

Exhibit C – AECOM 2018 Phase II Environmental Site Assessment



Phase II Limited Site Investigation Results Report

South Brooklyn Marine Terminal
269 39th Street
Brooklyn, New York
Block No. 662, Lot 1

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Executive Summary

Greenberg Traurig, LLP (GT) contracted AECOM to conduct a Phase II Limited Site Investigation (LSI) at the South Brooklyn Marine Terminal (SBMT) located at 269 39th Street in Brooklyn, New York. The property is located along Second Avenue between 33rd and 39th Streets. This investigation is being conducted as part of the potential redevelopment of the SBMT.

This Phase II LSI Results Report presents the findings of a LSI in evaluating potential environmental impacts to the soil and ground water from historic and current operations at the subject property and from potential offsite sources.

A geophysical survey was performed on October 1, 2018 to evaluate if subsurface structures or utilities were present in the proposed soil boring locations. The field investigation was conducted from October 2 through October 4, and October 8, 2018 and consisted of the following activities:

- Advancement of 15 soil borings for the collection of shallow and subsurface soil samples from each boring. A minimum of two soil samples were collected from each boring. Surface soil samples were collected at a depth of 0 to 2 feet below ground surface (bgs). Subsurface samples were collected at various depths no greater than 14 feet bgs based upon visual and olfactory observations. If necessary a third sample was collected if field evidence suggested possible contamination.
- Collection of ground water grab samples from eight of the 15 soil borings to evaluate potential environmental impacts.
- Visual inspection of an underground vault located adjacent to the Tower Building along the northeast portion of the subject property.

Soil and ground water samples were analyzed for volatile organic compounds (VOCs) and semivolatile volatile organic compounds (SVOCs). Additional soil and ground water samples collected near an abandoned transformer were also analyzed for polychlorinated biphenyls (PCBs). The location of the environmental samples and the analytical parameters were chosen based upon discussions with GT prior to the start of the field investigation activities. The collection of soil and ground water samples were performed in general accordance with New York State Department of Environmental Conservation (NYSDEC) DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010.

Results

Soils

No VOCs were detected above the NYSDEC Part 375 unrestricted soil cleanup objectives (SCO) in the soil samples. Elevated levels of SVOCs consisting of polynuclear aromatic hydrocarbons (PAHs) above the unrestricted, residential, and commercial SCOs were detected in eight of the 15 borings advanced at the subject property. The compounds were benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene. The majority of the elevated compounds were detected in borings advanced within the N Shed (the location of former aboveground petroleum bulk storage tanks), along 39th Street, and in the area of the former automotive repair shop. PCBs (total Aroclor) were detected above the NYSDEC commercial SCOs in the area of an abandoned transformer located within the Tower Building.

Ground Water

No VOCs or PCBs were detected in the ground water samples above the NYSDEC's Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards or Guidance Values (AWQSGV). SVOCs consisting of benzo(a)anthracene, benzo(b)fluoranthene, and chrysene were detected above the AWQSGV in one ground water sample (GW-6) located from a boring located near a parking lot along 39th Street.

Inspection of Underground Vault – Tower Building

AECOM personnel inspected an underground vault located along the west side of the Tower Building in the vicinity of the building's garage door. The result of the inspection revealed that the vault was empty with no visual or olfactory evidence of any potential environmental concerns. During the investigation, five additional underground vaults were present at the Tower Building. Four were located along the western exterior of the building while one was located within the building. These vaults were also found to be empty with no visual or olfactory evidence of any potential environmental concerns.

1.0 Introduction

Greenberg Traurig, LLP (GT) contracted AECOM to conduct a Phase II Limited Site Investigation (LSI) at the South Brooklyn Marine Terminal (SBMT) located at 269 39th Street in Brooklyn, New York. The property is located along Second Avenue between 33rd and 39th Streets. This investigation is being conducted as part of the potential commercial redevelopment of the SBMT.

This Phase II LSI Results Report presents the findings of a limited environmental subsurface site investigation to evaluate potential environmental impacts to the soil and ground water from the subject property and from potential offsite sources.

A geophysical survey was performed on October 1, 2018 to evaluate if subsurface structures or utilities were present in the proposed soil boring locations. The field investigation was conducted from October 2 through October 4, and October 8, 2018 and consisted of the following activities:

- Advancement of 15 soil borings for the collection of shallow and subsurface soil samples from each boring. A minimum of two soil samples were collected from each boring. Surface soil samples were collected at a depth of 0 to 2 feet below ground surface (bgs). Subsurface samples were collected at various depths no greater than 14 feet bgs based upon visual and olfactory observations. If necessary a third sample was collected if field evidence suggested possible contamination.
- Collection of ground water grab samples from eight of the 15 soil borings to evaluate potential environmental impacts.
- Visual inspection of an underground vault located adjacent to the Tower Building along the northeast portion of the subject property.

Sections 1.0 and 2.0 of this report provide an introduction and discussion of the background, historical information, area geology/hydrogeology and technical approach for the project. Section 3.0 and 4.0 provide the nature and extent of contamination and conclusions.

1.1 Site Investigation Objectives and Scope

The objective of this investigation was to assess potential environmental impacts from volatile organic and semivolatile organic compounds to soil and ground water from the former operations at the subject property and the potential for contamination from offsite sources, which might impact site redevelopment. In addition, potential contamination of polychlorinated biphenyl from an abandoned transformer was also identified as a concern to be addressed by the Phase II investigation.

1.2 Site Description

The subject property is approximately 88-acres and is mostly covered in asphalt pavement, foundation remnants of demolished buildings, multiple railroad sidings, and several areas of chain link fencing that were used as part of the previous operations. There is a security guard continually stationed at the entrance at the end of 39th Street. The buildings located on the property consist of the J1 Shed, J2 Shed, N Shed, Graffiti Building, and the Tower Building at 632 2nd Avenue. The combined area of the three sheds, Graffiti Building, and Tower Buildings is 370,580 square feet (ft²).

According to the City of New York Department of Finance (NYCDOF), the subject property consists of a single parcel of land designated as Block 662, Lot 1. The subject property is currently owned by the NYC Department of Small Business Services (DSBS). The location of the subject property is illustrated on Figure 1 - Site Location Map. A site plan illustrating the current use of the subject property is illustrated on Figure 2 – Site Plan.

1.2.1 Current Use of Property

Detail information regarding the current use of the subject property is present in AECOM's Phase I Environmental Site Assessment of the subject property dated May 2018. A brief description of the property use is as follows:

- J1 Shed – Located along the southern portion of Pier 39. The building was used for the storage and warehousing of products unloaded from ships docked at the terminal. The building has a steel structural system and is in a general state of disrepair.
- J2 Shed – Located on the northeast portion of Pier 39. This building has recently been used for the storage and warehousing of products unloaded from ships docked at the terminal. The building has a steel structural system and shows signs of moderate disrepair.
- N Shed – Located southeast of the J2 Shed on Pier 39. The building is being rented out by an underwater construction company. The building has a steel structural system and shows signs of moderate disrepair. The exterior shell of the building was constructed with a concrete base and exposed concrete block along the bottom, and corrugated metal and polycarbonates sheets on top.
- Graffiti Building – Located immediately adjacent to the southeastern portion of the N shed. The building is also identified as a maintenance building. The building has a steel structural system and shows signs of moderate disrepair. An equipment and materials boneyard was present along the northeastern perimeter of this building. No evidence of staining, leaks, or releases was observed in the vicinity of the boneyard.
- Tower Building - Located along the eastern portion of Pier 33 near the parking lot along Second Avenue. The building was formerly used as a communications outpost and a scale house for trucks entering and exiting the terminal. The building has a cast in-place concrete floor on first and second level and the tower portion of the building is steel frame. The majority of the building is abandoned and in disrepair. The garage portion of the Tower Building is currently being leased by Demand Electrical Inc. (DEI) of Brooklyn, New York for the parking of their commercial vehicles and the storage of electrical parts and components, including a fork lift and two man lifts. Their administrative operations are maintained in an adjacent office trailer located along the north side of the building. No evidence of staining, leaks, or releases was observed in the vicinity of the building.

The remaining area of the subject property consists of predominately of asphalt pavement. Areas of the pavement exhibited subsidence indicating that the fill transported into the area to create the terminal has possibly shifted and/or compacted over time. The remains of chain link fencing exist throughout the property and is likely used to isolate other buildings that have since been razed. Many locations within the property show evidence of the former building footprints. Abandoned rail spurs exist on the subject property. Signage posted on the subject property and on Second Avenue indicates that some of these spurs are still active. In addition, a portion of the site located west of the temporary structures is used for the temporary parking of new Hyundai automobiles. No visual evidence of potable water wells, monitoring wells, dry wells, clarifiers, septic tanks, or leach fields was observed on the subject property.

1.2.2 Surrounding Property Use

The subject property is bordered to the northwest by the Gowanus Bay and to the northeast by the Sims Municipal Recycling Facility; to the east by automotive parking spaces for the Industry City employees and customers and Second Avenue, beyond which are the commercial properties known as Industry City; to the south by the intersection of Second Avenue and 39th Avenue, beyond which are automotive parking spaces along 39th Avenue and additional commercial properties (some mostly vacant or under reconstruction) also associated with Industry City; and to the west by the Gowanus Bay.

1.2.3 Site History

Historical research indicates the subject property was primarily open water as early as 1888. Only the southern-most portion of the subject property along 39th Street and Second Avenue was developed with a pier as the New York & Brooklyn Ferry & Steam Transportation Company. By 1922, the subject property had been developed into a series of piers identified as the City of New York Piers. It is assumed that the piers were constructed on man-made filled areas.

As of 1940, four bulk storage tanks were present where the current N Shed is located. These tanks were identified as four 160,000 aboveground diesel fuel bulk storage tanks operated by the New York City Transit System with a diesel fuel filling station located southeast of these tanks.

By 1953 historical information indicated that the four bulk diesel fuel storage tanks had been replaced by the current N Shed. By 1965, Pier 39 had undergone some significant changes. The J1 and J2 Sheds were present, but are connected with a structure parallel to the Gowanus Bay on the pier, giving the entire building a J" configuration (hereinafter identified as the J Shed).

By 1974 the current Graffiti Building located near the N Shed was present. The only remaining building was an unidentified structure near Second Avenue located east of the Tower Building. The majority of the storage buildings for the Farrell Lines have been demolished, with the exception of one structure currently known as the Tower Building. In addition, the Scale House, which still remains present at the subject property, was visible in the photograph. The 33rd Street and 35th Street were replaced with urban fill to create a large asphalt paved pier with two operating cranes to remove cargo containers from docked ships. The 35th Street Pier remains at the subject property as a pier shed. A portion of the building used by the City of New York Department of Purchase was demolished while the remaining portion is identified as being used for manufacturing.

As of 1979, the boundaries of the subject property were generally in its current configuration. The 1979 Sanborn map indicates the Graffiti Building located near the N Shed was built in 1973. During the 1980s most of the warehouses and offices buildings on the subject had either been vacated or demolished. The subject property remains relatively unchanged since 1987 with the exception of two temporary structures and an office trailer located within a chain link fenced area near the corner of Second Avenue and 39th Street. One of the structures was visible in a 2001 aerial photograph. The second, smaller structure was visible in a 2013 aerial photograph. Both were used for the maintenance of automobiles and large trucks. The office trailer was visible in an aerial photograph in 2016. Since the completion of the Phase I ESA by AECOM in early 2018, the office trailer and both temporary structures have been removed from the subject property.

1.3 Physical and Environmental Setting

1.3.1 Geology

The area containing the subject property lies within the glaciated Coastal Plain physiographic province of New York. The bedrock geology in the area is not well documented, and the depth to bedrock is unknown; however, The Geology and Engineering Geology of the New York Metropolitan Area, Field Trip Guidebook T361 (Baskerville 1989) prepared for the 28th International Geological Congress, and the Geologic Map of New York City (compiled 2001) identify underlying bedrock as the Cambro-Ordovician age Hartland Formation. The Hartland Formation in the area of the subject property is part of the Pelham Bay Member and consists of gneiss. Surficial deposits in the region are mapped as glacial till (Cadwell et al 1986). Depending upon the specific location in the region the overburden material could also include fluvial, marine-tidal marsh, and recent fill deposits. Many low-lying areas have been historically filled to accommodate development.

Soils in New York City are typically classified as "Urban Land", a generic description of soils that have been buried, re-worked, or otherwise altered as a result of human activities. The buried, native soils in the general area of the subject property are believed to be composed of loamy sand, silt loam, sandy loam and fine sandy loam. The deeper soil types are believed to consist of very gravelly-loamy sand, and stratified sandy loam. It is likely that the original soils at the subject property developed on glacial material. Based upon the proximity of the subject property to Gowanus Bay, visual observations, and historical resources reviewed, the subject property is assumed to be constructed on man-made fill.

1.3.2 Hydrogeology

Based on the field observations made during the advancement of soil borings, the upper 17 feet of soils consists of a mix of silt, sand, and gravel typically associated with urban fill. Groundwater was encountered at the subject property between 7 and 9 feet bgs.

2.0 Site Investigation Scope of Work

The geophysical survey was performed on October 1, 2018 to evaluate if subsurface structures or utilities were present in the proposed soil boring locations, and the field investigation was conducted from October 2 through October 4, and October 8, 2018. The information presented in the May 2018 Phase I Environmental Site Assessment prepared by AECOM was utilized to determine the number of samples to be collected, the depth of sampling locations, and the contaminants for laboratory analysis. This information was presented in a Phase II LSI Work Plan dated July 2018 and submitted to Greenberg Traurig, LLP for review and approval. The work plan also included a Quality Assurance Project Plan describing the analytical laboratory methods to be performed and a Health and Safety Plan (HASP) to provide guidelines for their personnel health and safety during field operations.

The following sections describe the methods used for the sampling in accordance with the Phase II LSI Work Plan. Detailed field procedures are provided in the Work Plan. The following subcontractors were utilized to perform the field investigation activities:

- Utility Clearance – Dig Safely, East Syracuse, New York.
- Drilling – Cascade Technical Services, Lynbrook, New York.
- Analytical Laboratory Services – Eurofins Spectrum Analytical, North Kingstown, Rhode Island.
- Geophysical Survey – Advanced Geological Services, Malvern, Pennsylvania.

2.1 Field Activities

The field activities consisted of the following tasks:

- Conducted a geophysical survey to clear the proposed boring locations of any underground utilities and/or structures.
- Advancement of 15 soil borings for the collection of shallow and subsurface soil samples from each boring. A minimum of two soil samples were collected from each boring. Surface soil samples were collected at a depth of 0 to 2 feet below ground surface (bgs). Subsurface samples were collected at various depths no greater than 14 feet bgs based upon visual and olfactory observations. If necessary a third sample was collected if field evidence suggested possible contamination.
- Collection of grab ground water samples from eight of the 15 soil borings to evaluate potential environmental impacts.
- Inspection of an underground vault located adjacent to the Tower Building along the northeast portion of the subject property.

2.2 Field Methods

The Phase II LSI consisted of the collection of soil, and grab ground water obtained from soil borings advanced at the subject property. The locations of the soil borings are shown on Figure 3. All relevant field data were recorded in the field log and soil boring logs. The soil boring logs are provided in Appendix A.

2.2.1 Underground Utility Clearance / Geophysical Survey

Prior to the start of intrusive fieldwork, clearance of underground utilities was performed by the subcontractor. The drilling subcontractor contacted Dig Safely New York to arrange for the location and marking of underground utilities in the vicinity of the proposed soil boring locations.

In addition to these efforts, AECOM obtained the services of Advanced Geological Services to perform utility geophysical clearance in areas where suspected former or current USTs may have been located and areas suspected of containing other underground utilities such as sewer and water lines, along with obtaining any additional information associated with a concrete sump and sewer manway. The results of the survey did not identify any underground structures that would be indicative of former or current USTs, underground storm sewer line, or other underground utilities.

2.2.2 Soil Sampling

Direct push drilling techniques (i.e. Geoprobe) were used to advance the soil borings and collect the environmental samples. An AECOM environmental professional was present to monitor the advancement of the 15 soil borings and facilitate the collection of the soil samples (Figure 3). The samples collected from each boring were screened for organic vapors with a photo-ionization detector (PID), along with an examination of the soils for visual and olfactory contamination prior to collecting environmental samples. All field work was recorded in a field log.

The soil borings were advanced to a depth no greater than 20 feet bgs. Two soil samples were collected from each test boring for laboratory analysis; a shallow soil sample (0 to 2 feet bgs) and a subsurface soil sample from a two-foot interval between 2 and 12 feet bgs. The depth of the deeper sample was based upon visual and olfactory observations. An additional sample at a depth of 12 to 14 feet bgs was collected from B-4 based upon visual discoloration of the soil suggesting petroleum contamination.

Soil cuttings generated during the investigation were placed in a 55 gallon drum and stored at the subject property for future disposal. Borings were filled with a cement-bentonite upon completion of the investigation activities.

2.2.3 Monitoring Well Installation and Ground Water Sampling

Eight of the soil borings (B-2, B-5, B-6, B-10, B-11, B-12, B-13, and B-14) were utilized for the collection grab ground water samples as the depth to groundwater was encountered between 7 and 9 feet bgs (Figure 3). Ground water samples (GW-1 through GW-8) and a quality assurance duplicate samples from GW-2 and GW-8 were collected from the boring through either the temporary installation of a PVC well casing and screen or a retractable stainless steel well screen.

Ground water samples were collected from the temporary well points by low-flow purge and sample methods using a peristaltic pump. A minimum of three well volumes were removed from each temporary well point. At the ground surface, the water passed through a sealed chamber containing probes which measured the water temperature, pH, specific conductivity, oxidation-reduction potential, and dissolved oxygen. Samples of water discharging from the pump were collected at regular intervals and analyzed for turbidity using a hand-held field meter. The purging of the well points was completed upon stable pH readings over three consecutive measurements. Purged water was placed into a 55-gallon drum NS stored at the subject property for future disposal. The temporary well point was gauged with a water level meter to record a depth to groundwater reading to within 1/100 foot. The height of the temporary well point was measured from the ground surface, with the elevation to be obtained at a later date by a NYS licensed surveyor.

2.3 Quality Assurance

Sample labeling, handling, and Chain of Custody (COC) requirements were consistent with the protocol as described in DER-10. Compliance with these procedures was monitored by the AECOM environmental professional. Samples were collected in laboratory supplied containers with the appropriate preservative for the analytical method requested. Typical requirements for analytical parameters utilized on the project with respect to the type of container, preservation method, and maximum holding time between collection and analysis were specified by the analytical method and the analytical laboratory.

QA/QC samples were collected as part of this investigation. One duplicate sample for each medium sampled (soil and ground water) and one field blank sample for soil and ground water were collected during the field investigation activities. Internal laboratory QA/QC samples included method blanks, surrogate spikes, laboratory duplicates, and laboratory control spikes, and matrix spike/matrix spike duplicates. The laboratory selected matrix spike and matrix spike duplicate samples from among the field samples for QA/QC analysis.

2.4 Laboratory Analysis

The soil and groundwater samples were submitted to Eurofins Spectrum Analytical, Inc., a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. Samples were analyzed for the following parameters based upon discussions with GT:

Soil Samples

- Volatile organic compounds (VOCs) by EPA Method 8260;
- Semivolatile organic compounds (SVOCs) by EPA Method 8270; and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082 (Tower Building Transformer Only).

Groundwater Samples

- VOCs by EPA Method 8260;
- SVOCs by EPA Method 8270; and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082 (Tower Building Transformer Only).

3.0 Field and Analytical Results

3.1 Geology

Based on the field observations made during the advancement of the soil borings, the upper 17 to 20 feet of soils consists of a mix of silt, sand, and gravel typically associated with urban fill. Groundwater was encountered at the subject property between 7 and 9 feet bgs.

3.2 Analytical Results – Soils

The analytical results of the samples were compared to NYSDEC Part 375 unrestricted, residential and commercial SCOs. The analytical results are presented in Table 1 and are graphically shown on Figure 4. The full analytical data packages are provided in Appendix B for reference.

3.2.1 Volatile Organic Compounds

No VOCs were detected above the unrestricted use SCOs in either the surface or subsurface soil samples.

3.2.2 Semi-Volatile Organic Compounds

SVOCs in the form of polynuclear aromatic hydrocarbons (PAHs) were detected above the unrestricted, residential, and commercial SCOs in the surface soil samples obtained from borings B-1, B-3, B-6, B-7, B-11, and B-12. Compounds detected within these samples were benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene. PAHs were detected above the residential and commercial SCOs in the subsurface soil samples obtained from borings B-2, B-3, B-7, B-11, and B-12. Compounds detected within these samples were the same as those detected in the surface soil samples. The location of the elevated PAH compounds in both the surface and subsurface soil samples were detected in borings advanced within the N Shed (the location of former aboveground petroleum bulk storage tanks), along 39th Street, and in the area of the former automotive repair shop.

3.2.3 Polychlorinated Biphenyls

PCBs above the commercial SCOs were detected in the surface soil sample collected next to the abandoned transformer located in the Tower Building.

3.3 Analytical Results – Ground Water

The analytical results of the ground water sample collected from temporary well points are summarized on Table 2 and are graphically shown on Figure 5. The full analytical data packages are provided in Appendix B for reference. The analytical results were compared to NYSDEC's Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards or Guidance Values (AWQSGV).

3.3.1 Volatile Organic Compounds

No VOCs were detected above the AWQSGVs.

3.3.2 Semi-Volatile Organic Compounds

SVOCs in the form of PAHs were detected above the AWQSGVs from the sample collected from GW-6 advanced near a parking lot along 39th Street. The compounds detected were benzo(a)anthracene, benzo(b)fluoranthene, and chrysene.

3.3.3 Polychlorinated Biphenyls

No PCBs were detected above the AWQSGV.

3.4 Underground Vault – Tower Building

AECOM personnel were requested to evaluate an in-ground vault located along the west side of the Tower Building in the vicinity of the building's garage door. The result of the evaluation revealed that the vault was empty (no tank) with no evidence of visual contamination. During the field investigation activities, five additional underground vaults were present at the Tower Building. Four were located along the western exterior of the building while one was located within the building. These five vaults were also found to be empty with no visual evidence of any contamination.

4.0 Conclusions

The purpose of this Phase II LSI was to assess potential environmental impacts to the soil and ground water from the subject property and from potential offsite sources. The investigation was performed based upon the Phase II LSI Work Plan for the subject property that was submitted to Greenberg Traurig, LLP for review and approval.

4.1 Soils

No VOCs were encountered in any of the soil samples above the NYSDEC unrestricted SCO. Elevated levels of SVOCs consisting of PAHs above the unrestricted, residential, and commercial SCOs were encountered in eight of the 15 borings advanced at the subject property. The compounds detected were benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene. The majority of the elevated compounds were detected in borings advanced within the N Shed (the location of former aboveground petroleum bulk storage tanks), along 39th Street, and in the area of the former automotive repair shop. PCBs were detected above the NYSDEC commercial SCOs in the area of an abandoned transformer located within the Tower Building.

4.2 Ground Water

No VOCs or PCBs were detected in the ground water samples above the NYSDEC's TOGS 1.1.1 AWQSGV. SVOCs consisting of benzo(a)anthracene, benzo(b)fluoranthene, and chrysene were detected above the AWQSGV in one ground water sample (GW-6) located from a boring located near a parking lot along 39th Street.

4.3 Inspection of Underground Vault – Tower Building

AECOM personnel inspect an in-ground vault located along the west side of the Tower Building in the vicinity of the building's garage door. The result of the inspection revealed that the vault was empty with no visual evidence of any potential environmental concerns. During the investigation, five additional underground vaults were present at the Tower Building. Four were located along the western exterior of the building while one was located within the building. These vaults were also found to be empty with no visual evidence of any potential environmental concerns.

5.0 References

AECOM, Phase I Environmental Site Assessment, Second Avenue between 33rd and 39th Streets Brooklyn, New York. May 2018.

New York State Department of Environmental Conservation. DER-10, Technical Guidance for Site Investigation and Remediation. May 2010.

Tables

TABLE 1
SHALLOW AND SUBSURFACE SOIL ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID Sample Depth Sample Date	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Residential	NYSDEC Part 375-6 Commercial	B-1 0-2 10/03/2018	B-1 2-4 10/03/2018	B-2 0-2 10/03/2018	B-2 5-7 10/03/2018	B-3 0-2 10/03/2018	B-3 6-8 10/03/2018	B-4 0-2 10/03/2018	B-4 6-8 10/03/2018	B-4 10-12 10/03/2018	B-5 0-2 10/03/2018	B-5 5.5 - 7.5 10/03/2018	B-6 0-2 10/04/2018	B-6 5-7 10/04/2018	B-7 0-2 10/04/2018	B-7 5-7 10/04/2018	B-8 0-2 10/05/2018	B-8 4-6 10/05/2018
Volatile Organic Compounds (VOCs) - BTEX (ug/Kg)																				
Benzene	60	2900	44000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 23	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Ethylbenzene	1000	30000	390000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
m&p-Xylene	NL	NL	NL	< 400	< 5.3	140 J	< 5.2	< 5.4	< 4.6	95 J	2.8 J	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
o-Xylene	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Toluene	700	100000	500000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	69 J	< 7.4	< 6.5	< 9.5	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Total Xylenes	260	100000	500000	< 400	< 5.3	140 J	< 5.2	< 5.4	< 4.6	95 J	2.8 J	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Other Volatile Organic Compounds (VOCs) (ug/Kg)																				
1,1,1,2-Tetrachloroethane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,1,1-Trichloroethane	680	100000	500000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	1.7 J	0.71 J	< 5.1	< 5.6	< 5.5	< 4.4
1,1,2,2-Tetrachloroethane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,1,2-Trichloroethane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,1-Dichloroethane	270	19000	240000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,1-Dichloroethene	330	100000	500000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,1-Dichloropropene	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2,3-Trichlorobenzene	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2,3-Trichloropropane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2,4-Trichlorobenzene	NL	NL	NL	< 400	< 5.3	180 J	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2,4-Trimethylbenzene	3600	47000	190000	< 400	< 5.3	< 5.1	74 J	< 5.4	1.4 J	54 J	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2-Dibromo-3-chloropropane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2-Dibromoethane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2-Dichlorobenzene	1100	100000	500000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2-Dichloroethane	20	2300	30000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,2-Dichloropropane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,3,5-Trimethylbenzene	8400	47000	190000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	0.68 J	41 J	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,3-Dichlorobenzene	2400	17000	280000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,3-Dichloropropane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
1,4-Dichlorobenzene	1800	9800	130000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
2,2-Dichloropropane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
2-Chlorotoluene	NL	NL	NL	< 400	< 5.3	< 26	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
2-Hexanone	NL	NL	NL	< 2000	< 27	< 5.1	< 26	< 27	< 23	< 1500	< 37	< 32	< 24	< 4.6	< 24	< 22	< 25	< 28	< 28	< 22
2-Isopropyltoluene	NL	NL	NL	< 400	< 5.3	< 5.1	0.83 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NL	NL	NL	< 400	< 5.3	< 26	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
4-Methyl-2-pentanone	NL	NL	NL	< 2000	< 27	< 26	< 26	< 27	< 23	< 1500	< 37	< 32	< 24	< 23	< 24	< 22	< 25	< 28	< 28	< 22
Acetone	50	100000	500000	< 2000	6.7 J, S	< 10	40 S	17 J, S	14 J, S	< 1500	280 S	92 S	12 J, S	< 4.6	< 24	< 22	17 S, J	44 S	18 J, S	6 J, S
Acrylonitrile	NL	NL	NL	< 810	< 11	< 5.1	< 10	< 11	< 9.2	< 620	< 15	< 13	< 9.5	< 23	< 9.8	< 8.9	< 10	< 11	< 11	< 8.8
Bromobenzene	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 810	< 610	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Bromochloromethane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Bromodichloromethane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
2 Bromoform	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Bromomethane	NL	NL	NL	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Carbon Disulfide	NL	100	NL	< 400	< 5.3	< 5.1	1.6 J	< 5.4	< 4.6	< 310	2 J	2.8 J	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Carbon tetrachloride	760	1400	22000	< 400	< 5.3	< 5.1	< 5.2	< 5.4	< 4.6	< 310	< 7.4	< 6.5	< 4.7	< 4.6	< 4.9	< 4.4	< 5.1	< 5.6	< 5.5	< 4.4
Chlorobenzene	1100	100																		

TABLE 1
SHALLOW AND SUBSURFACE SOIL ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID Sample Depth Sample Date	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Residential	NYSDEC Part 375-6 Commercial	B-9 0-2 10/04/2018	B-9 5-7 10/04/2018	B-10 0-2 10/05/2018	B-10 4-6 10/05/2018	B-11 0-2 10/03/2018	B-11 DUP 0-2 10/03/2018	B-11 5-7 10/03/2018	B-12 0-2 10/04/2018	B-12 7-9 10/04/2018	B-13 0-2 10/05/2018	B-13 2.5-4.5 10/05/2018	B-14 0-2 10/08/2018	B-14 5-7 10/08/2018	B-14A 0-2 10/08/2018
Volatile Organic Compounds (VOCs) - BTEX (ug/Kg)																	
Benzene	60	2900	44000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	64 J	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Ethylbenzene	1000	30000	390000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	1.1 J	< 4.4	< 4.8
m&p-Xylene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	150 J	< 4.8	< 5.3	< 5.1	< 4.9	4.3 J	< 4.4	< 4.8
o-Xylene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	2.5 J	< 4.4	< 4.8
Toluene	700	100000	500000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	210 J	< 4.8	< 5.3	< 5.1	< 4.9	0.61 J	< 4.4	< 4.8
Total Xylenes	260	100000	500000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	6.8	< 4.4	< 4.8
Other Volatile Organic Compounds (VOCs) (ug/Kg)																	
1,1,1,2-Tetrachloroethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,1,1-Trichloroethane	680	100000	500000	< 7.5	0.52 J	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,1,2,2-Tetrachloroethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,1,2-Trichloroethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,1-Dichloroethane	270	19000	240000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,1-Dichloroethene	330	100000	500000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,1-Dichloropropene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2,3-Trichlorobenzene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2,3-Trichloropropane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2,4-Trichlorobenzene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2,4-Trimethylbenzene	3600	47000	190000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	7.0	< 4.4	< 4.8
1,2-Dibromo-3-chloropropane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2-Dibromoethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2-Dichlorobenzene	1100	100000	500000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2-Dichloroethane	20	2300	30000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,2-Dichloropropane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,3,5-Trimethylbenzene	8400	47000	190000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	2.1 J	< 4.4	< 4.8
1,3-Dichlorobenzene	2400	17000	280000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,3-Dichloropropane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
1,4-Dichlorobenzene	1800	9800	130000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
2,2-Dichloropropane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
2-Chlorotoluene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
2-Hexanone	NL	NL	NL	< 38	< 22	< 31	< 23	< 25	< 24	< 2000	< 24	< 26	< 26	< 24	< 26	< 4.4	< 24
2-Isopropyltoluene	NL	NL	NL	NA	NA	NA	NA	< 5.0	< 4.8	< 400	< 4.8	< 5.3	NA	NA	NA	NA	NA
4-Chlorotoluene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 24	< 26	< 5.1	< 4.9	< 5.3	< 22	< 4.8
4-Methyl-2-pentanone	NL	NL	NL	< 38	< 22	< 31	< 23	< 25	< 24	< 2000	< 24	< 26	< 26	< 24	< 26	< 4.4	< 24
Acetone	50	100000	500000	10 S, J	< 22	< 31	< 23	< 25	< 24	730 S, J	< 9.6	< 11	25 J, S	15 J, S	27 S	10 S, J	21 S, J
Acrylonitrile	NL	NL	NL	< 15	< 8.8	< 12	< 9.1	< 10	< 9.6	< 790	< 4.8	< 5.3	< 10	< 9.8	< 11	< 8.8	< 9.7
Bromobenzene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Bromochloromethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Bromodichloromethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
2-Bromoform	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Bromomethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Carbon Disulfide	NL	100	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	1.8 J	4.4 J	1.5 J
Carbon tetrachloride	760	1400	22000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Chlorobenzene	1100	100000	500000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Chloroethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Chloroform	370	10000	350000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Chloromethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
cis-1,2-Dichloroethene	250	59000	500000	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
cis-1,3-Dichloropropene	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Dibromochloromethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Dibromomethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Dichlorodifluoromethane	NL	NL	NL	< 7.5	< 4.4	< 6.1	< 4.6	< 5.0	< 4.8	< 400	< 4.8	< 5.3	< 5.1	< 4.9	< 5.3	< 4.4	< 4.8
Hexach																	

