0.910	.91	04/21/2017 23:23	WG972495
Benzo(b)fluoranthene	U		0.0815	0.910	.91	04/21/2017 23:23	WG972495
Benzo(k)fluoranthene	U		0.323	0.910	.91	04/21/2017 23:23	WG972495



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.146	0.910	.91	04/21/2017 23:23	WG972495
Benzo(a)pyrene	U		0.309	0.910	.91	04/21/2017 23:23	WG972495
Bis(2-chlorethoxy)methane	U		0.299	9.10	.91	04/21/2017 23:23	WG972495
Bis(2-chloroethyl)ether	U		1.47	9.10	.91	04/21/2017 23:23	WG972495
Bis(2-chloroisopropyl)ether	U		0.405	9.10	.91	04/21/2017 23:23	WG972495
4-Bromophenyl-phenylether	U		0.305	9.10	.91	04/21/2017 23:23	WG972495
2-Chloronaphthalene	U		0.300	0.910	.91	04/21/2017 23:23	WG972495
4-Chlorophenyl-phenylether	U		0.276	9.10	.91	04/21/2017 23:23	WG972495
Chrysene	U		0.302	0.910	.91	04/21/2017 23:23	WG972495
Dibenz(a,h)anthracene	U		0.254	0.910	.91	04/21/2017 23:23	WG972495
3,3-Dichlorobenzidine	U		1.84	9.10	.91	04/21/2017 23:23	WG972495
2,4-Dinitrotoluene	U		1.50	9.10	.91	04/21/2017 23:23	WG972495
2,6-Dinitrotoluene	U		0.254	9.10	.91	04/21/2017 23:23	WG972495
Fluoranthene	U		0.282	0.910	.91	04/21/2017 23:23	WG972495
Fluorene	U		0.294	0.910	.91	04/21/2017 23:23	WG972495
Hexachlorobenzene	U		0.310	0.910	.91	04/21/2017 23:23	WG972495
Hexachloro-1,3-butadiene	U		0.299	9.10	.91	04/21/2017 23:23	WG972495
Hexachlorocyclopentadiene	U		2.12	9.10	.91	04/21/2017 23:23	WG972495
Hexachloroethane	U		0.332	9.10	.91	04/21/2017 23:23	WG972495
Indeno(1,2,3-cd)pyrene	U		0.254	0.910	.91	04/21/2017 23:23	WG972495
Isophorone	U		0.248	9.10	.91	04/21/2017 23:23	WG972495
Naphthalene	U		0.338	0.910	.91	04/21/2017 23:23	WG972495
Nitrobenzene	U		0.334	9.10	.91	04/21/2017 23:23	WG972495
n-Nitrosodimethylamine	U		1.15	9.10	.91	04/21/2017 23:23	WG972495
n-Nitrosodiphenylamine	U		0.277	9.10	.91	04/21/2017 23:23	WG972495
n-Nitrosodi-n-propylamine	U		0.367	9.10	.91	04/21/2017 23:23	WG972495
Phenanthrene	U		0.333	0.910	.91	04/21/2017 23:23	WG972495
Benzylbutyl phthalate	U		0.250	2.73	.91	04/21/2017 23:23	WG972495
Bis(2-ethylhexyl)phthalate	U		0.645	2.73	.91	04/21/2017 23:23	WG972495
Di-n-butyl phthalate	0.796	U	0.242	2.73	.91	04/21/2017 23:23	WG972495
Diethyl phthalate	U		0.257	2.73	.91	04/21/2017 23:23	WG972495
Dimethyl phthalate	U		0.258	2.73	.91	04/21/2017 23:23	WG972495
Di-n-octyl phthalate	U		0.253	2.73	.91	04/21/2017 23:23	WG972495
Pyrene	U		0.300	0.910	.91	04/21/2017 23:23	WG972495
1,2,4-Trichlorobenzene	U		0.323	9.10	.91	04/21/2017 23:23	WG972495
4-Chloro-3-methylphenol	U		0.239	9.10	.91	04/21/2017 23:23	WG972495
2-Chlorophenol	U		0.258	9.10	.91	04/21/2017 23:23	WG972495
2,4-Dichlorophenol	U		0.258	9.10	.91	04/21/2017 23:23	WG972495
2,4-Dimethylphenol	U		0.568	9.10	.91	04/21/2017 23:23	WG972495
4,6-Dinitro-2-methylphenol	U		2.38	9.10	.91	04/21/2017 23:23	WG972495
2,4-Dinitrophenol	U		2.96	9.10	.91	04/21/2017 23:23	WG972495
2-Nitrophenol	U		0.291	9.10	.91	04/21/2017 23:23	WG972495
4-Nitrophenol	U		1.83	9.10	.91	04/21/2017 23:23	WG972495
Pentachlorophenol	U		0.285	9.10	.91	04/21/2017 23:23	WG972495
Phenol	U		0.304	9.10	.91	04/21/2017 23:23	WG972495
2,4,6-Trichlorophenol	U		0.270	9.10	.91	04/21/2017 23:23	WG972495
(S) 2-Fluorophenol	17.8			10.0-120		04/21/2017 23:23	WG972495
(S) Phenol-d5	15.2			10.0-120		04/21/2017 23:23	WG972495
(S) Nitrobenzene-d5	39.9			10.0-126		04/21/2017 23:23	WG972495
(S) 2-Fluorobiphenyl	44.1			22.0-127		04/21/2017 23:23	WG972495
(S) 2,4,6-Tribromophenol	44.6			10.0-153		04/21/2017 23:23	WG972495
(S) p-Terphenyl-d14	64.4			29.0-141		04/21/2017 23:23	WG972495

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 11:18	WG972272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 13:33	WG972413
Barium,Dissolved	155		1.70	5.00	1	04/21/2017 13:33	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 13:33	WG972413
Chromium,Dissolved	2.41	J	1.40	10.0	1	04/21/2017 13:33	WG972413
Lead,Dissolved	2.98	J	1.90	5.00	1	04/21/2017 13:33	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 13:33	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 13:33	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 16:42	WG972504
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-122		04/21/2017 16:42	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/21/2017 16:32	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 16:32	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 16:32	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 16:32	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 16:32	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 16:32	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 16:32	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 16:32	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 16:32	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 16:32	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 16:32	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 16:32	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 16:32	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 16:32	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 16:32	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 16:32	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 16:32	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 16:32	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 16:32	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 16:32	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 16:32	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 16:32	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 16:32	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 16:32	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 16:32	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 16:32	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 16:32	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 16:32	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 16:32	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 16:32	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 16:32	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 16:32	WG972710



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 16:32	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 16:32	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 16:32	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 16:32	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 16:32	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 16:32	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 16:32	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 16:32	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 16:32	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 16:32	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 16:32	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 16:32	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 16:32	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 16:32	WG972710
Methyl tert-butyl ether	U		0.367	1.00	1	04/21/2017 16:32	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 16:32	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 16:32	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 16:32	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 16:32	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 16:32	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 16:32	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 16:32	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 16:32	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 16:32	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 16:32	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 16:32	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 16:32	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 16:32	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 16:32	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 16:32	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 16:32	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 16:32	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 16:32	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 16:32	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 16:32	WG972710
(S) Toluene-d8	104			80.0-120		04/21/2017 16:32	WG972710
(S) Dibromofluoromethane	105			76.0-123		04/21/2017 16:32	WG972710
(S) 4-Bromofluorobenzene	102			80.0-120		04/21/2017 16:32	WG972710

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

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	163		24.7	100	1	04/25/2017 15:38	WG973456
(S) o-Terphenyl	79.9			31.0-160		04/25/2017 15:38	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.316	1.00	1	04/25/2017 14:12	WG973471
Acenaphthylene	U		0.309	1.00	1	04/25/2017 14:12	WG973471
Anthracene	U		0.291	1.00	1	04/25/2017 14:12	WG973471
Benzidine	U		4.32	10.0	1	04/25/2017 14:12	WG973471
Benzo(a)anthracene	U		0.0975	1.00	1	04/25/2017 14:12	WG973471
Benzo(b)fluoranthene	U		0.0896	1.00	1	04/25/2017 14:12	WG973471
Benzo(k)fluoranthene	U		0.355	1.00	1	04/25/2017 14:12	WG973471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.161	1.00	1	04/25/2017 14:12	WG973471
Benzo(a)pyrene	U		0.340	1.00	1	04/25/2017 14:12	WG973471
Bis(2-chlorethoxy)methane	U		0.329	10.0	1	04/25/2017 14:12	WG973471
Bis(2-chloroethyl)ether	U		1.62	10.0	1	04/25/2017 14:12	WG973471
Bis(2-chloroisopropyl)ether	U		0.445	10.0	1	04/25/2017 14:12	WG973471
4-Bromophenyl-phenylether	U		0.335	10.0	1	04/25/2017 14:12	WG973471
2-Chloronaphthalene	U		0.330	1.00	1	04/25/2017 14:12	WG973471
4-Chlorophenyl-phenylether	U		0.303	10.0	1	04/25/2017 14:12	WG973471
Chrysene	U		0.332	1.00	1	04/25/2017 14:12	WG973471
Dibenz(a,h)anthracene	U		0.279	1.00	1	04/25/2017 14:12	WG973471
3,3-Dichlorobenzidine	U	J4	2.02	10.0	1	04/25/2017 14:12	WG973471
2,4-Dinitrotoluene	U		1.65	10.0	1	04/25/2017 14:12	WG973471
2,6-Dinitrotoluene	U		0.279	10.0	1	04/25/2017 14:12	WG973471
Fluoranthene	U		0.310	1.00	1	04/25/2017 14:12	WG973471
Fluorene	U		0.323	1.00	1	04/25/2017 14:12	WG973471
Hexachlorobenzene	U		0.341	1.00	1	04/25/2017 14:12	WG973471
Hexachloro-1,3-butadiene	U		0.329	10.0	1	04/25/2017 14:12	WG973471
Hexachlorocyclopentadiene	U		2.33	10.0	1	04/25/2017 14:12	WG973471
Hexachloroethane	U		0.365	10.0	1	04/25/2017 14:12	WG973471
Indeno(1,2,3-cd)pyrene	U		0.279	1.00	1	04/25/2017 14:12	WG973471
Isophorone	U		0.272	10.0	1	04/25/2017 14:12	WG973471
Naphthalene	U		0.372	1.00	1	04/25/2017 14:12	WG973471
Nitrobenzene	U		0.367	10.0	1	04/25/2017 14:12	WG973471
n-Nitrosodimethylamine	U		1.26	10.0	1	04/25/2017 14:12	WG973471
n-Nitrosodiphenylamine	U		0.304	10.0	1	04/25/2017 14:12	WG973471
n-Nitrosodi-n-propylamine	U		0.403	10.0	1	04/25/2017 14:12	WG973471
Phenanthrene	U		0.366	1.00	1	04/25/2017 14:12	WG973471
Benzylbutyl phthalate	U		0.275	3.00	1	04/25/2017 14:12	WG973471
Bis(2-ethylhexyl)phthalate	U		0.709	3.00	1	04/25/2017 14:12	WG973471
Di-n-butyl phthalate	0.628	J	0.266	3.00	1	04/25/2017 14:12	WG973471
Diethyl phthalate	0.333	B J	0.282	3.00	1	04/25/2017 14:12	WG973471
Dimethyl phthalate	U		0.283	3.00	1	04/25/2017 14:12	WG973471
Di-n-octyl phthalate	U		0.278	3.00	1	04/25/2017 14:12	WG973471
Pyrene	U		0.330	1.00	1	04/25/2017 14:12	WG973471
1,2,4-Trichlorobenzene	U		0.355	10.0	1	04/25/2017 14:12	WG973471
4-Chloro-3-methylphenol	U		0.263	10.0	1	04/25/2017 14:12	WG973471
2-Chlorophenol	U		0.283	10.0	1	04/25/2017 14:12	WG973471
2,4-Dichlorophenol	U		0.284	10.0	1	04/25/2017 14:12	WG973471
2,4-Dimethylphenol	U		0.624	10.0	1	04/25/2017 14:12	WG973471
4,6-Dinitro-2-methylphenol	U		2.62	10.0	1	04/25/2017 14:12	WG973471
2,4-Dinitrophenol	U		3.25	10.0	1	04/25/2017 14:12	WG973471
2-Nitrophenol	U		0.320	10.0	1	04/25/2017 14:12	WG973471
4-Nitrophenol	U		2.01	10.0	1	04/25/2017 14:12	WG973471
Pentachlorophenol	U		0.313	10.0	1	04/25/2017 14:12	WG973471
Phenol	U		0.334	10.0	1	04/25/2017 14:12	WG973471
2,4,6-Trichlorophenol	U		0.297	10.0	1	04/25/2017 14:12	WG973471
(S) 2-Fluorophenol	80.8			10.0-120		04/25/2017 14:12	WG973471
(S) Phenol-d5	54.2			10.0-120		04/25/2017 14:12	WG973471
(S) Nitrobenzene-d5	95.5			10.0-126		04/25/2017 14:12	WG973471
(S) 2-Fluorobiphenyl	103			22.0-127		04/25/2017 14:12	WG973471
(S) 2,4,6-Tribromophenol	128			10.0-153		04/25/2017 14:12	WG973471
(S) p-Terphenyl-d14	115			29.0-141		04/25/2017 14:12	WG973471

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 11:21	WG972272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 13:38	WG972413
Barium,Dissolved	200		1.70	5.00	1	04/21/2017 13:38	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 13:38	WG972413
Chromium,Dissolved	2.04	J	1.40	10.0	1	04/21/2017 13:38	WG972413
Lead,Dissolved	3.64	J	1.90	5.00	1	04/21/2017 13:38	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 13:38	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 13:38	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 17:05	WG972504
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-122		04/21/2017 17:05	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/21/2017 16:47	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 16:47	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 16:47	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 16:47	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 16:47	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 16:47	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 16:47	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 16:47	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 16:47	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 16:47	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 16:47	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 16:47	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 16:47	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 16:47	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 16:47	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 16:47	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 16:47	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 16:47	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 16:47	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 16:47	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 16:47	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 16:47	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 16:47	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 16:47	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 16:47	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 16:47	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 16:47	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 16:47	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 16:47	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 16:47	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 16:47	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 16:47	WG972710



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 16:47	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 16:47	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 16:47	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 16:47	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 16:47	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 16:47	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 16:47	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 16:47	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 16:47	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 16:47	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 16:47	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 16:47	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 16:47	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 16:47	WG972710
Methyl tert-butyl ether	U		0.367	1.00	1	04/21/2017 16:47	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 16:47	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 16:47	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 16:47	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 16:47	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 16:47	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 16:47	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 16:47	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 16:47	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 16:47	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 16:47	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 16:47	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 16:47	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 16:47	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 16:47	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 16:47	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 16:47	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 16:47	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 16:47	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 16:47	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 16:47	WG972710
(S) Toluene-d8	104			80.0-120		04/21/2017 16:47	WG972710
(S) Dibromofluoromethane	102			76.0-123		04/21/2017 16:47	WG972710
(S) 4-Bromofluorobenzene	101			80.0-120		04/21/2017 16:47	WG972710