TABLE 1
SHALLOW AND SUBSURFACE SOIL ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID	NYSDEC Part 375-6	NYSDEC Part 375-6	NYSDEC Part 375-6	B-1	B-1	B-2	B-2	B-3	B-3	B-4	B-4	B-4	B-5	B-5R	B-5	B-6	B-6	B-7	B-7	B-8	B-8
Sample Depth	Unrestricted Use	Residential	Commercial	0-2	2-4	0-2	5-7	0-2	6-8	0-2	6-8	10-12	0-2	0-2	5.5 - 7.5	0-2	5-7	0-2	5-7	0-2	4-6
Sample Date	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/04/2018	10/04/2018	10/04/2018	10/04/2018	10/05/2018	10/05/2018	10/04/2018
SVOCs - Polynuclear Aromatic Hydrocarbons (PAHs) (ug/Kg)																					
2-Methylnaphthalene	NL	NL	NL	<362 D	<371 D	771	<370 D	753 D	<1490 D	867 D	<20000 D	<9150 D	<71.3	<71.7	<76.4	<1480 D	<74.0	<724 D	<152 D	<3380 D	<75.0
Acenaphthene	20000	100000	500000	469 D	<371 D	<70.4	<370 D	<392 D	<1490 D	<751 D	<20000 D	<9150 D	<71.3	<71.7	<76.4	<1480 D	<74.0	<724 D	<152 D	<3380 D	<75.0
Acenaphthylene	100000	100000	500000	<362 D	<371 D	65.5 J	<370 D	<392 D	<1490 D	<751 D	<20000 D	<9150 D	<71.3	<71.7	<76.4	<1480 D	<74.0	<724 D	288 D	<3380 D	<75.0
Anthracene	100000	100000	500000	1,350 D	247 J, D	124	381 D	256 J, D	1,080 J, D	<751 D	<20000 D	<9150 D	35.6 J	<71.7	84	<1480 D	<74.0	717 J, D	192 D	<3380 D	<75.0
Benzo (a) anthracene	1000	1000	5600	3,030 D	534 D	307	984 D	1,100 D	3,970 D	435 J, D	<20000 D	<9150 D	247	114	464	843 J, D	51.4 J	4,640 D	2,200 D	<3380 D	66.7 J
Benzo (a) pyrene	1000	1000	1000	2,810 D	384 D	382	978 D	1,040 D	4,010 D	372 J, D	<20000 D	<9150 D	293	104	478	1,060 J, D	60.6 J	4,440 D	1,890 D	1,350 J, D	50.2 J
Benzo (b) fluoranthene	1000	1000	5600	2,680 D	336 J, D	344	818 D	1,290 D	3,580 D	398 J, D	<20000 D	<9150 D	245	94.2	472	858 J, D	55.5 J	4,510 D	1,980 D	<3380 D	<75.0
Benzo (g,h,i) perylene	100000	100000	500000	1,570 D	191 J, D	345	838 D	728 D	2,900 D	<751 D	<20000 D	<9150 D	154	51.2 J	257	998 J, D	38.1 J	3,150 D	1,070 D	<3380 D	31.9 J
Benzo (k) fluoranthene	800	1000	56000	1,370 D	256 J, D	359	586 D	806 D	3,040 D	454 J, D	<20000 D	<9150 D	211	74.9	200	<1480 D	41.4 J	3,180 D	1,170 D	<3380 D	42.4 J
Chrysene	1000	1000	56000	2,910 D	499 D	345	1,110 D	1,150 D	3,980 D	638 J, D	<20000 D	<9150 D	259	107	504	939 J, D	52.5 J	4,560 D	2,100 D	<3380 D	64.5 J
Dibenzo (a,h) anthracene	330	330	5600	385 D	<371 D	78.2	207 J, D	196 J, D	873 J, D	<751 D	<20000 D	<9150 D	38.5 J	<71.7	63.4	<1480 D	<74.0	1,100 D	353 D	<3380 D	<75.0
Fluoranthene	100000	100000	500000	4,920 D	1,040 D	591	1,330 D	1,740 D	5,220 D	668 J, D	<20000 D	<9150 D	363	212	630	1,560 D	79.5	6,190 D	3,720 D	2,820 J, D	152
Fluorene	30000	100000	500000	373 D	<371 D	52.1 J	209 J, D	<392 D	761 J, D	<751 D	<20000 D	<9150 D	<71.3	<71.7	<76.4	<1480 D	<74.0	<724 D	<152 D	<3380 D	<75.0
Indeno (1,2,3-cd) pyrene	500	500	5600	1,600 D	213 J, D	337	753 D	702 D	2,920 D	<751 D	<20000 D	<9150 D	160	48.7 J	215	636 J, D	38.1 J	3,310 D	1,250 D	<3380 D	30.4 J
Naphthalene	12000	100000	500000	<362 D	<371 D	242	226 J, D	313 J, D	<1490 D	<751 D	<20000 D	<9150 D	<71.3	<71.7	<76.4	<1480 D	<74.0	<724 D	<152 D	<3380 D	<75.0
Phenanthrene	100000	100000	500000	3,320 D	377 D	344	1,330 D	1,140 D	4,190 D	687 J, D	<20000 D	<9150 D	153	106	361	858 J, D	<74.0	3,110 D	576 D	1,690 J, D	135
Pyrene	100000	100000	500000	6,100 D	1,060 D	516	1,420 D	1,710 D	7,100 D	942 D	<20000 D	<9150 D	368	198	750	1,780 D	90.2	6,370 D	2,370 D	2,800 J, D	123
Other Semivolatile Organic Compounds (SVOC) (ug/Kg)																					
Aniline	NL	48000	500000	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Azobenzene/Diphenyldiazene	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Benzidine	NL	NL	NL	<3580 D	<3670 D	<697	<3660 D	<3870 D	<14800 D	<7430 D	<198000 D	<90500 D	<706	<709	<756	<14600 D	<732	<7170 D	<1500 D	<33400 D	<742
Benzoic acid	NL	100000	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Benzyl alcohol	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Bis(2-chloroethoxy)methane	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Bis(2-chloroethyl)ether	NL	NL	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<188
Bis(2-chloroisopropyl)ether	NL	NL	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<188
Bis(2-ethylhexyl)phthalate	NL	50000	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	468	287	337	<3700 D	213	<1810 D	414 D	<8450 D	72.4 J
4-Bromophenyl phenyl ether	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Butyl benzyl phthalate	NL	100000	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Carbazole	NL	NL	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<188
4-Chloro-3-methylphenol	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
4-Chloroaniline	NL	100000	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<188
2-Chloronaphthalene	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
2-Chlorophenol	NL	NL	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<188
4-Chlorophenyl phenyl ether	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Dibenzofuran	7	14	350	324 J, D	<929 D	91.5 J	165 J, D	160 J, D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<188
1,2-Dichlorobenzene	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
1,3-Dichlorobenzene	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
1,4-Dichlorobenzene	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
3,3'-Dichlorobenzidine	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
2,4-Dichlorophenol	NL	NL	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<188
Diethyl phthalate	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Dimethyl phthalate	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
2,4-Dimethylphenol	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
Di-n-butyl phthalate	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
4,6-Dinitro-2-methylphenol	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
2,4-Dinitrophenol	NL	NL	NL	<1790 D	<1840 D	<349	<1830 D	<1940 D	<7390 D	<3720 D	<99000 D	<45200 D	<353	<355	<378	<7320 D	<366	<3580 D	<752 D	<16700 D	<371
2,4-Dinitrotoluene	NL	NL	NL	<907 D	<929 D	<176	<927 D	<980 D	<3740 D	<1880 D	<50100 D	<22900 D	<179	<179	<191	<3700 D	<185	<1810 D	<380 D	<8450 D	<18

TABLE 1
SHALLOW AND SUBSURFACE SOIL ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID	NYSDEC Part 375-6	NYSDEC Part 375-6	NYSDEC Part 375-6	B-9	B-9 R	B-9	B-10	B-10	B-11	B-11 DUP	B-11	B-12	B-12	B-13	B-13	B-14	B-14A														
Sample Depth	Unrestricted Use	Residential	Commercial	0-2	0-2	5-7	0-2	4-6	0-2	0-2	5-7	0-2	0-2	7-9	0-2	2.5-4.5	0-2														
Sample Date	10/04/2018	10/04/2018	10/04/2018	10/05/2018	10/05/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/03/2018	10/04/2018	10/04/2018	10/05/2018	10/05/2018	10/08/2018														
SVOCs - Polynuclear Aromatic Hydrocarbons (PAHs) (ug/Kg)																															
2-Methylnaphthalene	NL	NL	NL	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	< 363	D	< 1450	U, D	< 370	D	< 716	D	< 156	D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D		
Acenaphthene	20000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	343 J, D	< 1450	U, D	625	D	< 716	D	113 J, D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D				
Acenaphthylene	100000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	< 363	D	< 1450	U, D	< 370	D	< 716	D	215	D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D		
Anthracene	100000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	912	D	1,270 J, D	1,630	D	1,190	D	627	D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D			
Benzo (a) anthracene	1000	1000	5600	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	3,720	D	5,210	D	7,480	D	5,560	D	3,740	D	< 3350	D	49	J	< 735	D	55.1	J	< 4530	D
Benzo (a) pyrene	1000	1000	1000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	3,590	D	5,000	D	6,720	D	5,420	D	3,790	D	< 3350	D	36.4	J	< 735	D	53.2	J	< 4530	D
Benzo (b) fluoranthene	1000	1000	5600	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	3,180	D	5,230	D	7,170	D	4,970	D	4,510	D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D		
Benzo (g,h,i) perylene	100000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	2,520	D	3,400	D	4,120	D	3,440	D	2,320	D	< 3350	D	< 72.2	< 735	D	35.7	J	< 4530	D	
Benzo (k) fluoranthene	800	1000	56000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	2,820	D	3,670	D	4,460	D	4,540	D	1,780	D	< 3350	D	34.6	J	< 735	D	31.8	J	< 4530	D
Chrysene	1000	1000	56000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	3,580	D	5,310	D	7,430	D	5,270	D	3,370	D	< 3350	D	43.6	J	< 735	D	50.5	J	< 4530	D
Dibenzo (a,h) anthracene	330	330	5600	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	674	D	929 J, D	1,300	D	1,020	D	765	D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D			
Fluoranthene	100000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	7,620	D	8,780	D	12,900	D	11,300	D	6,280	D	< 3350	D	77.2	< 735	D	74.5	J	< 4530	D	
Fluorene	30000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	357 J, D	< 1450	U, D	659	D	405 J, D	213	D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D				
Indeno (1,2,3-cd) pyrene	500	500	5600	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	2,590	D	3,560	D	4,270	D	3,520	D	2,500	D	< 3350	D	< 72.2	< 735	D	28.3	J	< 4530	D	
Naphthalene	12000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	< 363	D	< 1450	U, D	183 J, D	< 716	D	< 156	D	< 3350	D	< 72.2	< 735	D	< 77.7	< 4530	D			
Phenanthrene	100000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	4,550	D	6,440	D	8,100	D	4,880	D	2,880	D	< 3350	D	< 72.2	< 735	D	43.5	J	< 4530	D	
Pyrene	100000	100000	500000	< 808	D	< 1610	D	< 74.2	< 1940	D	< 71.2	6,870	D	9,240	D	12,700	D	9,870	D	3,970	D	< 3350	D	67.8	J	< 735	D	79.6	< 4530	D	
Other Semivolatile Organic Compounds (SVOC) (ug/Kg)																															
Aniline	NL	48000	500000	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Azobenzene/Diphenyldiazene	NL	NL	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Benidine	NL	NL	NL	< 7990	D	< 15900	D	< 734	< 19200	D	< 705	< 3590	D	< 14400	U, D	< 3660	D	< 7090	D	< 1540	D	< 33100	D	< 714	< 7270	D	< 769	< 44900	D		
Benzoic acid	NL	100000	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Benzyl alcohol	NL	NL	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Bis(2-chloroethoxy)methane	NL	NL	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Bis(2-chloroethyl)ether	NL	NL	NL	< 2020	D	< 4020	D	< 186	< 4850	D	< 178	< 908	D	< 3640	U, D	< 927	D	< 1790	D	< 391	D	< 8380	D	< 181	< 1840	D	< 194	< 11400	D		
Bis(2-chloroisopropyl)ether	NL	NL	NL	< 2020	D	< 4020	D	< 186	< 4850	D	< 178	< 908	D	< 3640	U, D	< 927	D	< 1790	D	< 391	D	< 8380	D	< 181	< 1840	D	< 194	< 11400	D		
Bis(2-ethylhexyl)phthalate	NL	50000	NL	< 2020	D	< 4020	D	< 186	< 4850	D	188	< 908	D	< 3640	U, D	322 J, D	< 1790	D	< 391	D	< 8380	D	< 181	< 1840	D		139	J	< 11400	D	
4-Bromophenyl phenyl ether	NL	NL	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Butyl benzyl phthalate	NL	100000	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Carbazole	NL	NL	NL	< 2020	D	< 4020	D	< 186	< 4850	D	< 178	< 908	D	< 3640	U, D	< 927	D	< 1790	D	< 391	D	< 8380	D	< 181	< 1840	D	< 194	< 11400	D		
4-Chloro-3-methylphenol	NL	NL	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
4-Chloroaniline	NL	100000	NL	< 2020	D	< 4020	D	< 186	< 4850	D	< 178	< 908	D	< 3640	U, D	< 927	D	< 1790	D	< 391	D	< 8380	D	< 181	< 1840	D	< 194	< 11400	D		
2-Chloronaphthalene	NL	NL	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
2-Chlorophenol	NL	NL	NL	< 2020	D	< 4020	D	< 186	< 4850	D	< 178	< 908	D	< 3640	U, D	< 927	D	< 1790	D	< 391	D	< 8380	D	< 181	< 1840	D	< 194	< 11400	D		
4-Chlorophenyl phenyl ether	NL	NL	NL	< 4000	D	< 7950	D	< 367	< 9590	D	< 353	< 1790	D	< 7180	U, D	< 1830	D	< 3540	D	< 772	D	< 16600	D	< 357	< 3630	D	< 384	< 22400	D		
Dibenzofuran	7	14	350</																												

TABLE 1
SHALLOW AND SUBSURFACE SOIL ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID	NYSDEC Part	NYSDEC Part	NYSDEC Part	B-14	B-14	B-14A	B-14A R
Sample Depth	375-6	375-6	375-6	0-2	5-7	0-2	0-2
Sample Date	Unrestricted	Residential	Commercial	10/08/2018	10/08/2018	10/08/2018	10/08/2018
PCBs (ug/Kg)							
Aroclor-1016	NL	NL	NL	< 21.7	< 22.9	< 26.7	< 2670
Aroclor-1221	NL	NL	NL	< 21.7	< 22.9	< 26.7	< 2670
Aroclor-1232	NL	NL	NL	< 21.7	< 22.9	1660	< 2670
Aroclor-1242	NL	NL	NL	< 21.7	< 22.9	< 26.7	< 2670
Aroclor-1248	NL	NL	NL	< 21.7	< 22.9	56600 E	< 2670
Aroclor-1254	NL	NL	NL	< 21.7	< 22.9	66500 E	61000
Aroclor-1260	NL	NL	NL	< 21.7	< 22.9	< 26.7	< 2670
Aroclor-1262	NL	NL	NL	< 21.7	< 22.9	< 26.7	< 2670
Aroclor-1268	NL	NL	NL	< 21.7	< 22.9	< 26.7	< 2670
Total Aroclor	1000	1000	1000	< 21.7	< 22.9	124760	61000

Notes:

ug/Kg - micrograms per kilogram

NL = Not Listed

< = The material was analyzed for but not detected at, or above, the reporting limit.

The associated numerical value is the sample quantitation limit.

Bold indicates compound detected at a concentration greater than the reporting limit.

Orange shaded value: Exceedance of the NYSDEC Part 375-6.8(b) Commercial Use SCO value.

E - The concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

TABLE 4
GROUND WATER ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID	NYSDEC	GW-1	GW-2	GW-2DUP	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8	GW-8A
Sample Date	AWQSGV	10/03/2018	10/03/2018	10/03/2018	10/04/2018	10/05/2018	10/03/2018	10/04/2018	10/05/2018	10/08/2018	10/08/2018
Volatile Organic Compounds (VOCs) - BTEX (ug/L)											
Benzene	1	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
Ethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylene	NL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	NL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0
Total Xylenes	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Other Volatile Organic Compounds (VOCs) (ug/L)											
1,1,1,2-Tetrachloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	5	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	0.04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	0.04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	0.0006	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	0.6	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60	< 0.60
1,2-Dichloropropane	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Hexanone	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Isopropyltoluene	NL	< 1.0	NA	< 1.0	NA	NA	< 1.0	NA	NA	NA	NA
4-Chlorotoluene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone	NL	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	50	3.1 S, J	< 25	3.9	3.7 S, J	2.8 J, S	< 25	2.9 J, S	3.1 J, S	< 25	< 25
Acrylonitrile	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	NL	0.27 J	< 5.0	0.54	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.3 J	< 1.0	< 1.0
Chloroethane	5	< 1.0	< 1.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	0.4	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Dibromochloromethane	50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	0.5	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Isopropylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Ethyl Ketone	50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl t-butyl ether (MTBE)	NL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	NL	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran (THF)	NL	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
trans-1,2-Dichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	0.4	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
trans-1,4-dichloro-2-butene	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorotrifluoroethane		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
ug/L - micrograms per liter
NA = Not Analyzed
NL = Not Listed
< = The material was analyzed for but not detected at, or above, the reporting limit.
The associated numerical value is the sample quantitation limit.
Bold indicates compound detected at a concentration greater than the reporting limit.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.
S - Laboratory solvent, contamination is possible.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID	NYSDEC	GW-1	GW-1DUP	GW-2	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8	GW-8A
Sample Date	AWQSGV	10/03/2018	10/03/2018	10/03/2018	10/04/2018	10/05/2018	10/03/2018	10/04/2018	10/05/2018	10/08/2018	10/08/2018
SVOCs - Polynuclear Aromatic Hydrocarbons (PAHs) (ug/L)											
2-Methylnaphthalene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Acenaphthene	20	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	1.82 J	< 4.85	< 4.85	< 6.25
Acenaphthylene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Anthracene	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Benzo (a) anthracene	0.002	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	1.2 J	< 4.85	< 4.85	< 6.25
Benzo (a) pyrene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	0.99 J	< 4.85	< 4.85	< 6.25
Benzo (b) fluoranthene	0.002	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	0.752 J	< 4.85	< 4.85	< 6.25
Benzo (g,h,i) perylene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Benzo (k) fluoranthene	0.002	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Chrysene	0.002	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	1.36 J	< 4.85	< 4.85	< 6.25
Dibenzo (a,h) anthracene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Fluoranthene	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	2.72 J	< 4.85	< 4.85	< 6.25
Fluorene	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	1.31 J	< 4.85	< 4.85	< 6.25
Indeno (1,2,3-cd) pyrene	0.002	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Naphthalene	10	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Phenanthrene	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	6.76	< 4.85	< 4.85	< 6.25
Pyrene	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	3.25 J	< 4.85	< 4.85	< 6.25
Other Semivolatile Organic Compounds (SVOC) (ug/L)											
Aniline	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Azobenzene/Diphenyldiazene	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Benzidine	0.02	< 9.52	< 9.43	< 9.43	< 9.62	< 9.71	< 9.52	< 9.52	< 9.71	< 9.71	< 12.5
Benzoic acid	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Benzyl alcohol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Bis(2-chloroethoxy)methane	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Bis(2-chloroethyl)ether	1	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Bis(2-chloroisopropyl)ether	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Bis(2-ethylhexyl)phthalate	5	< 4.76	< 4.72	1.86 J	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
4-Bromophenyl phenyl ether	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Butyl benzyl phthalate	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Carbazole	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
4-Chloro-3-methylphenol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
4-Chloroaniline	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2-Chloronaphthalene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2-Chlorophenol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
4-Chlorophenyl phenyl ether	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Dibenzofuran	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
1,2-Dichlorobenzene	3	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
1,3-Dichlorobenzene	3	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
1,4-Dichlorobenzene	3	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
3,3'-Dichlorobenzidine	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2,4-Dichlorophenol	1	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Diethyl phthalate	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Dimethyl phthalate	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2,4-Dimethylphenol	1	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Di-n-butyl phthalate	50	0.686 J	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
4,6-Dinitro-2-methylphenol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2,4-Dinitrophenol	1	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2,4-Dinitrotoluene	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2,6-Dinitrotoluene	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Di-n-octyl phthalate	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Hexachlorobenzene	0.04	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Hexachlorobutadiene	0.5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Hexachlorocyclopentadiene	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Hexachloroethane	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Isophorone	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2-Methylphenol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
3 & 4-Methylphenol	NL	< 9.52	< 9.43	< 9.43	< 9.62	< 9.71	< 9.52	< 9.52	< 9.71	< 9.71	< 12.5
2-Nitroaniline	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
3-Nitroaniline	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
4-Nitroaniline	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Nitrobenzene	0.4	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2-Nitrophenol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
4-Nitrophenol	NL	< 19.0	< 18.9	< 18.9	< 19.2	< 19.4	< 19.0	< 19.0	< 19.4	< 19.4	< 25.0
N-Nitrosodimethylamine	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
N-Nitrosodi-n-propylamine	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
N-Nitrosodiphenylamine	50	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Pentachlorophenol	1	< 19.0	< 18.9	< 18.9	< 19.2	< 19.4	< 19.0	< 19.0	< 19.4	< 19.4	< 25.0
Phenol	1	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Pyridine	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
1,2,4-Trichlorobenzene	5	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
1-Methylnaphthalene	NL	4.07 J	2.54 J	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2,4,5-Trichlorophenol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
2,4,6-Trichlorophenol	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
Pentachloronitrobenzene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25
1,2,4,5-Tetrachlorobenzene	NL	< 4.76	< 4.72	< 4.72	< 4.81	< 4.85	< 4.76	< 4.76	< 4.85	< 4.85	< 6.25

Notes:

ug/L - micrograms per liter

NA = Not Analyzed

NL = Not Listed

<= The material was analyzed for but not detected at, or above, the reporting limit.

The associated numerical value is the sample quantitation limit.

Bold indicates compound detected at a concentration greater than the reporting limit.

Orange highlighted values exceed NYSDEC Groundwater Guidance or Standard Value

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

TABLE 1
GROUND WATER
ANALYTICAL RESULTS
SOUTH BROOKLYN MARINE TERMINAL, BROOKLYN, NEW YORK

Sample ID Sample Date	NYSDEC AWQSGV	GW-8 10/08/2018	GW-8A 10/08/2018
PCBs (ug/L)			
Aroclor-1016	NL	< 0.190	< 0.247
Aroclor-1221	NL	< 0.190	< 0.247
Aroclor-1232	NL	< 0.190	< 0.247
Aroclor-1242	NL	< 0.190	< 0.247
Aroclor-1248	NL	< 0.190	< 0.247
Aroclor-1254	NL	< 0.190	< 0.247
Aroclor-1260	NL	< 0.190	< 0.247
Aroclor-1262	NL	< 0.190	< 0.247
Aroclor-1268	NL	< 0.190	< 0.247

Notes:

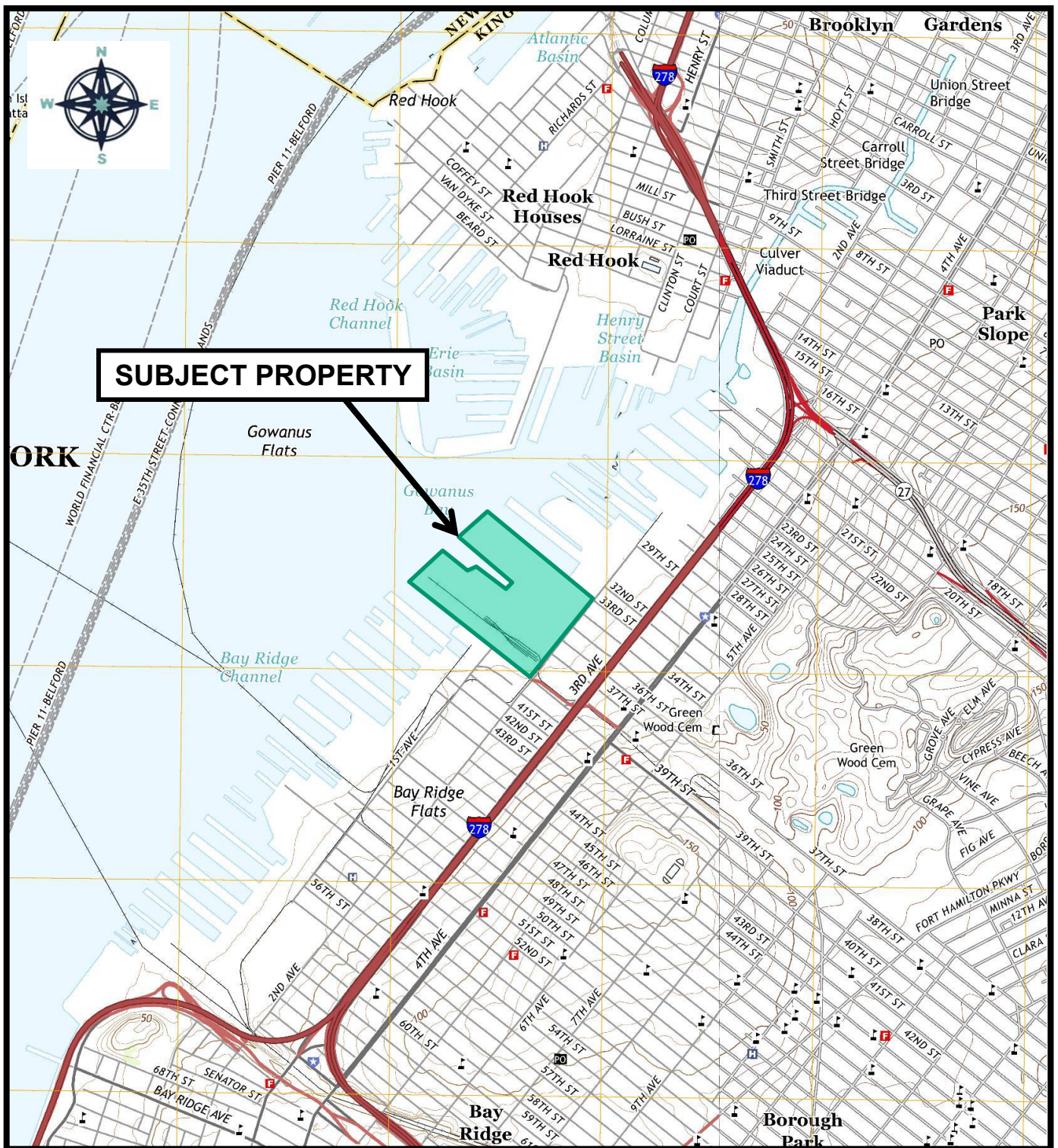
ug/L - micrograms per liter

NA = Not Analyzed

NL = Not Listed

< = The material was analyzed for but not detected at, or above,
the reporting limit. The associated numerical value is the
sample quantitation limit.