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

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	164		24.7	100	1	04/25/2017 15:55	WG973456
(S) o-Terphenyl	83.7			31.0-160		04/25/2017 15:55	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.316	1.00	1	04/25/2017 14:35	WG973471
Acenaphthylene	U		0.309	1.00	1	04/25/2017 14:35	WG973471
Anthracene	U		0.291	1.00	1	04/25/2017 14:35	WG973471
Benzidine	U		4.32	10.0	1	04/25/2017 14:35	WG973471
Benzo(a)anthracene	U		0.0975	1.00	1	04/25/2017 14:35	WG973471
Benzo(b)fluoranthene	U		0.0896	1.00	1	04/25/2017 14:35	WG973471
Benzo(k)fluoranthene	U		0.355	1.00	1	04/25/2017 14:35	WG973471



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.161	1.00	1	04/25/2017 14:35	WG973471
Benzo(a)pyrene	U		0.340	1.00	1	04/25/2017 14:35	WG973471
Bis(2-chlorethoxy)methane	U		0.329	10.0	1	04/25/2017 14:35	WG973471
Bis(2-chloroethyl)ether	U		1.62	10.0	1	04/25/2017 14:35	WG973471
Bis(2-chloroisopropyl)ether	U		0.445	10.0	1	04/25/2017 14:35	WG973471
4-Bromophenyl-phenylether	U		0.335	10.0	1	04/25/2017 14:35	WG973471
2-Chloronaphthalene	U		0.330	1.00	1	04/25/2017 14:35	WG973471
4-Chlorophenyl-phenylether	U		0.303	10.0	1	04/25/2017 14:35	WG973471
Chrysene	U		0.332	1.00	1	04/25/2017 14:35	WG973471
Dibenz(a,h)anthracene	U		0.279	1.00	1	04/25/2017 14:35	WG973471
3,3-Dichlorobenzidine	U	J4	2.02	10.0	1	04/25/2017 14:35	WG973471
2,4-Dinitrotoluene	U		1.65	10.0	1	04/25/2017 14:35	WG973471
2,6-Dinitrotoluene	U		0.279	10.0	1	04/25/2017 14:35	WG973471
Fluoranthene	U		0.310	1.00	1	04/25/2017 14:35	WG973471
Fluorene	U		0.323	1.00	1	04/25/2017 14:35	WG973471
Hexachlorobenzene	U		0.341	1.00	1	04/25/2017 14:35	WG973471
Hexachloro-1,3-butadiene	U		0.329	10.0	1	04/25/2017 14:35	WG973471
Hexachlorocyclopentadiene	U		2.33	10.0	1	04/25/2017 14:35	WG973471
Hexachloroethane	U		0.365	10.0	1	04/25/2017 14:35	WG973471
Indeno(1,2,3-cd)pyrene	U		0.279	1.00	1	04/25/2017 14:35	WG973471
Isophorone	U		0.272	10.0	1	04/25/2017 14:35	WG973471
Naphthalene	U		0.372	1.00	1	04/25/2017 14:35	WG973471
Nitrobenzene	U		0.367	10.0	1	04/25/2017 14:35	WG973471
n-Nitrosodimethylamine	U		1.26	10.0	1	04/25/2017 14:35	WG973471
n-Nitrosodiphenylamine	U		0.304	10.0	1	04/25/2017 14:35	WG973471
n-Nitrosodi-n-propylamine	U		0.403	10.0	1	04/25/2017 14:35	WG973471
Phenanthrene	U		0.366	1.00	1	04/25/2017 14:35	WG973471
Benzylbutyl phthalate	U		0.275	3.00	1	04/25/2017 14:35	WG973471
Bis(2-ethylhexyl)phthalate	U		0.709	3.00	1	04/25/2017 14:35	WG973471
Di-n-butyl phthalate	1.25	J	0.266	3.00	1	04/25/2017 14:35	WG973471
Diethyl phthalate	0.335	B J	0.282	3.00	1	04/25/2017 14:35	WG973471
Dimethyl phthalate	U		0.283	3.00	1	04/25/2017 14:35	WG973471
Di-n-octyl phthalate	U		0.278	3.00	1	04/25/2017 14:35	WG973471
Pyrene	U		0.330	1.00	1	04/25/2017 14:35	WG973471
1,2,4-Trichlorobenzene	U		0.355	10.0	1	04/25/2017 14:35	WG973471
4-Chloro-3-methylphenol	U		0.263	10.0	1	04/25/2017 14:35	WG973471
2-Chlorophenol	U		0.283	10.0	1	04/25/2017 14:35	WG973471
2,4-Dichlorophenol	U		0.284	10.0	1	04/25/2017 14:35	WG973471
2,4-Dimethylphenol	U		0.624	10.0	1	04/25/2017 14:35	WG973471
4,6-Dinitro-2-methylphenol	U		2.62	10.0	1	04/25/2017 14:35	WG973471
2,4-Dinitrophenol	U		3.25	10.0	1	04/25/2017 14:35	WG973471
2-Nitrophenol	U		0.320	10.0	1	04/25/2017 14:35	WG973471
4-Nitrophenol	U		2.01	10.0	1	04/25/2017 14:35	WG973471
Pentachlorophenol	U		0.313	10.0	1	04/25/2017 14:35	WG973471
Phenol	U		0.334	10.0	1	04/25/2017 14:35	WG973471
2,4,6-Trichlorophenol	U		0.297	10.0	1	04/25/2017 14:35	WG973471
(S) 2-Fluorophenol	66.1			10.0-120		04/25/2017 14:35	WG973471
(S) Phenol-d5	47.9			10.0-120		04/25/2017 14:35	WG973471
(S) Nitrobenzene-d5	87.2			10.0-126		04/25/2017 14:35	WG973471
(S) 2-Fluorobiphenyl	86.9			22.0-127		04/25/2017 14:35	WG973471
(S) 2,4,6-Tribromophenol	112			10.0-153		04/25/2017 14:35	WG973471
(S) p-Terphenyl-d14	105			29.0-141		04/25/2017 14:35	WG973471

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 11:23	WG972272

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 13:41	WG972413
Barium,Dissolved	137		1.70	5.00	1	04/21/2017 13:41	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 13:41	WG972413
Chromium,Dissolved	2.49	J	1.40	10.0	1	04/21/2017 13:41	WG972413
Lead,Dissolved	4.58	J	1.90	5.00	1	04/21/2017 13:41	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 13:41	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 13:41	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 17:29	WG972504
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-122		04/21/2017 17:29	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/21/2017 17:01	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 17:01	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 17:01	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 17:01	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 17:01	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 17:01	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 17:01	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 17:01	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 17:01	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 17:01	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 17:01	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 17:01	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 17:01	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 17:01	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 17:01	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 17:01	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 17:01	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 17:01	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 17:01	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 17:01	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 17:01	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 17:01	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 17:01	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 17:01	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 17:01	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 17:01	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 17:01	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 17:01	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 17:01	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 17:01	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 17:01	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 17:01	WG972710

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 17:01	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 17:01	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 17:01	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 17:01	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 17:01	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 17:01	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 17:01	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 17:01	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 17:01	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 17:01	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 17:01	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 17:01	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 17:01	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 17:01	WG972710
Methyl tert-butyl ether	U		0.367	1.00	1	04/21/2017 17:01	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 17:01	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 17:01	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 17:01	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 17:01	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 17:01	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 17:01	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 17:01	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 17:01	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 17:01	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 17:01	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 17:01	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 17:01	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 17:01	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 17:01	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 17:01	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 17:01	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 17:01	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 17:01	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 17:01	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 17:01	WG972710
(S) Toluene-d8	105			80.0-120		04/21/2017 17:01	WG972710
(S) Dibromofluoromethane	99.5			76.0-123		04/21/2017 17:01	WG972710
(S) 4-Bromofluorobenzene	101			80.0-120		04/21/2017 17:01	WG972710

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

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	210		24.7	100	1	04/25/2017 16:12	WG973456
(S) o-Terphenyl	80.7			31.0-160		04/25/2017 16:12	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.288	0.910	.91	04/22/2017 00:33	WG972495
Acenaphthylene	U		0.281	0.910	.91	04/22/2017 00:33	WG972495
Anthracene	U		0.265	0.910	.91	04/22/2017 00:33	WG972495
Benzidine	U		3.93	9.10	.91	04/22/2017 00:33	WG972495
Benzo(a)anthracene	U		0.0887	0.910	.91	04/22/2017 00:33	WG972495
Benzo(b)fluoranthene	U		0.0815	0.910	.91	04/22/2017 00:33	WG972495
Benzo(k)fluoranthene	U		0.323	0.910	.91	04/22/2017 00:33	WG972495



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.146	0.910	.91	04/22/2017 00:33	WG972495
Benzo(a)pyrene	U		0.309	0.910	.91	04/22/2017 00:33	WG972495
Bis(2-chlorethoxy)methane	U		0.299	9.10	.91	04/22/2017 00:33	WG972495
Bis(2-chloroethyl)ether	U		1.47	9.10	.91	04/22/2017 00:33	WG972495
Bis(2-chloroisopropyl)ether	U		0.405	9.10	.91	04/22/2017 00:33	WG972495
4-Bromophenyl-phenylether	U		0.305	9.10	.91	04/22/2017 00:33	WG972495
2-Chloronaphthalene	U		0.300	0.910	.91	04/22/2017 00:33	WG972495
4-Chlorophenyl-phenylether	U		0.276	9.10	.91	04/22/2017 00:33	WG972495
Chrysene	U		0.302	0.910	.91	04/22/2017 00:33	WG972495
Dibenz(a,h)anthracene	U		0.254	0.910	.91	04/22/2017 00:33	WG972495
3,3-Dichlorobenzidine	U		1.84	9.10	.91	04/22/2017 00:33	WG972495
2,4-Dinitrotoluene	U		1.50	9.10	.91	04/22/2017 00:33	WG972495
2,6-Dinitrotoluene	U		0.254	9.10	.91	04/22/2017 00:33	WG972495
Fluoranthene	U		0.282	0.910	.91	04/22/2017 00:33	WG972495
Fluorene	U		0.294	0.910	.91	04/22/2017 00:33	WG972495
Hexachlorobenzene	U		0.310	0.910	.91	04/22/2017 00:33	WG972495
Hexachloro-1,3-butadiene	U		0.299	9.10	.91	04/22/2017 00:33	WG972495
Hexachlorocyclopentadiene	U		2.12	9.10	.91	04/22/2017 00:33	WG972495
Hexachloroethane	U		0.332	9.10	.91	04/22/2017 00:33	WG972495
Indeno(1,2,3-cd)pyrene	U		0.254	0.910	.91	04/22/2017 00:33	WG972495
Isophorone	U		0.248	9.10	.91	04/22/2017 00:33	WG972495
Naphthalene	U		0.338	0.910	.91	04/22/2017 00:33	WG972495
Nitrobenzene	U		0.334	9.10	.91	04/22/2017 00:33	WG972495
n-Nitrosodimethylamine	U		1.15	9.10	.91	04/22/2017 00:33	WG972495
n-Nitrosodiphenylamine	U		0.277	9.10	.91	04/22/2017 00:33	WG972495
n-Nitrosodi-n-propylamine	U		0.367	9.10	.91	04/22/2017 00:33	WG972495
Phenanthrene	U		0.333	0.910	.91	04/22/2017 00:33	WG972495
Benzylbutyl phthalate	U		0.250	2.73	.91	04/22/2017 00:33	WG972495
Bis(2-ethylhexyl)phthalate	U		0.645	2.73	.91	04/22/2017 00:33	WG972495
Di-n-butyl phthalate	0.430	U	0.242	2.73	.91	04/22/2017 00:33	WG972495
Diethyl phthalate	U		0.257	2.73	.91	04/22/2017 00:33	WG972495
Dimethyl phthalate	U		0.258	2.73	.91	04/22/2017 00:33	WG972495
Di-n-octyl phthalate	U		0.253	2.73	.91	04/22/2017 00:33	WG972495
Pyrene	U		0.300	0.910	.91	04/22/2017 00:33	WG972495
1,2,4-Trichlorobenzene	U		0.323	9.10	.91	04/22/2017 00:33	WG972495
4-Chloro-3-methylphenol	U		0.239	9.10	.91	04/22/2017 00:33	WG972495
2-Chlorophenol	U		0.258	9.10	.91	04/22/2017 00:33	WG972495
2,4-Dichlorophenol	U		0.258	9.10	.91	04/22/2017 00:33	WG972495
2,4-Dimethylphenol	U		0.568	9.10	.91	04/22/2017 00:33	WG972495
4,6-Dinitro-2-methylphenol	U		2.38	9.10	.91	04/22/2017 00:33	WG972495
2,4-Dinitrophenol	U		2.96	9.10	.91	04/22/2017 00:33	WG972495
2-Nitrophenol	U		0.291	9.10	.91	04/22/2017 00:33	WG972495
4-Nitrophenol	U		1.83	9.10	.91	04/22/2017 00:33	WG972495
Pentachlorophenol	U		0.285	9.10	.91	04/22/2017 00:33	WG972495
Phenol	U		0.304	9.10	.91	04/22/2017 00:33	WG972495
2,4,6-Trichlorophenol	U		0.270	9.10	.91	04/22/2017 00:33	WG972495
(S) 2-Fluorophenol	26.3			10.0-120		04/22/2017 00:33	WG972495
(S) Phenol-d5	19.5			10.0-120		04/22/2017 00:33	WG972495
(S) Nitrobenzene-d5	60.6			10.0-126		04/22/2017 00:33	WG972495
(S) 2-Fluorobiphenyl	60.7			22.0-127		04/22/2017 00:33	WG972495
(S) 2,4,6-Tribromophenol	54.9			10.0-153		04/22/2017 00:33	WG972495
(S) p-Terphenyl-d14	74.6			29.0-141		04/22/2017 00:33	WG972495

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 11:25	WG972272

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 13:44	WG972413
Barium,Dissolved	99.7		1.70	5.00	1	04/21/2017 13:44	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 13:44	WG972413
Chromium,Dissolved	1.48	J	1.40	10.0	1	04/21/2017 13:44	WG972413
Lead,Dissolved	2.30	J	1.90	5.00	1	04/21/2017 13:44	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 13:44	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 13:44	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 17:58	WG972504
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-122		04/21/2017 17:58	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/21/2017 17:15	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 17:15	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 17:15	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 17:15	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 17:15	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 17:15	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 17:15	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 17:15	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 17:15	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 17:15	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 17:15	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 17:15	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 17:15	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 17:15	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 17:15	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 17:15	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 17:15	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 17:15	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 17:15	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 17:15	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 17:15	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 17:15	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 17:15	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 17:15	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 17:15	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 17:15	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 17:15	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 17:15	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 17:15	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 17:15	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 17:15	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 17:15	WG972710



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 17:15	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 17:15	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 17:15	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 17:15	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 17:15	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 17:15	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 17:15	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 17:15	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 17:15	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 17:15	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 17:15	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 17:15	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 17:15	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 17:15	WG972710
Methyl tert-butyl ether	U		0.367	1.00	1	04/21/2017 17:15	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 17:15	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 17:15	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 17:15	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 17:15	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 17:15	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 17:15	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 17:15	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 17:15	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 17:15	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 17:15	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 17:15	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 17:15	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 17:15	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 17:15	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 17:15	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 17:15	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 17:15	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 17:15	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 17:15	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 17:15	WG972710
(S) Toluene-d8	105			80.0-120		04/21/2017 17:15	WG972710
(S) Dibromofluoromethane	102			76.0-123		04/21/2017 17:15	WG972710
(S) 4-Bromofluorobenzene	105			80.0-120		04/21/2017 17:15	WG972710