Figures



Scale 1:24,000

BROOKLYN, NY / JERSEY CITY, NJ
7.5 Minute U.S.G.S. Quadrangle – 2013 / 2014



Figure 1
Site Location Map
South Brooklyn Marine Terminal
Brooklyn, New York



Figure 2
 Site Plan
 South Brooklyn Marine Terminal
 Second Avenue between 33rd and 39th Streets
 Brooklyn, New York



Figure 3
Location of Environmental Samples
South Brooklyn Marine Terminal
Brooklyn, New York



APPROXIMATE SCALE 200 FEET



Figure 4
Analytical Results – Surface and Subsurface Soil Samples
South Brooklyn Marine Terminal
Brooklyn, New York

Sample ID	B-2		
	0-2	5-7	
Sample Depth	10/03/2018	10/03/2018	
Sample Date			
VOCs - BTEX (ug/Kg)			
m&p-Xylene	140 J	ND	
Total Xylenes	140 J	ND	
Other VOCs (ug/Kg)			
1,2,4-Trichlorobenzene	180 J	ND	
1,2,4-Trimethylbenzene	ND	74 J	
2-Isopropyltoluene	ND	0.83 J	
Acetone	ND	40 S	
Carbon Disulfide	ND	1.6 J	
Methyl Ethyl Ketone	ND	9.9 J	
Naphthalene	170 J	220	
p-Isopropyltoluene	ND	0.59 J	
sec-Butylbenzene	ND	0.68 J	
SVOCs - PAHs (ug/Kg)			
2-Methylnaphthalene	771	ND	
Acenaphthylene	65.5 J	ND	
Anthracene	124	381 D	
Benzo (a) anthracene	307	984 D	
Benzo (a) pyrene	382	978 D	
Benzo (b) fluoranthene	344	818 D	
Benzo (g,h,i) perylene	345	838 D	
Benzo (k) fluoranthene	359	586 D	
Chrysene	345	1,110 D	
Dibenzo (a,h) anthracene	78.2	207 J, D	
Fluoranthene	591	1,330 D	
Fluorene	52.1 J	209 J, D	
Indeno (1,2,3-cd) pyrene	337	753 D	
Naphthalene	242	226 J, D	
Phenanthrene	344	1,330 D	
Pyrene	516	1,420 D	
Other SVOC (ug/Kg)			
Dibenzofuran	91.5 J	165 J, D	
1-Methylnaphthalene	262	ND	

Sample ID	B-1		
	0-2	2-4	
Sample Depth	10/03/2018	10/03/2018	
Sample Date			
VOCs - BTEX (ug/Kg)	ND	ND	
Other VOCs (ug/Kg)			
Acetone	ND	6.7 J, S	
SVOCs - (PAHs) (ug/Kg)			
Acenaphthene	469 D	ND	
Anthracene	1,350 D	247 J, D	
Benzo (a) anthracene	3,090 D	534 D	
Benzo (a) pyrene	2,810 D	384 D	
Benzo (b) fluoranthene	2,680 D	336 J, D	
Benzo (g,h,i) perylene	1,570 D	191 J, D	
Benzo (k) fluoranthene	1,370 D	256 J, D	
Chrysene	2,910 D	499 D	
Dibenzo (a,h) anthracene	385 D	ND	
Fluoranthene	4,920 D	1,040 D	
Fluorene	373 D	ND	
Indeno (1,2,3-cd) pyrene	1,600 D	213 J, D	
Phenanthrene	3,320 D	377 D	
Pyrene	6,100 D	1,060 D	
Other SVOC (ug/Kg)			
Dibenzofuran	324 J, D	ND	

Sample ID	B-3		
	0-2	6-8	
Sample Depth	10/03/2018	10/03/2018	
Sample Date			
VOCs - BTEX (ug/Kg)	ND	ND	
Other VOCs (ug/Kg)			
1,2,4-Trimethylbenzene	ND	1.4 J	
1,3,5-Trimethylbenzene	ND	0.68 J	
Acetone	17 J, S	14 J, S	
Isopropylbenzene	ND	0.68 J	
p-Isopropyltoluene	ND	3.0 J	
sec-Butylbenzene	ND	2.8 J	
tert-Butylbenzene	ND	1.3 J	
SVOCs - PAHs (ug/Kg)			
2-Methylnaphthalene	753 D	ND	
Acenaphthene	ND	ND	
Acenaphthylene	ND	ND	
Anthracene	256 J, D	1,080 J, D	
Benzo (a) anthracene	1,100 D	3,970 D	
Benzo (a) pyrene	1,040 D	4,010 D	
Benzo (b) fluoranthene	1,290 D	3,580 D	
Benzo (g,h,i) perylene	728 D	2,900 D	
Benzo (k) fluoranthene	806 D	3,040 D	
Chrysene	1,150 D	3,980 D	
Dibenzo (a,h) anthracene	196 J, D	873 J, D	
Fluoranthene	1,740 D	5,220 D	
Fluorene	ND	761 J, D	
Indeno (1,2,3-cd) pyrene	702 D	2,920 D	
Naphthalene	313 J, D	ND	
Phenanthrene	1,140 D	4,190 D	
Pyrene	1,710 D	7,100 D	
Other SVOC (ug/Kg)			
Dibenzofuran	160 J, D	ND	
1-Methylnaphthalene	231 J, D	ND	

Sample ID	B-14		
	0-2	5-7	
Sample Depth	10/06/2018	10/06/2018	
Sample Date			
VOCs - BTEX (ug/Kg)			
Ethylbenzene	1.1 J	ND	
m&p-Xylene	4.3 J	ND	
o-Xylene	2.5 J	ND	
Toluene	0.61 J	ND	
Total Xylenes	6.8	ND	
Other VOCs (ug/Kg)			
1,2,4-Trimethylbenzene	7.0	ND	
1,3,5-Trimethylbenzene	2.1 J	ND	
Acetone	27 S	10 S, J	
Carbon Disulfide	1.8 J	4.4 J	
Isopropylbenzene	0.6 J	ND	
Methyl Ethyl Ketone	8.3 J	ND	
Naphthalene	6.2	ND	
p-Isopropyltoluene	0.57 J	ND	
sec-Butylbenzene	0.56 J	ND	
SVOCs - PAHs (ug/Kg)			
Benzo (a) anthracene	ND	55.1 J	
Benzo (a) pyrene	ND	53.2 J	
Benzo (g,h,i) perylene	ND	35.7 J	
Benzo (k) fluoranthene	ND	31.8 J	
Chrysene	ND	50.5 J	
Fluoranthene	ND	74.5 J	
Indeno (1,2,3-cd) pyrene	ND	28.3 J	
Phenanthrene	ND	43.5 J	
Pyrene	ND	79.6	
Other SVOC (ug/Kg)			
Bis(2-ethylhexyl)phthalate	ND	139 J	
PCBs (ug/Kg)	ND	ND	

Sample ID	B-14A		
	(0-2)	(0-2) R	
Sample Depth	10/06/2018	10/06/2018	
Sample Date			
VOCs - BTEX (ug/Kg)	NA	ND	
Other VOCs (ug/Kg)			
Acetone	21 S, J	NA	
Carbon Disulfide	1.5 J	NA	
SVOCs - PAHs (ug/Kg)	ND	NA	
Other SVOC (ug/Kg)	ND	NA	
PCBs (ug/Kg)			
Aroclor-1232	1660	ND	
Aroclor-1248	56600 E	ND	
Aroclor-1254	66500 E	61000	
Total Aroclor	124760	61000	

Sample ID	B-4		
	0-2	6-8	10-12
Sample Depth	10/03/2018	10/03/2018	10/03/2018
Sample Date			
VOCs - BTEX (ug/Kg)			
m&p-Xylene	95 J	2.8 J	ND
Toluene	69 J	ND	ND
Total Xylenes	95 J	2.8 J	ND
Other VOCs (ug/Kg)			
1,2,4-Trimethylbenzene	54 J	ND	ND
1,3,5-Trimethylbenzene	41 J	ND	ND
Acetone	ND	280 S	92 S
Carbon Disulfide	ND	2.0 J	2.8 J
Methyl Ethyl Ketone	ND	66	34
Naphthalene	80 J	ND	ND
SVOCs - PAHs (ug/Kg)			
2-Methylnaphthalene	867 D	ND	ND
Benzo (a) anthracene	435 J, D	ND	ND
Benzo (a) pyrene	372 J, D	ND	ND
Benzo (b) fluoranthene	398 J, D	ND	ND
Benzo (k) fluoranthene	454 J, D	ND	ND
Chrysene	638 J, D	ND	ND
Fluoranthene	668 J, D	ND	ND
Phenanthrene	687 J, D	ND	ND
Pyrene	942 D	ND	ND
Other SVOC (ug/Kg)	ND	ND	ND

Sample ID	B-5		
	0-2	(0-2) R	5.5 - 7.5
Sample Depth	10/03/2018	10/03/2018	10/03/2018
Sample Date			
VOCs - BTEX (ug/Kg)	ND	NA	ND
Other VOCs (ug/Kg)			
Acetone	12 J, S	NA	ND
SVOCs - PAHs (ug/Kg)			
Anthracene	35.6 J	ND	84
Benzo (a) anthracene	247	114	464
Benzo (a) pyrene	293	104	478
Benzo (b) fluoranthene	245	94.2	472
Benzo (g,h,i) perylene	154	51.2 J	257
Benzo (k) fluoranthene	211	74.9	200
Chrysene	259	107	504
Dibenzo (a,h) anthracene	38.5 J	ND	63.4
Fluoranthene	363	212	630
Indeno (1,2,3-cd) pyrene	160	48.7 J	215
Phenanthrene	153	106	361
Pyrene	368	198	750
Other SVOC (ug/Kg)			
Bis(2-ethylhexyl)phthalate	468	287	337

Sample ID	B-7		
	0-2	5-7	
Sample Depth	10/04/2018	10/04/2018	
Sample Date			
VOCs - BTEX (ug/Kg)	ND	ND	
Other VOCs (ug/Kg)			
Acetone	17 S, J	44 S	
Methyl Ethyl Ketone	ND	8.1 J	
SVOCs - PAHs (ug/Kg)			
Acenaphthylene	ND	288 D	
Anthracene	717 J, D	192 D	
Benzo (a) anthracene	4,640 D	2,200 D	
Benzo (a) pyrene	4,440 D	1,890 D	
Benzo (b) fluoranthene	4,510 D	1,980 D	
Benzo (g,h,i) perylene	3,150 D	1,070 D	
Benzo (k) fluoranthene	3,180 D	1,170 D	
Chrysene	4,560 D	2,100 D	
Dibenzo (a,h) anthracene	1,100 D	353 D	
Fluoranthene	6,190 D	3,720 D	
Indeno (1,2,3-cd) pyrene	3,310 D	1,250 D	
Phenanthrene	3,110 D	576 D	
Pyrene	6,370 D	2,370 D	
Other SVOC (ug/Kg)			
Bis(2-ethylhexyl)phthalate	ND	414 D	

Sample ID	B-6		
	0-2	5-7	
Sample Depth	10/04/2018	10/04/2018	
Sample Date			
VOCs - BTEX (ug/Kg)	ND	ND	
Other VOCs (ug/Kg)			
1,1,1-Trichloroethane	1.7 J	0.71 J	
SVOCs - PAHs (ug/Kg)			
Benzo (a) anthracene	843 J, D	51.4 J	
Benzo (a) pyrene	1,060 J, D	60.6 J	
Benzo (b) fluoranthene	858 J, D	55.5 J	
Benzo (g,h,i) perylene	998 J, D	38.1 J	
Benzo (k) fluoranthene	ND	41.4 J	
Chrysene	939 J, D	52.5 J	
Fluoranthene	1,560 D	79.5	
Indeno (1,2,3-cd) pyrene	696 J, D	38.1 J	
Phenanthrene	858 J, D	ND	
Pyrene	1,780 D	90.2	
Other SVOC (ug/Kg)			
Bis(2-ethylhexyl)phthalate	ND	213	

Sample ID	B-13		
	0-2	2.5-4.5	
Sample Depth	10/05/2018	10/05/2018	
Sample Date			
VOCs - BTEX (ug/Kg)	ND	ND	
Other VOCs (ug/Kg)			
Acetone	25 J, S	15 J, S	
Methyl Ethyl Ketone	8.4 J	ND	
SVOCs - PAHs (ug/Kg)			
Benzo (a) anthracene	ND	49 J	
Benzo (a) pyrene	ND	36.4 J	
Benzo (k) fluoranthene	ND	34.6 J	
Chrysene	ND	43.6 J	
Fluoranthene	ND	77.2	
Pyrene	ND	67.8 J	
Other SVOC (ug/Kg)	ND	ND	

Sample ID	B-11		
	0-2	B-11 DUP (0-2)	5-7
Sample Depth	10/03/2018	10/03/2018	10/03/2018
Sample Date			
VOCs - BTEX (ug/Kg)			
Benzene	ND	ND	64 J
m&p-Xylene	ND	ND	150 J
Toluene	ND	ND	210 J
Other VOCs (ug/Kg)			
Acetone	ND	ND	730 S, J
Naphthalene	150 J	ND	250 J
SVOCs - PAHs (ug/Kg)			
Acenaphthene	343 J, D	ND	625 D
Anthracene	912 D	1,270 J, D	1,630 D
Benzo (a) anthracene	3,720 D	5,210 D	7,480 D
Benzo (a) pyrene	3,590 D	5,000 D	6,720 D
Benzo (b) fluoranthene	3,180 D	5,230 D	7,170 D
Benzo (g,h,i) perylene	2,520 D	3,400 D	4,120 D
Benzo (k) fluoranthene	2,820 D	3,670 D	4,460 D
Chrysene	3,580 D	5,310 D	7,430 D
Dibenzo (a,h) anthracene	674 D	929 J, D	1,300 D
Fluoranthene	7,620 D	8,780 D	12,900 D
Fluorene	357 J, D	ND	659 D
Indeno (1,2,3-cd) pyrene	2,590 D	3,560 D	4,270 D
Naphthalene	ND	ND	183 J, D
Phenanthrene	4,550 D	6,440 D	8,100 D
Pyrene	6,870 D	9,240 D	12,700 D
Other SVOC (ug/Kg)			
Bis(2-ethylhexyl)phthalate	ND	ND	322 J, D
Dibenzofuran	259 J, D	ND	474 J, D

Sample ID	B-12		
	0-2	7-9	
Sample Depth	10/04/2018	10/04/2018	
Sample Date			
VOCs - BTEX (ug/Kg)	ND	ND	
Other VOCs (ug/Kg)			
Acetone	ND	ND	
SVOCs - PAHs (ug/Kg)			
Acenaphthene	ND	113 J, D	
Acenaphthylene	ND	215 D	
Anthracene	1,190 D	627 D	
Benzo (a) anthracene	5,560 D	3,740 D	
Benzo (a) pyrene	5,420 D	3,790 D	
Benzo (b) fluoranthene	4,970 D	4,510 D	
Benzo (g,h,i) perylene	3,440 D	2,320 D	
Benzo (k) fluoranthene	4,540 D	1,780 D	
Chrysene	5,270 D	3,370 D	
Dibenzo (a,h) anthracene	1,020 D	765 D	
Fluoranthene	11,300 D	6,280 D	
Fluorene	405 J, D	213 D	
Indeno (1,2,3-cd) pyrene	3,520 D	2,500 D	
Phenanthrene	4,880 D	2,880 D	
Pyrene	9,870 D	3,570 D	
Other SVOC (ug/Kg)			
Bis(2-ethylhexyl)phthalate	322 J, D	ND	
Dibenzofuran	474 J, D	ND	

Sample ID	B-9		
	0-2	(0-2) R	5-7
Sample Depth	10/04/2018	10/04/2018	10/04/2018
Sample Date			
VOCs - BTEX (ug/Kg)	ND	NA	ND
Other VOCs (ug/Kg)			
1,1,1-Trichloroethane	ND	NA	0.52 J
Acetone	10 S, J	10 S, J	ND
SVOCs - PAHs (ug/Kg)	ND	ND	ND
Other SVOC (ug/Kg)	ND	ND	ND



Figure 5
Analytical Results – Ground Water Samples
South Brooklyn Marine Terminal
Brooklyn, New York

Sample ID	GW-1
Sample Date	10/03/2018
VOCs - BTEX (ug/L)	ND
Other VOCs (ug/L)	
Acetone	3.1 S, J
Carbon Disulfide	0.27 J
SVOCs - PAHs (ug/L)	ND
Other SVOC (ug/L)	
Di-n-butyl phthalate	0.686 J
1-Methylnaphthalene	4.07 J

Sample ID	GW-2	GW-2DUP
Sample Date	10/03/2018	10/03/2018
VOCs - BTEX (ug/L)	ND	ND
Other VOCs (ug/L)		
Acetone	ND	3.9
Carbon Disulfide	ND	0.54
SVOCs - PAHs (ug/L)	ND	ND
Other SVOC (ug/L)		
Bis(2-ethylhexyl)phthalate	ND	1.86 J
1-Methylnaphthalene	2.54 J	ND

Sample ID	GW-8	GW-8A
Sample Date	10/08/2018	10/08/2018
VOCs - BTEX (ug/L)	ND	ND
Other VOCs (ug/L)	ND	ND
SVOCs - PAHs (ug/L)	ND	ND
Other SVOC (ug/L)	ND	ND
PCBs (ug/L)	ND	ND

Sample ID	GW-5
Sample Date	10/03/2018
VOCs - BTEX (ug/L)	ND
Other VOCs (ug/L)	
Dichlorodifluoromethane	0.28 J
Methyl t-butyl ether (MTBE)	0.27 J
SVOCs - PAHs (ug/L)	ND
Other SVOC (ug/L)	ND

Sample ID	GW-6
Sample Date	10/04/2018
VOCs - BTEX (ug/L)	
Toluene	0.34 J
Other VOCs (ug/L)	
Acetone	2.9 J, S
SVOCs - PAHs (ug/L)	
Acenaphthene	1.82 J
Benzo (a) anthracene	1.2 J
Benzo (a) pyrene	0.99 J
Benzo (b) fluoranthene	0.752 J
Chrysene	1.36 J
Fluoranthene	2.72 J
Fluorene	1.31 J
Phenanthrene	6.76
Pyrene	3.25 J
Other SVOC (ug/L)	ND

Sample ID	GW-3
Sample Date	10/04/2018
VOCs - BTEX (ug/L)	ND
Other VOCs (ug/L)	
Acetone	3.7 S, J
Chloroethane	2.0
SVOCs - PAHs (ug/L)	ND
Other SVOC (ug/L)	ND

Sample ID	GW-7
Sample Date	10/05/2018
VOCs - BTEX (ug/L)	ND
Other VOCs (ug/L)	
Acetone	3.1 J, S
Acrylonitrile	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 0.50
Bromoform	< 1.0
Bromomethane	< 1.0
Carbon Disulfide	< 5.0
Carbon tetrachloride	< 1.0
Chlorobenzene	0.3 J
SVOCs - PAHs (ug/L)	ND
Other SVOC (ug/L)	ND

Sample ID	GW-4
Sample Date	10/05/2018
VOCs - BTEX (ug/L)	ND
Other VOCs (ug/L)	
1,1-Dichloroethane	0.31 J
Acetone	2.8 J, S
SVOCs - PAHs (ug/L)	ND
Other SVOC (ug/L)	ND

Notes:

ug/L - micrograms per liter

NA = Not Analyzed

ND = Not Detected above minimum laboratory detection limits

Bold indicates compound detected at a concentration greater than the reporting limit.

Orange shaded values exceed NYSDEC Groundwater Guidance or Standard Value

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

S - Laboratory solvent, contamination is possible.

APPROXIMATE SCALE 200 FEET

Appendix A

Boring Logs

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 1		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: N Shed		
CAS. SAMPLER CORE TUBE										GROUND ELEVATION:		
DATE	TIME	LEVEL	TYPE	TYPE		macro				DATE STARTED: 10/03/18		
				DIA.		2"				DATE FINISHED: 10/03/18		
				WT.		-				DRILLER: Quincy Brandt		
				FALL		-				GEOLOGIST: John Crespo		
										REVIEWED BY:		
DEPTH FEET	SAMPLE			DESCRIPTION						REMARKS		
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION				USCS CLASS	PID	Moist.
			hand clear	dk brown	dense	10" concrete				SP ↓ GM	10.9	
						-Fine med sand, fine med pebbles, fine gravel. Odor					56.5	dry
		1	66%	↓ brown	med dense	-same as above					33.2	
						-crushed stone, L gravel, brick, fm sand, pebbles					3.8	↓
5						End of Boring at : 4' due to refusal. Two other locations nearby also resulted in refusal at the same depth.						
10												
15												
20												
25												
30												
COMMENTS: Soil broings were advanced using a track mounted Geo Probe										PROJECT NO. 60558675		
model 6620DT. The following samples were collected and sent to Eurofins										BORING/WELL NO. B - 1		
Laboratories for VOC and SVOC analysis: B-1 (0 - 02') at 11:20 and B-1 (2 - 4')												
at 11:30												

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 2		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: N Shed		
				CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/03/18			
				DIA.		2"			DATE FINISHED: 10/03/18			
				WT.		-			DRILLER: Quincy Brandt			
				FALL		-			GEOLOGIST: John Crespo			
										REVIEWED BY:		
DEPTH FEET	SAMPLE			DESCRIPTION					REMARKS			
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION			USCS CLASS	PID	Moist.	
	▽	1	hand clear	grey	medium	9" concrete			SP	0.0	dry	
			dk brown	-fine med sand, fine med large gravel			1.7	moist				
			grey	-same as above with pulverized charcoal			13.3					
			brown	-fine med sand, fine pebbles, large crushed concrete imbeded			10.2					
							6.7					
5		2	63%		medium/ loose				SM	5.1	wet	
						-fine med sand, trace silt and clay				3.4		
						-fine gravel. Band of asphalt 2" wide at 9'				2.2		
										1.5		
										0.5		
10		3	80%	dk brown		-fine med sand, trace silt, fine med large gravel				0.0		
				grey		with crushed black rock				0.1		
				brown		-fine med sand and silt				0.0		
				dk brown		-same with large gravel imbeded				0.1		
										0.2		
15					End of Boring at : 15' b.g.							
					Installed temporary well to collect ground water sample GW-1 (for VOC and SVOC)							
					Diameter : 1"							
					Material : sch 40 PVC							
					Depth to Bottom: 20'							
20												
25												
30												

COMMENTS: Soil borings were advanced using a track mounted Geo Probe model 6620DT. The following samples were collected and sent to Eurofins Laboratories for VOC and SVOC analysis: B-2 (0 - 2') at 10:30 and B-2 (5 - 7') at 10:50						PROJECT NO. 60558675	
						BORING/WELL NO. B - 2	

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 3		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: N Shed		
				CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/02/18			
				DIA.		2"			DATE FINISHED: 10/02/18			
				WT.		-			DRILLER: Quincy Brandt			
				FALL		-			GEOLOGIST: John Crespo			
								REVIEWED BY:				
DEPTH FEET	SAMPLE			DESCRIPTION					REMARKS			
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION			USCS CLASS	PID	Moist.	
			hand clear	grey		9" concrete			SP	0.0	dry	
				dk brown	medium	- Fine med sand, trace silt, fm gravel and brick				0.0	moist	
				dk grey	↓	- fine med and, med L gravel, pulverized black rock				5.1		
		1	72%	↓	medium	med pebbles				10.5		
					dense					30.6		
5										7.5		
		2	76%		black		-Fine med sand, f med L gravel, pulverized schist at 7'. Some odor.			53.4		
					↓		-fine med sand, f m L gravel, f pebbles. Odor			42.2	↓	
					↓		- fine med sand, trace silt and clay			SM 104	wet	
10												
						END OF BORING AT 9' DUE TO REFUSAL						
						Drilled a second location 3' east and hit refusal again at 7' b.g.						
15												
20												
25												
30												
COMMENTS: Soil broings were advanced using a track mounted Geo Probe										PROJECT NO. 60558675		
model 6620DT. The following samples were collected and sent to Eurofins												
Laboratories for VOC and SVOC analysis: B-3 (0 - 2') at 13:30 and B-3 (6 - 8')										BORING/WELL NO. B - 3		
at 13:50												

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 4		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: N Shed		
				CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE	macro			DATE STARTED: 10/02/18				
				DIA.	2"			DATE FINISHED: 10/02/18				
				WT.	-			DRILLER: Quincy Brandt				
				FALL	-			GEOLOGIST: John Crespo				
										REVIEWED BY:		
DEPTH FEET	SAMPLE			DESCRIPTION				REMARKS				
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION		USCS CLASS	PID	Moist.		
			hand clear	grey	medium	8" concrete		SP	0.0	dry		
				black		- fine med sand, f m gravel, crushed concrete			0.1	moist		
		1	75%	brown		↓			0.0	↓	wet	
				grey		-fine med sand, trace silt, gravel and pebbles			0.0			
						-same as above with fine brick and ceramic			0.7			
5		2	53%			- fine med sand, trace silte, large brick, fine med gravel imbeded			0.1	↓		
				brown		↓			1.1			
				lt. brown		- fine sand, trace silt and clay, fine gravel			0.4			
									0.4			
10		3	93%	dk. Brown		- same as above with sheen of product and large crushed rock. Petroleum odor.			0.3	↓		
				↓		↓			0.3			
				dk. Grey		- fine med sand			0.2			
									0.1			
							loose			SM	0.2	
15						End of Boring at : 15 ' b.g.						
						Ground water at around : 8.5' b.g.						
						Collected additional sample from 10 - 12' b.g. due to the presence of oil.						
20												
25												
30												

COMMENTS: Soil broings were advanced using a track mounted Geo Probe model 6620DT. The following samples were collected and sent to Eurofins Laboratories for VOC and SVOC analysis: B-4 (0 - 2') at 11:50, B-4 (6 - 8') at 12:15 and B-4 (10 - 12').						PROJECT NO. 60558675	
						BORING/WELL NO. B - 4	

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 6		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: auto maintenance		
				CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/04/18			
				DIA.		2"			DATE FINISHED: 10/04/18			
				WT.		-			DRILLER: Quincy Brandt			
				FALL		-			GEOLOGIST: John Crespo			
										REVIEWED BY:		
DEPTH FEET	SAMPLE			DESCRIPTION				REMARKS				
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION		USCS CLASS	PID	Moist.		
	▽	1	hand clear	grey	medium	7" concrete		SP	0	dry		
					brown		- fine med sand, brick, glass, fine gravel (fill)		0	moist		
					black	↓	- layer of asphalt 6" thick		0			
				55%	brown	medium/ loose	- fine med sandk, trace silt, large gravel imbeded		0			
5			2			- finemed sand, large gravel and trace crushed glass imbeded		↓	0	↓		
									0			
									0			
									0			
10			3		dk. Brown		- fine med sand, trace silt and med L gravel		SM	0	↓	
						fine sand, trace silt and clay		0				
								0				
								0				
15						End of Boring at : 15' b.g.						
						Ground water at around : 7 1/2' b.g.						
						Installed temporary well to collect ground water sample GW - 3 (for VOC and SVOC)						
20						Diameter : 1"						
						Material : sch 40 PVC						
						Depth to Bottom: 20'						
25												
30												

COMMENTS: Soil borings were advanced using a track mounted Geo Probe						PROJECT NO. 60558675	
model 6620DT. The following samples were collected and sent to Eurofins						BORING/WELL NO. B - 6	
Laboratories for VOC and SVOC analysis: B-6 (0 - 2') at 11:06 and B-6 (5 - 7')							
at 11:45. MS / MSD samples at 11:10 and 11:15 respectively collected from (0 - 2')							

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 7		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: auto maintenance		
					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/04/18			
				DIA.		2"			DATE FINISHED: 10/04/18			
				WT.		-			DRILLER: Quincy Brandt			
				FALL		-			GEOLOGIST: John Crespo			
										REVIEWED BY:		
DEPTH FEET	SAMPLE			DESCRIPTION					REMARKS			
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION			USCS CLASS	PID	Moist.	
	▽		hand clear	grey		6" concrete and rebar			SP	0	dry	
				brown	medium/ dense	-fine med L sand,fine med gravel and some brick				0	moist	
		1	58%	↓ silver brown	↓	↓ - pulverized concrete			0			
				↓ brown	↓	- fine m sand, t silt, 2" thick asphalt @ 4 1/2'			0			
5				↓ silver brown	medium/ ↓	- fine med and, fine gravel			0			
		2	36%	↓ brown	↓	- pulverized concrete			0			
				↓ brown	↓	- fine med sand, med pebbles imbeded			0			
				↓ brown	↓				0			
10				↓ dk. Brown	medium/ loose	- fine med sand, trace silt, med L gravel			0			
		3	82%	↓ dk. Grey	↓	↓ - fine med large sand, fine gravel, fine brown and grey stone imbeded.			0			
									0			
									0			
									0			
15												
20												
25												
30												
COMMENTS: Soil broings were advanced using a track mounted Geo Probe model 6620DT. The following samples were collected and sent to Eurofins Laboratories for VOC and SVOC analysis: B-7 (0 - 2') at 13:40 and B-7 (5 - 7') at 14:12										PROJECT NO. 60558675 BORING/WELL NO. B - 7		

AECOM Corporation										TEST BORING LOG			
										BORING/WELL NO:		B - 8	
PROJECT: South Brooklyn Marine Terminal										SHEET:		1 of 1	
CLIENT:										JOB NO.:		60558675	
BORING CONTRACTOR: Cascade Environmental										BORING LOCATION:		auto maintenance	
GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/05/18				
				DIA.		2"			DATE FINISHED: 10/05/18				
				WT.		-			DRILLER: Quincy Brandt				
				FALL		-			GEOLOGIST: John Crespo				
									REVIEWED BY:				
DEPTH FEET	SAMPLE			DESCRIPTION					REMARKS				
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION			USCS CLASS	PID	Moist.		
	▽		hand clear	grey	dense	5" asphalt, fine med sand, large gravel and med pebbles. Concrete 3" thick at around 1 1/2'			SP	0	dry		
				↓	medium/	- fine med sand, L gravel imbeded, L brick and 1" thick layer of asphalt at 4 1/2'				0	moist		
		1	50%	brown	↓					0			
										0			
5						medium/	- fine med sand, 2" thick layer of asphalt at 6'. Large gravel with green rock at 9'. Trace silt			SM	0	wet	
		2	42%			loose					0		
											0		
											0		
10							- fine med sand, trace silt and clay				0		
							↓				0		
		3	68%				- fine med large sand, trace silt				0		
											0		
15						End of Boring at : 15' b.g. Ground water at around : 6 3/4' b.g.							
20													
25													
30													
COMMENTS: Soil broings were advanced using a track mounted Geo Probe										PROJECT NO.		60558675	
model 6620DT. The following samples were collected and sent to Eurofins													
Laboratories for VOC and SVOC analysis: B-8 (0 - 2') at 11:30 and B-8 (4 - 6')										BORING/WELL NO.		B - 8	
at 11:40													

AECOM Corporation										TEST BORING LOG																																															
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 9																																															
CLIENT:										SHEET: 1 of 1																																															
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675																																															
GROUNDWATER (BTOC):										BORING LOCATION: auto maintenance																																															
<table border="1"> <tr> <td>DATE</td> <td>TIME</td> <td>LEVEL</td> <td>TYPE</td> <td>TYPE</td> <td>CAS.</td> <td>SAMPLER</td> <td>CORE</td> <td>TUBE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>macro</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>DIA.</td> <td></td> <td>2"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>WT.</td> <td></td> <td>-</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>FALL</td> <td></td> <td>-</td> <td></td> <td></td> </tr> </table>										DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE							macro							DIA.		2"							WT.		-							FALL		-			GROUND ELEVATION:		
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE																																																	
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										DRILLER: Quincy Brandt																																															
										GEOLOGIST: John Crespo																																															
										REVIEWED BY:																																															
DEPTH FEET	SAMPLE			DESCRIPTION					REMARKS																																																
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION			USCS CLASS	PID	Moist.																																														
	▽		hand clear	black		2" asphalt, fine med sand, fine pebbles. Interlayers			SP	0	dry																																														
				brown	medium	of crushed concrete and soil				0	moist																																														
		1	61%			- fine med sand, fine med L gravel. 2" layer of brick at 4' over thin layer of concrete (fill material)				0																																															
										0																																															
5						- fine med sand, trace silt, fine med gravel imbeded			↓	0																																															
										0																																															
		2	55%			- thin layer of grey color sand and silt			SM	0	wet																																														
						- fine med sand, trace silt				0																																															
10						medium loose	;- fine med sand, trace silt, some large gravel imbeded				0																																														
											0																																														
		3	70%		dk. Brown		- same as above with large sand			↓	0																																														
											0																																														
15							End of Boring at : 15' b.g. Ground water at around : 7 1/2' b.g.																																																		
20																																																									
25																																																									
30																																																									
COMMENTS: Soil borings were advanced using a track mounted Geo Probe model 6620DT. The following samples were collected and sent to Eurofins Laboratories for VOC and SVOC analysis: B-9 (0 - 2') at 14:37 and B-9 (5 - 7') at 14:50										PROJECT NO. 60558675 BORING/WELL NO. B - 9																																															

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 10		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: auto maintenance		
				CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/05/18			
				DIA.		2"			DATE FINISHED: 10/05/18			
				WT.		-			DRILLER: Quincy Brandt			
				FALL		-			GEOLOGIST: John Crespo			
										REVIEWED BY:		
DEPTH FEET	SAMPLE			DESCRIPTION				REMARKS				
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	PID	Moist.			
	▽	1	hand clear	black	medium	2" asphalt, fine med sand, fine pebbles. Interlayers of crushed concrete and soil	SP	0	dry			
			61%	brown				- fine med sand, fine med L gravel. 2" layer of brick at 4' over thin layer of concrete (fill material)	0.3	moist		
									0.1			
5		2	55%		↓	- fine med sand, trace silt, fine med gravel imbeded	↓	0	↓			
								- thin layer of grey color sand and silt		0	wet	
								- fine med sand, trace silt		0		
10		3	70%		↓	;- fine med sand, trace silt, some large gravel imbeded	↓	0	↓			
										0		
								dk. Brown		medium loose	- same as above with large sand	0
15							End of Boring at : 15' b.g. Ground water at around : 6 1/2' b.g. Installed temporary well to collect ground water sample GW - 4 (for VOC and SVOC) Diameter : 1" Material : sch 40 PVC Depth to Bottom: 20'					
20												
25												
30												

COMMENTS: Soil borings were advanced using a track mounted Geo Probe model 6620DT. The following samples were collected and sent to Eurofins Laboratories for VOC and SVOC analysis: B-10 (0 - 2') at 9:26 and B-10 (4 - 6') at 9:45						PROJECT NO. 60558675 BORING/WELL NO. B - 10	

AECOM Corporation										TEST BORING LOG																						
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 11																						
CLIENT:										SHEET: 1 of 1																						
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675																						
GROUNDWATER (BTOC):										BORING LOCATION: Hyundai Autos																						
<table border="1"> <tr> <td>CAS.</td> <td>SAMPLER</td> <td>CORE</td> <td>TUBE</td> </tr> <tr> <td></td> <td>macro</td> <td></td> <td></td> </tr> <tr> <td>DIA.</td> <td>2"</td> <td></td> <td></td> </tr> <tr> <td>WT.</td> <td>-</td> <td></td> <td></td> </tr> <tr> <td>FALL</td> <td>-</td> <td></td> <td></td> </tr> </table>										CAS.	SAMPLER	CORE	TUBE		macro			DIA.	2"			WT.	-			FALL	-			GROUND ELEVATION:		
CAS.	SAMPLER	CORE	TUBE																													
	macro																															
DIA.	2"																															
WT.	-																															
FALL	-																															
DATE										DATE STARTED: 10/03/18																						
TIME										DATE FINISHED: 10/03/18																						
LEVEL										DRILLER: Quincy Brandt																						
TYPE										GEOLOGIST: John Crespo																						
										REVIEWED BY:																						
DEPTH FEET	SAMPLE			DESCRIPTION					REMARKS																							
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION		USCS CLASS	PID	Moist.																						
			hand clear	black		8" asphalt. Fine med sand, fine pebbles and gravel		SP	0	dry																						
				brown	medium	and fine charcoal			0	moist																						
		1	81%	grey	medium/	- pulverized concrete over layer of asphalt		↓	0	↓																						
				brown	dense	- fine med sand			0.1																							
				dk. Grey		- crushed asphalt, fine gravel and med sand			0																							
5			2	45%	↓	↓	- fine med sand		SM	0	↓																					
		grey			medium/	- fine med and large sand, fine med gravel, fine		0																								
					loose	med charcoal, and light brown sand imbeded.		0																								
						↓		0																								
						↓		0																								
10			3	43%			- same as above with large white color sand		↓	0	↓																					
						imbeded		0																								
						↓		0.1																								
15																																
							End of Boring at : 15' b.g.																									
						Ground water at around : 7 1/2' b.g.																										
						Installed temporary well to collect ground water																										
20						sample GW - 5 (for VOC and SVOC)																										
						Diameter : 1"																										
						Material : sch 40 PVC																										
						Depth to Bottom: 20'																										
25																																
30																																

COMMENTS: Soil borings were advanced using a track mounted Geo Probe										PROJECT NO. 60558675		
model 6620DT. The following samples were collected and sent to Eurofins										BORING/WELL NO. B - 11		
Laboratories for VOC and SVOC analysis: B-11 (0 - 2') at 14:40 and B-11 (5 - 7')												
at 14:58												

AECOM Corporation										TEST BORING LOG																						
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 12																						
CLIENT:										SHEET: 1 of 1																						
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675																						
GROUNDWATER (BTOC):										BORING LOCATION: Hyundai Autos																						
<table border="1"> <tr> <td>CAS.</td> <td>SAMPLER</td> <td>CORE</td> <td>TUBE</td> </tr> <tr> <td></td> <td>macro</td> <td></td> <td></td> </tr> <tr> <td>DIA.</td> <td>2"</td> <td></td> <td></td> </tr> <tr> <td>WT.</td> <td>-</td> <td></td> <td></td> </tr> <tr> <td>FALL</td> <td>-</td> <td></td> <td></td> </tr> </table>										CAS.	SAMPLER	CORE	TUBE		macro			DIA.	2"			WT.	-			FALL	-			GROUND ELEVATION:		
CAS.	SAMPLER	CORE	TUBE																													
	macro																															
DIA.	2"																															
WT.	-																															
FALL	-																															
DATE										DATE STARTED: 10/04/18																						
TIME										DATE FINISHED: 10/04/18																						
LEVEL										DRILLER: Quincy Brandt																						
TYPE										GEOLOGIST: John Crespo																						
										REVIEWED BY:																						
DEPTH FEET	SAMPLE			DESCRIPTION				REMARKS																								
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	PID	Moist.																							
	▽	1	hand clear	black	medium	4" asphalt. Fine med sand, fine med gravel and pebbles	SP	0	dry																							
			44%	brown/black		medium/		- fine med sand, large gravel, pulverized white rock at 4', pulverized asphalt at 3 1/2"	0	moist																						
				brown		dense			0																							
5		2	45%	light brown	medium/	- fine sand, trace silt and clay	↓	0	↓																							
				grey		loose		-fine med L sand, fine pebbles and asphalt imbeded with large brown sand and med pebbles		0																						
				dk brown						0																						
10		3	55%	light brown	↓		SM	0	↓																							
				brown		- fine med sand, trace silt and clay, large gravel imbeded		0																								
								0																								
15																																
20																																
25																																
30																																
COMMENTS: Soil borings were advanced using a track mounted Geo Probe model 6620DT. The following samples were collected and sent to Eurofins Laboratories for VOC and SVOC analysis: B-12 (0 - 2') at 8:45 and B-12 (7 - 9') at 9:05										PROJECT NO. 60558675 BORING/WELL NO. B - 12																						

AECOM Corporation										TEST BORING LOG		
										BORING/WELL NO: B - 13		
PROJECT: South Brooklyn Marine Terminal										SHEET: 1 of 1		
CLIENT:										JOB NO.: 60558675		
BORING CONTRACTOR: Cascade Environmental										BORING LOCATION:		
GROUNDWATER (BTOC):					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/05/18			
				DIA.		2"			DATE FINISHED: 10/05/18			
				WT.		-			DRILLER: Quincy Brandt			
				FALL		-			GEOLOGIST: John Crespo			
									REVIEWED BY:			
DEPTH FEET	SAMPLE			DESCRIPTION					REMARKS			
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION			USCS CLASS	PID	Moist.	
	▽ f	1	hand clear	grey	medium	5" asphalt. 3" layer of brown sand and pebbles , over layer of cement and RCA.			SP	0	dry	
			69%	dk brown	↓	- f med sand, RCA, layer of asphalt 2" thick				0.1	moist	
				black	↓	-f med sand, t silt, L brick, med to L gravel (brown)				0.1	↓	
5			2		black	↓	-fine gravel, crushed asphalt and brown sand			SM	0.1	wet
				brown	↓	- fine med sand, trace silt, med L gravel with large gravel imbeded greenish color			0.1			
					↓				0			
10			3		dk brown	↓	- fine med sand, trace silt, fine med and large gravel imbeded.				0	
					↓				0			
				brown	↓				0			
15												
20						End of Boring at : 15' b.g. Ground water at around : 5' b.g.						
						Installed temporary well to collect ground water sample GW - 7 (for VOC and SVOC)						
						Diameter : 1"						
						Material : sch 40 PVC						
						Depth to Bottom: 20'						
25												
30												
COMMENTS: Soil broings were advanced using a track mounted Geo Probe										PROJECT NO. 60558675		
model 6620DT. The following samples were collected and sent to Eurofins										BORING/WELL NO. B - 13		
Laboratories for VOC and SVOC analysis: B-13 (0 - 2') at 13:20 and B-13												
(2 1/2 - 4 1/2') at 13:40												

AECOM Corporation										TEST BORING LOG		
PROJECT: South Brooklyn Marine Terminal										BORING/WELL NO: B - 14 A		
CLIENT:										SHEET: 1 of 1		
BORING CONTRACTOR: Cascade Environmental										JOB NO.: 60558675		
GROUNDWATER (BTOC):										BORING LOCATION: Tower Building		
				CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		macro			DATE STARTED: 10/08/18			
				DIA.		2"			DATE FINISHED: 10/08/18			
				WT.		-			DRILLER: Quincy Brandt			
				FALL		-			GEOLOGIST: John Crespo			
										REVIEWED BY:		
DEPTH FEET	SAMPLE			DESCRIPTION				REMARKS				
	STRAT. SYMBOL	NO.	RECOV. RQD.	COLOR	HARDNESS	MATERIAL DESCRIPTION	USCS CLASS	PID	Moist.			
			hand clear	grey dk brown	dense	6" concrete	SP ↓	0	dry			
						- f med sand, t silt, fine gravel and pebbles			3.9	moist		
		1	50%	grey		crushed concrete			0	dry		
5						End of Boring at : 2 1/2' b.g. REFUSAL AT 2 1/2' AT TWO SEPARATE LOCATIONS						
10												
15												
20												
25												
30												

COMMENTS: Soil borings were advanced using a track mounted Geo Probe						PROJECT NO. 60558675	
model 6620DT. The following samples were collected and sent to Eurofins							
Laboratories for PCB's, VOC and SVOC analysis: B-14 A (0 - 2') at 14:10						BORING/WELL NO. B - 14 A	

Appendix B

Analytical Laboratory Results

Report Date:
19-Oct-18 18:06**Laboratory Report**
SC50826AECOM Environment
125 Broad St
, 15th Floor
New York, NY 10005Project: South Brooklyn Terminal - Brooklyn, NY
Project #: 60558725

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393Authorized by:
Dawn Wojcik
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 99 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC50826
Project: South Brooklyn Terminal - Brooklyn, NY
Project Number: 60558725

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC50826-01	B-5 (0-2')	Soil	02-Oct-18 10:12	03-Oct-18 10:55
SC50826-02	B-5 (5 1/2-7 1/2)	Soil	02-Oct-18 10:55	03-Oct-18 10:55
SC50826-03	GW-2	Ground Water	02-Oct-18 11:55	03-Oct-18 10:55
SC50826-04	B-4 (0-2')	Soil	02-Oct-18 11:50	03-Oct-18 10:55
SC50826-05	B-4 (6-8')	Soil	02-Oct-18 12:15	03-Oct-18 10:55
SC50826-06	B-4 (10-12')	Soil	02-Oct-18 12:40	03-Oct-18 10:55
SC50826-07	B-3 (0-2')	Soil	02-Oct-18 13:30	03-Oct-18 10:55
SC50826-08	B-3 (6-8')	Soil	02-Oct-18 13:50	03-Oct-18 10:55
SC50826-09	Trip Blank-W	Trip Blank	02-Oct-18 13:50	03-Oct-18 10:55
SC50826-10	Trip Blank-S	Trip Blank	02-Oct-18 13:50	03-Oct-18 10:55

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 1.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8260C

Samples:

SC50826-01	B-5 (0-2')

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50826-04	B-4 (0-2')

Estimated Below RL

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

m&p-Xylene

Naphthalene

Toluene

SC50826-05	B-4 (6-8')

Estimated Below RL

Carbon Disulfide

m&p-Xylene

Laboratory solvent, contamination is possible.

Acetone

SC50826-06	B-4 (10-12')

Estimated Below RL

Carbon Disulfide

Laboratory solvent, contamination is possible.

Acetone

SC50826-07	B-3 (0-2')

SW8260C

Samples:

SC50826-07 *B-3 (0-2')*

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50826-08 *B-3 (6-8')*

Estimated Below RL

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Acetone

Isopropylbenzene

p-Isopropyltoluene

sec-Butylbenzene

tert-Butylbenzene

Laboratory solvent, contamination is possible.

Acetone

SC50826-09 *Trip Blank-W*

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

CB65162-LCSD

This parameter is outside laboratory lcs/lcsd specified recovery limits.

1,1,2,2-Tetrachloroethane

1,1-Dichloroethene

1,2,3-Trichlorobenzene

1,2-Dibromo-3-chloropropane

Naphthalene

CB65248-MS

This parameter is outside laboratory ms/msd specified recovery limits.

2-Hexanone

Methyl Ethyl Ketone

CB65248-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

2-Hexanone

CB66877-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Acetone

Chloroethane

Trichlorofluoromethane

CB66877-MSD

SW8260C

CB66877-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

Acetone
Chloroethane
Trichlorofluoromethane

SW846 8270D

Calibration:

1807052

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Benzidine
Benzoic acid
Carbazole
Pentachlorophenol

This affected the following samples:

S820940-ICV1

1808015

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Aniline
Benzidine
Benzoic acid
Carbazole
Hexachlorocyclopentadiene

This affected the following samples:

1813343-BLK1
1813343-BS1
1813343-BSD1
GW-2
S821565-ICV1
S822532-CCV1
S822579-CCV1

SC50826-04

Internal standard area count (3994260) is outside criteria of the associated CCAL (1994655) for Phenanthrene-d10 (200%).

Laboratory Control Samples:

1813343 BS/BSD

Carbazole percent recoveries (146/143) are outside individual acceptance criteria (40-140), but within overall method allowances.
All reported results of the following samples are considered to have a potentially high bias:

GW-2

1813345 BS/BSD

SW846 8270D

Laboratory Control Samples:

1813345 BS/BSD

Benzoic acid percent recoveries (19/21) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-3 (0-2')
B-3 (6-8')
B-4 (0-2')
B-4 (10-12')
B-4 (6-8')
B-5 (0-2')
B-5 (5 1/2-7 1/2)

Dibenzo (a,h) anthracene percent recoveries (111/142) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-3 (0-2')
B-3 (6-8')
B-4 (0-2')
B-4 (10-12')
B-4 (6-8')
B-5 (0-2')
B-5 (5 1/2-7 1/2)

1813345-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

1813345-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

Terphenyl-dl4

1813682 BS/BSD

2,4-Dinitrophenol percent recoveries (28/26) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-5 (0-2')

Benzidine percent recoveries (167/220) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-5 (0-2')

Benzoic acid percent recoveries (14/14) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-5 (0-2')

Carbazole percent recoveries (145/150) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-5 (0-2')

SW846 8270D

Laboratory Control Samples:

1813682 BS/BSD

Pentachlorophenol percent recoveries (17/13) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-5 (0-2')

1813682-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
Benzoic acid
Pentachlorophenol

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Benzidine

1813682-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
Benzoic acid
Pentachlorophenol

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Benzidine

Samples:

S822532-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Chlorophenyl phenyl ether (21.1%)
Azobenzene/Diphenyldiazene (30.8%)
Benzo (b) fluoranthene (21.7%)
Bis(2-chloroethyl)ether (25.7%)
Diethyl phthalate (21.7%)
Di-n-octyl phthalate (23.5%)
N-Nitrosodiphenylamine (21.2%)
Pentachlorophenol (-41.4%)

This affected the following samples:

1813343-BLK1
1813343-BS1
1813343-BSD1

S822538-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Chlorophenyl phenyl ether (28.5%)
Aniline (-29.3%)
Bis(2-chloroethyl)ether (20.1%)
Hexachlorobutadiene (22.8%)

SW846 8270D

Samples:

S822538-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzidine (-86.4%)
Benzoic acid (-47.1%)
Pentachlorophenol (96.0%)

This affected the following samples:

1813345-BLK1
1813345-BS1
1813345-BSD1

S822579-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (26.1%)
3,3'-Dichlorobenzidine (22.7%)
Azobenzene/Diphenyldiazene (26.3%)
Pentachlorophenol (-42.3%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (52.8%)
Aniline (34.5%)
Benzidine (32.5%)
Carbazole (47.3%)

This affected the following samples:

GW-2

S822602-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Chloroaniline (-48.5%)
4-Chlorophenyl phenyl ether (30.4%)
4-Nitroaniline (-24.4%)
Aniline (-52.1%)
Benzo (g,h,i) perylene (28.0%)
Dibenzo (a,h) anthracene (39.4%)
Hexachlorobutadiene (23.8%)
Indeno (1,2,3-cd) pyrene (21.3%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-33.9%)
Benzidine (-82.4%)
Benzoic acid (-52.3%)
Pentachlorophenol (315%)

This affected the following samples:

B-4 (0-2')
B-4 (10-12')
B-4 (6-8')
B-5 (0-2')
B-5 (5 1/2-7 1/2)

S822638-CCV1

SW846 8270D

Samples:

S822638-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Bromophenyl phenyl ether (23.6%)
4-Chloroaniline (-28.7%)
4-Chlorophenyl phenyl ether (23.9%)
4-Nitroaniline (-30.9%)
Aniline (-36.7%)
Benzo (b) fluoranthene (31.6%)
Hexachlorobutadiene (24.5%)
Pyrene (-24.6%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-57.6%)
Benzidine (-56.1%)
Benzoic acid (-35.8%)
Carbazole (-59.4%)

This affected the following samples:

B-3 (0-2')
B-3 (6-8')

S822688-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (33.5%)
3,3'-Dichlorobenzidine (40.9%)
4-Chlorophenyl phenyl ether (29.6%)
Acenaphthylene (24.2%)
Azobenzene/Diphenyldiazene (23.7%)
Diethyl phthalate (31.4%)
Di-n-octyl phthalate (23.9%)
N-Nitrosodiphenylamine (23.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (33.0%)
Benzidine (47.3%)
Benzoic acid (-39.0%)
Carbazole (33.6%)
Hexachlorocyclopentadiene (21.0%)

This affected the following samples:

1813682-BLK1
1813682-BS1
1813682-BSD1

S822689-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Chlorophenyl phenyl ether (20.2%)
Azobenzene/Diphenyldiazene (25.8%)
Benzyl alcohol (-21.2%)
Dibenzo (a,h) anthracene (33.7%)
Diethyl phthalate (24.4%)
Di-n-octyl phthalate (25.6%)
Indeno (1,2,3-cd) pyrene (20.5%)
N-Nitrosodiphenylamine (20.7%)

SW846 8270D

Samples:

S822689-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (28.5%)

Benzoic acid (-32.3%)

Carbazole (31.9%)

This affected the following samples:

B-5 (0-2')

SC50826-01

B-5 (0-2')

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

2-Fluorophenol

SC50826-01RE1

B-5 (0-2')

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

2-Fluorophenol

SC50826-02

B-5 (5 1/2-7 1/2)

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

Terphenyl-dl4

SC50826-04

B-4 (0-2')

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

Terphenyl-dl4

The Reporting Limit has been raised to account for matrix interference.

SC50826-05

B-4 (6-8')

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

SC50826-06

B-4 (10-12')

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2,4,6-Tribromophenol

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

Terphenyl-dl4

The Reporting Limit has been raised to account for matrix interference.

SC50826-07

B-3 (0-2')

SW846 8270D

Samples:

SC50826-07 *B-3 (0-2')*

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

Terphenyl-dl4

The Reporting Limit has been raised to account for matrix interference.

SC50826-08 *B-3 (6-8')*

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

Terphenyl-dl4

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client: AECOM Environment - NY, NY
Project: South Brooklyn Terminal - Brooklyn, NY / 60558725
Work Order: SC50826
Sample(s) received on: 10/3/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☒	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC50826-01

Client ID: B-5 (0-2')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	12	J, S	24	ug/Kg	SW8260C
Anthracene	35.6	J	71.3	µg/kg	SW846 8270D
Benzo (a) anthracene	247		71.3	µg/kg	SW846 8270D
Benzo (a) pyrene	293		71.3	µg/kg	SW846 8270D
Benzo (b) fluoranthene	245		71.3	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	154		71.3	µg/kg	SW846 8270D
Benzo (k) fluoranthene	211		71.3	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	468		179	µg/kg	SW846 8270D
Chrysene	259		71.3	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	38.5	J	71.3	µg/kg	SW846 8270D
Fluoranthene	363		71.3	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	160		71.3	µg/kg	SW846 8270D
Phenanthrene	153		71.3	µg/kg	SW846 8270D
Pyrene	368		71.3	µg/kg	SW846 8270D

Lab ID: SC50826-01RE1

Client ID: B-5 (0-2')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzo (a) anthracene	114		71.7	µg/kg	SW846 8270D
Benzo (a) pyrene	104		71.7	µg/kg	SW846 8270D
Benzo (b) fluoranthene	94.2		71.7	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	51.2	J	71.7	µg/kg	SW846 8270D
Benzo (k) fluoranthene	74.9		71.7	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	287		179	µg/kg	SW846 8270D
Chrysene	107		71.7	µg/kg	SW846 8270D
Fluoranthene	212		71.7	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	48.7	J	71.7	µg/kg	SW846 8270D
Phenanthrene	106		71.7	µg/kg	SW846 8270D
Pyrene	198		71.7	µg/kg	SW846 8270D

Lab ID: SC50826-02

Client ID: B-5 (5 1/2-7 1/2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Anthracene	84.0		76.4	µg/kg	SW846 8270D
Benzo (a) anthracene	464		76.4	µg/kg	SW846 8270D
Benzo (a) pyrene	478		76.4	µg/kg	SW846 8270D
Benzo (b) fluoranthene	472		76.4	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	257		76.4	µg/kg	SW846 8270D
Benzo (k) fluoranthene	200		76.4	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	337		191	µg/kg	SW846 8270D
Chrysene	504		76.4	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	63.4	J	76.4	µg/kg	SW846 8270D
Fluoranthene	630		76.4	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	215		76.4	µg/kg	SW846 8270D
Phenanthrene	361		76.4	µg/kg	SW846 8270D
Pyrene	750		76.4	µg/kg	SW846 8270D

Lab ID: SC50826-03

Client ID: GW-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Bis(2-ethylhexyl)phthalate	1.86	J	4.72	µg/l	SW846 8270D

Lab ID: SC50826-04

Client ID: B-4 (0-2')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	54	J.	310	ug/Kg	SW8260C
1,3,5-Trimethylbenzene	41	J.	310	ug/Kg	SW8260C
m&p-Xylene	95	J.	310	ug/Kg	SW8260C
Naphthalene	80	J.	310	ug/Kg	SW8260C
Toluene	69	J.	310	ug/Kg	SW8260C
2-Methylnaphthalene	867	D	751	µg/kg	SW846 8270D
Benzo (a) anthracene	435	J, D	751	µg/kg	SW846 8270D
Benzo (a) pyrene	372	J, D	751	µg/kg	SW846 8270D
Benzo (b) fluoranthene	398	J, D	751	µg/kg	SW846 8270D
Benzo (k) fluoranthene	454	J, D	751	µg/kg	SW846 8270D
Chrysene	638	J, D	751	µg/kg	SW846 8270D
Fluoranthene	668	J, D	751	µg/kg	SW846 8270D
Phenanthrene	687	J, D	751	µg/kg	SW846 8270D
Pyrene	942	D	751	µg/kg	SW846 8270D

Lab ID: SC50826-05

Client ID: B-4 (6-8')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	280	S	37	ug/Kg	SW8260C
Carbon Disulfide	2.0	J.	7.4	ug/Kg	SW8260C
m&p-Xylene	2.8	J.	7.4	ug/Kg	SW8260C
Methyl Ethyl Ketone	66		37	ug/Kg	SW8260C

Lab ID: SC50826-06**Client ID:** B-4 (10-12')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	92	S	32	ug/Kg	SW8260C
Carbon Disulfide	2.8	J.	6.5	ug/Kg	SW8260C
Methyl Ethyl Ketone	34		32	ug/Kg	SW8260C

Lab ID: SC50826-07**Client ID:** B-3 (0-2')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	17	J., S	27	ug/Kg	SW8260C
1-Methylnaphthalene	231	J, D	392	µg/kg	SW846 8270D
2-Methylnaphthalene	753	D	392	µg/kg	SW846 8270D
Anthracene	256	J, D	392	µg/kg	SW846 8270D
Benzo (a) anthracene	1100	D	392	µg/kg	SW846 8270D
Benzo (a) pyrene	1040	D	392	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1290	D	392	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	728	D	392	µg/kg	SW846 8270D
Benzo (k) fluoranthene	806	D	392	µg/kg	SW846 8270D
Chrysene	1150	D	392	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	196	J, D	392	µg/kg	SW846 8270D
Dibenzofuran	160	J, D	980	µg/kg	SW846 8270D
Fluoranthene	1740	D	392	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	702	D	392	µg/kg	SW846 8270D
Naphthalene	313	J, D	392	µg/kg	SW846 8270D
Phenanthrene	1140	D	392	µg/kg	SW846 8270D
Pyrene	1710	D	392	µg/kg	SW846 8270D

Lab ID: SC50826-08

Client ID: B-3 (6-8')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	1.4	J.	4.6	ug/Kg	SW8260C
1,3,5-Trimethylbenzene	0.68	J.	4.6	ug/Kg	SW8260C
Acetone	14	J., S	23	ug/Kg	SW8260C
Isopropylbenzene	0.68	J.	4.6	ug/Kg	SW8260C
p-Isopropyltoluene	3.0	J.	4.6	ug/Kg	SW8260C
sec-Butylbenzene	2.8	J.	4.6	ug/Kg	SW8260C
tert-Butylbenzene	1.3	J.	4.6	ug/Kg	SW8260C
Anthracene	1080	J, D	1490	µg/kg	SW846 8270D
Benzo (a) anthracene	3970	D	1490	µg/kg	SW846 8270D
Benzo (a) pyrene	4010	D	1490	µg/kg	SW846 8270D
Benzo (b) fluoranthene	3580	D	1490	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	2900	D	1490	µg/kg	SW846 8270D
Benzo (k) fluoranthene	3040	D	1490	µg/kg	SW846 8270D
Chrysene	3980	D	1490	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	873	J, D	1490	µg/kg	SW846 8270D
Fluoranthene	5220	D	1490	µg/kg	SW846 8270D
Fluorene	761	J, D	1490	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	2920	D	1490	µg/kg	SW846 8270D
Phenanthrene	4190	D	1490	µg/kg	SW846 8270D
Pyrene	7100	D	1490	µg/kg	SW846 8270D

Lab ID: SC50826-09

Client ID: Trip Blank-W

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	2.6	J., S	25	ug/L	SW8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification**B-5 (0-2')**

SC50826-01

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 10:12

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 71.3	U	µg/kg dry	71.3	35.5	1	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
208-96-8	Acenaphthylene	< 71.3	U	µg/kg dry	71.3	35.2	1	"	"	"	"	"	X
62-53-3	Aniline	< 353	U	µg/kg dry	353	25.3	1	"	"	"	"	"	X
120-12-7	Anthracene	35.6	J	µg/kg dry	71.3	34.1	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 353	U	µg/kg dry	353	34.7	1	"	"	"	"	"	
92-87-5	Benzidine	< 706	U	µg/kg dry	706	71.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	247		µg/kg dry	71.3	37.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	293		µg/kg dry	71.3	26.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	245		µg/kg dry	71.3	34.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	154		µg/kg dry	71.3	28.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	211		µg/kg dry	71.3	27.9	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 353	U	µg/kg dry	353	74.1	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 353	U	µg/kg dry	353	28.9	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 353	U	µg/kg dry	353	31.3	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 179	U	µg/kg dry	179	25.6	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 179	U	µg/kg dry	179	27.5	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	468		µg/kg dry	179	44.1	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 353	U	µg/kg dry	353	33.1	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 353	U	µg/kg dry	353	41.2	1	"	"	"	"	"	X
86-74-8	Carbazole	< 179	U	µg/kg dry	179	99.6	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 353	U	µg/kg dry	353	33.7	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 179	U	µg/kg dry	179	38.6	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 353	U	µg/kg dry	353	32.6	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 179	U	µg/kg dry	179	31.8	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 353	U	µg/kg dry	353	41.9	1	"	"	"	"	"	X
218-01-9	Chrysene	259		µg/kg dry	71.3	35.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	38.5	J	µg/kg dry	71.3	27.4	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 179	U	µg/kg dry	179	27.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 353	U	µg/kg dry	353	30.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 353	U	µg/kg dry	353	30.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 353	U	µg/kg dry	353	32.7	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 353	U	µg/kg dry	353	53.7	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 179	U	µg/kg dry	179	33.4	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 353	U	µg/kg dry	353	43.6	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 353	U	µg/kg dry	353	38.6	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 353	U	µg/kg dry	353	25.2	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 353	U	µg/kg dry	353	37.4	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 353	U	µg/kg dry	353	45.3	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 353	U	µg/kg dry	353	35.9	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 179	U	µg/kg dry	179	69.1	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 179	U	µg/kg dry	179	40.2	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

B-5 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-01	60558725	Soil	02-Oct-18 10:12	03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 353	U	µg/kg dry	353	39.9	1	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
206-44-0	Fluoranthene	363		µg/kg dry	71.3	37.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 71.3	U	µg/kg dry	71.3	36.3	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 179	U	µg/kg dry	179	35.1	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 179	U	µg/kg dry	179	42.7	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 179	U	µg/kg dry	179	24.3	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 179	U	µg/kg dry	179	38.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	160		µg/kg dry	71.3	25.7	1	"	"	"	"	"	X
78-59-1	Isophorone	< 179	U	µg/kg dry	179	33.5	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 71.3	U	µg/kg dry	71.3	43.1	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 353	U	µg/kg dry	353	30.0	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 353	U	µg/kg dry	353	34.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 71.3	U	µg/kg dry	71.3	33.3	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 353	U	µg/kg dry	353	29.9	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 353	U	µg/kg dry	353	48.2	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 179	U	µg/kg dry	179	55.0	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 179	U	µg/kg dry	179	32.5	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 179	U	µg/kg dry	179	29.6	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1410	U	µg/kg dry	1410	57.0	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 179	U	µg/kg dry	179	33.1	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 179	U	µg/kg dry	179	34.8	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 353	U	µg/kg dry	353	38.3	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 353	U	µg/kg dry	353	37.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	153		µg/kg dry	71.3	33.2	1	"	"	"	"	"	X
108-95-2	Phenol	< 353	U	µg/kg dry	353	23.2	1	"	"	"	"	"	X
129-00-0	Pyrene	368		µg/kg dry	71.3	39.8	1	"	"	"	"	"	X
110-86-1	Pyridine	< 353	U	µg/kg dry	353	52.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 353	U	µg/kg dry	353	35.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 71.3	U	µg/kg dry	71.3	35.1	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 353	U	µg/kg dry	353	31.8	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 179	U	µg/kg dry	179	31.9	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 353	U	µg/kg dry	353	55.7	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 353	U	µg/kg dry	353	34.2	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	79			30-130 %		"	"	"	"	"	"	
367-12-4	2-Fluorophenol	28	SDUP		30-130 %		"	"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	76			30-130 %		"	"	"	"	"	"	
4165-62-2	Phenol-d5	65			30-130 %		"	"	"	"	"	"	
1718-51-0	Terphenyl-dl4	124			30-130 %		"	"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	0.6	SDUP		30-130 %		"	"	"	"	"	"	

Re-analysis of Semivolatile Organic CompoundsPrepared by method SW846 3546

83-32-9	Acenaphthene	< 71.7	U	µg/kg dry	71.7	35.7	1	SW846 8270D	15-Oct-18	17-Oct-18	MSL	1813682	X

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Sample Identification

B-5 (0-2')
SC50826-01

Client Project #
60558725

Matrix
Soil

Collection Date/Time
02-Oct-18 10:12

Received
03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Re-analysis of Semivolatile Organic Compounds</u>													
208-96-8	Acenaphthylene	< 71.7	U	µg/kg dry	71.7	35.4	1	SW846 8270D	15-Oct-18	17-Oct-18	MSL	1813682	X
62-53-3	Aniline	< 355	U	µg/kg dry	355	25.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 71.7	U	µg/kg dry	71.7	34.3	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 355	U	µg/kg dry	355	34.9	1	"	"	"	"	"	
92-87-5	Benzidine	< 709	U	µg/kg dry	709	71.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	114		µg/kg dry	71.7	37.8	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	104		µg/kg dry	71.7	26.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	94.2		µg/kg dry	71.7	34.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	51.2	J	µg/kg dry	71.7	28.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	74.9		µg/kg dry	71.7	28.1	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 355	U	µg/kg dry	355	74.5	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 355	U	µg/kg dry	355	29.0	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 355	U	µg/kg dry	355	31.5	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 179	U	µg/kg dry	179	25.7	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 179	U	µg/kg dry	179	27.6	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	287		µg/kg dry	179	44.3	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 355	U	µg/kg dry	355	33.2	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 355	U	µg/kg dry	355	41.4	1	"	"	"	"	"	X
86-74-8	Carbazole	< 179	U	µg/kg dry	179	100	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 355	U	µg/kg dry	355	33.9	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 179	U	µg/kg dry	179	38.8	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 355	U	µg/kg dry	355	32.8	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 179	U	µg/kg dry	179	31.9	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 355	U	µg/kg dry	355	42.1	1	"	"	"	"	"	X
218-01-9	Chrysene	107		µg/kg dry	71.7	35.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 71.7	U	µg/kg dry	71.7	27.5	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 179	U	µg/kg dry	179	27.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 355	U	µg/kg dry	355	31.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 355	U	µg/kg dry	355	31.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 355	U	µg/kg dry	355	32.9	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 355	U	µg/kg dry	355	54.0	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 179	U	µg/kg dry	179	33.6	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 355	U	µg/kg dry	355	43.9	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 355	U	µg/kg dry	355	38.8	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 355	U	µg/kg dry	355	25.4	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 355	U	µg/kg dry	355	37.6	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 355	U	µg/kg dry	355	45.5	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 355	U	µg/kg dry	355	36.1	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 179	U	µg/kg dry	179	69.4	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 179	U	µg/kg dry	179	40.4	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 355	U	µg/kg dry	355	40.1	1	"	"	"	"	"	X