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

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	117		24.7	100	1	04/25/2017 16:29	WG973456
(S) o-Terphenyl	77.3			31.0-160		04/25/2017 16:29	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.288	0.910	.91	04/22/2017 00:56	WG972495
Acenaphthylene	U		0.281	0.910	.91	04/22/2017 00:56	WG972495
Anthracene	U		0.265	0.910	.91	04/22/2017 00:56	WG972495
Benzidine	U		3.93	9.10	.91	04/22/2017 00:56	WG972495
Benzo(a)anthracene	U		0.0887	0.910	.91	04/22/2017 00:56	WG972495
Benzo(b)fluoranthene	U		0.0815	0.910	.91	04/22/2017 00:56	WG972495
Benzo(k)fluoranthene	U		0.323	0.910	.91	04/22/2017 00:56	WG972495



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.146	0.910	.91	04/22/2017 00:56	WG972495
Benzo(a)pyrene	U		0.309	0.910	.91	04/22/2017 00:56	WG972495
Bis(2-chlorethoxy)methane	U		0.299	9.10	.91	04/22/2017 00:56	WG972495
Bis(2-chloroethyl)ether	U		1.47	9.10	.91	04/22/2017 00:56	WG972495
Bis(2-chloroisopropyl)ether	U		0.405	9.10	.91	04/22/2017 00:56	WG972495
4-Bromophenyl-phenylether	U		0.305	9.10	.91	04/22/2017 00:56	WG972495
2-Chloronaphthalene	U		0.300	0.910	.91	04/22/2017 00:56	WG972495
4-Chlorophenyl-phenylether	U		0.276	9.10	.91	04/22/2017 00:56	WG972495
Chrysene	U		0.302	0.910	.91	04/22/2017 00:56	WG972495
Dibenz(a,h)anthracene	U		0.254	0.910	.91	04/22/2017 00:56	WG972495
3,3-Dichlorobenzidine	U		1.84	9.10	.91	04/22/2017 00:56	WG972495
2,4-Dinitrotoluene	U		1.50	9.10	.91	04/22/2017 00:56	WG972495
2,6-Dinitrotoluene	U		0.254	9.10	.91	04/22/2017 00:56	WG972495
Fluoranthene	U		0.282	0.910	.91	04/22/2017 00:56	WG972495
Fluorene	U		0.294	0.910	.91	04/22/2017 00:56	WG972495
Hexachlorobenzene	U		0.310	0.910	.91	04/22/2017 00:56	WG972495
Hexachloro-1,3-butadiene	U		0.299	9.10	.91	04/22/2017 00:56	WG972495
Hexachlorocyclopentadiene	U		2.12	9.10	.91	04/22/2017 00:56	WG972495
Hexachloroethane	U		0.332	9.10	.91	04/22/2017 00:56	WG972495
Indeno(1,2,3-cd)pyrene	U		0.254	0.910	.91	04/22/2017 00:56	WG972495
Isophorone	U		0.248	9.10	.91	04/22/2017 00:56	WG972495
Naphthalene	U		0.338	0.910	.91	04/22/2017 00:56	WG972495
Nitrobenzene	U		0.334	9.10	.91	04/22/2017 00:56	WG972495
n-Nitrosodimethylamine	U		1.15	9.10	.91	04/22/2017 00:56	WG972495
n-Nitrosodiphenylamine	U		0.277	9.10	.91	04/22/2017 00:56	WG972495
n-Nitrosodi-n-propylamine	U		0.367	9.10	.91	04/22/2017 00:56	WG972495
Phenanthrene	U		0.333	0.910	.91	04/22/2017 00:56	WG972495
Benzylbutyl phthalate	U		0.250	2.73	.91	04/22/2017 00:56	WG972495
Bis(2-ethylhexyl)phthalate	U		0.645	2.73	.91	04/22/2017 00:56	WG972495
Di-n-butyl phthalate	0.556	U	0.242	2.73	.91	04/22/2017 00:56	WG972495
Diethyl phthalate	U		0.257	2.73	.91	04/22/2017 00:56	WG972495
Dimethyl phthalate	U		0.258	2.73	.91	04/22/2017 00:56	WG972495
Di-n-octyl phthalate	U		0.253	2.73	.91	04/22/2017 00:56	WG972495
Pyrene	U		0.300	0.910	.91	04/22/2017 00:56	WG972495
1,2,4-Trichlorobenzene	U		0.323	9.10	.91	04/22/2017 00:56	WG972495
4-Chloro-3-methylphenol	U		0.239	9.10	.91	04/22/2017 00:56	WG972495
2-Chlorophenol	U		0.258	9.10	.91	04/22/2017 00:56	WG972495
2,4-Dichlorophenol	U		0.258	9.10	.91	04/22/2017 00:56	WG972495
2,4-Dimethylphenol	U		0.568	9.10	.91	04/22/2017 00:56	WG972495
4,6-Dinitro-2-methylphenol	U		2.38	9.10	.91	04/22/2017 00:56	WG972495
2,4-Dinitrophenol	U		2.96	9.10	.91	04/22/2017 00:56	WG972495
2-Nitrophenol	U		0.291	9.10	.91	04/22/2017 00:56	WG972495
4-Nitrophenol	U		1.83	9.10	.91	04/22/2017 00:56	WG972495
Pentachlorophenol	U		0.285	9.10	.91	04/22/2017 00:56	WG972495
Phenol	U		0.304	9.10	.91	04/22/2017 00:56	WG972495
2,4,6-Trichlorophenol	U		0.270	9.10	.91	04/22/2017 00:56	WG972495
(S) 2-Fluorophenol	25.0			10.0-120		04/22/2017 00:56	WG972495
(S) Phenol-d5	18.0			10.0-120		04/22/2017 00:56	WG972495
(S) Nitrobenzene-d5	68.2			10.0-126		04/22/2017 00:56	WG972495
(S) 2-Fluorobiphenyl	68.2			22.0-127		04/22/2017 00:56	WG972495
(S) 2,4,6-Tribromophenol	60.2			10.0-153		04/22/2017 00:56	WG972495
(S) p-Terphenyl-d14	85.4			29.0-141		04/22/2017 00:56	WG972495

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury,Dissolved	U		0.0490	0.200	1	04/21/2017 11:27	WG972272

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic,Dissolved	U		6.50	10.0	1	04/21/2017 13:47	WG972413
Barium,Dissolved	260		1.70	5.00	1	04/21/2017 13:47	WG972413
Cadmium,Dissolved	U		0.700	2.00	1	04/21/2017 13:47	WG972413
Chromium,Dissolved	1.60	J	1.40	10.0	1	04/21/2017 13:47	WG972413
Lead,Dissolved	2.01	J	1.90	5.00	1	04/21/2017 13:47	WG972413
Selenium,Dissolved	U		7.40	10.0	1	04/21/2017 13:47	WG972413
Silver,Dissolved	U		2.80	5.00	1	04/21/2017 13:47	WG972413

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.4	100	1	04/21/2017 18:22	WG972504
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-122		04/21/2017 18:22	WG972504

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/21/2017 17:29	WG972710
Acrolein	U		8.87	50.0	1	04/21/2017 17:29	WG972710
Acrylonitrile	U		1.87	10.0	1	04/21/2017 17:29	WG972710
Benzene	U		0.331	1.00	1	04/21/2017 17:29	WG972710
Bromobenzene	U		0.352	1.00	1	04/21/2017 17:29	WG972710
Bromodichloromethane	U		0.380	1.00	1	04/21/2017 17:29	WG972710
Bromoform	U		0.469	1.00	1	04/21/2017 17:29	WG972710
Bromomethane	U		0.866	5.00	1	04/21/2017 17:29	WG972710
n-Butylbenzene	U		0.361	1.00	1	04/21/2017 17:29	WG972710
sec-Butylbenzene	U		0.365	1.00	1	04/21/2017 17:29	WG972710
tert-Butylbenzene	U		0.399	1.00	1	04/21/2017 17:29	WG972710
Carbon tetrachloride	U		0.379	1.00	1	04/21/2017 17:29	WG972710
Chlorobenzene	U		0.348	1.00	1	04/21/2017 17:29	WG972710
Chlorodibromomethane	U		0.327	1.00	1	04/21/2017 17:29	WG972710
Chloroethane	U		0.453	5.00	1	04/21/2017 17:29	WG972710
2-Chloroethyl vinyl ether	U		3.01	50.0	1	04/21/2017 17:29	WG972710
Chloroform	U		0.324	5.00	1	04/21/2017 17:29	WG972710
Chloromethane	U		0.276	2.50	1	04/21/2017 17:29	WG972710
2-Chlorotoluene	U		0.375	1.00	1	04/21/2017 17:29	WG972710
4-Chlorotoluene	U		0.351	1.00	1	04/21/2017 17:29	WG972710
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/21/2017 17:29	WG972710
1,2-Dibromoethane	U		0.381	1.00	1	04/21/2017 17:29	WG972710
Dibromomethane	U		0.346	1.00	1	04/21/2017 17:29	WG972710
1,2-Dichlorobenzene	U		0.349	1.00	1	04/21/2017 17:29	WG972710
1,3-Dichlorobenzene	U		0.220	1.00	1	04/21/2017 17:29	WG972710
1,4-Dichlorobenzene	U		0.274	1.00	1	04/21/2017 17:29	WG972710
Dichlorodifluoromethane	U		0.551	5.00	1	04/21/2017 17:29	WG972710
1,1-Dichloroethane	U		0.259	1.00	1	04/21/2017 17:29	WG972710
1,2-Dichloroethane	U		0.361	1.00	1	04/21/2017 17:29	WG972710
1,1-Dichloroethene	U		0.398	1.00	1	04/21/2017 17:29	WG972710
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/21/2017 17:29	WG972710
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/21/2017 17:29	WG972710

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloropropane	U		0.306	1.00	1	04/21/2017 17:29	WG972710
1,1-Dichloropropene	U		0.352	1.00	1	04/21/2017 17:29	WG972710
1,3-Dichloropropane	U		0.366	1.00	1	04/21/2017 17:29	WG972710
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/21/2017 17:29	WG972710
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/21/2017 17:29	WG972710
2,2-Dichloropropane	U		0.321	1.00	1	04/21/2017 17:29	WG972710
Di-isopropyl ether	U		0.320	1.00	1	04/21/2017 17:29	WG972710
Ethylbenzene	U		0.384	1.00	1	04/21/2017 17:29	WG972710
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/21/2017 17:29	WG972710
Isopropylbenzene	U		0.326	1.00	1	04/21/2017 17:29	WG972710
p-Isopropyltoluene	U		0.350	1.00	1	04/21/2017 17:29	WG972710
2-Butanone (MEK)	U		3.93	10.0	1	04/21/2017 17:29	WG972710
Methylene Chloride	U		1.00	5.00	1	04/21/2017 17:29	WG972710
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/21/2017 17:29	WG972710
Methyl tert-butyl ether	2.08		0.367	1.00	1	04/21/2017 17:29	WG972710
Naphthalene	U		1.00	5.00	1	04/21/2017 17:29	WG972710
n-Propylbenzene	U		0.349	1.00	1	04/21/2017 17:29	WG972710
Styrene	U		0.307	1.00	1	04/21/2017 17:29	WG972710
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/21/2017 17:29	WG972710
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/21/2017 17:29	WG972710
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/21/2017 17:29	WG972710
Tetrachloroethene	U		0.372	1.00	1	04/21/2017 17:29	WG972710
Toluene	U		0.412	1.00	1	04/21/2017 17:29	WG972710
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/21/2017 17:29	WG972710
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/21/2017 17:29	WG972710
1,1,1-Trichloroethane	U		0.319	1.00	1	04/21/2017 17:29	WG972710
1,1,2-Trichloroethane	U		0.383	1.00	1	04/21/2017 17:29	WG972710
Trichloroethene	U		0.398	1.00	1	04/21/2017 17:29	WG972710
Trichlorofluoromethane	U		1.20	5.00	1	04/21/2017 17:29	WG972710
1,2,3-Trichloropropane	U		0.807	2.50	1	04/21/2017 17:29	WG972710
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/21/2017 17:29	WG972710
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/21/2017 17:29	WG972710
1,3,5-Trimethylbenzene	U		0.387	1.00	1	04/21/2017 17:29	WG972710
Vinyl chloride	U		0.259	1.00	1	04/21/2017 17:29	WG972710
Xylenes, Total	U		1.06	3.00	1	04/21/2017 17:29	WG972710
(S) Toluene-d8	106			80.0-120		04/21/2017 17:29	WG972710
(S) Dibromofluoromethane	104			76.0-123		04/21/2017 17:29	WG972710
(S) 4-Bromofluorobenzene	102			80.0-120		04/21/2017 17:29	WG972710

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

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	140		24.7	100	1	04/25/2017 16:46	WG973456
(S) o-Terphenyl	80.0			31.0-160		04/25/2017 16:46	WG973456

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.288	0.910	.91	04/22/2017 01:19	WG972495
Acenaphthylene	U		0.281	0.910	.91	04/22/2017 01:19	WG972495
Anthracene	U		0.265	0.910	.91	04/22/2017 01:19	WG972495
Benzidine	U		3.93	9.10	.91	04/22/2017 01:19	WG972495
Benzo(a)anthracene	U		0.0887	0.910	.91	04/22/2017 01:19	WG972495
Benzo(b)fluoranthene	U		0.0815	0.910	.91	04/22/2017 01:19	WG972495
Benzo(k)fluoranthene	U		0.323	0.910	.91	04/22/2017 01:19	WG972495



Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	U		0.146	0.910	.91	04/22/2017 01:19	WG972495
Benzo(a)pyrene	U		0.309	0.910	.91	04/22/2017 01:19	WG972495
Bis(2-chlorethoxy)methane	U		0.299	9.10	.91	04/22/2017 01:19	WG972495
Bis(2-chloroethyl)ether	U		1.47	9.10	.91	04/22/2017 01:19	WG972495
Bis(2-chloroisopropyl)ether	U		0.405	9.10	.91	04/22/2017 01:19	WG972495
4-Bromophenyl-phenylether	U		0.305	9.10	.91	04/22/2017 01:19	WG972495
2-Chloronaphthalene	U		0.300	0.910	.91	04/22/2017 01:19	WG972495
4-Chlorophenyl-phenylether	U		0.276	9.10	.91	04/22/2017 01:19	WG972495
Chrysene	U		0.302	0.910	.91	04/22/2017 01:19	WG972495
Dibenz(a,h)anthracene	U		0.254	0.910	.91	04/22/2017 01:19	WG972495
3,3-Dichlorobenzidine	U		1.84	9.10	.91	04/22/2017 01:19	WG972495
2,4-Dinitrotoluene	U		1.50	9.10	.91	04/22/2017 01:19	WG972495
2,6-Dinitrotoluene	U		0.254	9.10	.91	04/22/2017 01:19	WG972495
Fluoranthene	U		0.282	0.910	.91	04/22/2017 01:19	WG972495
Fluorene	U		0.294	0.910	.91	04/22/2017 01:19	WG972495
Hexachlorobenzene	U		0.310	0.910	.91	04/22/2017 01:19	WG972495
Hexachloro-1,3-butadiene	U		0.299	9.10	.91	04/22/2017 01:19	WG972495
Hexachlorocyclopentadiene	U		2.12	9.10	.91	04/22/2017 01:19	WG972495
Hexachloroethane	U		0.332	9.10	.91	04/22/2017 01:19	WG972495
Indeno(1,2,3-cd)pyrene	U		0.254	0.910	.91	04/22/2017 01:19	WG972495
Isophorone	U		0.248	9.10	.91	04/22/2017 01:19	WG972495
Naphthalene	U		0.338	0.910	.91	04/22/2017 01:19	WG972495
Nitrobenzene	U		0.334	9.10	.91	04/22/2017 01:19	WG972495
n-Nitrosodimethylamine	U		1.15	9.10	.91	04/22/2017 01:19	WG972495
n-Nitrosodiphenylamine	U		0.277	9.10	.91	04/22/2017 01:19	WG972495
n-Nitrosodi-n-propylamine	U		0.367	9.10	.91	04/22/2017 01:19	WG972495
Phenanthrene	U		0.333	0.910	.91	04/22/2017 01:19	WG972495
Benzylbutyl phthalate	U		0.250	2.73	.91	04/22/2017 01:19	WG972495
Bis(2-ethylhexyl)phthalate	U		0.645	2.73	.91	04/22/2017 01:19	WG972495
Di-n-butyl phthalate	0.586	U	0.242	2.73	.91	04/22/2017 01:19	WG972495
Diethyl phthalate	U		0.257	2.73	.91	04/22/2017 01:19	WG972495
Dimethyl phthalate	U		0.258	2.73	.91	04/22/2017 01:19	WG972495
Di-n-octyl phthalate	U		0.253	2.73	.91	04/22/2017 01:19	WG972495
Pyrene	U		0.300	0.910	.91	04/22/2017 01:19	WG972495
1,2,4-Trichlorobenzene	U		0.323	9.10	.91	04/22/2017 01:19	WG972495
4-Chloro-3-methylphenol	U		0.239	9.10	.91	04/22/2017 01:19	WG972495
2-Chlorophenol	U		0.258	9.10	.91	04/22/2017 01:19	WG972495
2,4-Dichlorophenol	U		0.258	9.10	.91	04/22/2017 01:19	WG972495
2,4-Dimethylphenol	U		0.568	9.10	.91	04/22/2017 01:19	WG972495
4,6-Dinitro-2-methylphenol	U		2.38	9.10	.91	04/22/2017 01:19	WG972495
2,4-Dinitrophenol	U		2.96	9.10	.91	04/22/2017 01:19	WG972495
2-Nitrophenol	U		0.291	9.10	.91	04/22/2017 01:19	WG972495
4-Nitrophenol	U		1.83	9.10	.91	04/22/2017 01:19	WG972495
Pentachlorophenol	U		0.285	9.10	.91	04/22/2017 01:19	WG972495
Phenol	U		0.304	9.10	.91	04/22/2017 01:19	WG972495
2,4,6-Trichlorophenol	U		0.270	9.10	.91	04/22/2017 01:19	WG972495
(S) 2-Fluorophenol	22.2			10.0-120		04/22/2017 01:19	WG972495
(S) Phenol-d5	15.3			10.0-120		04/22/2017 01:19	WG972495
(S) Nitrobenzene-d5	59.3			10.0-126		04/22/2017 01:19	WG972495
(S) 2-Fluorobiphenyl	61.3			22.0-127		04/22/2017 01:19	WG972495
(S) 2,4,6-Tribromophenol	56.6			10.0-153		04/22/2017 01:19	WG972495
(S) p-Terphenyl-d14	81.1			29.0-141		04/22/2017 01:19	WG972495

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

[L903712-01,02,03,04](#)

Method Blank (MB)

(MB) R3212400-1 04/20/17 11:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000600			

L903574-01 Original Sample (OS) • Duplicate (DUP)

(OS) L903574-01 04/20/17 11:11 • (DUP) R3212400-3 04/20/17 11:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	80.6	80.8	1	0.240		5

Laboratory Control Sample (LCS)

(LCS) R3212400-2 04/20/17 11:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

[L903712-05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3212401-1 04/20/17 11:39

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000600			

L903712-10 Original Sample (OS) • Duplicate (DUP)

(OS) L903712-10 04/20/17 11:39 • (DUP) R3212401-3 04/20/17 11:39

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	84.9	88.7	1	4.31		5

Laboratory Control Sample (LCS)

(LCS) R3212401-2 04/20/17 11:39

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3212422-1 04/20/17 14:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000200			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L903761-01 Original Sample (OS) • Duplicate (DUP)

(OS) L903761-01 04/20/17 14:44 • (DUP) R3212422-3 04/20/17 14:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	80.4	80.5	1	0.191		5

Laboratory Control Sample (LCS)

(LCS) R3212422-2 04/20/17 14:44

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



Method Blank (MB)

(MB) R3212578-1 04/21/17 10:49

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

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

(LCS) R3212578-2 04/21/17 10:51 • (LCSD) R3212578-3 04/21/17 10:53

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Mercury,Dissolved	3.00	3.09	2.99	103	100	80-120			3	20

L903712-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903712-16 04/21/17 10:56 • (MS) R3212578-4 04/21/17 10:58 • (MSD) R3212578-5 04/21/17 11:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury,Dissolved	3.00	U	3.34	3.43	111	114	1	75-125			3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3212560-1 04/21/17 13:42

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

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

(LCS) R3212560-2 04/21/17 13:45 • (LCSD) R3212560-3 04/21/17 13:47

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Mercury	0.300	0.263	0.262	88	87	80-120			0	20

L903712-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903712-01 04/21/17 13:50 • (MS) R3212560-4 04/21/17 14:00 • (MSD) R3212560-5 04/21/17 14:03

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.362	0.636	1.28	0.372	178	0	1	75-125	E J5	J3 J6	110	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3212774-1 04/21/17 14:38

Analyte	MB Result mg/kg	MB Qualifier	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	0.216	J	0.19	0.500
Selenium	U		0.74	2.00
Silver	U		0.28	1.00

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) R3212774-2 04/21/17 14:40 • (LCSD) R3212774-3 04/21/17 14:42

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 %
Arsenic	100	97.0	98.1	97	98	80-120			1	20
Barium	100	102	104	102	104	80-120			2	20
Cadmium	100	99.6	101	100	101	80-120			2	20
Chromium	100	101	103	101	103	80-120			1	20
Lead	100	102	103	102	103	80-120			1	20
Selenium	100	98.9	100	99	100	80-120			2	20
Silver	20.0	19.3	19.6	96	98	80-120			2	20

L903825-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903825-12 04/21/17 14:45 • (MS) R3212774-6 04/21/17 14:53 • (MSD) R3212774-7 04/21/17 14:55

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 %
Arsenic	131	6.59	132	132	96	96	1	75-125			0	20
Barium	131	124	252	227	97	78	1	75-125			10	20
Cadmium	131	0.198	133	132	101	100	1	75-125			1	20
Chromium	131	16.5	138	144	92	97	1	75-125			4	20
Lead	131	146	485	395	258	189	1	75-125	J5	J5	20	20
Selenium	131	U	131	129	100	98	1	75-125			2	20
Silver	26.3	U	25.6	24.4	97	93	1	75-125			5	20



Method Blank (MB)

(MB) R3212773-1 04/21/17 11:25

Analyte	MB Result ug/l	MB Qualifier	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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

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

(LCS) R3212773-2 04/21/17 11:28 • (LCSD) R3212773-3 04/21/17 11:31

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 %
Arsenic,Dissolved	1000	986	991	99	99	80-120			0	20
Barium,Dissolved	1000	1020	1020	102	102	80-120			1	20
Cadmium,Dissolved	1000	997	1000	100	100	80-120			0	20
Chromium,Dissolved	1000	997	1000	100	100	80-120			0	20
Lead,Dissolved	1000	1020	1010	102	101	80-120			0	20
Selenium,Dissolved	1000	1010	1000	101	100	80-120			0	20
Silver,Dissolved	200	194	193	97	96	80-120			0	20

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L903868-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903868-04 04/21/17 11:34 • (MS) R3212773-5 04/21/17 11:40 • (MSD) R3212773-6 04/21/17 11:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	1000	ND	1140	1150	114	115	1	75-125			1	20
Barium,Dissolved	1000	32.5	997	1000	96	97	1	75-125			1	20
Cadmium,Dissolved	1000	ND	1120	1130	112	113	1	75-125			1	20
Chromium,Dissolved	1000	ND	985	996	98	99	1	75-125			1	20
Lead,Dissolved	1000	ND	1050	1060	105	106	1	75-125			1	20
Selenium,Dissolved	1000	ND	1160	1180	116	118	1	75-125			1	20
Silver,Dissolved	200	ND	231	234	115	117	1	75-125			1	20



Method Blank (MB)

(MB) R3212749-3 04/21/17 11:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPH (GC/FID) Low Fraction	U		31.4	100
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-122

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) R3212749-1 04/21/17 10:30 • (LCSD) R3212749-2 04/21/17 10:53

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 %
TPH (GC/FID) Low Fraction	5500	5930	6010	108	109	71.0-136			1.25	20
(S) a,a,a-Trifluorotoluene(FID)				109	109	77.0-122				

L903704-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903704-01 04/21/17 13:55 • (MS) R3212749-4 04/21/17 14:19 • (MSD) R3212749-5 04/21/17 14:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5500	610	6190	6630	101	109	1	18.0-160			6.90	20
(S) a,a,a-Trifluorotoluene(FID)					108	109		77.0-122				



Method Blank (MB)

(MB) R3212756-3 04/22/17 19:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

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

(LCS) R3212756-1 04/22/17 18:45 • (LCSD) R3212756-2 04/22/17 19:07

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.43	6.07	98.8	110	70.0-136			11.0	20
(S) a,a,a-Trifluorotoluene(FID)				104	106	77.0-120				

7Gl

L903712-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903712-08 04/22/17 21:43 • (MS) R3212756-4 04/22/17 20:36 • (MSD) R3212756-5 04/22/17 20:58

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	6.08	208	634	630	35.1	34.7	200	10.0-147			0.700	30
(S) a,a,a-Trifluorotoluene(FID)					94.3	94.4		77.0-120				

8Al

9Sc



Method Blank (MB)

(MB) R3212736-4 04/21/17 12:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
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
2-Chloroethyl vinyl ether	U		3.01	50.0
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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3212736-4 04/21/17 12:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.256	1.00
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
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	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
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
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	104			80.0-120
(S) Dibromofluoromethane	102			76.0-123
(S) 4-Bromofluorobenzene	100			80.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3212736-1 04/21/17 10:57 • (LCSD) R3212736-2 04/21/17 11:25

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	110	112	88.4	89.5	10.0-160			1.20	23
Acrolein	125	105	125	84.2	100	10.0-160			17.2	20
Acrylonitrile	125	106	107	84.4	85.7	60.0-142			1.51	20

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

(LCS) R3212736-1 04/21/17 10:57 • (LCSD) R3212736-2 04/21/17 11:25

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 %
Benzene	25.0	22.5	22.9	89.8	91.7	69.0-123			2.05	20
Bromobenzene	25.0	21.8	22.9	87.1	91.6	79.0-120			4.97	20
Bromodichloromethane	25.0	23.1	22.6	92.4	90.6	76.0-120			1.97	20
Bromoform	25.0	21.8	22.5	87.1	89.9	67.0-132			3.14	20
Bromomethane	25.0	22.2	22.6	88.7	90.5	18.0-160			1.99	20
n-Butylbenzene	25.0	23.8	23.8	95.1	95.3	72.0-126			0.270	20
sec-Butylbenzene	25.0	24.6	25.4	98.4	101	74.0-121			3.07	20
tert-Butylbenzene	25.0	24.9	25.2	99.5	101	75.0-122			1.19	20
Carbon tetrachloride	25.0	23.1	23.7	92.4	94.7	63.0-122			2.47	20
Chlorobenzene	25.0	22.3	22.9	89.2	91.5	79.0-121			2.59	20
Chlorodibromomethane	25.0	21.6	21.8	86.3	87.1	75.0-125			0.890	20
Chloroethane	25.0	21.0	21.8	83.9	87.3	47.0-152			4.02	20
2-Chloroethyl vinyl ether	125	109	112	87.1	89.7	10.0-160			2.92	22
Chloroform	25.0	21.8	22.2	87.2	88.9	72.0-121			2.00	20
Chloromethane	25.0	20.5	20.7	81.9	82.9	48.0-139			1.15	20
2-Chlorotoluene	25.0	22.5	23.4	90.0	93.6	74.0-122			3.94	20
4-Chlorotoluene	25.0	22.4	23.2	89.5	92.6	79.0-120			3.37	20
1,2-Dibromo-3-Chloropropane	25.0	22.1	22.5	88.5	90.0	64.0-127			1.67	20
1,2-Dibromoethane	25.0	21.7	22.4	86.9	89.4	77.0-123			2.83	20
Dibromomethane	25.0	21.4	21.8	85.6	87.3	78.0-120			1.90	20
1,2-Dichlorobenzene	25.0	21.9	21.9	87.5	87.7	80.0-120			0.180	20
1,3-Dichlorobenzene	25.0	21.5	23.8	86.1	95.1	72.0-123			9.89	20
1,4-Dichlorobenzene	25.0	22.9	21.2	91.6	84.9	77.0-120			7.55	20
Dichlorodifluoromethane	25.0	18.5	19.1	73.9	76.3	49.0-155			3.22	20
1,1-Dichloroethane	25.0	21.6	22.4	86.2	89.6	70.0-126			3.84	20
1,2-Dichloroethane	25.0	21.5	21.7	85.8	87.0	67.0-126			1.37	20
1,1-Dichloroethene	25.0	21.9	22.4	87.5	89.4	64.0-129			2.24	20
cis-1,2-Dichloroethene	25.0	21.6	22.4	86.2	89.7	73.0-120			4.00	20
trans-1,2-Dichloroethene	25.0	21.7	22.7	86.8	90.6	71.0-121			4.32	20
1,2-Dichloropropane	25.0	22.9	23.4	91.7	93.5	75.0-125			1.95	20
1,1-Dichloropropene	25.0	21.8	22.6	87.1	90.4	71.0-129			3.76	20
1,3-Dichloropropane	25.0	21.7	23.1	86.9	92.5	80.0-121			6.22	20
cis-1,3-Dichloropropene	25.0	22.5	22.6	90.0	90.4	79.0-123			0.400	20
trans-1,3-Dichloropropene	25.0	23.9	24.2	95.8	96.8	74.0-127			1.08	20
2,2-Dichloropropane	25.0	25.2	26.5	101	106	60.0-125			4.89	20
Di-isopropyl ether	25.0	22.5	23.6	89.9	94.2	59.0-133			4.66	20
Ethylbenzene	25.0	24.0	24.1	95.8	96.6	77.0-120			0.770	20
Hexachloro-1,3-butadiene	25.0	24.0	24.2	96.1	97.0	64.0-131			0.930	20
Isopropylbenzene	25.0	23.9	23.7	95.8	94.8	75.0-120			1.00	20
p-Isopropyltoluene	25.0	23.5	24.0	93.8	96.1	74.0-126			2.38	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3212736-1 04/21/17 10:57 • (LCSD) R3212736-2 04/21/17 11:25