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Sample Identification

B-5 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-01	60558725	Soil	02-Oct-18 10:12	03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSRe-analysis of Semivolatile Organic Compounds

206-44-0	Fluoranthene	212		µg/kg dry	71.7	37.9	1	SW846 8270D	15-Oct-18	17-Oct-18	MSL	1813682	X
86-73-7	Fluorene	< 71.7	U	µg/kg dry	71.7	36.4	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 179	U	µg/kg dry	179	35.3	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 179	U	µg/kg dry	179	42.9	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 179	U	µg/kg dry	179	24.4	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 179	U	µg/kg dry	179	38.7	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	48.7	J	µg/kg dry	71.7	25.8	1	"	"	"	"	"	X
78-59-1	Isophorone	< 179	U	µg/kg dry	179	33.6	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 71.7	U	µg/kg dry	71.7	43.3	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 355	U	µg/kg dry	355	30.1	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 355	U	µg/kg dry	355	34.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 71.7	U	µg/kg dry	71.7	33.4	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 355	U	µg/kg dry	355	30.1	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 355	U	µg/kg dry	355	48.5	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 179	U	µg/kg dry	179	55.2	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 179	U	µg/kg dry	179	32.7	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 179	U	µg/kg dry	179	29.8	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1420	U	µg/kg dry	1420	57.3	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 179	U	µg/kg dry	179	33.3	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 179	U	µg/kg dry	179	35.0	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 355	U	µg/kg dry	355	38.5	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 355	U	µg/kg dry	355	37.9	1	"	"	"	"	"	X
85-01-8	Phenanthrene	106		µg/kg dry	71.7	33.4	1	"	"	"	"	"	X
108-95-2	Phenol	< 355	U	µg/kg dry	355	23.3	1	"	"	"	"	"	X
129-00-0	Pyrene	198		µg/kg dry	71.7	40.0	1	"	"	"	"	"	X
110-86-1	Pyridine	< 355	U	µg/kg dry	355	52.9	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 355	U	µg/kg dry	355	35.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 71.7	U	µg/kg dry	71.7	35.3	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 355	U	µg/kg dry	355	31.9	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 179	U	µg/kg dry	179	32.0	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 355	U	µg/kg dry	355	56.0	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 355	U	µg/kg dry	355	34.4	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	50			30-130 %		"	"	"	"	"	
367-12-4	2-Fluorophenol	14	SDUP		30-130 %		"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	45			30-130 %		"	"	"	"	"	
4165-62-2	Phenol-d5	39			30-130 %		"	"	"	"	"	
1718-51-0	Terphenyl-d14	57			30-130 %		"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	0.04	SDUP		30-130 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	92.5	%		1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses

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Sample Identification

B-5 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-01	60558725	Soil	02-Oct-18 10:12	03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.7		ug/Kg	4.7	0.95	1	SW8260C	02-Oct-18 10:12	05-Oct-18 12:15	CT007	450865A	
71-55-6	1,1,1-Trichloroethane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 24		ug/Kg	24	4.7	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 24		ug/Kg	24	4.7	1	"	"	"	"	"	
67-64-1	Acetone	12	J., S	ug/Kg	24	4.7	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.5		ug/Kg	9.5	0.47	1	"	"	"	"	"	
71-43-2	Benzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.7		ug/Kg	4.7	1.9	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	

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Sample Identification

B-5 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-01	60558725	Soil	02-Oct-18 10:12	03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

74-95-3	Dibromomethane	< 4.7		ug/Kg	4.7	0.95	1	SW8260C	02-Oct-18 10:12	05-Oct-18 12:15	CT007	450865A	
75-71-8	Dichlorodifluoromethane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 24		ug/Kg	24	4.7	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.5		ug/Kg	9.5	0.95	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.5		ug/Kg	9.5	4.7	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
100-42-5	Styrene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.5		ug/Kg	9.5	2.4	1	"	"	"	"	"	
108-88-3	Toluene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.5		ug/Kg	9.5	2.4	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.7		ug/Kg	4.7	0.95	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.7		ug/Kg	4.7	0.47	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99		70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	91		70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	80		70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	93		70-130 %		"	"	"	"	"	

Sample Identification

B-5 (5 1/2-7 1/2)

SC50826-02

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 10:55

Received

03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 76.4	U	µg/kg dry	76.4	38.0	1	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
208-96-8	Acenaphthylene	< 76.4	U	µg/kg dry	76.4	37.7	1	"	"	"	"	"	X
62-53-3	Aniline	< 378	U	µg/kg dry	378	27.2	1	"	"	"	"	"	X
120-12-7	Anthracene	84.0		µg/kg dry	76.4	36.5	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 378	U	µg/kg dry	378	37.2	1	"	"	"	"	"	
92-87-5	Benzidine	< 756	U	µg/kg dry	756	76.1	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	464		µg/kg dry	76.4	40.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	478		µg/kg dry	76.4	28.4	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	472		µg/kg dry	76.4	37.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	257		µg/kg dry	76.4	30.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	200		µg/kg dry	76.4	29.9	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 378	U	µg/kg dry	378	79.4	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 378	U	µg/kg dry	378	31.0	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 378	U	µg/kg dry	378	33.6	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 191	U	µg/kg dry	191	27.4	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 191	U	µg/kg dry	191	29.4	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	337		µg/kg dry	191	47.2	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 378	U	µg/kg dry	378	35.4	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 378	U	µg/kg dry	378	44.1	1	"	"	"	"	"	X
86-74-8	Carbazole	< 191	U	µg/kg dry	191	107	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 378	U	µg/kg dry	378	36.1	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 191	U	µg/kg dry	191	41.4	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 378	U	µg/kg dry	378	34.9	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 191	U	µg/kg dry	191	34.0	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 378	U	µg/kg dry	378	44.9	1	"	"	"	"	"	X
218-01-9	Chrysene	504		µg/kg dry	76.4	38.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	63.4	J	µg/kg dry	76.4	29.3	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 191	U	µg/kg dry	191	29.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 378	U	µg/kg dry	378	33.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 378	U	µg/kg dry	378	33.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 378	U	µg/kg dry	378	35.1	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 378	U	µg/kg dry	378	57.5	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 191	U	µg/kg dry	191	35.8	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 378	U	µg/kg dry	378	46.7	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 378	U	µg/kg dry	378	41.4	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 378	U	µg/kg dry	378	27.0	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 378	U	µg/kg dry	378	40.1	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 378	U	µg/kg dry	378	48.5	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 378	U	µg/kg dry	378	38.5	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 191	U	µg/kg dry	191	74.0	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 191	U	µg/kg dry	191	43.1	1	"	"	"	"	"	X

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Sample Identification**B-5 (5 1/2-7 1/2)**

SC50826-02

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 10:55

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 378	U	µg/kg dry	378	42.7	1	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
206-44-0	Fluoranthene	630		µg/kg dry	76.4	40.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 76.4	U	µg/kg dry	76.4	38.8	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 191	U	µg/kg dry	191	37.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 191	U	µg/kg dry	191	45.7	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 191	U	µg/kg dry	191	26.0	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 191	U	µg/kg dry	191	41.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	215		µg/kg dry	76.4	27.5	1	"	"	"	"	"	X
78-59-1	Isophorone	< 191	U	µg/kg dry	191	35.9	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 76.4	U	µg/kg dry	76.4	46.2	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 378	U	µg/kg dry	378	32.1	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 378	U	µg/kg dry	378	36.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 76.4	U	µg/kg dry	76.4	35.6	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 378	U	µg/kg dry	378	32.1	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 378	U	µg/kg dry	378	51.7	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 191	U	µg/kg dry	191	58.9	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 191	U	µg/kg dry	191	34.8	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 191	U	µg/kg dry	191	31.7	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1510	U	µg/kg dry	1510	61.1	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 191	U	µg/kg dry	191	35.5	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 191	U	µg/kg dry	191	37.3	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 378	U	µg/kg dry	378	41.0	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 378	U	µg/kg dry	378	40.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	361		µg/kg dry	76.4	35.6	1	"	"	"	"	"	X
108-95-2	Phenol	< 378	U	µg/kg dry	378	24.9	1	"	"	"	"	"	X
129-00-0	Pyrene	750		µg/kg dry	76.4	42.6	1	"	"	"	"	"	X
110-86-1	Pyridine	< 378	U	µg/kg dry	378	56.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 378	U	µg/kg dry	378	37.5	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 76.4	U	µg/kg dry	76.4	37.6	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 378	U	µg/kg dry	378	34.0	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 191	U	µg/kg dry	191	34.1	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 378	U	µg/kg dry	378	59.7	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 378	U	µg/kg dry	378	36.7	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	79			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	86			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	74			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	76			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	135	SBN		30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	81			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.7			%			1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-5 (5 1/2-7 1/2)**

SC50826-02

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 10:55

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.6		ug/Kg	4.6	0.92	1	SW8260C	02-Oct-18 10:55	05-Oct-18 14:01	CT007	450865A	
71-55-6	1,1,1-Trichloroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 23		ug/Kg	23	4.6	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 23		ug/Kg	23	4.6	1	"	"	"	"	"	
67-64-1	Acetone	< 23		ug/Kg	23	4.6	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.2		ug/Kg	9.2	0.46	1	"	"	"	"	"	
71-43-2	Benzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.6		ug/Kg	4.6	1.8	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	

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Sample Identification

B-5 (5 1/2-7 1/2)

SC50826-02

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 10:55

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 4.6		ug/Kg	4.6	0.92	1	SW8260C	02-Oct-18 10:55	05-Oct-18 14:01	CT007	450865A	
75-71-8	Dichlorodifluoromethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 23		ug/Kg	23	4.6	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.2		ug/Kg	9.2	0.92	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.2		ug/Kg	9.2	4.6	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
100-42-5	Styrene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.2		ug/Kg	9.2	2.3	1	"	"	"	"	"	
108-88-3	Toluene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.2		ug/Kg	9.2	2.3	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	89			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	96			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	93			70-130 %		"	"	"	"	"	

Sample Identification

GW-2

SC50826-03

Client Project #

60558725

Matrix

Ground Water

Collection Date/Time

02-Oct-18 11:55

Received

03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.72	U	µg/l	4.72	1.03	1	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813343	X
208-96-8	Acenaphthylene	< 4.72	U	µg/l	4.72	1.08	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.72	U	µg/l	4.72	0.466	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 4.72	U	µg/l	4.72	0.912	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.43	U	µg/l	9.43	4.31	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72	U	µg/l	4.72	0.820	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72	U	µg/l	4.72	0.677	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72	U	µg/l	4.72	0.631	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72	U	µg/l	4.72	0.660	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72	U	µg/l	4.72	0.926	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.72	U	µg/l	4.72	0.991	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 4.72	U	µg/l	4.72	0.825	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	1.86	J	µg/l	4.72	0.683	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.884	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.72	U	µg/l	4.72	0.441	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.72	U	µg/l	4.72	1.47	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.72	U	µg/l	4.72	0.786	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.72	U	µg/l	4.72	1.27	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.470	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72	U	µg/l	4.72	0.883	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72	U	µg/l	4.72	0.640	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.72	U	µg/l	4.72	1.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.60	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.49	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.42	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.72	U	µg/l	4.72	0.799	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.72	U	µg/l	4.72	0.887	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.72	U	µg/l	4.72	1.71	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.72	U	µg/l	4.72	0.586	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.72	U	µg/l	4.72	1.02	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.72	U	µg/l	4.72	1.14	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.12	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X

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Sample Identification

GW-2

SC50826-03

Client Project #

60558725

Matrix

Ground Water

Collection Date/Time

02-Oct-18 11:55

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.72	U	µg/l	4.72	1.19	1	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813343	X
206-44-0	Fluoranthene	< 4.72	U	µg/l	4.72	0.962	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72	U	µg/l	4.72	0.918	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.72	U	µg/l	4.72	1.26	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.72	U	µg/l	4.72	1.43	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.72	U	µg/l	4.72	1.58	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72	U	µg/l	4.72	0.548	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.72	U	µg/l	4.72	0.771	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.72	U	µg/l	4.72	1.56	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.43	U	µg/l	9.43	1.07	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72	U	µg/l	4.72	1.28	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.72	U	µg/l	4.72	0.474	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.72	U	µg/l	4.72	0.600	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.72	U	µg/l	4.72	0.593	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.72	U	µg/l	4.72	1.22	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.72	U	µg/l	4.72	0.676	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.9	U	µg/l	18.9	0.735	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.72	U	µg/l	4.72	0.565	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.72	U	µg/l	4.72	0.972	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.9	U	µg/l	18.9	0.733	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72	U	µg/l	4.72	0.932	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.72	U	µg/l	4.72	0.384	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.72	U	µg/l	4.72	1.48	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.72	U	µg/l	4.72	1.11	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.72	U	µg/l	4.72	0.737	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.72	U	µg/l	4.72	0.659	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.72	U	µg/l	4.72	0.758	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.72	U	µg/l	4.72	1.04	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	52		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	39		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	59		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	25		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	94		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	51		15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

GW-2

SC50826-03

Client Project #

60558725

Matrix

Ground Water

Collection Date/Time

02-Oct-18 11:55

Received

03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/L	1.0	0.25	1	SW8260C	02-Oct-18 11:55	06-Oct-18 22:17	CT007	450877A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/L	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0		ug/L	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/L	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/L	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/L	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/L	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/L	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/L	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/L	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

GW-2

SC50826-03

Client Project #

60558725

Matrix

Ground Water

Collection Date/Time

02-Oct-18 11:55

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/L	1.0	0.25	1	SW8260C	02-Oct-18 11:55	06-Oct-18 22:17	CT007	450877A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/L	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/L	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/L	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/L	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/L	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	96			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	89			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %		"	"	"	"	"	

Sample Identification

B-4 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-04	60558725	Soil	02-Oct-18 11:50	03-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 751	U, D	µg/kg dry	751	374	10	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
208-96-8	Acenaphthylene	< 751	U, D	µg/kg dry	751	370	10	"	"	"	"	"	X
62-53-3	Aniline	< 3720	U, D	µg/kg dry	3720	267	10	"	"	"	"	"	X
120-12-7	Anthracene	< 751	U, D	µg/kg dry	751	359	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 3720	U, D	µg/kg dry	3720	365	10	"	"	"	"	"	
92-87-5	Benzidine	< 7430	U, D	µg/kg dry	7430	748	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	435	J, D	µg/kg dry	751	396	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	372	J, D	µg/kg dry	751	280	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	398	J, D	µg/kg dry	751	364	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 751	U, D	µg/kg dry	751	302	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	454	J, D	µg/kg dry	751	294	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3720	U, D	µg/kg dry	3720	780	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3720	U, D	µg/kg dry	3720	304	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 3720	U, D	µg/kg dry	3720	330	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1880	U, D	µg/kg dry	1880	269	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 1880	U, D	µg/kg dry	1880	289	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1880	U, D	µg/kg dry	1880	464	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3720	U, D	µg/kg dry	3720	348	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3720	U, D	µg/kg dry	3720	434	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1880	U, D	µg/kg dry	1880	1050	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3720	U, D	µg/kg dry	3720	355	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1880	U, D	µg/kg dry	1880	407	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3720	U, D	µg/kg dry	3720	343	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1880	U, D	µg/kg dry	1880	334	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3720	U, D	µg/kg dry	3720	441	10	"	"	"	"	"	X
218-01-9	Chrysene	638	J, D	µg/kg dry	751	375	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 751	U, D	µg/kg dry	751	288	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1880	U, D	µg/kg dry	1880	286	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3720	U, D	µg/kg dry	3720	324	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3720	U, D	µg/kg dry	3720	324	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3720	U, D	µg/kg dry	3720	345	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3720	U, D	µg/kg dry	3720	565	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1880	U, D	µg/kg dry	1880	352	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3720	U, D	µg/kg dry	3720	459	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3720	U, D	µg/kg dry	3720	407	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3720	U, D	µg/kg dry	3720	266	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3720	U, D	µg/kg dry	3720	394	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3720	U, D	µg/kg dry	3720	477	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3720	U, D	µg/kg dry	3720	378	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1880	U, D	µg/kg dry	1880	727	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1880	U, D	µg/kg dry	1880	423	10	"	"	"	"	"	X

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Sample Identification

B-4 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-04	60558725	Soil	02-Oct-18 11:50	03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 3720	U, D	µg/kg dry	3720	420	10	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
206-44-0	Fluoranthene	668	J, D	µg/kg dry	751	397	10	"	"	"	"	"	X
86-73-7	Fluorene	< 751	U, D	µg/kg dry	751	382	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1880	U, D	µg/kg dry	1880	370	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1880	U, D	µg/kg dry	1880	449	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1880	U, D	µg/kg dry	1880	256	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1880	U, D	µg/kg dry	1880	405	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 751	U, D	µg/kg dry	751	270	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1880	U, D	µg/kg dry	1880	352	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	867	D	µg/kg dry	751	454	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3720	U, D	µg/kg dry	3720	316	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3720	U, D	µg/kg dry	3720	359	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 751	U, D	µg/kg dry	751	350	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3720	U, D	µg/kg dry	3720	315	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3720	U, D	µg/kg dry	3720	508	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1880	U, D	µg/kg dry	1880	579	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1880	U, D	µg/kg dry	1880	342	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1880	U, D	µg/kg dry	1880	312	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 14900	U, D	µg/kg dry	14900	600	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1880	U, D	µg/kg dry	1880	349	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1880	U, D	µg/kg dry	1880	366	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3720	U, D	µg/kg dry	3720	403	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3720	U, D	µg/kg dry	3720	397	10	"	"	"	"	"	X
85-01-8	Phenanthrene	687	J, D	µg/kg dry	751	350	10	"	"	"	"	"	X
108-95-2	Phenol	< 3720	U, D	µg/kg dry	3720	245	10	"	"	"	"	"	X
129-00-0	Pyrene	942	D	µg/kg dry	751	419	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3720	U, D	µg/kg dry	3720	554	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3720	U, D	µg/kg dry	3720	368	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 751	U, D	µg/kg dry	751	369	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 3720	U, D	µg/kg dry	3720	334	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1880	U, D	µg/kg dry	1880	335	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3720	U, D	µg/kg dry	3720	587	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3720	U, D	µg/kg dry	3720	360	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	81		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	73		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	78		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	65		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	153	SBN	30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	43		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	88.5	%	1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-4 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-04	60558725	Soil	02-Oct-18 11:50	03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 310		ug/Kg	310	62	50	SW8260C	02-Oct-18 11:50	05-Oct-18 14:22	CT007	450865A	
71-55-6	1,1,1-Trichloroethane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 310		ug/Kg	310	62	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 310		ug/Kg	310	62	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	54	J.	ug/Kg	310	31	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	41	J.	ug/Kg	310	31	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 310		ug/Kg	310	62	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 1500		ug/Kg	1500	310	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 1500		ug/Kg	1500	310	50	"	"	"	"	"	
67-64-1	Acetone	< 1500		ug/Kg	1500	310	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 620		ug/Kg	620	31	50	"	"	"	"	"	
71-43-2	Benzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
75-25-2	Bromoform	< 310		ug/Kg	310	62	50	"	"	"	"	"	
74-83-9	Bromomethane	< 310		ug/Kg	310	120	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 310		ug/Kg	310	62	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 310		ug/Kg	310	62	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
75-00-3	Chloroethane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
67-66-3	Chloroform	< 310		ug/Kg	310	31	50	"	"	"	"	"	
74-87-3	Chloromethane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 310		ug/Kg	310	62	50	"	"	"	"	"	

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Sample Identification

B-4 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-04	60558725	Soil	02-Oct-18 11:50	03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

74-95-3	Dibromomethane	< 310		ug/Kg	310	62	50	SW8260C	02-Oct-18 11:50	05-Oct-18 14:22	CT007	450865A	
75-71-8	Dichlorodifluoromethane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	95	J.	ug/Kg	310	62	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 1500		ug/Kg	1500	310	50	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 620		ug/Kg	620	62	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 620		ug/Kg	620	310	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 310		ug/Kg	310	62	50	"	"	"	"	"	
91-20-3	Naphthalene	80	J.	ug/Kg	310	62	50	"	"	"	"	"	
95-47-6	o-Xylene	< 310		ug/Kg	310	62	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
100-42-5	Styrene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 310		ug/Kg	310	62	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 620		ug/Kg	620	150	50	"	"	"	"	"	
108-88-3	Toluene	69	J.	ug/Kg	310	31	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 620		ug/Kg	620	150	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 310		ug/Kg	310	31	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 310		ug/Kg	310	62	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 310		ug/Kg	310	31	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 310		ug/Kg	310	31	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	93			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	95			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	93			70-130 %		"	"	"	"	"	

Sample Identification**B-4 (6-8')**

SC50826-05

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 12:15

Received

03-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 20000	U, D	µg/kg dry	20000	9960	20	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
208-96-8	Acenaphthylene	< 20000	U, D	µg/kg dry	20000	9870	20	"	"	"	"	"	X
62-53-3	Aniline	< 99000	U, D	µg/kg dry	99000	7110	20	"	"	"	"	"	X
120-12-7	Anthracene	< 20000	U, D	µg/kg dry	20000	9570	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 99000	U, D	µg/kg dry	99000	9730	20	"	"	"	"	"	
92-87-5	Benzidine	< 198000	U, D	µg/kg dry	198000	19900	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 20000	U, D	µg/kg dry	20000	10600	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 20000	U, D	µg/kg dry	20000	7450	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 20000	U, D	µg/kg dry	20000	9690	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 20000	U, D	µg/kg dry	20000	8040	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 20000	U, D	µg/kg dry	20000	7830	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 99000	U, D	µg/kg dry	99000	20800	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 99000	U, D	µg/kg dry	99000	8100	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 99000	U, D	µg/kg dry	99000	8790	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 50100	U, D	µg/kg dry	50100	7180	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 50100	U, D	µg/kg dry	50100	7710	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 50100	U, D	µg/kg dry	50100	12400	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 99000	U, D	µg/kg dry	99000	9270	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 99000	U, D	µg/kg dry	99000	11500	20	"	"	"	"	"	X
86-74-8	Carbazole	< 50100	U, D	µg/kg dry	50100	27900	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 99000	U, D	µg/kg dry	99000	9450	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 50100	U, D	µg/kg dry	50100	10800	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 99000	U, D	µg/kg dry	99000	9150	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 50100	U, D	µg/kg dry	50100	8910	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 99000	U, D	µg/kg dry	99000	11800	20	"	"	"	"	"	X
218-01-9	Chrysene	< 20000	U, D	µg/kg dry	20000	9990	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 20000	U, D	µg/kg dry	20000	7680	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 50100	U, D	µg/kg dry	50100	7620	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 99000	U, D	µg/kg dry	99000	8640	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 99000	U, D	µg/kg dry	99000	8640	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 99000	U, D	µg/kg dry	99000	9180	20	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 99000	U, D	µg/kg dry	99000	15100	20	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 50100	U, D	µg/kg dry	50100	9360	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 99000	U, D	µg/kg dry	99000	12200	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 99000	U, D	µg/kg dry	99000	10800	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 99000	U, D	µg/kg dry	99000	7080	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 99000	U, D	µg/kg dry	99000	10500	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 99000	U, D	µg/kg dry	99000	12700	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 99000	U, D	µg/kg dry	99000	10100	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 50100	U, D	µg/kg dry	50100	19400	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 50100	U, D	µg/kg dry	50100	11300	20	"	"	"	"	"	X

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Sample Identification

B-4 (6-8')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-05	60558725	Soil	02-Oct-18 12:15	03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 99000	U, D	µg/kg dry	99000	11200	20	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
206-44-0	Fluoranthene	< 20000	U, D	µg/kg dry	20000	10600	20	"	"	"	"	"	X
86-73-7	Fluorene	< 20000	U, D	µg/kg dry	20000	10200	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 50100	U, D	µg/kg dry	50100	9860	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 50100	U, D	µg/kg dry	50100	12000	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 50100	U, D	µg/kg dry	50100	6810	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 50100	U, D	µg/kg dry	50100	10800	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 20000	U, D	µg/kg dry	20000	7200	20	"	"	"	"	"	X
78-59-1	Isophorone	< 50100	U, D	µg/kg dry	50100	9390	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 20000	U, D	µg/kg dry	20000	12100	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 99000	U, D	µg/kg dry	99000	8410	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 99000	U, D	µg/kg dry	99000	9570	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 20000	U, D	µg/kg dry	20000	9330	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 99000	U, D	µg/kg dry	99000	8400	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 99000	U, D	µg/kg dry	99000	13500	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 50100	U, D	µg/kg dry	50100	15400	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 50100	U, D	µg/kg dry	50100	9120	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 50100	U, D	µg/kg dry	50100	8310	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 396000	U, D	µg/kg dry	396000	16000	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 50100	U, D	µg/kg dry	50100	9300	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 50100	U, D	µg/kg dry	50100	9750	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 99000	U, D	µg/kg dry	99000	10700	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 99000	U, D	µg/kg dry	99000	10600	20	"	"	"	"	"	X
85-01-8	Phenanthrene	< 20000	U, D	µg/kg dry	20000	9310	20	"	"	"	"	"	X
108-95-2	Phenol	< 99000	U, D	µg/kg dry	99000	6520	20	"	"	"	"	"	X
129-00-0	Pyrene	< 20000	U, D	µg/kg dry	20000	11200	20	"	"	"	"	"	X
110-86-1	Pyridine	< 99000	U, D	µg/kg dry	99000	14800	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 99000	U, D	µg/kg dry	99000	9810	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 20000	U, D	µg/kg dry	20000	9840	20	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 99000	U, D	µg/kg dry	99000	8910	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 50100	U, D	µg/kg dry	50100	8940	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 99000	U, D	µg/kg dry	99000	15600	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 99000	U, D	µg/kg dry	99000	9600	20	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	56			30-130 %		"	"	"	"	"	
367-12-4	2-Fluorophenol	44			30-130 %		"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	48			30-130 %		"	"	"	"	"	
4165-62-2	Phenol-d5	40			30-130 %		"	"	"	"	"	
1718-51-0	Terphenyl-dl4	96			30-130 %		"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	12	SAC		30-130 %		"	"	"	"	"	

General Chemistry Parameters

% Solids	65.7	%		1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-4 (6-8')**

SC50826-05

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 12:15

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 7.4		ug/Kg	7.4	1.5	1	SW8260C	02-Oct-18 12:15	05-Oct-18 03:18	CT007	450521A	
71-55-6	1,1,1-Trichloroethane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 810		ug/Kg	810	160	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 810		ug/Kg	810	160	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 810		ug/Kg	810	81	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 810		ug/Kg	810	160	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 810		ug/Kg	810	160	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 810		ug/Kg	810	160	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 37		ug/Kg	37	7.4	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 37		ug/Kg	37	7.4	1	"	"	"	"	"	
67-64-1	Acetone	280	S	ug/Kg	37	7.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 15		ug/Kg	15	0.74	1	"	"	"	"	"	
71-43-2	Benzene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
75-25-2	Bromoform	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
74-83-9	Bromomethane	< 7.4		ug/Kg	7.4	3.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	2.0	J.	ug/Kg	7.4	1.5	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
75-00-3	Chloroethane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
67-66-3	Chloroform	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
74-87-3	Chloromethane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	

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Sample Identification

B-4 (6-8')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-05	60558725	Soil	02-Oct-18 12:15	03-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

74-95-3	Dibromomethane	< 7.4		ug/Kg	7.4	1.5	1	SW8260C	02-Oct-18 12:15	05-Oct-18 03:18	CT007	450521A	
75-71-8	Dichlorodifluoromethane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	2.8	J.	ug/Kg	7.4	1.5	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	66		ug/Kg	37	7.4	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 15		ug/Kg	15	1.5	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 15		ug/Kg	15	7.4	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 810		ug/Kg	810	160	50	"	"	"	"	"	
91-20-3	Naphthalene	< 810		ug/Kg	810	160	50	"	"	"	"	"	
95-47-6	o-Xylene	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
100-42-5	Styrene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 810		ug/Kg	810	81	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 15		ug/Kg	15	3.7	1	"	"	"	"	"	
108-88-3	Toluene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 1600		ug/Kg	1600	410	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 7.4		ug/Kg	7.4	1.5	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 7.4		ug/Kg	7.4	0.74	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	95			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	125			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	73			70-130 %		"	"	"	"	"	

Sample Identification

B-4 (10-12')

SC50826-06

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 12:40

Received

03-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 9150	U, D	µg/kg dry	9150	4550	10	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
208-96-8	Acenaphthylene	< 9150	U, D	µg/kg dry	9150	4510	10	"	"	"	"	"	X
62-53-3	Aniline	< 45200	U, D	µg/kg dry	45200	3250	10	"	"	"	"	"	X
120-12-7	Anthracene	< 9150	U, D	µg/kg dry	9150	4370	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 45200	U, D	µg/kg dry	45200	4450	10	"	"	"	"	"	
92-87-5	Benzidine	< 90500	U, D	µg/kg dry	90500	9100	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 9150	U, D	µg/kg dry	9150	4830	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 9150	U, D	µg/kg dry	9150	3400	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 9150	U, D	µg/kg dry	9150	4430	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 9150	U, D	µg/kg dry	9150	3670	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 9150	U, D	µg/kg dry	9150	3580	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 45200	U, D	µg/kg dry	45200	9500	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 45200	U, D	µg/kg dry	45200	3700	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 45200	U, D	µg/kg dry	45200	4020	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 22900	U, D	µg/kg dry	22900	3280	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 22900	U, D	µg/kg dry	22900	3520	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 22900	U, D	µg/kg dry	22900	5650	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 45200	U, D	µg/kg dry	45200	4240	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 45200	U, D	µg/kg dry	45200	5280	10	"	"	"	"	"	X
86-74-8	Carbazole	< 22900	U, D	µg/kg dry	22900	12800	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 45200	U, D	µg/kg dry	45200	4320	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 22900	U, D	µg/kg dry	22900	4950	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 45200	U, D	µg/kg dry	45200	4180	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 22900	U, D	µg/kg dry	22900	4070	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 45200	U, D	µg/kg dry	45200	5370	10	"	"	"	"	"	X
218-01-9	Chrysene	< 9150	U, D	µg/kg dry	9150	4570	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 9150	U, D	µg/kg dry	9150	3510	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 22900	U, D	µg/kg dry	22900	3480	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 45200	U, D	µg/kg dry	45200	3950	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 45200	U, D	µg/kg dry	45200	3950	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 45200	U, D	µg/kg dry	45200	4200	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 45200	U, D	µg/kg dry	45200	6880	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 22900	U, D	µg/kg dry	22900	4280	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 45200	U, D	µg/kg dry	45200	5590	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 45200	U, D	µg/kg dry	45200	4950	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 45200	U, D	µg/kg dry	45200	3240	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 45200	U, D	µg/kg dry	45200	4800	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 45200	U, D	µg/kg dry	45200	5810	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 45200	U, D	µg/kg dry	45200	4610	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 22900	U, D	µg/kg dry	22900	8860	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 22900	U, D	µg/kg dry	22900	5160	10	"	"	"	"	"	X

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Sample Identification**B-4 (10-12')**

SC50826-06

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 12:40

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 45200	U, D	µg/kg dry	45200	5110	10	SW846 8270D	05-Oct-18	10-Oct-18	MSL	1813345	X
206-44-0	Fluoranthene	< 9150	U, D	µg/kg dry	9150	4830	10	"	"	"	"	"	X
86-73-7	Fluorene	< 9150	U, D	µg/kg dry	9150	4650	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 22900	U, D	µg/kg dry	22900	4510	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 22900	U, D	µg/kg dry	22900	5470	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 22900	U, D	µg/kg dry	22900	3110	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 22900	U, D	µg/kg dry	22900	4940	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 9150	U, D	µg/kg dry	9150	3290	10	"	"	"	"	"	X
78-59-1	Isophorone	< 22900	U, D	µg/kg dry	22900	4290	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 9150	U, D	µg/kg dry	9150	5530	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 45200	U, D	µg/kg dry	45200	3850	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 45200	U, D	µg/kg dry	45200	4370	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 9150	U, D	µg/kg dry	9150	4260	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 45200	U, D	µg/kg dry	45200	3840	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 45200	U, D	µg/kg dry	45200	6180	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 22900	U, D	µg/kg dry	22900	7050	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 22900	U, D	µg/kg dry	22900	4170	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 22900	U, D	µg/kg dry	22900	3800	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 181000	U, D	µg/kg dry	181000	7310	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 22900	U, D	µg/kg dry	22900	4250	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 22900	U, D	µg/kg dry	22900	4460	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 45200	U, D	µg/kg dry	45200	4910	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 45200	U, D	µg/kg dry	45200	4830	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 9150	U, D	µg/kg dry	9150	4260	10	"	"	"	"	"	X
108-95-2	Phenol	< 45200	U, D	µg/kg dry	45200	2980	10	"	"	"	"	"	X
129-00-0	Pyrene	< 9150	U, D	µg/kg dry	9150	5100	10	"	"	"	"	"	X
110-86-1	Pyridine	< 45200	U, D	µg/kg dry	45200	6750	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 45200	U, D	µg/kg dry	45200	4480	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 9150	U, D	µg/kg dry	9150	4500	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 45200	U, D	µg/kg dry	45200	4070	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 22900	U, D	µg/kg dry	22900	4080	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 45200	U, D	µg/kg dry	45200	7140	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 45200	U, D	µg/kg dry	45200	4390	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	82			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	34			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	44			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	34			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	134	SBN		30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	12	SAC		30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	72.6	%					1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-4 (10-12')**

SC50826-06

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 12:40

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 6.5		ug/Kg	6.5	1.3	1	SW8260C	02-Oct-18 12:40	08-Oct-18 12:02	CT007	450998A	
71-55-6	1,1,1-Trichloroethane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 610		ug/Kg	610	120	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 610		ug/Kg	610	120	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 610		ug/Kg	610	61	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 610		ug/Kg	610	120	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 610		ug/Kg	610	120	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 610		ug/Kg	610	120	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 32		ug/Kg	32	6.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 32		ug/Kg	32	6.5	1	"	"	"	"	"	
67-64-1	Acetone	92	S	ug/Kg	32	6.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 13		ug/Kg	13	0.65	1	"	"	"	"	"	
71-43-2	Benzene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
75-25-2	Bromoform	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
74-83-9	Bromomethane	< 6.5		ug/Kg	6.5	2.6	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	2.8	J.	ug/Kg	6.5	1.3	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
75-00-3	Chloroethane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
67-66-3	Chloroform	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
74-87-3	Chloromethane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	

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Sample Identification**B-4 (10-12')**

SC50826-06

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 12:40

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 6.5		ug/Kg	6.5	1.3	1	SW8260C	02-Oct-18 12:40	08-Oct-18 12:02	CT007	450998A	
75-71-8	Dichlorodifluoromethane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	34		ug/Kg	32	6.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 13		ug/Kg	13	1.3	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 13		ug/Kg	13	6.5	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 610		ug/Kg	610	120	50	"	"	"	"	"	
91-20-3	Naphthalene	< 610		ug/Kg	610	120	50	"	"	"	"	"	
95-47-6	o-Xylene	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
100-42-5	Styrene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 610		ug/Kg	610	61	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 13		ug/Kg	13	3.2	1	"	"	"	"	"	
108-88-3	Toluene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 1200		ug/Kg	1200	310	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 6.5		ug/Kg	6.5	1.3	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 6.5		ug/Kg	6.5	0.65	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	131			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	63			70-130 %		"	"	"	"	"	

Sample Identification**B-3 (0-2')**

SC50826-07

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 13:30

Received

03-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 392	U, D	µg/kg dry	392	195	5	SW846 8270D	05-Oct-18	12-Oct-18	MSL	1813345	X
208-96-8	Acenaphthylene	< 392	U, D	µg/kg dry	392	193	5	"	"	"	"	"	X
62-53-3	Aniline	< 1940	U, D	µg/kg dry	1940	139	5	"	"	"	"	"	X
120-12-7	Anthracene	256	J, D	µg/kg dry	392	187	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1940	U, D	µg/kg dry	1940	190	5	"	"	"	"	"	
92-87-5	Benzidine	< 3870	U, D	µg/kg dry	3870	390	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	1,100	D	µg/kg dry	392	207	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,040	D	µg/kg dry	392	146	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	1,290	D	µg/kg dry	392	190	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	728	D	µg/kg dry	392	157	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	806	D	µg/kg dry	392	153	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1940	U, D	µg/kg dry	1940	407	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1940	U, D	µg/kg dry	1940	159	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1940	U, D	µg/kg dry	1940	172	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 980	U, D	µg/kg dry	980	140	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 980	U, D	µg/kg dry	980	151	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 980	U, D	µg/kg dry	980	242	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1940	U, D	µg/kg dry	1940	181	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1940	U, D	µg/kg dry	1940	226	5	"	"	"	"	"	X
86-74-8	Carbazole	< 980	U, D	µg/kg dry	980	547	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1940	U, D	µg/kg dry	1940	185	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 980	U, D	µg/kg dry	980	212	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1940	U, D	µg/kg dry	1940	179	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 980	U, D	µg/kg dry	980	174	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1940	U, D	µg/kg dry	1940	230	5	"	"	"	"	"	X
218-01-9	Chrysene	1,150	D	µg/kg dry	392	195	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	196	J, D	µg/kg dry	392	150	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	160	J, D	µg/kg dry	980	149	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	169	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	169	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	180	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1940	U, D	µg/kg dry	1940	295	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 980	U, D	µg/kg dry	980	183	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1940	U, D	µg/kg dry	1940	239	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1940	U, D	µg/kg dry	1940	212	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1940	U, D	µg/kg dry	1940	139	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1940	U, D	µg/kg dry	1940	205	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1940	U, D	µg/kg dry	1940	249	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1940	U, D	µg/kg dry	1940	197	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 980	U, D	µg/kg dry	980	379	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 980	U, D	µg/kg dry	980	221	5	"	"	"	"	"	X

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Sample Identification

B-3 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-07	60558725	Soil	02-Oct-18 13:30	03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 1940	U, D	µg/kg dry	1940	219	5	SW846 8270D	05-Oct-18	12-Oct-18	MSL	1813345	X
206-44-0	Fluoranthene	1,740	D	µg/kg dry	392	207	5	"	"	"	"	"	X
86-73-7	Fluorene	< 392	U, D	µg/kg dry	392	199	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 980	U, D	µg/kg dry	980	193	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 980	U, D	µg/kg dry	980	234	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 980	U, D	µg/kg dry	980	133	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 980	U, D	µg/kg dry	980	211	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	702	D	µg/kg dry	392	141	5	"	"	"	"	"	X
78-59-1	Isophorone	< 980	U, D	µg/kg dry	980	184	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	753	D	µg/kg dry	392	237	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1940	U, D	µg/kg dry	1940	165	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1940	U, D	µg/kg dry	1940	187	5	"	"	"	"	"	X
91-20-3	Naphthalene	313	J, D	µg/kg dry	392	183	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1940	U, D	µg/kg dry	1940	164	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1940	U, D	µg/kg dry	1940	265	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 980	U, D	µg/kg dry	980	302	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 980	U, D	µg/kg dry	980	178	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 980	U, D	µg/kg dry	980	163	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7750	U, D	µg/kg dry	7750	313	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 980	U, D	µg/kg dry	980	182	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 980	U, D	µg/kg dry	980	191	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1940	U, D	µg/kg dry	1940	210	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1940	U, D	µg/kg dry	1940	207	5	"	"	"	"	"	X
85-01-8	Phenanthrene	1,140	D	µg/kg dry	392	182	5	"	"	"	"	"	X
108-95-2	Phenol	< 1940	U, D	µg/kg dry	1940	127	5	"	"	"	"	"	X
129-00-0	Pyrene	1,710	D	µg/kg dry	392	218	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1940	U, D	µg/kg dry	1940	289	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1940	U, D	µg/kg dry	1940	192	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	231	J, D	µg/kg dry	392	193	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1940	U, D	µg/kg dry	1940	174	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 980	U, D	µg/kg dry	980	175	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1940	U, D	µg/kg dry	1940	306	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1940	U, D	µg/kg dry	1940	188	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	93		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	80		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	73		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	80		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	148	SBN	30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	77		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	84.2	%	1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-3 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-07	60558725	Soil	02-Oct-18 13:30	03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

630-20-6	1,1,1,2-Tetrachloroethane	< 5.4		ug/Kg	5.4	1.1	1	SW8260C	02-Oct-18 13:30	08-Oct-18 12:23	CT007	450998A	
71-55-6	1,1,1-Trichloroethane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 27		ug/Kg	27	5.4	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 27		ug/Kg	27	5.4	1	"	"	"	"	"	
67-64-1	Acetone	17	J., S	ug/Kg	27	5.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 11		ug/Kg	11	0.54	1	"	"	"	"	"	
71-43-2	Benzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.4		ug/Kg	5.4	2.1	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	

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Sample Identification

B-3 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-07	60558725	Soil	02-Oct-18 13:30	03-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

74-95-3	Dibromomethane	< 5.4		ug/Kg	5.4	1.1	1	SW8260C	02-Oct-18 13:30	08-Oct-18 12:23	CT007	450998A	
75-71-8	Dichlorodifluoromethane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 27		ug/Kg	27	5.4	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 11		ug/Kg	11	1.1	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 11		ug/Kg	11	5.4	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
100-42-5	Styrene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 11		ug/Kg	11	2.7	1	"	"	"	"	"	
108-88-3	Toluene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 11		ug/Kg	11	2.7	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.4		ug/Kg	5.4	1.1	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.4		ug/Kg	5.4	0.54	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	99			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	113			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	89			70-130 %		"	"	"	"	"	

Sample Identification**B-3 (6-8')**

SC50826-08

Client Project #

60558725

Matrix

Soil

Collection Date/Time

02-Oct-18 13:50

Received

03-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 1490	U, D	µg/kg dry	1490	743	20	SW846 8270D	05-Oct-18	12-Oct-18	MSL	1813345	X
208-96-8	Acenaphthylene	< 1490	U, D	µg/kg dry	1490	736	20	"	"	"	"	"	X
62-53-3	Aniline	< 7390	U, D	µg/kg dry	7390	531	20	"	"	"	"	"	X
120-12-7	Anthracene	1,080	J, D	µg/kg dry	1490	714	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 7390	U, D	µg/kg dry	7390	726	20	"	"	"	"	"	
92-87-5	Benzidine	< 14800	U, D	µg/kg dry	14800	1490	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	3,970	D	µg/kg dry	1490	788	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	4,010	D	µg/kg dry	1490	556	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	3,580	D	µg/kg dry	1490	723	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	2,900	D	µg/kg dry	1490	600	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	3,040	D	µg/kg dry	1490	584	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 7390	U, D	µg/kg dry	7390	1550	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 7390	U, D	µg/kg dry	7390	605	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 7390	U, D	µg/kg dry	7390	656	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 3740	U, D	µg/kg dry	3740	535	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 3740	U, D	µg/kg dry	3740	575	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 3740	U, D	µg/kg dry	3740	922	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 7390	U, D	µg/kg dry	7390	692	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 7390	U, D	µg/kg dry	7390	862	20	"	"	"	"	"	X
86-74-8	Carbazole	< 3740	U, D	µg/kg dry	3740	2090	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 7390	U, D	µg/kg dry	7390	705	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 3740	U, D	µg/kg dry	3740	808	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 7390	U, D	µg/kg dry	7390	683	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 3740	U, D	µg/kg dry	3740	665	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 7390	U, D	µg/kg dry	7390	877	20	"	"	"	"	"	X
218-01-9	Chrysene	3,980	D	µg/kg dry	1490	745	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	873	J, D	µg/kg dry	1490	573	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 3740	U, D	µg/kg dry	3740	569	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7390	U, D	µg/kg dry	7390	645	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7390	U, D	µg/kg dry	7390	645	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7390	U, D	µg/kg dry	7390	685	20	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 7390	U, D	µg/kg dry	7390	1120	20	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 3740	U, D	µg/kg dry	3740	699	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 7390	U, D	µg/kg dry	7390	913	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 7390	U, D	µg/kg dry	7390	808	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 7390	U, D	µg/kg dry	7390	528	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 7390	U, D	µg/kg dry	7390	783	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 7390	U, D	µg/kg dry	7390	948	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 7390	U, D	µg/kg dry	7390	752	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 3740	U, D	µg/kg dry	3740	1450	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 3740	U, D	µg/kg dry	3740	842	20	"	"	"	"	"	X

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Sample Identification

B-3 (6-8')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-08	60558725	Soil	02-Oct-18 13:50	03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 7390	U, D	µg/kg dry	7390	835	20	SW846 8270D	05-Oct-18	12-Oct-18	MSL	1813345	X
206-44-0	Fluoranthene	5,220	D	µg/kg dry	1490	789	20	"	"	"	"	"	X
86-73-7	Fluorene	761	J, D	µg/kg dry	1490	759	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 3740	U, D	µg/kg dry	3740	736	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 3740	U, D	µg/kg dry	3740	893	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 3740	U, D	µg/kg dry	3740	508	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 3740	U, D	µg/kg dry	3740	806	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	2,920	D	µg/kg dry	1490	537	20	"	"	"	"	"	X
78-59-1	Isophorone	< 3740	U, D	µg/kg dry	3740	701	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1490	U, D	µg/kg dry	1490	902	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 7390	U, D	µg/kg dry	7390	628	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 7390	U, D	µg/kg dry	7390	714	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1490	U, D	µg/kg dry	1490	696	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 7390	U, D	µg/kg dry	7390	627	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 7390	U, D	µg/kg dry	7390	1010	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 3740	U, D	µg/kg dry	3740	1150	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 3740	U, D	µg/kg dry	3740	681	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 3740	U, D	µg/kg dry	3740	620	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 29500	U, D	µg/kg dry	29500	1190	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 3740	U, D	µg/kg dry	3740	694	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 3740	U, D	µg/kg dry	3740	728	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 7390	U, D	µg/kg dry	7390	801	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 7390	U, D	µg/kg dry	7390	789	20	"	"	"	"	"	X
85-01-8	Phenanthrene	4,190	D	µg/kg dry	1490	695	20	"	"	"	"	"	X
108-95-2	Phenol	< 7390	U, D	µg/kg dry	7390	486	20	"	"	"	"	"	X
129-00-0	Pyrene	7,100	D	µg/kg dry	1490	833	20	"	"	"	"	"	X
110-86-1	Pyridine	< 7390	U, D	µg/kg dry	7390	1100	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7390	U, D	µg/kg dry	7390	732	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1490	U, D	µg/kg dry	1490	734	20	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 7390	U, D	µg/kg dry	7390	665	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 3740	U, D	µg/kg dry	3740	667	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 7390	U, D	µg/kg dry	7390	1170	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 7390	U, D	µg/kg dry	7390	716	20	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	95		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	75		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	80		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	77		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	170	SBN	30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	62		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	88.3	%	1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-3 (6-8')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-08	60558725	Soil	02-Oct-18 13:50	03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

630-20-6	1,1,1,2-Tetrachloroethane	< 4.6		ug/Kg	4.6	0.92	1	SW8260C	02-Oct-18 13:50	05-Oct-18 17:32	CT007	450865A	
71-55-6	1,1,1-Trichloroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	1.4	J.	ug/Kg	4.6	0.46	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	0.68	J.	ug/Kg	4.6	0.46	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 23		ug/Kg	23	4.6	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 23		ug/Kg	23	4.6	1	"	"	"	"	"	
67-64-1	Acetone	14	J., S	ug/Kg	23	4.6	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.2		ug/Kg	9.2	0.46	1	"	"	"	"	"	
71-43-2	Benzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.6		ug/Kg	4.6	1.8	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	

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Sample Identification

B-3 (6-8')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50826-08	60558725	Soil	02-Oct-18 13:50	03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

74-95-3	Dibromomethane	< 4.6		ug/Kg	4.6	0.92	1	SW8260C	02-Oct-18 13:50	05-Oct-18 17:32	CT007	450865A	
75-71-8	Dichlorodifluoromethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	0.68	J.	ug/Kg	4.6	0.46	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 23		ug/Kg	23	4.6	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.2		ug/Kg	9.2	0.92	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.2		ug/Kg	9.2	4.6	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	3.0	J.	ug/Kg	4.6	0.46	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	2.8	J.	ug/Kg	4.6	0.46	1	"	"	"	"	"	
100-42-5	Styrene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	1.3	J.	ug/Kg	4.6	0.46	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.2		ug/Kg	9.2	2.3	1	"	"	"	"	"	
108-88-3	Toluene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.2		ug/Kg	9.2	2.3	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.6		ug/Kg	4.6	0.92	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.6		ug/Kg	4.6	0.46	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	94			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	92			70-130 %		"	"	"	"	"	

Sample Identification

Trip Blank-W

SC50826-09

Client Project #

60558725

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 13:50

Received

03-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
Subcontracted Analyses													
Prepared by method SW8260C													
Analysis performed by Phoenix Environmental Labs, Inc. * - CT007													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/L	1.0	0.25	1	SW8260C	02-Oct-18 13:50	06-Oct-18 21:28	CT007	450877A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/L	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0		ug/L	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/L	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	2.6	J., S	ug/L	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/L	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/L	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/L	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/L	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/L	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

Trip Blank-W

SC50826-09

Client Project #

60558725

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 13:50

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

74-95-3	Dibromomethane	< 1.0		ug/L	1.0	0.25	1	SW8260C	02-Oct-18 13:50	06-Oct-18 21:28	CT007	450877A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/L	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/L	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/L	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/L	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/L	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/L	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/L	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	97			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	89			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	93			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	90			70-130 %		"	"	"	"	"	

Sample Identification

Trip Blank-S

SC50826-10

Client Project #

60558725

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 13:50

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted Analyses

Subcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

630-20-6	1,1,1,2-Tetrachloroethane	< 250		ug/Kg	250	50	50	SW8260CHL	02-Oct-18 13:50	04-Oct-18 23:47	CT007	450521A	
71-55-6	1,1,1-Trichloroethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 1300		ug/Kg	1300	250	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 1300		ug/Kg	1300	250	50	"	"	"	"	"	
67-64-1	Acetone	< 5000		ug/Kg	5000	250	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 500		ug/Kg	500	25	50	"	"	"	"	"	
71-43-2	Benzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
75-25-2	Bromoform	< 250		ug/Kg	250	50	50	"	"	"	"	"	
74-83-9	Bromomethane	< 250		ug/Kg	250	100	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 250		ug/Kg	250	50	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 250		ug/Kg	250	50	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
75-00-3	Chloroethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
67-66-3	Chloroform	< 250		ug/Kg	250	25	50	"	"	"	"	"	
74-87-3	Chloromethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	

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Sample Identification

Trip Blank-S

SC50826-10

Client Project #

60558725

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 13:50

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 250		ug/Kg	250	50	50	SW8260CHL	02-Oct-18 13:50	04-Oct-18 23:47	CT007	450521A	
75-71-8	Dichlorodifluoromethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 3000		ug/Kg	3000	250	50	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 250		ug/Kg	250	50	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 500		ug/Kg	500	250	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
91-20-3	Naphthalene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
95-47-6	o-Xylene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
100-42-5	Styrene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 250		ug/Kg	250	50	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 500		ug/Kg	500	130	50	"	"	"	"	"	
108-88-3	Toluene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 500		ug/Kg	500	130	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 250		ug/Kg	250	25	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 250		ug/Kg	250	25	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	94			70-130 %		"	"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %		"	"	"	"	"	"	

Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/Kg	5.0	1.0	1	SW8260CLL	"	04-Oct-18 23:25	CT007	"	
71-55-6	1,1,1-Trichloroethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	

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Sample Identification

Trip Blank-S

SC50826-10

Client Project #

60558725

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 13:50

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

96-18-4	1,2,3-Trichloropropane	< 5.0		ug/Kg	5.0	0.50	1	SW8260CLL	02-Oct-18 13:50	04-Oct-18 23:25	CT007	450521A	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/Kg	25	5.0	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 25		ug/Kg	25	5.0	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/Kg	25	5.0	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/Kg	10	0.50	1	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/Kg	5.0	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 25		ug/Kg	25	5.0	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/Kg	10	1.0	1	"	"	"	"	"	

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Sample Identification

Trip Blank-S

SC50826-10

Client Project #

60558725

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 13:50

Received

03-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

75-09-2	Methylene chloride	< 10		ug/Kg	10	5.0	1	SW8260CLL	02-Oct-18 13:50	04-Oct-18 23:25	CT007	450521A	
104-51-8	n-Butylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/Kg	10	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 10		ug/Kg	10	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	98			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	94			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %		"	"	"	"	"	