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 %
2-Butanone (MEK)	125	113	117	90.8	93.8	37.0-158			3.28	20
Methylene Chloride	25.0	22.1	22.3	88.2	89.2	66.0-121			1.10	20
4-Methyl-2-pentanone (MIBK)	125	116	116	93.0	93.1	59.0-143			0.160	20
Methyl tert-butyl ether	25.0	22.8	23.8	91.3	95.2	64.0-123			4.14	20
Naphthalene	25.0	22.1	22.6	88.4	90.2	62.0-128			2.00	20
n-Propylbenzene	25.0	23.7	24.0	94.7	96.0	79.0-120			1.45	20
Styrene	25.0	23.9	24.5	95.5	97.8	78.0-124			2.35	20
1,1,1,2-Tetrachloroethane	25.0	23.9	24.0	95.5	96.0	75.0-122			0.490	20
1,1,2,2-Tetrachloroethane	25.0	21.7	22.6	87.0	90.2	71.0-122			3.68	20
Tetrachloroethene	25.0	21.9	21.9	87.6	87.6	70.0-127			0.000	20
Toluene	25.0	22.9	23.6	91.4	94.3	77.0-120			3.12	20
1,1,2-Trichlorotrifluoroethane	25.0	25.7	25.8	103	103	61.0-136			0.330	20
1,2,3-Trichlorobenzene	25.0	21.2	21.4	84.7	85.6	61.0-133			1.11	20
1,2,4-Trichlorobenzene	25.0	22.2	23.0	88.7	92.1	69.0-129			3.71	20
1,1,1-Trichloroethane	25.0	23.5	24.2	94.0	96.9	68.0-122			3.07	20
1,1,2-Trichloroethane	25.0	22.0	22.1	88.2	88.4	78.0-120			0.230	20
Trichloroethene	25.0	22.0	22.0	88.1	88.1	78.0-120			0.110	20
Trichlorofluoromethane	25.0	23.8	24.2	95.2	96.7	56.0-137			1.54	20
1,2,3-Trichloropropane	25.0	22.6	22.2	90.3	88.6	72.0-124			1.89	20
1,2,3-Trimethylbenzene	25.0	23.3	23.4	93.1	93.7	75.0-120			0.550	20
1,2,4-Trimethylbenzene	25.0	23.0	23.4	91.9	93.6	75.0-120			1.77	20
1,3,5-Trimethylbenzene	25.0	23.6	23.4	94.3	93.5	75.0-120			0.840	20
Vinyl chloride	25.0	20.6	21.1	82.6	84.2	64.0-133			1.96	20
Xylenes, Total	75.0	72.4	71.9	96.5	95.9	77.0-120			0.690	20
(S) Toluene-d8				108	108	80.0-120				
(S) Dibromofluoromethane				98.4	98.9	76.0-123				
(S) 4-Bromofluorobenzene				104	103	80.0-120				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3212828-4 04/23/17 17:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
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
2-Chloroethyl vinyl ether	U		0.00234	0.0500
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-Dichloropropane	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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) R3212828-4 04/23/17 17:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000243	0.00100
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
1,1,1,2-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	101			80.0-120
(S) Dibromofluoromethane	96.4			74.0-131
(S) 4-Bromofluorobenzene	97.9			64.0-132

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3212828-1 04/23/17 16:18 • (LCSD) R3212828-3 04/23/17 17:00

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	0.125	0.149	100	119	11.0-160			17.6	23
Acrylonitrile	0.125	0.125	0.142	100	114	61.0-143			12.8	20
Benzene	0.0250	0.0229	0.0239	91.8	95.7	71.0-124			4.19	20
Bromobenzene	0.0250	0.0238	0.0247	95.4	98.6	78.0-120			3.37	20



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

(LCS) R3212828-1 04/23/17 16:18 • (LCSD) R3212828-3 04/23/17 17:00

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 %
Bromodichloromethane	0.0250	0.0244	0.0257	97.5	103	75.0-120			5.46	20
Bromoform	0.0250	0.0229	0.0248	91.6	99.0	65.0-133			7.80	20
Bromomethane	0.0250	0.0185	0.0181	74.0	72.5	26.0-160			2.13	20
n-Butylbenzene	0.0250	0.0248	0.0252	99.3	101	73.0-126			1.58	20
sec-Butylbenzene	0.0250	0.0253	0.0254	101	102	75.0-121			0.380	20
tert-Butylbenzene	0.0250	0.0253	0.0253	101	101	74.0-122			0.120	20
Carbon tetrachloride	0.0250	0.0233	0.0240	93.0	95.9	66.0-123			3.01	20
Chlorobenzene	0.0250	0.0233	0.0237	93.1	94.8	79.0-121			1.78	20
Chlorodibromomethane	0.0250	0.0249	0.0264	99.5	106	74.0-128			5.88	20
Chloroethane	0.0250	0.0202	0.0200	80.8	80.1	51.0-147			0.840	20
2-Chloroethyl vinyl ether	0.125	0.127	0.138	101	110	10.0-160			8.26	22
Chloroform	0.0250	0.0232	0.0237	92.6	94.7	73.0-123			2.23	20
Chloromethane	0.0250	0.0230	0.0238	91.9	95.3	51.0-138			3.63	20
2-Chlorotoluene	0.0250	0.0244	0.0247	97.5	98.8	72.0-124			1.32	20
4-Chlorotoluene	0.0250	0.0245	0.0247	97.8	98.8	78.0-120			1.04	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0251	0.0288	100	115	65.0-126			13.9	20
1,2-Dibromoethane	0.0250	0.0238	0.0256	95.3	102	78.0-122			7.17	20
Dibromomethane	0.0250	0.0242	0.0261	96.6	104	79.0-120			7.56	20
1,2-Dichlorobenzene	0.0250	0.0236	0.0247	94.3	98.7	80.0-120			4.56	20
1,3-Dichlorobenzene	0.0250	0.0259	0.0259	104	104	72.0-123			0.110	20
1,4-Dichlorobenzene	0.0250	0.0233	0.0239	93.3	95.5	77.0-120			2.35	20
Dichlorodifluoromethane	0.0250	0.0226	0.0233	90.5	93.0	49.0-155			2.72	20
1,1-Dichloroethane	0.0250	0.0236	0.0245	94.4	97.8	70.0-128			3.56	20
1,2-Dichloroethane	0.0250	0.0219	0.0236	87.6	94.3	69.0-128			7.33	20
1,1-Dichloroethene	0.0250	0.0202	0.0206	80.9	82.4	63.0-131			1.85	20
cis-1,2-Dichloroethene	0.0250	0.0239	0.0244	95.7	97.7	74.0-123			2.03	20
trans-1,2-Dichloroethene	0.0250	0.0232	0.0244	92.9	97.5	72.0-122			4.86	20
1,2-Dichloropropane	0.0250	0.0255	0.0266	102	107	75.0-126			4.36	20
1,1-Dichloropropene	0.0250	0.0235	0.0244	94.0	97.8	72.0-130			3.99	20
1,3-Dichloropropane	0.0250	0.0238	0.0252	95.0	101	80.0-121			5.90	20
cis-1,3-Dichloropropene	0.0250	0.0250	0.0265	99.8	106	80.0-125			5.92	20
trans-1,3-Dichloropropene	0.0250	0.0255	0.0271	102	109	75.0-129			6.10	20
2,2-Dichloropropane	0.0250	0.0225	0.0223	89.9	89.4	60.0-129			0.580	20
Di-isopropyl ether	0.0250	0.0244	0.0259	97.5	103	62.0-133			5.93	20
Ethylbenzene	0.0250	0.0227	0.0235	90.8	93.9	77.0-120			3.33	20
Hexachloro-1,3-butadiene	0.0250	0.0318	0.0303	127	121	68.0-128			4.72	20
Isopropylbenzene	0.0250	0.0239	0.0243	95.4	97.0	75.0-120			1.64	20
p-Isopropyltoluene	0.0250	0.0250	0.0252	99.8	101	74.0-125			0.850	20
2-Butanone (MEK)	0.125	0.136	0.162	109	129	37.0-159			17.4	20
Methylene Chloride	0.0250	0.0216	0.0222	86.6	88.9	67.0-123			2.61	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3212828-1 04/23/17 16:18 • (LCSD) R3212828-3 04/23/17 17:00

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 %
4-Methyl-2-pentanone (MIBK)	0.125	0.134	0.155	107	124	60.0-144			14.9	20
Methyl tert-butyl ether	0.0250	0.0229	0.0248	91.6	99.3	66.0-125			7.99	20
Naphthalene	0.0250	0.0242	0.0244	96.7	97.7	64.0-125			1.08	20
n-Propylbenzene	0.0250	0.0241	0.0245	96.3	98.1	78.0-120			1.83	20
Styrene	0.0250	0.0243	0.0249	97.3	99.7	78.0-124			2.40	20
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0253	96.4	101	74.0-124			4.75	20
1,1,2,2-Tetrachloroethane	0.0250	0.0256	0.0283	102	113	73.0-120			9.80	20
Tetrachloroethene	0.0250	0.0245	0.0246	97.8	98.4	70.0-127			0.560	20
Toluene	0.0250	0.0232	0.0241	92.9	96.6	77.0-120			3.94	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0196	0.0201	78.6	80.2	64.0-135			2.09	20
1,2,3-Trichlorobenzene	0.0250	0.0288	0.0262	115	105	68.0-126			9.52	20
1,2,4-Trichlorobenzene	0.0250	0.0286	0.0275	115	110	70.0-127			3.95	20
1,1,1-Trichloroethane	0.0250	0.0228	0.0232	91.1	93.0	69.0-125			2.01	20
1,1,2-Trichloroethane	0.0250	0.0237	0.0248	94.8	99.4	78.0-120			4.75	20
Trichloroethene	0.0250	0.0250	0.0263	99.9	105	79.0-120			5.09	20
Trichlorofluoromethane	0.0250	0.0189	0.0193	75.7	77.1	59.0-136			1.84	20
1,2,3-Trichloropropane	0.0250	0.0253	0.0268	101	107	73.0-124			5.84	20
1,2,3-Trimethylbenzene	0.0250	0.0227	0.0231	90.8	92.4	76.0-120			1.81	20
1,2,4-Trimethylbenzene	0.0250	0.0227	0.0231	90.9	92.5	75.0-120			1.74	20
1,3,5-Trimethylbenzene	0.0250	0.0243	0.0244	97.0	97.5	75.0-120			0.420	20
Vinyl chloride	0.0250	0.0229	0.0239	91.7	95.8	63.0-134			4.32	20
Xylenes, Total	0.0750	0.0686	0.0695	91.5	92.7	77.0-120			1.30	20
(S) Toluene-d8				99.6	99.9	80.0-120				
(S) Dibromofluoromethane				93.0	93.5	74.0-131				
(S) 4-Bromofluorobenzene				101	99.4	64.0-132				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L903712-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903712-08 04/23/17 21:09 • (MS) R3212828-5 04/23/17 21:29 • (MSD) R3212828-6 04/23/17 21:50

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 %
Acetone	0.138	U	28.5	26.9	103	97.4	200	10.0-160			5.77	36
Acrylonitrile	0.138	U	29.5	25.8	107	93.5	200	14.0-160			13.3	33
Benzene	0.0276	U	4.71	4.77	85.1	86.3	200	13.0-146			1.40	27
Bromobenzene	0.0276	U	4.64	5.09	83.9	92.1	200	10.0-149			9.37	33
Bromodichloromethane	0.0276	U	5.18	5.24	93.7	94.9	200	15.0-142			1.31	28
Bromoform	0.0276	U	4.57	4.84	82.8	87.6	200	10.0-147			5.65	31
Bromomethane	0.0276	U	3.74	3.96	67.6	71.6	200	10.0-160			5.68	32
n-Butylbenzene	0.0276	0.140	4.98	5.05	87.6	88.8	200	10.0-154			1.37	37



L903712-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903712-08 04/23/17 21:09 • (MS) R3212828-5 04/23/17 21:29 • (MSD) R3212828-6 04/23/17 21:50

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 %
sec-Butylbenzene	0.0276	0.206	4.84	5.23	83.8	90.8	200	10.0-151			7.69	36
tert-Butylbenzene	0.0276	U	4.83	5.21	87.3	94.2	200	10.0-152			7.59	35
Carbon tetrachloride	0.0276	U	4.69	4.89	84.8	88.5	200	13.0-140			4.32	30
Chlorobenzene	0.0276	U	4.74	4.95	85.8	89.5	200	10.0-149			4.24	31
Chlorodibromomethane	0.0276	U	5.21	5.32	94.2	96.3	200	12.0-147			2.14	29
Chloroethane	0.0276	U	4.25	4.55	76.9	82.3	200	10.0-159			6.73	33
2-Chloroethyl vinyl ether	0.138	U	29.7	27.4	107	99.1	200	10.0-160			8.03	32
Chloroform	0.0276	U	4.64	4.92	84.0	89.0	200	18.0-148			5.76	28
Chloromethane	0.0276	U	4.41	4.85	79.8	87.7	200	10.0-146			9.45	29
2-Chlorotoluene	0.0276	U	5.04	5.38	91.1	97.3	200	10.0-151			6.50	35
4-Chlorotoluene	0.0276	U	4.81	5.16	87.0	93.4	200	10.0-150			7.09	35
1,2-Dibromo-3-Chloropropane	0.0276	U	5.96	5.66	108	102	200	10.0-149			5.15	34
1,2-Dibromoethane	0.0276	U	5.01	5.05	90.7	91.3	200	14.0-145			0.660	28
Dibromomethane	0.0276	U	5.01	5.22	90.7	94.4	200	18.0-144			4.00	27
1,2-Dichlorobenzene	0.0276	U	5.02	5.14	90.8	92.9	200	10.0-153			2.31	34
1,3-Dichlorobenzene	0.0276	U	5.10	5.49	92.3	99.2	200	10.0-150			7.24	35
1,4-Dichlorobenzene	0.0276	U	4.75	4.91	85.9	88.8	200	10.0-148			3.28	34
Dichlorodifluoromethane	0.0276	U	4.34	4.68	78.6	84.7	200	10.0-160			7.52	30
1,1-Dichloroethane	0.0276	U	4.80	5.05	86.8	91.4	200	19.0-148			5.17	28
1,2-Dichloroethane	0.0276	U	4.59	4.64	83.0	84.0	200	17.0-147			1.09	27
1,1-Dichloroethene	0.0276	U	3.95	4.20	71.4	75.9	200	10.0-150			6.14	31
cis-1,2-Dichloroethene	0.0276	U	4.78	5.13	86.5	92.7	200	16.0-145			6.91	28
trans-1,2-Dichloroethene	0.0276	U	4.54	4.87	82.1	88.0	200	11.0-142			6.95	29
1,2-Dichloropropane	0.0276	U	5.52	5.60	99.9	101	200	17.0-148			1.36	28
1,1-Dichloropropene	0.0276	U	4.68	4.87	84.6	88.2	200	10.0-150			4.11	30
1,3-Dichloropropane	0.0276	U	5.21	5.10	94.2	92.3	200	16.0-148			2.03	27
cis-1,3-Dichloropropene	0.0276	U	5.40	5.33	97.7	96.4	200	13.0-150			1.33	28
trans-1,3-Dichloropropene	0.0276	U	5.60	5.53	101	100	200	10.0-152			1.23	29
2,2-Dichloropropane	0.0276	U	4.29	4.64	77.7	84.0	200	16.0-143			7.79	30
Di-isopropyl ether	0.0276	U	5.15	5.35	93.1	96.9	200	16.0-149			3.96	28
Ethylbenzene	0.0276	U	4.60	4.94	83.2	89.4	200	10.0-147			7.22	31
Hexachloro-1,3-butadiene	0.0276	U	5.27	5.42	95.4	98.1	200	10.0-154			2.87	40
Isopropylbenzene	0.0276	U	4.63	5.02	83.8	90.9	200	10.0-147			8.16	33
p-Isopropyltoluene	0.0276	0.822	6.46	6.73	102	107	200	10.0-156			4.16	37
2-Butanone (MEK)	0.138	U	32.7	31.7	118	115	200	10.0-160			3.18	33
Methylene Chloride	0.0276	U	4.32	4.62	78.2	83.6	200	16.0-139			6.70	29
4-Methyl-2-pentanone (MIBK)	0.138	U	30.5	30.5	110	110	200	12.0-160			0.0700	32
Methyl tert-butyl ether	0.0276	U	4.57	4.79	82.7	86.7	200	21.0-145			4.74	29
Naphthalene	0.0276	U	6.14	5.79	111	105	200	10.0-153			5.88	36