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813343 - SW846 3510C										
<u>Blank (1813343-BLK1)</u>	<u>Prepared: 05-Oct-18 Analyzed: 08-Oct-18</u>									
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3'-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813343 - SW846 3510C										
<u>Blank (1813343-BLK1)</u>					<u>Prepared: 05-Oct-18 Analyzed: 08-Oct-18</u>					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	22.1		µg/l		50.0		44	30-130		
Surrogate: 2-Fluorophenol	19.2		µg/l		50.0		38	15-110		
Surrogate: Nitrobenzene-d5	23.4		µg/l		50.0		47	30-130		
Surrogate: Phenol-d5	14.1		µg/l		50.0		28	15-110		
Surrogate: Terphenyl-dl4	40.2		µg/l		50.0		80	30-130		
Surrogate: 2,4,6-Tribromophenol	17.5		µg/l		50.0		35	15-110		
<u>LCS (1813343-BS1)</u>					<u>Prepared: 05-Oct-18 Analyzed: 08-Oct-18</u>					
Acenaphthene	35.4		µg/l	5.00	50.0		71	40-140		
Acenaphthylene	36.4		µg/l	5.00	50.0		73	40-140		
Aniline	29.8		µg/l	5.00	50.0		60	40-140		
Anthracene	34.8		µg/l	5.00	50.0		70	40-140		
Azobenzene/Diphenyldiazene	37.3		µg/l	5.00	50.0		75	40-140		
Benzidine	58.6		µg/l	10.0	50.0		117	40-140		
Benzo (a) anthracene	36.4		µg/l	5.00	50.0		73	40-140		
Benzo (a) pyrene	37.0		µg/l	5.00	50.0		74	40-140		
Benzo (b) fluoranthene	39.0		µg/l	5.00	50.0		78	40-140		
Benzo (g,h,i) perylene	37.5		µg/l	5.00	50.0		75	40-140		
Benzo (k) fluoranthene	35.6		µg/l	5.00	50.0		71	40-140		
Benzoic acid	20.7		µg/l	5.00	50.0		41	30-130		
Benzyl alcohol	30.9		µg/l	5.00	50.0		62	40-140		
Bis(2-chloroethoxy)methane	28.8		µg/l	5.00	50.0		58	40-140		
Bis(2-chloroethyl)ether	30.0		µg/l	5.00	50.0		60	40-140		
Bis(2-chloroisopropyl)ether	31.0		µg/l	5.00	50.0		62	40-140		
Bis(2-ethylhexyl)phthalate	40.8		µg/l	5.00	50.0		82	40-140		
4-Bromophenyl phenyl ether	32.6		µg/l	5.00	50.0		65	40-140		
Butyl benzyl phthalate	38.1		µg/l	5.00	50.0		76	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813343 - SW846 3510C										
LCS (1813343-BS1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
Carbazole	73.0	QC2	µg/l	5.00	50.0		146	40-140		
4-Chloro-3-methylphenol	36.3		µg/l	5.00	50.0		73	30-130		
4-Chloroaniline	38.8		µg/l	5.00	50.0		78	40-140		
2-Chloronaphthalene	39.0		µg/l	5.00	50.0		78	40-140		
2-Chlorophenol	30.5		µg/l	5.00	50.0		61	30-130		
4-Chlorophenyl phenyl ether	36.2		µg/l	5.00	50.0		72	40-140		
Chrysene	39.8		µg/l	5.00	50.0		80	40-140		
Dibenzo (a,h) anthracene	39.7		µg/l	5.00	50.0		79	40-140		
Dibenzofuran	37.7		µg/l	5.00	50.0		75	40-140		
1,2-Dichlorobenzene	34.1		µg/l	5.00	50.0		68	40-140		
1,3-Dichlorobenzene	32.7		µg/l	5.00	50.0		65	40-140		
1,4-Dichlorobenzene	33.4		µg/l	5.00	50.0		67	40-140		
3,3'-Dichlorobenzidine	54.7		µg/l	5.00	50.0		109	40-140		
2,4-Dichlorophenol	31.1		µg/l	5.00	50.0		62	30-130		
Diethyl phthalate	38.2		µg/l	5.00	50.0		76	40-140		
Dimethyl phthalate	36.6		µg/l	5.00	50.0		73	40-140		
2,4-Dimethylphenol	31.9		µg/l	5.00	50.0		64	30-130		
Di-n-butyl phthalate	37.2		µg/l	5.00	50.0		74	40-140		
4,6-Dinitro-2-methylphenol	35.6		µg/l	5.00	50.0		71	30-130		
2,4-Dinitrophenol	24.7		µg/l	5.00	50.0		49	30-130		
2,4-Dinitrotoluene	43.9		µg/l	5.00	50.0		88	40-140		
2,6-Dinitrotoluene	43.4		µg/l	5.00	50.0		87	40-140		
Di-n-octyl phthalate	40.5		µg/l	5.00	50.0		81	40-140		
Fluoranthene	35.0		µg/l	5.00	50.0		70	40-140		
Fluorene	34.5		µg/l	5.00	50.0		69	40-140		
Hexachlorobenzene	39.6		µg/l	5.00	50.0		79	40-140		
Hexachlorobutadiene	31.4		µg/l	5.00	50.0		63	40-140		
Hexachlorocyclopentadiene	40.6		µg/l	5.00	50.0		81	40-140		
Hexachloroethane	37.0		µg/l	5.00	50.0		74	40-140		
Indeno (1,2,3-cd) pyrene	37.8		µg/l	5.00	50.0		76	40-140		
Isophorone	31.0		µg/l	5.00	50.0		62	40-140		
2-Methylnaphthalene	35.2		µg/l	5.00	50.0		70	40-140		
2-Methylphenol	32.4		µg/l	5.00	50.0		65	30-130		
3 & 4-Methylphenol	31.2		µg/l	10.0	50.0		62	30-130		
Naphthalene	31.1		µg/l	5.00	50.0		62	40-140		
2-Nitroaniline	35.6		µg/l	5.00	50.0		71	40-140		
3-Nitroaniline	61.2		µg/l	5.00	50.0		122	40-140		
4-Nitroaniline	49.0		µg/l	5.00	50.0		98	40-140		
Nitrobenzene	38.8		µg/l	5.00	50.0		78	40-140		
2-Nitrophenol	30.8		µg/l	5.00	50.0		62	30-130		
4-Nitrophenol	19.9	J	µg/l	20.0	50.0		40	30-130		
N-Nitrosodimethylamine	26.9		µg/l	5.00	50.0		54	40-140		
N-Nitrosodi-n-propylamine	38.5		µg/l	5.00	50.0		77	40-140		
N-Nitrosodiphenylamine	40.7		µg/l	5.00	50.0		81	40-140		
Pentachlorophenol	18.9	J	µg/l	20.0	50.0		38	30-130		
Phenanthrene	35.0		µg/l	5.00	50.0		70	40-140		
Phenol	19.0		µg/l	5.00	50.0		38	30-130		
Pyrene	36.3		µg/l	5.00	50.0		73	40-140		
Pyridine	26.2		µg/l	5.00	50.0		52	40-140		
1,2,4-Trichlorobenzene	33.5		µg/l	5.00	50.0		67	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813343 - SW846 3510C										
LCS (1813343-BS1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
1-Methylnaphthalene	30.7		µg/l	5.00	50.0		61	40-140		
2,4,5-Trichlorophenol	35.4		µg/l	5.00	50.0		71	30-130		
2,4,6-Trichlorophenol	32.0		µg/l	5.00	50.0		64	30-130		
Pentachloronitrobenzene	39.2		µg/l	5.00	50.0		78	40-140		
1,2,4,5-Tetrachlorobenzene	32.1		µg/l	5.00	50.0		64	40-140		
Surrogate: 2-Fluorobiphenyl	35.7		µg/l		50.0		71	30-130		
Surrogate: 2-Fluorophenol	26.2		µg/l		50.0		52	15-110		
Surrogate: Nitrobenzene-d5	36.2		µg/l		50.0		72	30-130		
Surrogate: Phenol-d5	19.9		µg/l		50.0		40	15-110		
Surrogate: Terphenyl-d14	43.2		µg/l		50.0		86	30-130		
Surrogate: 2,4,6-Tribromophenol	37.7		µg/l		50.0		75	15-110		
LCS Dup (1813343-BSD1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
Acenaphthene	35.4		µg/l	5.00	50.0		71	40-140	0.08	20
Acenaphthylene	37.1		µg/l	5.00	50.0		74	40-140	2	20
Aniline	30.9		µg/l	5.00	50.0		62	40-140	4	20
Anthracene	33.6		µg/l	5.00	50.0		67	40-140	3	20
Azobenzene/Diphenyldiazene	36.2		µg/l	5.00	50.0		72	40-140	3	20
Benzidine	62.8		µg/l	10.0	50.0		126	40-140	7	20
Benzo (a) anthracene	35.2		µg/l	5.00	50.0		70	40-140	4	20
Benzo (a) pyrene	36.2		µg/l	5.00	50.0		72	40-140	2	20
Benzo (b) fluoranthene	37.1		µg/l	5.00	50.0		74	40-140	5	20
Benzo (g,h,i) perylene	36.2		µg/l	5.00	50.0		72	40-140	4	20
Benzo (k) fluoranthene	35.6		µg/l	5.00	50.0		71	40-140	0.06	20
Benzoic acid	20.4		µg/l	5.00	50.0		41	30-130	1	20
Benzyl alcohol	31.1		µg/l	5.00	50.0		62	40-140	0.5	20
Bis(2-chloroethoxy)methane	26.8		µg/l	5.00	50.0		54	40-140	7	20
Bis(2-chloroethyl)ether	30.2		µg/l	5.00	50.0		60	40-140	0.5	20
Bis(2-chloroisopropyl)ether	31.1		µg/l	5.00	50.0		62	40-140	0.4	20
Bis(2-ethylhexyl)phthalate	38.8		µg/l	5.00	50.0		78	40-140	5	20
4-Bromophenyl phenyl ether	31.7		µg/l	5.00	50.0		63	40-140	3	20
Butyl benzyl phthalate	36.6		µg/l	5.00	50.0		73	40-140	4	20
Carbazole	71.5	QC2	µg/l	5.00	50.0		143	40-140	2	20
4-Chloro-3-methylphenol	34.0		µg/l	5.00	50.0		68	30-130	7	20
4-Chloroaniline	36.8		µg/l	5.00	50.0		74	40-140	5	20
2-Chloronaphthalene	37.5		µg/l	5.00	50.0		75	40-140	4	20
2-Chlorophenol	30.6		µg/l	5.00	50.0		61	30-130	0.2	20
4-Chlorophenyl phenyl ether	36.6		µg/l	5.00	50.0		73	40-140	0.9	20
Chrysene	39.0		µg/l	5.00	50.0		78	40-140	2	20
Dibenzo (a,h) anthracene	38.3		µg/l	5.00	50.0		77	40-140	4	20
Dibenzofuran	37.1		µg/l	5.00	50.0		74	40-140	2	20
1,2-Dichlorobenzene	32.6		µg/l	5.00	50.0		65	40-140	4	20
1,3-Dichlorobenzene	31.3		µg/l	5.00	50.0		63	40-140	4	20
1,4-Dichlorobenzene	33.1		µg/l	5.00	50.0		66	40-140	0.8	20
3,3'-Dichlorobenzidine	53.3		µg/l	5.00	50.0		107	40-140	3	20
2,4-Dichlorophenol	30.0		µg/l	5.00	50.0		60	30-130	3	20
Diethyl phthalate	39.0		µg/l	5.00	50.0		78	40-140	2	20
Dimethyl phthalate	37.3		µg/l	5.00	50.0		75	40-140	2	20
2,4-Dimethylphenol	29.4		µg/l	5.00	50.0		59	30-130	8	20
Di-n-butyl phthalate	36.2		µg/l	5.00	50.0		72	40-140	3	20
4,6-Dinitro-2-methylphenol	34.2		µg/l	5.00	50.0		68	30-130	4	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813343 - SW846 3510C										
LCS Dup (1813343-BSD1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
2,4-Dinitrophenol	24.3		µg/l	5.00	50.0		49	30-130	2	20
2,4-Dinitrotoluene	43.2		µg/l	5.00	50.0		86	40-140	2	20
2,6-Dinitrotoluene	44.5		µg/l	5.00	50.0		89	40-140	2	20
Di-n-octyl phthalate	40.0		µg/l	5.00	50.0		80	40-140	1	20
Fluoranthene	34.3		µg/l	5.00	50.0		69	40-140	2	20
Fluorene	35.1		µg/l	5.00	50.0		70	40-140	2	20
Hexachlorobenzene	38.1		µg/l	5.00	50.0		76	40-140	4	20
Hexachlorobutadiene	28.9		µg/l	5.00	50.0		58	40-140	8	20
Hexachlorocyclopentadiene	37.0		µg/l	5.00	50.0		74	40-140	9	20
Hexachloroethane	34.8		µg/l	5.00	50.0		70	40-140	6	20
Indeno (1,2,3-cd) pyrene	36.2		µg/l	5.00	50.0		72	40-140	4	20
Isophorone	30.4		µg/l	5.00	50.0		61	40-140	2	20
2-Methylnaphthalene	32.9		µg/l	5.00	50.0		66	40-140	7	20
2-Methylphenol	31.5		µg/l	5.00	50.0		63	30-130	3	20
3 & 4-Methylphenol	31.5		µg/l	10.0	50.0		63	30-130	0.8	20
Naphthalene	29.9		µg/l	5.00	50.0		60	40-140	4	20
2-Nitroaniline	34.4		µg/l	5.00	50.0		69	40-140	3	20
3-Nitroaniline	62.9		µg/l	5.00	50.0		126	40-140	3	20
4-Nitroaniline	51.2		µg/l	5.00	50.0		102	40-140	4	20
Nitrobenzene	38.6		µg/l	5.00	50.0		77	40-140	0.4	20
2-Nitrophenol	30.5		µg/l	5.00	50.0		61	30-130	0.8	20
4-Nitrophenol	20.0		µg/l	20.0	50.0		40	30-130	0.7	20
N-Nitrosodimethylamine	26.0		µg/l	5.00	50.0		52	40-140	3	20
N-Nitrosodi-n-propylamine	35.6		µg/l	5.00	50.0		71	40-140	8	20
N-Nitrosodiphenylamine	39.5		µg/l	5.00	50.0		79	40-140	3	20
Pentachlorophenol	19.3	J	µg/l	20.0	50.0		39	30-130	2	20
Phenanthrene	34.5		µg/l	5.00	50.0		69	40-140	2	20
Phenol	19.1		µg/l	5.00	50.0		38	30-130	0.5	20
Pyrene	34.7		µg/l	5.00	50.0		69	40-140	4	20
Pyridine	24.6		µg/l	5.00	50.0		49	40-140	6	20
1,2,4-Trichlorobenzene	32.4		µg/l	5.00	50.0		65	40-140	3	20
1-Methylnaphthalene	31.5		µg/l	5.00	50.0		63	40-140	3	20
2,4,5-Trichlorophenol	34.8		µg/l	5.00	50.0		70	30-130	2	20
2,4,6-Trichlorophenol	31.2		µg/l	5.00	50.0		62	30-130	3	20
Pentachloronitrobenzene	38.7		µg/l	5.00	50.0		77	40-140	1	20
1,2,4,5-Tetrachlorobenzene	30.9		µg/l	5.00	50.0		62	40-140	4	20
Surrogate: 2-Fluorobiphenyl	35.0		µg/l		50.0		70	30-130		
Surrogate: 2-Fluorophenol	24.9		µg/l		50.0		50	15-110		
Surrogate: Nitrobenzene-d5	35.6		µg/l		50.0		71	30-130		
Surrogate: Phenol-d5	20.1		µg/l		50.0		40	15-110		
Surrogate: Terphenyl-dl4	40.8		µg/l		50.0		82	30-130		
Surrogate: 2,4,6-Tribromophenol	34.6		µg/l		50.0		69	15-110		
Batch 1813345 - SW846 3546										
Blank (1813345-BLK1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
Acenaphthene	< 65.8	U	µg/kg wet	65.8						
Acenaphthylene	< 65.8	U	µg/kg wet	65.8						
Aniline	< 326	U	µg/kg wet	326						
Anthracene	< 65.8	U	µg/kg wet	65.8						
Azobenzene/Diphenyldiazene	< 326	U	µg/kg wet	326						
Benzidine	< 652	U	µg/kg wet	652						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813345 - SW846 3546										
Blank (1813345-BLK1)	<u>Prepared: 05-Oct-18 Analyzed: 08-Oct-18</u>									
Benzo (a) anthracene	< 65.8	U	µg/kg wet	65.8						
Benzo (a) pyrene	< 65.8	U	µg/kg wet	65.8						
Benzo (b) fluoranthene	< 65.8	U	µg/kg wet	65.8						
Benzo (g,h,i) perylene	< 65.8	U	µg/kg wet	65.8						
Benzo (k) fluoranthene	< 65.8	U	µg/kg wet	65.8						
Benzoic acid	< 326	U	µg/kg wet	326						
Benzyl alcohol	< 326	U	µg/kg wet	326						
Bis(2-chloroethoxy)methane	< 326	U	µg/kg wet	326						
Bis(2-chloroethyl)ether	< 165	U	µg/kg wet	165						
Bis(2-chloroisopropyl)ether	< 165	U	µg/kg wet	165						
Bis(2-ethylhexyl)phthalate	< 165	U	µg/kg wet	165						
4-Bromophenyl phenyl ether	< 326	U	µg/kg wet	326						
Butyl benzyl phthalate	< 326	U	µg/kg wet	326						
Carbazole	< 165	U	µg/kg wet	165						
4-Chloro-3-methylphenol	< 326	U	µg/kg wet	326						
4-Chloroaniline	< 165	U	µg/kg wet	165						
2-Chloronaphthalene	< 326	U	µg/kg wet	326						
2-Chlorophenol	< 165	U	µg/kg wet	165						
4-Chlorophenyl phenyl ether	< 326	U	µg/kg wet	326						
Chrysene	< 65.8	U	µg/kg wet	65.8						
Dibenzo (a,h) anthracene	< 65.8	U	µg/kg wet	65.8						
Dibenzofuran	< 165	U	µg/kg wet	165						
1,2-Dichlorobenzene	< 326	U	µg/kg wet	326						
1,3-Dichlorobenzene	< 326	U	µg/kg wet	326						
1,4-Dichlorobenzene	< 326	U	µg/kg wet	326						
3,3'-Dichlorobenzidine	< 326	U	µg/kg wet	326						
2,4-Dichlorophenol	< 165	U	µg/kg wet	165						
Diethyl phthalate	< 326	U	µg/kg wet	326						
Dimethyl phthalate	< 326	U	µg/kg wet	326						
2,4-Dimethylphenol	< 326	U	µg/kg wet	326						
Di-n-butyl phthalate	< 326	U	µg/kg wet	326						
4,6-Dinitro-2-methylphenol	< 326	U	µg/kg wet	326						
2,4-Dinitrophenol	< 326	U	µg/kg wet	326						
2,4-Dinitrotoluene	< 165	U	µg/kg wet	165						
2,6-Dinitrotoluene	< 165	U	µg/kg wet	165						
Di-n-octyl phthalate	< 326	U	µg/kg wet	326						
Fluoranthene	< 65.8	U	µg/kg wet	65.8						
Fluorene	< 65.8	U	µg/kg wet	65.8						
Hexachlorobenzene	< 165	U	µg/kg wet	165						
Hexachlorobutadiene	< 165	U	µg/kg wet	165						
Hexachlorocyclopentadiene	< 165	U	µg/kg wet	165						
Hexachloroethane	< 165	U	µg/kg wet	165						
Indeno (1,2,3-cd) pyrene	< 65.8	U	µg/kg wet	65.8						
Isophorone	< 165	U	µg/kg wet	165						
2-Methylnaphthalene	< 65.8	U	µg/kg wet	65.8						
2-Methylphenol	< 326	U	µg/kg wet	326						
3 & 4-Methylphenol	< 326	U	µg/kg wet	326						
Naphthalene	< 65.8	U	µg/kg wet	65.8						
2-Nitroaniline	< 326	U	µg/kg wet	326						
3-Nitroaniline	< 326	U	µg/kg wet	326						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813345 - SW846 3546										
<u>Blank (1813345-BLK1)</u>					<u>Prepared: 05-Oct-18 Analyzed: 08-Oct-18</u>					
4-Nitroaniline	< 165	U	µg/kg wet	165						
Nitrobenzene	< 165	U	µg/kg wet	165						
2-Nitrophenol	< 165	U	µg/kg wet	165						
4-Nitrophenol	< 1300	U	µg/kg wet	1300						
N-Nitrosodimethylamine	< 165	U	µg/kg wet	165						
N-Nitrosodi-n-propylamine	< 165	U	µg/kg wet	165						
N-Nitrosodiphenylamine	< 326	U	µg/kg wet	326						
Pentachlorophenol	< 326	U	µg/kg wet	326						
Phenanthrene	< 65.8	U	µg/kg wet	65.8						
Phenol	< 326	U	µg/kg wet	326						
Pyrene	< 65.8	U	µg/kg wet	65.8						
Pyridine	< 326	U	µg/kg wet	326						
1,2,4-Trichlorobenzene	< 326	U	µg/kg wet	326						
1-Methylnaphthalene	< 65.8	U	µg/kg wet	65.8						
2,4,5-Trichlorophenol	< 326	U	µg/kg wet	326						
2,4,6-Trichlorophenol	< 165	U	µg/kg wet	165						
Pentachloronitrobenzene	< 326	U	µg/kg wet	326						
1,2,4,5-Tetrachlorobenzene	< 326	U	µg/kg wet	326						
Surrogate: 2-Fluorobiphenyl	1100		µg/kg wet		1650		67	30-130		
Surrogate: 2-Fluorophenol	1100		µg/kg wet		1650		67	30-130		
Surrogate: Nitrobenzene-d5	1010		µg/kg wet		1650		61	30-130		
Surrogate: Phenol-d5	1060		µg/kg wet		1650		64	30-130		
Surrogate: Terphenyl-d14	1740		µg/kg wet		1650		106	30-130		
Surrogate: 2,4,6-Tribromophenol	740		µg/kg wet		1650		45	30-130		
<u>LCS (1813345-BS1)</u>					<u>Prepared: 05-Oct-18 Analyzed: 08-Oct-18</u>					
Acenaphthene	1290		µg/kg wet	66.7	1670		77	40-140		
Acenaphthylene	1270		µg/kg wet	66.7	1670		76	40-140		
Aniline	782		µg/kg wet	330	1670		47	40-140		
Anthracene	1310		µg/kg wet	66.7	1670		78	40-140		
Azobenzene/Diphenyldiazene	1080		µg/kg wet	330	1670		65	40-140		
Benzidine	2300		µg/kg wet	660	1670		138	40-140		
Benzo (a) anthracene	1800		µg/kg wet	66.7	1670		108	40-140		
Benzo (a) pyrene	2010		µg/kg wet	66.7	1670		120	40-140		
Benzo (b) fluoranthene	1830		µg/kg wet	66.7	1670		110	40-140		
Benzo (g,h,i) perylene	1680		µg/kg wet	66.7	1670		101	40-140		
Benzo (k) fluoranthene	2140		µg/kg wet	66.7	1670		128	40-140		
Benzoic acid	314	QC6, J	µg/kg wet	330	1670		19	30-130		
Benzyl alcohol	1150		µg/kg wet	330	1670		69	40-140		
Bis(2-chloroethoxy)methane	995		µg/kg wet	330	1670		60	40-140		
Bis(2-chloroethyl)ether	1210		µg/kg wet	167	1670		72	40-140		
Bis(2-chloroisopropyl)ether	841		µg/kg wet	167	1670		50	40-140		
Bis(2-ethylhexyl)phthalate	1490		µg/kg wet	167	1670		89	40-140		
4-Bromophenyl phenyl ether	1280		µg/kg wet	330	1670		77	40-140		
Butyl benzyl phthalate	1560		µg/kg wet	330	1670		94	40-140		
Carbazole	1950		µg/kg wet	167	1670		117	40-140		
4-Chloro-3-methylphenol	1390		µg/kg wet	330	1670		84	30-130		
4-Chloroaniline	951		µg/kg wet	167	1670		57	40-140		
2-Chloronaphthalene	1560		µg/kg wet	330	1670		93	40-140		
2-Chlorophenol	1170		µg/kg wet	167	1670		70	30-130		
4-Chlorophenyl phenyl ether	1570		µg/kg wet	330	1670		94	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813345 - SW846 3546										
LCS (1813345-BS1)	Prepared: 05-Oct-18 Analyzed: 08-Oct-18									
Chrysene	1930		µg/kg wet	66.7	1670		116	40-140		
Dibenzo (a,h) anthracene	1850		µg/kg wet	66.7	1670		111	40-140		
Dibenzofuran	1500		µg/kg wet	167	1670		90	40-140		
1,2-Dichlorobenzene	1370		µg/kg wet	330	1670		82	40-140		
1,3-Dichlorobenzene	1280		µg/kg wet	330	1670		77	40-140		
1,4-Dichlorobenzene	1380		µg/kg wet	330	1670		83	40-140		
3,3'-Dichlorobenzidine	2170		µg/kg wet	330	1670		130	40-140		
2,4-Dichlorophenol	1190		µg/kg wet	167	1670		71	30-130		
Diethyl phthalate	1400		µg/kg wet	330	1670		84	40-140		
Dimethyl phthalate	1410		µg/kg wet	330	1670		85	40-140		
2,4-Dimethylphenol	1170		µg/kg wet	330	1670		70	30-130		
Di-n-butyl phthalate	1290		µg/kg wet	330	1670		77	40-140		
4,6-Dinitro-2-methylphenol	1220		µg/kg wet	330	1670		73	30-130		
2,4-Dinitrophenol	880		µg/kg wet	330	1670		53	30-130		
2,4-Dinitrotoluene	1660		µg/kg wet	167	1670		100	40-140		
2,6-Dinitrotoluene	1560		µg/kg wet	167	1670		94	40-140		
Di-n-octyl phthalate	1630		µg/kg wet	330	1670		98	40-140		
Fluoranthene	1330		µg/kg wet	66.7	1670		80	40-140		
Fluorene	1320		µg/kg wet	66.7	1670		79	40-140		
Hexachlorobenzene	1550		µg/kg wet	167	1670		93	40-140		
Hexachlorobutadiene	1590		µg/kg wet	167	1670		95	40-140		
Hexachlorocyclopentadiene	1510		µg/kg wet	167	1670		90	40-140		
Hexachloroethane	1290		µg/kg wet	167	1670		77	40-140		
Indeno (1,2,3-cd) pyrene	1690		µg/kg wet	66.7	1670		101	40-140		
Isophorone	1130		µg/kg wet	167	1670		68	40-140		
2-Methylnaphthalene	1360		µg/kg wet	66.7	1670		81	40-140		
2-Methylphenol	1060		µg/kg wet	330	1670		64	30-130		
3 & 4-Methylphenol	1210		µg/kg wet	330	1670		72	30-130		
Naphthalene	1230		µg/kg wet	66.7	1670		74	40-140		
2-Nitroaniline	1250		µg/kg wet	330	1670		75	40-140		
3-Nitroaniline	1590		µg/kg wet	330	1670		95	40-140		
4-Nitroaniline	1320		µg/kg wet	167	1670		79	40-140		
Nitrobenzene	1450		µg/kg wet	167	1670		87	40-140		
2-Nitrophenol	1150		µg/kg wet	167	1670		69	30-130		
4-Nitrophenol	858	J	µg/kg wet	1320	1670		51	30-130		
N-Nitrosodimethylamine	1040		µg/kg wet	167	1670		63	40-140		
N-Nitrosodi-n-propylamine	1250		µg/kg wet	167	1670		75	40-140		
N-Nitrosodiphenylamine	1270		µg/kg wet	330	1670		76	40-140		
Pentachlorophenol	695		µg/kg wet	330	1670		42	30-130		
Phenanthrene	1260		µg/kg wet	66.7	1670		75	40-140		
Phenol	1180		µg/kg wet	330	1670		71	30-130		
Pyrene	1640		µg/kg wet	66.7	1670		99	40-140		
Pyridine	1030		µg/kg wet	330	1670		62	40-140		
1,2,4-Trichlorobenzene	1460		µg/kg wet	330	1670		87	40-140		
1-Methylnaphthalene	1110		µg/kg wet	66.7	1670		67	40-140		
2,4,5-Trichlorophenol	1260		µg/kg wet	330	1670		76	30-130		
2,4,6-Trichlorophenol	1180		µg/kg wet	167	1670		71	30-130		
Pentachloronitrobenzene	1520		µg/kg wet	330	1670		91	40-140		
1,2,4,5-Tetrachlorobenzene	1300		µg/kg wet	330	1670		78	40-140		
Surrogate: 2-Fluorobiphenyl	1370		µg/kg wet		1670		82	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813345 - SW846 3546										
LCS (1813345-BS1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
Surrogate: 2-Fluorophenol	1240		µg/kg wet		1670		74	30-130		
Surrogate: Nitrobenzene-d5	1260		µg/kg wet		1670		75	30-130		
Surrogate: Phenol-d5	1310		µg/kg wet		1670		79	30-130		
Surrogate: Terphenyl-d14	2140		µg/kg wet		1670		128	30-130		
Surrogate: 2,4,6-Tribromophenol	1150		µg/kg wet		1670		69	30-130		
LCS Dup (1813345-BSD1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
Acenaphthene	1420		µg/kg wet	65.9	1650		86	40-140	10	30
Acenaphthylene	1360		µg/kg wet	65.9	1650		83	40-140	7	30
Aniline	933		µg/kg wet	326	1650		57	40-140	18	30
Anthracene	1400		µg/kg wet	65.9	1650		85	40-140	7	30
Azobenzene/Diphenyldiazene	1260		µg/kg wet	326	1650		77	40-140	16	30
Benzidine	2310		µg/kg wet	652	1650		140	40-140	0.4	30
Benzo (a) anthracene	1950		µg/kg wet	65.9	1650		119	40-140	8	30
Benzo (a) pyrene	2180		µg/kg wet	65.9	1650		132	40-140	8	30
Benzo (b) fluoranthene	2180		µg/kg wet	65.9	1650		133	40-140	18	30
Benzo (g,h,i) perylene	2030		µg/kg wet	65.9	1650		123	40-140	19	30
Benzo (k) fluoranthene	2040		µg/kg wet	65.9	1650		124	40-140	5	30
Benzoic acid	344	QC6	µg/kg wet	326	1650		21	30-130	9	30
Benzyl alcohol	1310		µg/kg wet	326	1650		80	40-140	13	30
Bis(2-chloroethoxy)methane	1070		µg/kg wet	326	1650		65	40-140	7	30
Bis(2-chloroethyl)ether	1380		µg/kg wet	165	1650		84	40-140	13	30
Bis(2-chloroisopropyl)ether	982		µg/kg wet	165	1650		60	40-140	15	30
Bis(2-ethylhexyl)phthalate	1730		µg/kg wet	165	1650		105	40-140	15	30
4-Bromophenyl phenyl ether	1500		µg/kg wet	326	1650		91	40-140	16	30
Butyl benzyl phthalate	1550		µg/kg wet	326	1650		94	40-140	0.9	30
Carbazole	1990		µg/kg wet	165	1650		121	40-140	2	30
4-Chloro-3-methylphenol	1470		µg/kg wet	326	1650		90	30-130	6	30
4-Chloroaniline	1030		µg/kg wet	165	1650		63	40-140	8	30
2-Chloronaphthalene	1660		µg/kg wet	326	1650		101	40-140	6	30
2-Chlorophenol	1300		µg/kg wet	165	1650		79	30-130	11	30
4-Chlorophenyl phenyl ether	1710		µg/kg wet	326	1650		104	40-140	8	30
Chrysene	2050		µg/kg wet	65.9	1650		124	40-140	6	30
Dibenzo (a,h) anthracene	2330	QC2	µg/kg wet	65.9	1650		142	40-140	23	30
Dibenzofuran	1710		µg/kg wet	165	1650		104	40-140	13	30
1,2-Dichlorobenzene	1510		µg/kg wet	326	1650		92	40-140	10	30
1,3-Dichlorobenzene	1400		µg/kg wet	326	1650		85	40-140	9	30
1,4-Dichlorobenzene	1490		µg/kg wet	326	1650		91	40-140	8	30
3,3'-Dichlorobenzidine	2290		µg/kg wet	326	1650		139	40-140	6	30
2,4-Dichlorophenol	1290		µg/kg wet	165	1650		78	30-130	8	30
Diethyl phthalate	1530		µg/kg wet	326	1650		93	40-140	8	30
Dimethyl phthalate	1500		µg/kg wet	326	1650		91	40-140	6	30
2,4-Dimethylphenol	1240		µg/kg wet	326	1650		75	30-130	5	30
Di-n-butyl phthalate	1340		µg/kg wet	326	1650		82	40-140	4	30
4,6-Dinitro-2-methylphenol	1420		µg/kg wet	326	1650		86	30-130	15	30
2,4-Dinitrophenol	1030		µg/kg wet	326	1650		63	30-130	16	30
2,4-Dinitrotoluene	1900		µg/kg wet	165	1650		115	40-140	14	30
2,6-Dinitrotoluene	1650		µg/kg wet	165	1650		100	40-140	5	30
Di-n-octyl phthalate	1840		µg/kg wet	326	1650		112	40-140	12	30
Fluoranthene	1490		µg/kg wet	65.9	1650		90	40-140	11	30
Fluorene	1450		µg/kg wet	65.9	1650		88	40-140	9	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813345 - SW846 3546										
LCS Dup (1813345-BSD1)					Prepared: 05-Oct-18 Analyzed: 08-Oct-18					
Hexachlorobenzene	1590		µg/kg wet	165	1650		96	40-140	2	30
Hexachlorobutadiene	1690		µg/kg wet	165	1650		103	40-140	6	30
Hexachlorocyclopentadiene	1750		µg/kg wet	165	1650		106	40-140	15	30
Hexachloroethane	1440		µg/kg wet	165	1650		88	40-140	11	30
Indeno (1,2,3-cd) pyrene	2120		µg/kg wet	65.9	1650		129	40-140	23	30
Isophorone	1250		µg/kg wet	165	1650		76	40-140	10	30
2-Methylnaphthalene	1470		µg/kg wet	65.9	1650		89	40-140	8	30
2-Methylphenol	1260		µg/kg wet	326	1650		76	30-130	17	30
3 & 4-Methylphenol	1450		µg/kg wet	326	1650		88	30-130	19	30
Naphthalene	1360		µg/kg wet	65.9	1650		83	40-140	10	30
2-Nitroaniline	1290		µg/kg wet	326	1650		78	40-140	3	30
3-Nitroaniline	1740		µg/kg wet	326	1650		106	40-140	9	30
4-Nitroaniline	1430		µg/kg wet	165	1650		87	40-140	8	30
Nitrobenzene	1550		µg/kg wet	165	1650		94	40-140	7	30
2-Nitrophenol	1300		µg/kg wet	165	1650		79	30-130	13	30
4-Nitrophenol	985	J	µg/kg wet	1300	1650		60	30-130	14	30
N-Nitrosodimethylamine	1140		µg/kg wet	165	1650		69	40-140	9	30
N-Nitrosodi-n-propylamine	1390		µg/kg wet	165	1650		84	40-140	11	30
N-Nitrosodiphenylamine	1480		µg/kg wet	326	1650		90	40-140	15	30
Pentachlorophenol	707		µg/kg wet	326	1650		43	30-130	2	30
Phenanthrene	1340		µg/kg wet	65.9	1650		81	40-140	6	30
Phenol	1310		µg/kg wet	326	1650		80	30-130	11	30
Pyrene	1660		µg/kg wet	65.9	1650		101	40-140	1	30
Pyridine	1130		µg/kg wet	326	1650		69	40-140	9	30
1,2,4-Trichlorobenzene	1630		µg/kg wet	326	1650		99	40-140	11	30
1-Methylnaphthalene	1230		µg/kg wet	65.9	1650		75	40-140	10	30
2,4,5-Trichlorophenol	1330		µg/kg wet	326	1650		81	30-130	5	30
2,4,6-Trichlorophenol	1340		µg/kg wet	165	1650		81	30-130	13	30
Pentachloronitrobenzene	1680		µg/kg wet	326	1650		102	40-140	10	30
1,2,4,5-Tetrachlorobenzene	1500		µg/kg wet	326	1650		91	40-140	14	30
Surrogate: 2-Fluorobiphenyl	1510		µg/kg wet		1650		92	30-130		
Surrogate: 2-Fluorophenol	1330		µg/kg wet		1650		81	30-130		
Surrogate: Nitrobenzene-d5	1370		µg/kg wet		1650		83	30-130		
Surrogate: Phenol-d5	1500		µg/kg wet		1650		91	30-130		
Surrogate: Terphenyl-dl4	2150	SBN	µg/kg wet		1650		131	30-130		
Surrogate: 2,4,6-Tribromophenol	1300		µg/kg wet		1650		79	30-130		

Batch 1813682 - SW846 3546

Blank (1813682-BLK1)

Prepared: 15-Oct-18 Analyzed: 16-Oct-18

Acenaphthene	< 65.8	U	µg/kg wet	65.8
Acenaphthylene	< 65.8	U	µg/kg wet	65.8
Aniline	< 325	U	µg/kg wet	325
Anthracene	< 65.8	U	µg/kg wet	65.8
Azobenzene/Diphenyldiazene	< 325	U	µg/kg wet	325
Benzidine	< 651	U	µg/kg wet	651
Benzo (a) anthracene	< 65.8	U	µg/kg wet	65.8
Benzo (a) pyrene	< 65.8	U	µg/kg wet	65.8
Benzo (b) fluoranthene	< 65.8	U	µg/kg wet	65.8
Benzo (g,h,i) perylene	< 65.8	U	µg/kg wet	65.8
Benzo (k) fluoranthene	< 65.8	U	µg/kg wet	65.8
Benzoic acid	< 325	U	µg/kg wet	325