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



L903712-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L903712-08 04/23/17 21:09 • (MS) R3212828-5 04/23/17 21:29 • (MSD) R3212828-6 04/23/17 21:50

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 %
n-Propylbenzene	0.0276	U	4.77	5.09	86.2	92.1	200	10.0-151			6.60	34
Styrene	0.0276	U	4.90	5.26	88.7	95.2	200	10.0-155			7.14	34
1,1,1,2-Tetrachloroethane	0.0276	U	4.80	5.25	86.8	95.0	200	10.0-147			9.09	30
1,1,2,2-Tetrachloroethane	0.0276	U	6.48	6.39	117	116	200	10.0-155			1.51	31
Tetrachloroethene	0.0276	U	4.93	4.98	89.2	90.0	200	10.0-144			0.880	32
Toluene	0.0276	U	4.89	4.97	88.5	89.9	200	10.0-144			1.50	28
1,1,2-Trichlorotrifluoroethane	0.0276	U	3.78	4.13	68.3	74.6	200	10.0-153			8.84	33
1,2,3-Trichlorobenzene	0.0276	U	5.45	5.70	98.6	103	200	10.0-153			4.46	40
1,2,4-Trichlorobenzene	0.0276	U	5.85	5.70	106	103	200	10.0-156			2.53	40
1,1,1-Trichloroethane	0.0276	U	4.49	4.72	81.3	85.3	200	18.0-145			4.86	29
1,1,2-Trichloroethane	0.0276	U	5.20	5.30	94.0	95.8	200	12.0-151			1.91	28
Trichloroethene	0.0276	U	5.03	5.41	91.1	97.9	200	11.0-148			7.20	29
Trichlorofluoromethane	0.0276	U	3.77	4.01	68.2	72.6	200	10.0-157			6.32	34
1,2,3-Trichloropropane	0.0276	U	5.47	5.76	99.0	104	200	10.0-154			5.09	32
1,2,3-Trimethylbenzene	0.0276	2.64	6.96	6.92	78.1	77.5	200	10.0-150			0.480	33
1,2,4-Trimethylbenzene	0.0276	0.544	4.98	5.21	80.2	84.5	200	10.0-151			4.67	34
1,3,5-Trimethylbenzene	0.0276	2.23	6.45	6.77	76.4	82.2	200	10.0-150			4.87	33
Vinyl chloride	0.0276	U	4.38	4.71	79.2	85.2	200	10.0-150			7.36	29
Xylenes, Total	0.0829	0.324	13.9	14.8	81.9	87.1	200	10.0-150			6.01	31
(S) Toluene-d8					102	101		80.0-120				
(S) Dibromofluoromethane					89.5	91.8		74.0-131				
(S) 4-Bromofluorobenzene					110	116		64.0-132				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3213373-1 04/25/17 13:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
TPH (GC/FID) High Fraction	U		24.7	100
(S) o-Terphenyl	83.2			31.0-160

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3213373-2 04/25/17 14:14 • (LCSD) R3213373-3 04/25/17 14:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1500	1490	1510	99.2	101	50.0-150			1.37	20
(S) o-Terphenyl				93.0	97.0	31.0-160				



Method Blank (MB)

(MB) R3212888-1 04/22/17 13:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	80.3			18.0-148

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3212888-2 04/22/17 13:24 • (LCSD) R3212888-3 04/22/17 13:35

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 %
TPH (GC/FID) High Fraction	60.0	51.7	59.6	86.2	99.3	50.0-150			14.2	20
(S) o-Terphenyl				78.6	89.9	18.0-148				

Method Blank (MB)

(MB) R3212891-3 04/21/17 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acenaphthene	U		0.316	1.00
Acenaphthylene	U		0.309	1.00
Anthracene	U		0.291	1.00
Benzidine	U		4.32	10.0
Benzo(a)anthracene	U		0.0975	1.00
Benzo(b)fluoranthene	U		0.0896	1.00
Benzo(k)fluoranthene	U		0.355	1.00
Benzo(g,h,i)perylene	U		0.161	1.00
Benzo(a)pyrene	U		0.340	1.00
Bis(2-chlorethoxy)methane	U		0.329	10.0
Bis(2-chloroethyl)ether	U		1.62	10.0
Bis(2-chloroisopropyl)ether	U		0.445	10.0
4-Bromophenyl-phenylether	U		0.335	10.0
2-Chloronaphthalene	U		0.330	1.00
4-Chlorophenyl-phenylether	U		0.303	10.0
Chrysene	U		0.332	1.00
Dibenz(a,h)anthracene	U		0.279	1.00
3,3-Dichlorobenzidine	U		2.02	10.0
2,4-Dinitrotoluene	U		1.65	10.0
2,6-Dinitrotoluene	U		0.279	10.0
Fluoranthene	U		0.310	1.00
Fluorene	U		0.323	1.00
Hexachlorobenzene	U		0.341	1.00
Hexachloro-1,3-butadiene	U		0.329	10.0
Hexachlorocyclopentadiene	U		2.33	10.0
Hexachloroethane	U		0.365	10.0
Indeno(1,2,3-cd)pyrene	U		0.279	1.00
Isophorone	U		0.272	10.0
Naphthalene	U		0.372	1.00
Nitrobenzene	U		0.367	10.0
n-Nitrosodimethylamine	U		1.26	10.0
n-Nitrosodiphenylamine	U		0.304	10.0
n-Nitrosodi-n-propylamine	U		0.403	10.0
Phenanthrene	U		0.366	1.00
Benzylbutyl phthalate	U		0.275	3.00
Bis(2-ethylhexyl)phthalate	U		0.709	3.00
Di-n-butyl phthalate	U		0.266	3.00
Diethyl phthalate	U		0.282	3.00
Dimethyl phthalate	U		0.283	3.00
Di-n-octyl phthalate	U		0.278	3.00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L903712-16,18,21,22,23

Method Blank (MB)

(MB) R3212891-3 04/21/17 19:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pyrene	U		0.330	1.00
1,2,4-Trichlorobenzene	U		0.355	10.0
4-Chloro-3-methylphenol	U		0.263	10.0
2-Chlorophenol	U		0.283	10.0
2-Nitrophenol	U		0.320	10.0
4-Nitrophenol	U		2.01	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		0.334	10.0
2,4,6-Trichlorophenol	U		0.297	10.0
2,4-Dichlorophenol	U		0.284	10.0
2,4-Dimethylphenol	U		0.624	10.0
4,6-Dinitro-2-methylphenol	U		2.62	10.0
2,4-Dinitrophenol	U		3.25	10.0
(S) Nitrobenzene-d5	64.6			10.0-126
(S) 2-Fluorobiphenyl	66.2			22.0-127
(S) p-Terphenyl-d14	91.1			29.0-141
(S) Phenol-d5	28.4			10.0-120
(S) 2-Fluorophenol	37.3			10.0-120
(S) 2,4,6-Tribromophenol	63.5			10.0-153

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3212891-1 04/21/17 19:05 • (LCSD) R3212891-2 04/21/17 19:29

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 %
Acenaphthene	50.0	41.0	40.5	82.0	81.0	42.0-120			1.19	22
Acenaphthylene	50.0	42.4	42.9	84.8	85.7	43.0-120			1.04	22
Anthracene	50.0	41.3	42.3	82.6	84.7	44.0-120			2.50	20
Benidine	50.0	44.6	47.3	89.2	94.5	100-120			5.80	36
Benzo(a)anthracene	50.0	42.4	44.5	84.7	89.0	44.0-120			4.86	20
Benzo(b)fluoranthene	50.0	41.3	44.9	82.6	89.8	40.0-120			8.42	21
Benzo(k)fluoranthene	50.0	41.4	42.1	82.8	84.3	41.0-120			1.72	22
Benzo(g,h,i)perylene	50.0	43.1	46.0	86.2	92.1	45.0-121			6.60	20
Benzo(a)pyrene	50.0	41.8	45.0	83.5	89.9	41.0-120			7.40	20
Bis(2-chlorethoxy)methane	50.0	37.1	38.8	74.2	77.5	36.0-120			4.38	25
Bis(2-chloroethyl)ether	50.0	36.2	37.5	72.3	75.1	24.0-120			3.74	29
Bis(2-chloroisopropyl)ether	50.0	38.4	40.8	76.8	81.6	32.0-120			5.96	29
4-Bromophenyl-phenylether	50.0	41.1	42.5	82.1	85.1	42.0-121			3.52	21
2-Chloronaphthalene	50.0	38.2	38.8	76.4	77.6	37.0-120			1.59	24

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

(LCS) R3212891-1 04/21/17 19:05 • (LCSD) R3212891-2 04/21/17 19:29

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 %
4-Chlorophenyl-phenylether	50.0	42.8	43.5	85.7	87.0	44.0-120			1.53	21
Chrysene	50.0	41.5	44.5	83.1	89.1	45.0-120			6.94	20
Dibenz(a,h)anthracene	50.0	44.0	47.2	87.9	94.4	44.0-121			7.08	21
3,3-Dichlorobenzidine	50.0	62.2	66.9	124	134	29.0-153			7.34	23
2,4-Dinitrotoluene	50.0	47.1	47.3	94.3	94.6	47.0-127			0.350	21
2,6-Dinitrotoluene	50.0	41.8	42.7	83.5	85.4	42.0-120			2.26	22
Fluoranthene	50.0	44.1	46.5	88.3	93.1	46.0-121			5.31	20
Fluorene	50.0	42.8	42.7	85.7	85.3	45.0-120			0.440	21
Hexachlorobenzene	50.0	42.3	43.9	84.5	87.7	41.0-124			3.68	21
Hexachloro-1,3-butadiene	50.0	28.1	29.9	56.2	59.9	26.0-120			6.33	31
Hexachlorocyclopentadiene	50.0	34.5	35.6	69.0	71.3	10.0-120			3.16	31
Hexachloroethane	50.0	28.3	30.4	56.6	60.8	22.0-120			7.20	34
Indeno(1,2,3-cd)pyrene	50.0	43.7	47.1	87.4	94.1	45.0-123			7.40	21
Isophorone	50.0	39.6	41.3	79.1	82.5	37.0-120			4.20	24
Naphthalene	50.0	31.1	31.8	62.2	63.6	33.0-120			2.30	28
Nitrobenzene	50.0	35.2	36.0	70.4	71.9	31.0-120			2.10	28
n-Nitrosodimethylamine	50.0	17.0	17.8	34.0	35.7	10.0-120			4.73	34
n-Nitrosodiphenylamine	50.0	41.1	42.5	82.2	85.1	44.0-120			3.40	21
n-Nitrosodi-n-propylamine	50.0	38.7	40.5	77.4	81.0	29.0-120			4.58	27
Phenanthrene	50.0	41.4	42.9	82.7	85.9	42.0-120			3.73	20
Benzylbutyl phthalate	50.0	43.0	46.6	86.0	93.2	36.0-123			8.00	22
Bis(2-ethylhexyl)phthalate	50.0	44.6	47.6	89.2	95.3	37.0-121			6.61	21
Di-n-butyl phthalate	50.0	46.0	48.7	92.0	97.5	43.0-122			5.77	21
Diethyl phthalate	50.0	45.5	47.2	90.9	94.4	48.0-123			3.75	20
Dimethyl phthalate	50.0	43.9	45.3	87.8	90.7	47.0-120			3.21	20
Di-n-octyl phthalate	50.0	44.2	47.8	88.3	95.6	38.0-120			7.99	22
Pyrene	50.0	39.8	41.6	79.7	83.2	43.0-120			4.27	21
1,2,4-Trichlorobenzene	50.0	29.9	31.5	59.8	63.1	29.0-120			5.30	29
4-Chloro-3-methylphenol	50.0	37.9	39.2	75.7	78.3	39.0-120			3.33	22
2-Chlorophenol	50.0	37.8	38.3	75.5	76.6	28.0-120			1.44	29
2,4-Dichlorophenol	50.0	36.4	36.9	72.9	73.7	37.0-120			1.14	26
2,4-Dimethylphenol	50.0	37.4	38.4	74.8	76.8	35.0-120			2.74	25
4,6-Dinitro-2-methylphenol	50.0	41.3	44.3	82.6	88.5	34.0-125			6.90	27
2,4-Dinitrophenol	50.0	28.8	34.3	57.6	68.6	10.0-120			17.4	40
2-Nitrophenol	50.0	38.4	39.9	76.9	79.7	35.0-120			3.64	28
4-Nitrophenol	50.0	23.8	25.0	47.6	50.1	10.0-120			5.19	35
Pentachlorophenol	50.0	37.6	40.5	75.3	81.1	20.0-126			7.37	32
Phenol	50.0	21.5	22.7	43.1	45.4	10.0-120			5.14	34
2,4,6-Trichlorophenol	50.0	41.7	42.9	83.3	85.8	40.0-122			2.92	24
(S) Nitrobenzene-d5				72.0	74.1	10.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3212891-1 04/21/17 19:05 • (LCSD) R3212891-2 04/21/17 19:29

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 %
(S) 2-Fluorobiphenyl				80.8	82.6	22.0-127				
(S) p-Terphenyl-d14				87.4	93.8	29.0-141				
(S) Phenol-d5				40.9	43.3	10.0-120				
(S) 2-Fluorophenol				52.7	52.7	10.0-120				
(S) 2,4,6-Tribromophenol				85.7	88.9	10.0-153				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3213299-3 04/25/17 13:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Acenaphthene	U		0.316	1.00
Acenaphthylene	U		0.309	1.00
Anthracene	U		0.291	1.00
Benzidine	U		4.32	10.0
Benzo(a)anthracene	U		0.0975	1.00
Benzo(b)fluoranthene	U		0.0896	1.00
Benzo(k)fluoranthene	U		0.355	1.00
Benzo(g,h,i)perylene	U		0.161	1.00
Benzo(a)pyrene	U		0.340	1.00
Bis(2-chlorethoxy)methane	U		0.329	10.0
Bis(2-chloroethyl)ether	U		1.62	10.0
Bis(2-chloroisopropyl)ether	U		0.445	10.0
4-Bromophenyl-phenylether	U		0.335	10.0
2-Chloronaphthalene	U		0.330	1.00
4-Chlorophenyl-phenylether	U		0.303	10.0
Chrysene	U		0.332	1.00
Dibenz(a,h)anthracene	U		0.279	1.00
3,3-Dichlorobenzidine	U		2.02	10.0
2,4-Dinitrotoluene	U		1.65	10.0
2,6-Dinitrotoluene	U		0.279	10.0
Fluoranthene	U		0.310	1.00
Fluorene	U		0.323	1.00
Hexachlorobenzene	U		0.341	1.00
Hexachloro-1,3-butadiene	U		0.329	10.0
Hexachlorocyclopentadiene	U		2.33	10.0
Hexachloroethane	U		0.365	10.0
Indeno(1,2,3-cd)pyrene	U		0.279	1.00
Isophorone	U		0.272	10.0
Naphthalene	U		0.372	1.00
Nitrobenzene	U		0.367	10.0
n-Nitrosodimethylamine	U		1.26	10.0
n-Nitrosodiphenylamine	U		0.304	10.0
n-Nitrosodi-n-propylamine	U		0.403	10.0
Phenanthrene	U		0.366	1.00
Benzylbutyl phthalate	U		0.275	3.00
Bis(2-ethylhexyl)phthalate	U		0.709	3.00
Di-n-butyl phthalate	U		0.266	3.00
Diethyl phthalate	0.326	U	0.282	3.00
Dimethyl phthalate	U		0.283	3.00
Di-n-octyl phthalate	U		0.278	3.00

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3213299-3 04/25/17 13:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pyrene	U		0.330	1.00
1,2,4-Trichlorobenzene	U		0.355	10.0
4-Chloro-3-methylphenol	U		0.263	10.0
2-Chlorophenol	U		0.283	10.0
2,4-Dichlorophenol	U		0.284	10.0
2,4-Dimethylphenol	U		0.624	10.0
4,6-Dinitro-2-methylphenol	U		2.62	10.0
2,4-Dinitrophenol	U		3.25	10.0
2-Nitrophenol	U		0.320	10.0
4-Nitrophenol	U		2.01	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		0.334	10.0
2,4,6-Trichlorophenol	U		0.297	10.0
(S) Nitrobenzene-d5	91.3			10.0-126
(S) 2-Fluorobiphenyl	85.1			22.0-127
(S) p-Terphenyl-d14	94.6			29.0-141
(S) Phenol-d5	46.6			10.0-120
(S) 2-Fluorophenol	73.8			10.0-120
(S) 2,4,6-Tribromophenol	98.0			10.0-153

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3213299-1 04/25/17 12:38 • (LCSD) R3213299-2 04/25/17 13:01

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 %
Acenaphthene	50.0	46.1	41.6	92.3	83.3	42.0-120			10.3	22
Acenaphthylene	50.0	46.7	42.8	93.3	85.5	43.0-120			8.71	22
Anthracene	50.0	44.1	42.7	88.2	85.4	44.0-120			3.19	20
Benzidine	50.0	51.8	47.3	104	94.6	1.00-120			9.20	36
Benzo(a)anthracene	50.0	45.5	44.7	90.9	89.4	44.0-120			1.68	20
Benzo(b)fluoranthene	50.0	44.9	41.3	89.8	82.6	40.0-120			8.41	21
Benzo(k)fluoranthene	50.0	41.8	44.9	83.6	89.9	41.0-120			7.21	22
Benzo(g,h,i)perylene	50.0	47.3	47.2	94.7	94.4	45.0-121			0.270	20
Benzo(a)pyrene	50.0	44.1	43.5	88.3	87.0	41.0-120			1.54	20
Bis(2-chlorethoxy)methane	50.0	41.5	34.8	83.1	69.6	36.0-120			17.7	25
Bis(2-chloroethyl)ether	50.0	35.7	31.3	71.4	62.5	24.0-120			13.3	29
Bis(2-chloroisopropyl)ether	50.0	37.7	33.0	75.5	66.0	32.0-120			13.4	29
4-Bromophenyl-phenylether	50.0	47.5	45.9	95.1	91.8	42.0-121			3.51	21
2-Chloronaphthalene	50.0	44.3	39.1	88.7	78.2	37.0-120			12.6	24

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

(LCS) R3213299-1 04/25/17 12:38 • (LCSD) R3213299-2 04/25/17 13:01

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 %
4-Chlorophenyl-phenylether	50.0	49.5	47.5	98.9	95.0	44.0-120			4.05	21
Chrysene	50.0	49.1	47.4	98.1	94.9	45.0-120			3.36	20
Dibenz(a,h)anthracene	50.0	49.5	48.8	99.0	97.7	44.0-121			1.36	21
3,3-Dichlorobenzidine	50.0	88.0	84.8	176	170	29.0-153	J4	J4	3.69	23
2,4-Dinitrotoluene	50.0	51.4	48.5	103	97.0	47.0-127			5.88	21
2,6-Dinitrotoluene	50.0	46.6	44.2	93.3	88.3	42.0-120			5.43	22
Fluoranthene	50.0	49.0	48.5	98.1	96.9	46.0-121			1.18	20
Fluorene	50.0	47.1	44.4	94.2	88.9	45.0-120			5.79	21
Hexachlorobenzene	50.0	48.4	47.2	96.8	94.4	41.0-124			2.56	21
Hexachloro-1,3-butadiene	50.0	46.6	39.2	93.3	78.5	26.0-120			17.2	31
Hexachlorocyclopentadiene	50.0	48.6	42.7	97.2	85.3	10.0-120			13.0	31
Hexachloroethane	50.0	37.3	30.6	74.5	61.3	22.0-120			19.5	34
Indeno(1,2,3-cd)pyrene	50.0	49.3	48.3	98.6	96.6	45.0-123			2.06	21
Isophorone	50.0	44.0	39.4	88.0	78.7	37.0-120			11.2	24
Naphthalene	50.0	36.7	31.5	73.4	62.9	33.0-120			15.4	28
Nitrobenzene	50.0	40.1	33.9	80.2	67.9	31.0-120			16.7	28
n-Nitrosodimethylamine	50.0	24.5	21.9	48.9	43.8	10.0-120			11.1	34
n-Nitrosodiphenylamine	50.0	45.2	43.9	90.5	87.9	44.0-120			2.92	21
n-Nitrosodi-n-propylamine	50.0	44.9	42.2	89.9	84.4	29.0-120			6.31	27
Phenanthrene	50.0	42.6	42.9	85.3	85.9	42.0-120			0.680	20
Benzylbutyl phthalate	50.0	46.0	44.8	91.9	89.7	36.0-123			2.52	22
Bis(2-ethylhexyl)phthalate	50.0	48.5	46.3	97.0	92.6	37.0-121			4.56	21
Di-n-butyl phthalate	50.0	47.1	45.4	94.1	90.8	43.0-122			3.60	21
Diethyl phthalate	50.0	51.8	49.8	104	99.5	48.0-123			3.99	20
Dimethyl phthalate	50.0	49.3	47.4	98.6	94.9	47.0-120			3.84	20
Di-n-octyl phthalate	50.0	45.4	44.4	90.9	88.8	38.0-120			2.34	22
Pyrene	50.0	47.7	46.9	95.4	93.7	43.0-120			1.82	21
1,2,4-Trichlorobenzene	50.0	40.1	33.7	80.2	67.4	29.0-120			17.3	29
4-Chloro-3-methylphenol	50.0	42.8	39.2	85.7	78.4	39.0-120			8.84	22
2-Chlorophenol	50.0	37.8	33.6	75.5	67.1	28.0-120			11.8	29
2,4-Dichlorophenol	50.0	45.2	39.5	90.5	79.0	37.0-120			13.6	26
2,4-Dimethylphenol	50.0	43.2	39.7	86.4	79.4	35.0-120			8.43	25
4,6-Dinitro-2-methylphenol	50.0	48.7	47.8	97.5	95.6	34.0-125			1.95	27
2,4-Dinitrophenol	50.0	36.4	37.9	72.9	75.9	10.0-120			4.01	40
2-Nitrophenol	50.0	41.8	34.3	83.6	68.6	35.0-120			19.7	28
4-Nitrophenol	50.0	27.5	27.0	55.0	53.9	10.0-120			2.01	35
Pentachlorophenol	50.0	46.0	46.9	91.9	93.8	20.0-126			1.99	32
Phenol	50.0	24.3	22.0	48.5	44.0	10.0-120			9.89	34
2,4,6-Trichlorophenol	50.0	52.0	49.7	104	99.4	40.0-122			4.54	24
(S) Nitrobenzene-d5				100	69.0	10.0-126				

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) R3213299-1 04/25/17 12:38 • (LCSD) R3213299-2 04/25/17 13:01

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 %
(S) 2-Fluorobiphenyl				110	88.4	22.0-127				
(S) p-Terphenyl-d14				116	111	29.0-141				
(S) Phenol-d5				58.1	48.3	10.0-120				
(S) 2-Fluorophenol				77.5	60.3	10.0-120				
(S) 2,4,6-Tribromophenol				137	118	10.0-153				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3213215-3 04/25/17 08:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3213215-3 04/25/17 08:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	52.1			18.0-125
(S) 2-Fluorobiphenyl	64.4			28.0-120
(S) p-Terphenyl-d14	77.8			13.0-131
(S) Phenol-d5	56.1			20.0-120
(S) 2-Fluorophenol	53.1			20.0-120
(S) 2,4,6-Tribromophenol	89.4			17.0-137

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) R3213215-1 04/25/17 07:17 • (LCSD) R3213215-2 04/25/17 07:41

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 %
Acenaphthene	0.667	0.486	0.553	72.8	82.9	47.0-120			12.9	21
Acenaphthylene	0.667	0.482	0.558	72.3	83.7	48.0-120			14.7	21
Anthracene	0.667	0.499	0.516	74.9	77.4	46.0-120			3.26	20
Benzidine	0.667	0.151	0.204	22.7	30.6	1.00-120			29.8	36
Benzo(a)anthracene	0.667	0.466	0.504	69.8	75.5	46.0-120			7.84	20
Benzo(b)fluoranthene	0.667	0.475	0.534	71.2	80.1	45.0-120			11.8	22
Benzo(k)fluoranthene	0.667	0.485	0.495	72.7	74.2	45.0-120			2.02	23
Benzo(g,h,i)perylene	0.667	0.469	0.515	70.3	77.3	48.0-120			9.40	21
Benzo(a)pyrene	0.667	0.488	0.521	73.2	78.1	46.0-120			6.48	21
Bis(2-chlorethoxy)methane	0.667	0.364	0.387	54.5	58.1	41.0-120			6.25	22
Bis(2-chloroethyl)ether	0.667	0.342	0.346	51.3	51.9	28.0-120			1.02	28
Bis(2-chloroisopropyl)ether	0.667	0.382	0.381	57.2	57.1	40.0-120			0.310	27
4-Bromophenyl-phenylether	0.667	0.536	0.551	80.4	82.7	45.0-120			2.78	20
2-Chloronaphthalene	0.667	0.442	0.512	66.3	76.7	43.0-120			14.6	22

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

(LCS) R3213215-1 04/25/17 07:17 • (LCSD) R3213215-2 04/25/17 07:41

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 %
4-Chlorophenyl-phenylether	0.667	0.460	0.546	68.9	81.9	46.0-120			17.1	21
Chrysene	0.667	0.481	0.519	72.1	77.8	46.0-120			7.54	20
Dibenz(a,h)anthracene	0.667	0.462	0.507	69.3	76.1	47.0-120			9.29	22
3,3-Dichlorobenzidine	0.667	0.657	0.707	98.4	106	20.0-130			7.46	24
2,4-Dinitrotoluene	0.667	0.510	0.605	76.5	90.6	48.0-122			17.0	21
2,6-Dinitrotoluene	0.667	0.487	0.564	73.0	84.6	46.0-120			14.7	21
Fluoranthene	0.667	0.506	0.517	75.8	77.4	46.0-120			2.11	20
Fluorene	0.667	0.481	0.562	72.1	84.3	47.0-120			15.6	20
Hexachlorobenzene	0.667	0.586	0.595	87.8	89.3	42.0-120			1.67	20
Hexachloro-1,3-butadiene	0.667	0.338	0.335	50.7	50.3	36.0-120			0.810	26
Hexachlorocyclopentadiene	0.667	0.162	0.182	24.2	27.3	20.0-124			11.8	26
Hexachloroethane	0.667	0.305	0.304	45.7	45.6	32.0-120			0.370	31
Indeno(1,2,3-cd)pyrene	0.667	0.489	0.526	73.2	78.8	48.0-120			7.34	21
Isophorone	0.667	0.399	0.419	59.9	62.8	42.0-120			4.83	21
Naphthalene	0.667	0.324	0.345	48.6	51.7	41.0-120			6.07	24
Nitrobenzene	0.667	0.339	0.358	50.9	53.7	36.0-120			5.41	24
n-Nitrosodimethylamine	0.667	0.333	0.324	49.9	48.5	20.0-120			2.87	31
n-Nitrosodiphenylamine	0.667	0.491	0.507	73.6	76.0	42.0-120			3.23	20
n-Nitrosodi-n-propylamine	0.667	0.457	0.490	68.6	73.4	39.0-120			6.79	23
Phenanthrene	0.667	0.489	0.518	73.3	77.7	45.0-120			5.80	20
Benzylbutyl phthalate	0.667	0.466	0.525	69.9	78.7	41.0-123			11.8	20
Bis(2-ethylhexyl)phthalate	0.667	0.463	0.503	69.4	75.5	41.0-124			8.30	20
Di-n-butyl phthalate	0.667	0.525	0.545	78.8	81.8	44.0-120			3.72	20
Diethyl phthalate	0.667	0.500	0.567	75.0	85.1	46.0-120			12.5	20
Dimethyl phthalate	0.667	0.501	0.564	75.1	84.6	47.0-120			11.9	21
Di-n-octyl phthalate	0.667	0.454	0.489	68.1	73.3	40.0-123			7.42	21
Pyrene	0.667	0.433	0.472	64.9	70.8	45.0-120			8.66	21
1,2,4-Trichlorobenzene	0.667	0.313	0.318	47.0	47.6	40.0-120			1.37	25
4-Chloro-3-methylphenol	0.667	0.393	0.424	58.9	63.6	46.0-120			7.69	20
2-Chlorophenol	0.667	0.386	0.378	57.9	56.7	37.0-120			2.09	27
2,4-Dichlorophenol	0.667	0.394	0.413	59.0	62.0	45.0-120			4.88	21
2,4-Dimethylphenol	0.667	0.350	0.359	52.4	53.9	40.0-120			2.76	22
4,6-Dinitro-2-methylphenol	0.667	0.338	0.358	50.7	53.6	34.0-120			5.54	23
2,4-Dinitrophenol	0.667	0.224	0.262	33.6	39.3	10.0-120			15.8	30
2-Nitrophenol	0.667	0.353	0.382	53.0	57.3	42.0-120			7.79	24
4-Nitrophenol	0.667	0.464	0.572	69.5	85.8	40.0-120			21.0	21
Pentachlorophenol	0.667	0.556	0.594	83.4	89.0	33.0-122			6.49	22
Phenol	0.667	0.418	0.419	62.6	62.9	38.0-120			0.440	25
2,4,6-Trichlorophenol	0.667	0.495	0.563	74.3	84.4	47.0-120			12.8	22
(S) Nitrobenzene-d5				51.5	54.5	18.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3213215-1 04/25/17 07:17 • (LCSD) R3213215-2 04/25/17 07:41

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 %
(S) 2-Fluorobiphenyl				67.8	78.0	28.0-120				
(S) p-Terphenyl-d14				74.5	81.9	13.0-131				
(S) Phenol-d5				61.8	62.3	20.0-120				
(S) 2-Fluorophenol				55.8	55.7	20.0-120				
(S) 2,4,6-Tribromophenol				104	102	17.0-137				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3213225-3 04/25/17 04:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3213225-3 04/25/17 04:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	50.9			18.0-125
(S) 2-Fluorobiphenyl	67.3			28.0-120
(S) p-Terphenyl-d14	79.0			13.0-131
(S) Phenol-d5	61.2			20.0-120
(S) 2-Fluorophenol	56.7			20.0-120
(S) 2,4,6-Tribromophenol	64.2			17.0-137

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3213225-1 04/25/17 03:51 • (LCSD) R3213225-2 04/25/17 04:16

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 %
Acenaphthene	0.667	0.520	0.534	78.0	80.0	47.0-120			2.57	21
Acenaphthylene	0.667	0.561	0.585	84.0	87.7	48.0-120			4.26	21
Anthracene	0.667	0.520	0.557	78.0	83.5	46.0-120			6.90	20
Benzidine	0.667	0.153	0.211	22.9	31.6	1.00-120			32.0	36
Benzo(a)anthracene	0.667	0.530	0.562	79.4	84.3	46.0-120			5.88	20
Benzo(b)fluoranthene	0.667	0.519	0.544	77.8	81.5	45.0-120			4.68	22
Benzo(k)fluoranthene	0.667	0.548	0.577	82.2	86.5	45.0-120			5.12	23
Benzo(g,h,i)perylene	0.667	0.576	0.676	86.4	101	48.0-120			15.9	21
Benzo(a)pyrene	0.667	0.541	0.578	81.2	86.6	46.0-120			6.51	21
Bis(2-chlorethoxy)methane	0.667	0.403	0.423	60.5	63.4	41.0-120			4.83	22
Bis(2-chloroethyl)ether	0.667	0.394	0.407	59.1	60.9	28.0-120			3.07	28
Bis(2-chloroisopropyl)ether	0.667	0.410	0.403	61.5	60.4	40.0-120			1.86	27
4-Bromophenyl-phenylether	0.667	0.518	0.527	77.7	79.0	45.0-120			1.65	20
2-Chloronaphthalene	0.667	0.502	0.528	75.2	79.2	43.0-120			5.15	22

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

(LCS) R3213225-1 04/25/17 03:51 • (LCSD) R3213225-2 04/25/17 04:16

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 %
4-Chlorophenyl-phenylether	0.667	0.509	0.551	76.3	82.6	46.0-120			7.86	21
Chrysene	0.667	0.524	0.557	78.5	83.5	46.0-120			6.17	20
Dibenz(a,h)anthracene	0.667	0.564	0.658	84.5	98.6	47.0-120			15.4	22
3,3-Dichlorobenzidine	0.667	0.692	0.748	104	112	20.0-130			7.86	24
2,4-Dinitrotoluene	0.667	0.587	0.623	88.0	93.5	48.0-122			6.06	21
2,6-Dinitrotoluene	0.667	0.542	0.582	81.2	87.2	46.0-120			7.17	21
Fluoranthene	0.667	0.507	0.555	76.0	83.1	46.0-120			8.99	20
Fluorene	0.667	0.542	0.580	81.3	87.0	47.0-120			6.79	20
Hexachlorobenzene	0.667	0.509	0.529	76.3	79.4	42.0-120			3.95	20
Hexachloro-1,3-butadiene	0.667	0.341	0.336	51.1	50.3	36.0-120			1.58	26
Hexachlorocyclopentadiene	0.667	0.466	0.492	69.9	73.7	20.0-124			5.29	26
Hexachloroethane	0.667	0.344	0.347	51.6	52.1	32.0-120			0.880	31
Indeno(1,2,3-cd)pyrene	0.667	0.585	0.688	87.8	103	48.0-120			16.1	21
Isophorone	0.667	0.428	0.444	64.1	66.6	42.0-120			3.87	21
Naphthalene	0.667	0.355	0.363	53.2	54.5	41.0-120			2.43	24
Nitrobenzene	0.667	0.359	0.382	53.9	57.2	36.0-120			5.99	24
n-Nitrosodimethylamine	0.667	0.340	0.309	50.9	46.4	20.0-120			9.39	31
n-Nitrosodiphenylamine	0.667	0.506	0.518	75.9	77.6	42.0-120			2.26	20
n-Nitrosodi-n-propylamine	0.667	0.470	0.507	70.5	76.1	39.0-120			7.65	23
Phenanthrene	0.667	0.516	0.548	77.4	82.1	45.0-120			5.89	20
Benzylbutyl phthalate	0.667	0.531	0.593	79.7	88.9	41.0-123			10.9	20
Bis(2-ethylhexyl)phthalate	0.667	0.545	0.578	81.7	86.7	41.0-124			5.97	20
Di-n-butyl phthalate	0.667	0.512	0.565	76.7	84.7	44.0-120			9.91	20
Diethyl phthalate	0.667	0.553	0.583	83.0	87.3	46.0-120			5.12	20
Dimethyl phthalate	0.667	0.537	0.568	80.6	85.2	47.0-120			5.55	21
Di-n-octyl phthalate	0.667	0.539	0.550	80.7	82.5	40.0-123			2.20	21
Pyrene	0.667	0.514	0.579	77.1	86.8	45.0-120			11.8	21
1,2,4-Trichlorobenzene	0.667	0.351	0.355	52.6	53.2	40.0-120			1.19	25
4-Chloro-3-methylphenol	0.667	0.436	0.447	65.4	67.0	46.0-120			2.32	20
2-Chlorophenol	0.667	0.415	0.416	62.2	62.3	37.0-120			0.280	27
2,4-Dichlorophenol	0.667	0.415	0.427	62.2	64.0	45.0-120			2.89	21
2,4-Dimethylphenol	0.667	0.381	0.401	57.2	60.1	40.0-120			4.98	22
4,6-Dinitro-2-methylphenol	0.667	0.464	0.484	69.6	72.6	34.0-120			4.24	23
2,4-Dinitrophenol	0.667	0.306	0.335	45.9	50.3	10.0-120			9.03	30
2-Nitrophenol	0.667	0.392	0.405	58.8	60.7	42.0-120			3.26	24
4-Nitrophenol	0.667	0.533	0.573	79.9	86.0	40.0-120			7.31	21
Pentachlorophenol	0.667	0.496	0.530	74.4	79.4	33.0-122			6.58	22
Phenol	0.667	0.450	0.466	67.5	69.9	38.0-120			3.49	25
2,4,6-Trichlorophenol	0.667	0.541	0.585	81.2	87.7	47.0-120			7.73	22
(S) Nitrobenzene-d5				59.9	53.9	18.0-125				

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) R3213225-1 04/25/17 03:51 • (LCSD) R3213225-2 04/25/17 04:16

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 %
(S) 2-Fluorobiphenyl				74.7	80.1	28.0-120				
(S) p-Terphenyl-d14				80.7	90.6	13.0-131				
(S) Phenol-d5				67.3	69.1	20.0-120				
(S) 2-Fluorophenol				60.3	57.8	20.0-120				
(S) 2,4,6-Tribromophenol				70.9	74.8	17.0-137				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



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.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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 ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	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 ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	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		

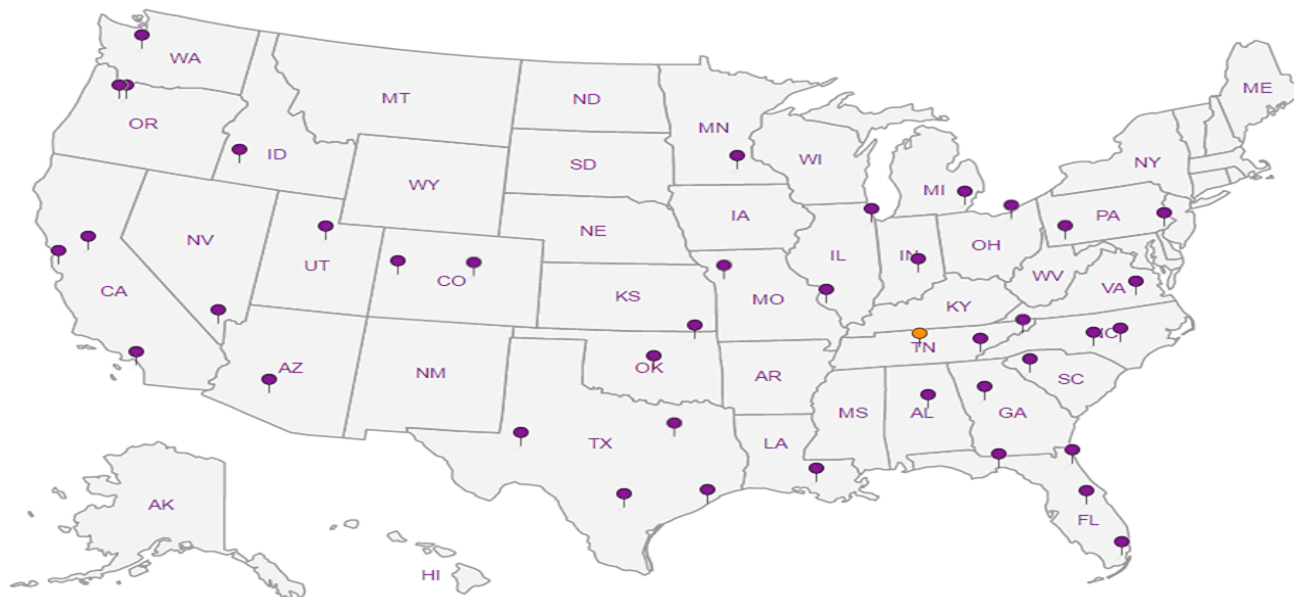
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} 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.**



AMEC Foster Wheeler
9865 South 500 West
Sandy, UT 84070

Billing Information:

AMECSLCUT

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 3



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# L903712

H029

Acctnum: AMECSLCUT

Template:

Prelogin:

TSR: Daphne Richards

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to:
Scott Wheeler

Email To:
scott.wheeler2@amecfw.com

Project Description: Swift Property

City/State
Collected: Ogden, UT

Phone: 801-999-2027
Fax: n/a

Client Project #
17-0003

Lab Project #

Collected by (print):
J. Thacker

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N ☒

Same Day ☐ Five Day ☐
Next Day ☐ 5 Day (Rad Only) ☐
☒ Two Day ☐ 10 Day (Rad Only) ☐
Three Day ☐

Date Results Needed

No
of
Cnts

MDRCRA8/ (1) 4oz CLR

V8260, GRO/(1) 4oz CLR

SV8270, DRO/(1) 4oz CLR

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cnts	MDRCRA8/ (1) 4oz CLR	V8260, GRO/(1) 4oz CLR	SV8270, DRO/(1) 4oz CLR											
SPB-1	Comp	SS		4/19/17	0940	3	X	X	X											-01
SPB-2-1		SS			1025	3	X	X	X											02
SPB-2-2		SS			1025	3	X	X	X											03
SPB-3-1		SS			1130	3	X	X	X											04
SPB-3-2		SS			1130	3	X	X	X											05
SPB-4-1		SS			1215	3	X	X	X											06
SPB-4-2		SS			1215	3	X	X	X											07
SPB-5-1		SS			1245	3	X	X	X											08
SPB-5-2		SS			1245	3	X	X	X											09
SPB-6-1		SS			1345	3	X	X	X											10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ N
COC Signed/Accurate: ☒ N
Bottles arrive intact: ☒ N
Correct bottles used: ☒ N
Sufficient volume sent: ☒ N

If Applicable

VOA Zero Headspace: ☒ N
Preservation Correct/Checked: ☒ N

Relinquished by: (Signature)

Date: 4/19/17
Time: 1730

Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date: 4/19/17
Time: 1800

Received by: (Signature)

Temp: 2.1 M
Bottles Received: 117

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:
Time:

Received for lab by: (Signature)

Date: 4-20-17
Time: 845

Hold:

Condition:
NCF / OK

AMEC Foster Wheeler
9865 South 500 West
Sandy, UT 84070

Billing Information:

AMECSLCUT

Report to:
Scott Wheeler

Email To:
scott.wheeler2@amecfw.com

Project Description: Swift Property

City/State Collected: Ogden, UT

Phone: 801-999-2027
Fax: n/a

Client Project #
17-0063

Lab Project #

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature): J. Thacker

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
☒ Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

Immediately Packed on Ice N ☒

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 3



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L # L903712

Table #

Acctnum: AMECSLCUT

Template:

Prelogin:

TSR: Daphne Richards

PB:

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	MDRCRA8/ (1) 4oz CLR	V8260, GRO/(1) 4oz CLR	SV8270, DRO/(1) 4oz CLR										
SPB-6-2	Comp	SS		4/19/17	1345	3	X	X	X										11
SPB-7-1		SS			1440	3	X	X	X										12
SPB-7-2		SS			1440	3	X	X	X										13
SPB-8-1		SS			1525	3	X	X	X										14
SPB-8-2		SS			1525	3	X	X	X										15
		SS				3	X	X	X										

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH Temp
Flow Other

Samples returned via:
UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date: 4/19/17

Time: 1730

Received by: (Signature)

Received by: (Signature)

Trip Blank Received: Yes/No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date: 4/19/17

Time: 1800

Received by: (Signature)

Received by: (Signature)

Temp: °C Bottles Received: 2.1 M 117

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Received for lab by: (Signature)

Date: 4-20-17 Time: 845

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☒ N
COC Signed/Accurate: ☒ Y ☒ N
Bottles arrive intact: ☒ Y ☒ N
Correct bottles used: ☒ Y ☒ N
Sufficient volume sent: ☒ Y ☒ N
if Applicable
VOA Zero Headpace: ☒ Y ☒ N
Preservation Correct/Checked: ☒ Y ☒ N

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

AMEC Foster Wheeler
9865 South 500 West
Sandy, UT 84070

Billing Information:

AMECSLCUT

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 3 of 3



YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 2903712

Table #

Acctnum: AMECSLCUT

Template:

Prelogin:

TSR: Daphne Richards

PB:

Shipped Via:

Remarks

Sample # (lab only)

Report to:
Scott Wheeler

Email To:
scott.wheeler2@amecfw.com

Project
Description: Swift Property

City/State
Collected: Ogden, UT

Phone: 801-999-2027
Fax: n/a

Client Project #
17-0003

Lab Project #

Collected by (print):
J. Thacker

Site/Facility ID #

P.O. #

Collected by (signature):
J. Thacker

Rush? (Lab MUST Be Notified)

Same Day Five Day
Next Day 5 Day (Rad Only)
☒ Two Day 10 Day (Rad Only)
Three Day

Quote #

Date Results Needed

No.
of
Cn'rs

Immediately
Packed on Ice N ☒

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cn'rs	MDRCRA8/(1) 250ml HDPE/HNO3	V8260BTEXN, GRO/(2) 40ml AMB/HCI	V8260/(2) 40ml AMB/HCI	8270/(2) 100ml AMB/ No Pres	DRO/(2) 40ml/HCI-BT							
SPB-1	Grab	GW	15'	4/19/17	0940	9	X	X	X	X	X							16
SPB-2		GW	10'		1020	9	X	X	X	X	X							17
SPB-3		GW	10'		1130	9	X	X	X	X	X							18
SPB-4		GW	10'		1215	9	X	X	X	X	X							19
SPB-5		GW	15'		1240	9	X	X	X	X	X							20
SPB-6		GW	15'		1345	9	X	X	X	X	X							21
SPB-7		GW	10'		1440	9	X	X	X	X	X							22
SPB-8		GW	10'		1515	9	X	X	X	X	X							23

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ HP ☒ N
COC Signed/Accurate: ☒ Y ☒ N
Bottles arrive intact: ☒ Y ☒ N
Correct bottles used: ☒ Y ☒ N
Sufficient volume sent: ☒ Y ☒ N
If Applicable
VOA Zero Headspace: ☒ Y ☒ N
Preservation Correct/Checked: ☒ Y ☒ N

Relinquished by: (Signature)

Date: 4/19/17
Time: 1730

Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date: 4/19/17
Time: 1800

Received by: (Signature)

Temp: °C Bottles Received:
2.1 M 117

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Received for lab by: (Signature)

Date: Time:

Hold:

Conditions:
NCF / OK