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813682 - SW846 3546										
Blank (1813682-BLK1)	Prepared: 15-Oct-18 Analyzed: 16-Oct-18									
Benzyl alcohol	< 325	U	µg/kg wet	325						
Bis(2-chloroethoxy)methane	< 325	U	µg/kg wet	325						
Bis(2-chloroethyl)ether	< 165	U	µg/kg wet	165						
Bis(2-chloroisopropyl)ether	< 165	U	µg/kg wet	165						
Bis(2-ethylhexyl)phthalate	< 165	U	µg/kg wet	165						
4-Bromophenyl phenyl ether	< 325	U	µg/kg wet	325						
Butyl benzyl phthalate	< 325	U	µg/kg wet	325						
Carbazole	< 165	U	µg/kg wet	165						
4-Chloro-3-methylphenol	< 325	U	µg/kg wet	325						
4-Chloroaniline	< 165	U	µg/kg wet	165						
2-Chloronaphthalene	< 325	U	µg/kg wet	325						
2-Chlorophenol	< 165	U	µg/kg wet	165						
4-Chlorophenyl phenyl ether	< 325	U	µg/kg wet	325						
Chrysene	< 65.8	U	µg/kg wet	65.8						
Dibenzo (a,h) anthracene	< 65.8	U	µg/kg wet	65.8						
Dibenzofuran	< 165	U	µg/kg wet	165						
1,2-Dichlorobenzene	< 325	U	µg/kg wet	325						
1,3-Dichlorobenzene	< 325	U	µg/kg wet	325						
1,4-Dichlorobenzene	< 325	U	µg/kg wet	325						
3,3'-Dichlorobenzidine	< 325	U	µg/kg wet	325						
2,4-Dichlorophenol	< 165	U	µg/kg wet	165						
Diethyl phthalate	< 325	U	µg/kg wet	325						
Dimethyl phthalate	< 325	U	µg/kg wet	325						
2,4-Dimethylphenol	< 325	U	µg/kg wet	325						
Di-n-butyl phthalate	< 325	U	µg/kg wet	325						
4,6-Dinitro-2-methylphenol	< 325	U	µg/kg wet	325						
2,4-Dinitrophenol	< 325	U	µg/kg wet	325						
2,4-Dinitrotoluene	< 165	U	µg/kg wet	165						
2,6-Dinitrotoluene	< 165	U	µg/kg wet	165						
Di-n-octyl phthalate	< 325	U	µg/kg wet	325						
Fluoranthene	< 65.8	U	µg/kg wet	65.8						
Fluorene	< 65.8	U	µg/kg wet	65.8						
Hexachlorobenzene	< 165	U	µg/kg wet	165						
Hexachlorobutadiene	< 165	U	µg/kg wet	165						
Hexachlorocyclopentadiene	< 165	U	µg/kg wet	165						
Hexachloroethane	< 165	U	µg/kg wet	165						
Indeno (1,2,3-cd) pyrene	< 65.8	U	µg/kg wet	65.8						
Isophorone	< 165	U	µg/kg wet	165						
2-Methylnaphthalene	< 65.8	U	µg/kg wet	65.8						
2-Methylphenol	< 325	U	µg/kg wet	325						
3 & 4-Methylphenol	< 325	U	µg/kg wet	325						
Naphthalene	< 65.8	U	µg/kg wet	65.8						
2-Nitroaniline	< 325	U	µg/kg wet	325						
3-Nitroaniline	< 325	U	µg/kg wet	325						
4-Nitroaniline	< 165	U	µg/kg wet	165						
Nitrobenzene	< 165	U	µg/kg wet	165						
2-Nitrophenol	< 165	U	µg/kg wet	165						
4-Nitrophenol	< 1300	U	µg/kg wet	1300						
N-Nitrosodimethylamine	< 165	U	µg/kg wet	165						
N-Nitrosodi-n-propylamine	< 165	U	µg/kg wet	165						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813682 - SW846 3546										
<u>Blank (1813682-BLK1)</u>					<u>Prepared: 15-Oct-18 Analyzed: 16-Oct-18</u>					
N-Nitrosodiphenylamine	< 325	U	µg/kg wet	325						
Pentachlorophenol	< 325	U	µg/kg wet	325						
Phenanthrene	< 65.8	U	µg/kg wet	65.8						
Phenol	< 325	U	µg/kg wet	325						
Pyrene	< 65.8	U	µg/kg wet	65.8						
Pyridine	< 325	U	µg/kg wet	325						
1,2,4-Trichlorobenzene	< 325	U	µg/kg wet	325						
1-Methylnaphthalene	< 65.8	U	µg/kg wet	65.8						
2,4,5-Trichlorophenol	< 325	U	µg/kg wet	325						
2,4,6-Trichlorophenol	< 165	U	µg/kg wet	165						
Pentachloronitrobenzene	< 325	U	µg/kg wet	325						
1,2,4,5-Tetrachlorobenzene	< 325	U	µg/kg wet	325						
<i>Surrogate: 2-Fluorobiphenyl</i>	996		µg/kg wet		1640		61	30-130		
<i>Surrogate: 2-Fluorophenol</i>	1070		µg/kg wet		1640		65	30-130		
<i>Surrogate: Nitrobenzene-d5</i>	1200		µg/kg wet		1640		73	30-130		
<i>Surrogate: Phenol-d5</i>	1090		µg/kg wet		1640		66	30-130		
<i>Surrogate: Terphenyl-dl4</i>	1430		µg/kg wet		1640		87	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>	806		µg/kg wet		1640		49	30-130		
<u>LCS (1813682-BS1)</u>					<u>Prepared: 15-Oct-18 Analyzed: 16-Oct-18</u>					
Acenaphthene	1170		µg/kg wet	66.0	1650		71	40-140		
Acenaphthylene	1220		µg/kg wet	66.0	1650		74	40-140		
Aniline	790		µg/kg wet	327	1650		48	40-140		
Anthracene	1110		µg/kg wet	66.0	1650		67	40-140		
Azobenzene/Diphenyldiazene	1260		µg/kg wet	327	1650		76	40-140		
Benzidine	2760	QC2, E	µg/kg wet	653	1650		167	40-140		
Benzo (a) anthracene	1030		µg/kg wet	66.0	1650		62	40-140		
Benzo (a) pyrene	1030		µg/kg wet	66.0	1650		63	40-140		
Benzo (b) fluoranthene	1020		µg/kg wet	66.0	1650		62	40-140		
Benzo (g,h,i) perylene	1060		µg/kg wet	66.0	1650		64	40-140		
Benzo (k) fluoranthene	1210		µg/kg wet	66.0	1650		73	40-140		
Benzoic acid	235	QC6, J	µg/kg wet	327	1650		14	30-130		
Benzyl alcohol	945		µg/kg wet	327	1650		57	40-140		
Bis(2-chloroethoxy)methane	926		µg/kg wet	327	1650		56	40-140		
Bis(2-chloroethyl)ether	985		µg/kg wet	165	1650		60	40-140		
Bis(2-chloroisopropyl)ether	880		µg/kg wet	165	1650		53	40-140		
Bis(2-ethylhexyl)phthalate	1140		µg/kg wet	165	1650		69	40-140		
4-Bromophenyl phenyl ether	1160		µg/kg wet	327	1650		70	40-140		
Butyl benzyl phthalate	1170		µg/kg wet	327	1650		71	40-140		
Carbazole	2390	QC2	µg/kg wet	165	1650		145	40-140		
4-Chloro-3-methylphenol	1210		µg/kg wet	327	1650		73	30-130		
4-Chloroaniline	1120		µg/kg wet	165	1650		68	40-140		
2-Chloronaphthalene	1420		µg/kg wet	327	1650		86	40-140		
2-Chlorophenol	995		µg/kg wet	165	1650		60	30-130		
4-Chlorophenyl phenyl ether	1220		µg/kg wet	327	1650		74	40-140		
Chrysene	1250		µg/kg wet	66.0	1650		76	40-140		
Dibenzo (a,h) anthracene	1090		µg/kg wet	66.0	1650		66	40-140		
Dibenzofuran	1350		µg/kg wet	165	1650		82	40-140		
1,2-Dichlorobenzene	1140		µg/kg wet	327	1650		69	40-140		
1,3-Dichlorobenzene	1140		µg/kg wet	327	1650		69	40-140		
1,4-Dichlorobenzene	1210		µg/kg wet	327	1650		73	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813682 - SW846 3546										
LCS (1813682-BS1)					Prepared: 15-Oct-18 Analyzed: 16-Oct-18					
3,3'-Dichlorobenzidine	1770		µg/kg wet	327	1650		107	40-140		
2,4-Dichlorophenol	1010		µg/kg wet	165	1650		61	30-130		
Diethyl phthalate	1310		µg/kg wet	327	1650		79	40-140		
Dimethyl phthalate	1200		µg/kg wet	327	1650		73	40-140		
2,4-Dimethylphenol	1020		µg/kg wet	327	1650		62	30-130		
Di-n-butyl phthalate	1110		µg/kg wet	327	1650		67	40-140		
4,6-Dinitro-2-methylphenol	955		µg/kg wet	327	1650		58	30-130		
2,4-Dinitrophenol	464	QC6	µg/kg wet	327	1650		28	30-130		
2,4-Dinitrotoluene	1390		µg/kg wet	165	1650		84	40-140		
2,6-Dinitrotoluene	1330		µg/kg wet	165	1650		81	40-140		
Di-n-octyl phthalate	1240		µg/kg wet	327	1650		75	40-140		
Fluoranthene	1180		µg/kg wet	66.0	1650		72	40-140		
Fluorene	1200		µg/kg wet	66.0	1650		73	40-140		
Hexachlorobenzene	1360		µg/kg wet	165	1650		83	40-140		
Hexachlorobutadiene	1210		µg/kg wet	165	1650		74	40-140		
Hexachlorocyclopentadiene	1680		µg/kg wet	165	1650		102	40-140		
Hexachloroethane	1170		µg/kg wet	165	1650		71	40-140		
Indeno (1,2,3-cd) pyrene	1020		µg/kg wet	66.0	1650		62	40-140		
Isophorone	1070		µg/kg wet	165	1650		65	40-140		
2-Methylnaphthalene	1410		µg/kg wet	66.0	1650		86	40-140		
2-Methylphenol	937		µg/kg wet	327	1650		57	30-130		
3 & 4-Methylphenol	1010		µg/kg wet	327	1650		61	30-130		
Naphthalene	1090		µg/kg wet	66.0	1650		66	40-140		
2-Nitroaniline	1240		µg/kg wet	327	1650		75	40-140		
3-Nitroaniline	1810		µg/kg wet	327	1650		110	40-140		
4-Nitroaniline	1480		µg/kg wet	165	1650		90	40-140		
Nitrobenzene	1320		µg/kg wet	165	1650		80	40-140		
2-Nitrophenol	1030		µg/kg wet	165	1650		62	30-130		
4-Nitrophenol	838	J	µg/kg wet	1310	1650		51	30-130		
N-Nitrosodimethylamine	1160		µg/kg wet	165	1650		70	40-140		
N-Nitrosodi-n-propylamine	1080		µg/kg wet	165	1650		65	40-140		
N-Nitrosodiphenylamine	1350		µg/kg wet	327	1650		82	40-140		
Pentachlorophenol	279	QC6, J	µg/kg wet	327	1650		17	30-130		
Phenanthrene	1190		µg/kg wet	66.0	1650		72	40-140		
Phenol	1060		µg/kg wet	327	1650		65	30-130		
Pyrene	1200		µg/kg wet	66.0	1650		73	40-140		
Pyridine	1060		µg/kg wet	327	1650		64	40-140		
1,2,4-Trichlorobenzene	1170		µg/kg wet	327	1650		71	40-140		
1-Methylnaphthalene	1190		µg/kg wet	66.0	1650		72	40-140		
2,4,5-Trichlorophenol	1240		µg/kg wet	327	1650		75	30-130		
2,4,6-Trichlorophenol	1110		µg/kg wet	165	1650		67	30-130		
Pentachloronitrobenzene	1280		µg/kg wet	327	1650		78	40-140		
1,2,4,5-Tetrachlorobenzene	1210		µg/kg wet	327	1650		73	40-140		
Surrogate: 2-Fluorobiphenyl	1370		µg/kg wet		1650		83	30-130		
Surrogate: 2-Fluorophenol	1110		µg/kg wet		1650		67	30-130		
Surrogate: Nitrobenzene-d5	1220		µg/kg wet		1650		74	30-130		
Surrogate: Phenol-d5	1260		µg/kg wet		1650		76	30-130		
Surrogate: Terphenyl-d14	1240		µg/kg wet		1650		75	30-130		
Surrogate: 2,4,6-Tribromophenol	1110		µg/kg wet		1650		67	30-130		
LCS Dup (1813682-BSD1)					Prepared: 15-Oct-18 Analyzed: 17-Oct-18					

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813682 - SW846 3546										
LCS Dup (1813682-BSD1)					Prepared: 15-Oct-18 Analyzed: 17-Oct-18					
Acenaphthene	1280		µg/kg wet	66.3	1660		77	40-140	9	30
Acenaphthylene	1320		µg/kg wet	66.3	1660		80	40-140	8	30
Aniline	897		µg/kg wet	328	1660		54	40-140	13	30
Anthracene	1300		µg/kg wet	66.3	1660		79	40-140	16	30
Azobenzene/Diphenyldiazene	1460		µg/kg wet	328	1660		88	40-140	15	30
Benzidine	3650	QC2, E	µg/kg wet	656	1660		220	40-140	28	30
Benzo (a) anthracene	1330		µg/kg wet	66.3	1660		80	40-140	25	30
Benzo (a) pyrene	1190		µg/kg wet	66.3	1660		72	40-140	14	30
Benzo (b) fluoranthene	1120		µg/kg wet	66.3	1660		68	40-140	9	30
Benzo (g,h,i) perylene	1060		µg/kg wet	66.3	1660		64	40-140	0.4	30
Benzo (k) fluoranthene	1290		µg/kg wet	66.3	1660		78	40-140	7	30
Benzoic acid	226	QC6, J	µg/kg wet	328	1660		14	30-130	4	30
Benzyl alcohol	1050		µg/kg wet	328	1660		63	40-140	10	30
Bis(2-chloroethoxy)methane	1040		µg/kg wet	328	1660		63	40-140	11	30
Bis(2-chloroethyl)ether	1110		µg/kg wet	166	1660		67	40-140	12	30
Bis(2-chloroisopropyl)ether	1070		µg/kg wet	166	1660		65	40-140	19	30
Bis(2-ethylhexyl)phthalate	1460		µg/kg wet	166	1660		88	40-140	24	30
4-Bromophenyl phenyl ether	1290		µg/kg wet	328	1660		78	40-140	10	30
Butyl benzyl phthalate	1590		µg/kg wet	328	1660		96	40-140	30	30
Carbazole	2480	QC2	µg/kg wet	166	1660		150	40-140	4	30
4-Chloro-3-methylphenol	1480		µg/kg wet	328	1660		89	30-130	20	30
4-Chloroaniline	1170		µg/kg wet	166	1660		71	40-140	4	30
2-Chloronaphthalene	1320		µg/kg wet	328	1660		80	40-140	7	30
2-Chlorophenol	1150		µg/kg wet	166	1660		69	30-130	14	30
4-Chlorophenyl phenyl ether	1240		µg/kg wet	328	1660		75	40-140	2	30
Chrysene	1460		µg/kg wet	66.3	1660		88	40-140	15	30
Dibenzo (a,h) anthracene	1150		µg/kg wet	66.3	1660		69	40-140	5	30
Dibenzofuran	1270		µg/kg wet	166	1660		76	40-140	6	30
1,2-Dichlorobenzene	1280		µg/kg wet	328	1660		77	40-140	12	30
1,3-Dichlorobenzene	1300		µg/kg wet	328	1660		79	40-140	13	30
1,4-Dichlorobenzene	1360		µg/kg wet	328	1660		82	40-140	12	30
3,3'-Dichlorobenzidine	2060		µg/kg wet	328	1660		124	40-140	15	30
2,4-Dichlorophenol	1130		µg/kg wet	166	1660		68	30-130	11	30
Diethyl phthalate	1350		µg/kg wet	328	1660		82	40-140	3	30
Dimethyl phthalate	1250		µg/kg wet	328	1660		76	40-140	4	30
2,4-Dimethylphenol	1270		µg/kg wet	328	1660		77	30-130	22	30
Di-n-butyl phthalate	1340		µg/kg wet	328	1660		81	40-140	19	30
4,6-Dinitro-2-methylphenol	1010		µg/kg wet	328	1660		61	30-130	6	30
2,4-Dinitrophenol	432	QC6	µg/kg wet	328	1660		26	30-130	7	30
2,4-Dinitrotoluene	1580		µg/kg wet	166	1660		96	40-140	13	30
2,6-Dinitrotoluene	1460		µg/kg wet	166	1660		88	40-140	9	30
Di-n-octyl phthalate	1310		µg/kg wet	328	1660		79	40-140	5	30
Fluoranthene	1330		µg/kg wet	66.3	1660		80	40-140	12	30
Fluorene	1170		µg/kg wet	66.3	1660		71	40-140	2	30
Hexachlorobenzene	1450		µg/kg wet	166	1660		88	40-140	6	30
Hexachlorobutadiene	1300		µg/kg wet	166	1660		78	40-140	7	30
Hexachlorocyclopentadiene	1640		µg/kg wet	166	1660		99	40-140	2	30
Hexachloroethane	1590		µg/kg wet	166	1660		96	40-140	30	30
Indeno (1,2,3-cd) pyrene	1050		µg/kg wet	66.3	1660		63	40-140	2	30
Isophorone	1210		µg/kg wet	166	1660		73	40-140	12	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813682 - SW846 3546										
LCS Dup (1813682-BSD1)	Prepared: 15-Oct-18 Analyzed: 17-Oct-18									
2-Methylnaphthalene	1670		µg/kg wet	66.3	1660		101	40-140	17	30
2-Methylphenol	1170		µg/kg wet	328	1660		71	30-130	22	30
3 & 4-Methylphenol	1320		µg/kg wet	328	1660		80	30-130	26	30
Naphthalene	1230		µg/kg wet	66.3	1660		75	40-140	13	30
2-Nitroaniline	1170		µg/kg wet	328	1660		71	40-140	5	30
3-Nitroaniline	1880		µg/kg wet	328	1660		113	40-140	4	30
4-Nitroaniline	1490		µg/kg wet	166	1660		90	40-140	0.1	30
Nitrobenzene	1640		µg/kg wet	166	1660		99	40-140	21	30
2-Nitrophenol	1180		µg/kg wet	166	1660		72	30-130	14	30
4-Nitrophenol	790	J	µg/kg wet	1310	1660		48	30-130	6	30
N-Nitrosodimethylamine	1400		µg/kg wet	166	1660		84	40-140	19	30
N-Nitrosodi-n-propylamine	1410		µg/kg wet	166	1660		85	40-140	27	30
N-Nitrosodiphenylamine	1550		µg/kg wet	328	1660		93	40-140	13	30
Pentachlorophenol	208	QC6, J	µg/kg wet	328	1660		13	30-130	29	30
Phenanthrene	1360		µg/kg wet	66.3	1660		82	40-140	14	30
Phenol	1190		µg/kg wet	328	1660		72	30-130	11	30
Pyrene	1530		µg/kg wet	66.3	1660		92	40-140	24	30
Pyridine	1260		µg/kg wet	328	1660		76	40-140	17	30
1,2,4-Trichlorobenzene	1340		µg/kg wet	328	1660		81	40-140	14	30
1-Methylnaphthalene	1250		µg/kg wet	66.3	1660		76	40-140	5	30
2,4,5-Trichlorophenol	1100		µg/kg wet	328	1660		67	30-130	12	30
2,4,6-Trichlorophenol	981		µg/kg wet	166	1660		59	30-130	12	30
Pentachloronitrobenzene	1460		µg/kg wet	328	1660		88	40-140	13	30
1,2,4,5-Tetrachlorobenzene	1180		µg/kg wet	328	1660		71	40-140	2	30
Surrogate: 2-Fluorobiphenyl	1260		µg/kg wet		1660		76	30-130		
Surrogate: 2-Fluorophenol	1220		µg/kg wet		1660		74	30-130		
Surrogate: Nitrobenzene-d5	1510		µg/kg wet		1660		91	30-130		
Surrogate: Phenol-d5	1340		µg/kg wet		1660		81	30-130		
Surrogate: Terphenyl-dl4	1550		µg/kg wet		1660		93	30-130		
Surrogate: 2,4,6-Tribromophenol	1270		µg/kg wet		1660		76	30-130		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SM2540 G (11) Mod.</u>										
Batch 1813326 - General Preparation										
<u>Duplicate (1813326-DUP1)</u>				<u>Source: SC50826-01</u>		<u>Prepared & Analyzed: 04-Oct-18</u>				
% Solids	91.5		%			92.5			1	5
<u>Duplicate (1813326-DUP2)</u>				<u>Source: SC50826-02</u>		<u>Prepared & Analyzed: 04-Oct-18</u>				
% Solids	87.1		%			86.7			0.4	5

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
BLK (CB65248-BLK)	Prepared: Analyzed: 04-Oct-18									
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
BLK (CB65248-BLK)					Prepared: Analyzed: 04-Oct-18					
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Surrogate: % 1,2-dichlorobenzene-d4	98		ug/kg		50		98	70-130		
Surrogate: % Bromofluorobenzene	93		ug/kg		50		93	70-130		
Surrogate: % Toluene-d8	94		ug/kg		50		94	70-130		
Surrogate: % Dibromofluoromethane	96		ug/kg		50		96	70-130		
LCS (CB65248-LCS)					Prepared: Analyzed: 04-Oct-18					
2-Isopropyltoluene	49.19		ug/kg	5.0	50		98	70-130		30
Acetone	38.61		ug/kg	10	50		77	70-130		30
Benzene	46.48		ug/kg	1.0	50		93	70-130		30
1,3-Dichloropropane	44.96		ug/kg	5.0	50		90	70-130		30
1,4-Dichlorobenzene	44.34		ug/kg	5.0	50		89	70-130		30
2,2-Dichloropropane	51.48		ug/kg	5.0	50		103	70-130		30
2-Chlorotoluene	45.42		ug/kg	5.0	50		91	70-130		30
2-Hexanone	39.81		ug/kg	25	50		80	70-130		30
1,1,1,2-Tetrachloroethane	47.66		ug/kg	5.0	50		95	70-130		30
Acrylonitrile	47.39		ug/kg	5.0	50		95	70-130		30
1,2-Dichloropropane	45.09		ug/kg	5.0	50		90	70-130		30
Bromobenzene	45.72		ug/kg	5.0	50		91	70-130		30
Bromochloromethane	47.30		ug/kg	5.0	50		95	70-130		30
Bromodichloromethane	47.23		ug/kg	5.0	50		94	70-130		30
Bromoform	49.69		ug/kg	5.0	50		99	70-130		30
Bromomethane	52.85		ug/kg	5.0	50		106	70-130		30
Carbon tetrachloride	51.97		ug/kg	5.0	50		104	70-130		30
4-Methyl-2-pentanone	42.94		ug/kg	25	50		86	70-130		30
1,2,4-Trichlorobenzene	44.40		ug/kg	5.0	50		89	70-130		30
1,1,1-Trichloroethane	48.43		ug/kg	5.0	50		97	70-130		30
1,1,2,2-Tetrachloroethane	46.99		ug/kg	3.0	50		94	70-130		30
1,1,2-Trichloroethane	44.53		ug/kg	5.0	50		89	70-130		30
1,1-Dichloroethane	48.26		ug/kg	5.0	50		97	70-130		30
1,1-Dichloroethene	50.68		ug/kg	5.0	50		101	70-130		30
1,1-Dichloropropene	47.41		ug/kg	5.0	50		95	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
LCS (CB65248-LCS)	Prepared: Analyzed: 04-Oct-18									
1,3-Dichlorobenzene	45.61		ug/kg	5.0	50		91	70-130		30
1,2,3-Trichloropropane	42.19		ug/kg	5.0	50		84	70-130		30
1,3,5-Trimethylbenzene	46.31		ug/kg	1.0	50		93	70-130		30
1,2,4-Trimethylbenzene	45.59		ug/kg	1.0	50		91	70-130		30
1,2-Dibromo-3-chloropropane	47.25		ug/kg	5.0	50		94	70-130		30
1,2-Dibromoethane	45.83		ug/kg	5.0	50		92	70-130		30
1,2-Dichlorobenzene	45.00		ug/kg	5.0	50		90	70-130		30
1,2-Dichloroethane	44.64		ug/kg	5.0	50		89	70-130		30
Chloroform	46.31		ug/kg	5.0	50		93	70-130		30
1,2,3-Trichlorobenzene	44.99		ug/kg	5.0	50		90	70-130		30
trans-1,2-Dichloroethene	49.35		ug/kg	5.0	50		99	70-130		30
4-Chlorotoluene	45.27		ug/kg	5.0	50		91	70-130		30
p-Isopropyltoluene	46.46		ug/kg	1.0	50		93	70-130		30
sec-Butylbenzene	48.81		ug/kg	1.0	50		98	70-130		30
Styrene	45.56		ug/kg	5.0	50		91	70-130		30
tert-Butylbenzene	46.63		ug/kg	1.0	50		93	70-130		30
Tetrachloroethene	46.34		ug/kg	5.0	50		93	70-130		30
n-Propylbenzene	46.26		ug/kg	1.0	50		93	70-130		30
Toluene	45.69		ug/kg	1.0	50		91	70-130		30
n-Butylbenzene	45.34		ug/kg	1.0	50		91	70-130		30
trans-1,3-Dichloropropene	44.62		ug/kg	5.0	50		89	70-130		30
trans-1,4-dichloro-2-butene	259.8		ug/kg	5.0	250		104	70-130		30
Trichloroethene	47.16		ug/kg	5.0	50		94	70-130		30
Trichlorofluoromethane	54.38		ug/kg	5.0	50		109	70-130		30
Trichlorotrifluoroethane	52.22		ug/kg	5.0	50		104	70-130		30
Vinyl chloride	52.02		ug/kg	5.0	50		104	70-130		30
Tetrahydrofuran (THF)	110.3		ug/kg	5.0	125		88	70-130		30
Hexachlorobutadiene	46.19		ug/kg	5.0	50		92	70-130		30
Carbon Disulfide	55.43		ug/kg	5.0	50		111	70-130		30
Chloromethane	44.69		ug/kg	5.0	50		89	70-130		30
cis-1,2-Dichloroethene	47.82		ug/kg	5.0	50		96	70-130		30
cis-1,3-Dichloropropene	45.18		ug/kg	5.0	50		90	70-130		30
Dibromochloromethane	49.74		ug/kg	3.0	50		99	70-130		30
Dibromomethane	44.86		ug/kg	5.0	50		90	70-130		30
o-Xylene	46.73		ug/kg	2.0	50		93	70-130		30
Ethylbenzene	46.77		ug/kg	1.0	50		94	70-130		30
Chloroethane	58.10		ug/kg	5.0	50		116	70-130		30
Isopropylbenzene	46.72		ug/kg	1.0	50		93	70-130		30
m&p-Xylene	94.03		ug/kg	2.0	100		94	70-130		30
Methyl Ethyl Ketone	41.44		ug/kg	5.0	50		83	70-130		30
Methyl t-butyl ether (MTBE)	46.88		ug/kg	1.0	50		94	70-130		30
Methylene chloride	46.03		ug/kg	5.0	50		92	70-130		30
Naphthalene	46.13		ug/kg	5.0	50		92	70-130		30
Dichlorodifluoromethane	49.95		ug/kg	5.0	50		100	70-130		30
Chlorobenzene	46.20		ug/kg	5.0	50		92	70-130		30
Surrogate: % Toluene-d8	47.56		ug/kg		50		95	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.57		ug/kg		50		99	70-130		
Surrogate: % Bromofluorobenzene	48.34		ug/kg		50		97	70-130		
Surrogate: % Dibromofluoromethane	49.94		ug/kg		50		100	70-130		
LCSD (CB65248-LCSD)	Prepared: Analyzed: 04-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
LCSD (CB65248-LCSD)	Prepared: Analyzed: 04-Oct-18									
2-Isopropyltoluene	49.85		ug/kg	5.0	50		100	70-130	2.0	30
1,3-Dichloropropane	45.42		ug/kg	5.0	50		91	70-130	1.1	30
1,4-Dichlorobenzene	44.57		ug/kg	5.0	50		89	70-130	0.0	30
2,2-Dichloropropane	50.69		ug/kg	5.0	50		101	70-130	2.0	30
2-Chlorotoluene	46.11		ug/kg	5.0	50		92	70-130	1.1	30
2-Hexanone	39.48		ug/kg	25	50		79	70-130	1.3	30
4-Chlorotoluene	46.16		ug/kg	5.0	50		92	70-130	1.1	30
4-Methyl-2-pentanone	42.41		ug/kg	25	50		85	70-130	1.2	30
1,3-Dichlorobenzene	46.21		ug/kg	5.0	50		92	70-130	1.1	30
Acrylonitrile	47.03		ug/kg	5.0	50		94	70-130	1.1	30
1,2-Dichlorobenzene	45.32		ug/kg	5.0	50		91	70-130	1.1	30
Benzene	47.13		ug/kg	1.0	50		94	70-130	1.1	30
Bromobenzene	46.03		ug/kg	5.0	50		92	70-130	1.1	30
Bromochloromethane	47.42		ug/kg	5.0	50		95	70-130	0.0	30
Bromodichloromethane	47.26		ug/kg	5.0	50		95	70-130	1.1	30
Bromoform	50.00		ug/kg	5.0	50		100	70-130	1.0	30
Acetone	40.87		ug/kg	10	50		82	70-130	6.3	30
1,2,3-Trichloropropane	41.72		ug/kg	5.0	50		83	70-130	1.2	30
1,1,1,2-Tetrachloroethane	48.26		ug/kg	5.0	50		97	70-130	2.1	30
1,1,1-Trichloroethane	48.76		ug/kg	5.0	50		98	70-130	1.0	30
1,1,2,2-Tetrachloroethane	46.63		ug/kg	3.0	50		93	70-130	1.1	30
1,1,2-Trichloroethane	45.28		ug/kg	5.0	50		91	70-130	2.2	30
1,1-Dichloroethane	48.61		ug/kg	5.0	50		97	70-130	0.0	30
1,1-Dichloroethene	52.89		ug/kg	5.0	50		106	70-130	4.8	30
1,2-Dichloropropane	45.31		ug/kg	5.0	50		91	70-130	1.1	30
1,2,3-Trichlorobenzene	44.46		ug/kg	5.0	50		89	70-130	1.1	30
1,3,5-Trimethylbenzene	47.06		ug/kg	1.0	50		94	70-130	1.1	30
1,2,4-Trichlorobenzene	44.49		ug/kg	5.0	50		89	70-130	0.0	30
1,2,4-Trimethylbenzene	46.16		ug/kg	1.0	50		92	70-130	1.1	30
1,2-Dibromo-3-chloropropane	45.33		ug/kg	5.0	50		91	70-130	3.2	30
1,2-Dibromoethane	45.61		ug/kg	5.0	50		91	70-130	1.1	30
Chlorobenzene	46.57		ug/kg	5.0	50		93	70-130	1.1	30
1,2-Dichloroethane	45.07		ug/kg	5.0	50		90	70-130	1.1	30
Bromomethane	54.04		ug/kg	5.0	50		108	70-130	1.9	30
1,1-Dichloropropene	47.86		ug/kg	5.0	50		96	70-130	1.0	30
Toluene	46.54		ug/kg	1.0	50		93	70-130	2.2	30
n-Butylbenzene	46.16		ug/kg	1.0	50		92	70-130	1.1	30
Carbon Disulfide	59.89		ug/kg	5.0	50		120	70-130	7.8	30
o-Xylene	47.51		ug/kg	2.0	50		95	70-130	2.1	30
p-Isopropyltoluene	46.63		ug/kg	1.0	50		93	70-130	0.0	30
sec-Butylbenzene	49.49		ug/kg	1.0	50		99	70-130	1.0	30
Styrene	46.26		ug/kg	5.0	50		93	70-130	2.2	30
tert-Butylbenzene	47.34		ug/kg	1.0	50		95	70-130	2.1	30
Carbon tetrachloride	45.47		ug/kg	5.0	50		91	70-130	13.3	30
Tetrahydrofuran (THF)	107.2		ug/kg	5.0	125		86	70-130	2.3	30
Naphthalene	45.08		ug/kg	5.0	50		90	70-130	2.2	30
trans-1,2-Dichloroethene	52.84		ug/kg	5.0	50		106	70-130	6.8	30
trans-1,3-Dichloropropene	44.44		ug/kg	5.0	50		89	70-130	0.0	30
trans-1,4-dichloro-2-butene	253.2		ug/kg	5.0	250		101	70-130	2.9	30
Trichloroethene	47.69		ug/kg	5.0	50		95	70-130	1.1	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
LCSD (CB65248-LCSD)					Prepared: Analyzed: 04-Oct-18					
Trichlorofluoromethane	56.68		ug/kg	5.0	50		113	70-130	3.6	30
Trichlorotrifluoroethane	54.53		ug/kg	5.0	50		109	70-130	4.7	30
Vinyl chloride	53.30		ug/kg	5.0	50		107	70-130	2.8	30
Tetrachloroethene	47.24		ug/kg	5.0	50		94	70-130	1.1	30
Dibromochloromethane	50.08		ug/kg	3.0	50		100	70-130	1.0	30
Chloroethane	57.12		ug/kg	5.0	50		114	70-130	1.7	30
Chloroform	46.97		ug/kg	5.0	50		94	70-130	1.1	30
Chloromethane	45.47		ug/kg	5.0	50		91	70-130	2.2	30
n-Propylbenzene	46.93		ug/kg	1.0	50		94	70-130	1.1	30
cis-1,3-Dichloropropene	45.70		ug/kg	5.0	50		91	70-130	1.1	30
Methylene chloride	49.48		ug/kg	5.0	50		99	70-130	7.3	30
Dibromomethane	45.37		ug/kg	5.0	50		91	70-130	1.1	30
Dichlorodifluoromethane	50.31		ug/kg	5.0	50		101	70-130	1.0	30
Ethylbenzene	47.52		ug/kg	1.0	50		95	70-130	1.1	30
Hexachlorobutadiene	46.62		ug/kg	5.0	50		93	70-130	1.1	30
Isopropylbenzene	47.09		ug/kg	1.0	50		94	70-130	1.1	30
m&p-Xylene	95.16		ug/kg	2.0	100		95	70-130	1.1	30
Methyl Ethyl Ketone	40.84		ug/kg	5.0	50		82	70-130	1.2	30
Methyl t-butyl ether (MTBE)	49.36		ug/kg	1.0	50		99	70-130	5.2	30
cis-1,2-Dichloroethene	48.19		ug/kg	5.0	50		96	70-130	0.0	30
Surrogate: % Toluene-d8	47.73		ug/kg		50		95	70-130		
Surrogate: % Dibromofluoromethane	49.40		ug/kg		50		99	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.50		ug/kg		50		99	70-130		
Surrogate: % Bromofluorobenzene	48.33		ug/kg		50		97	70-130		
MS (CB65248-MS)					Source: CB65248 Prepared: Analyzed: 05-Oct-18					
2-Isopropyltoluene	48.72		ug/kg	5.0	50		97	70-130		30
Trichloroethene	45.82		ug/kg	5.0	50		92	70-130		30
Acrylonitrile	39.57		ug/kg	5.0	50		79	70-130		30
Carbon Disulfide	50.22		ug/kg	5.0	50		100	70-130		30
1,4-Dichlorobenzene	37.62		ug/kg	5.0	50		75	70-130		30
2,2-Dichloropropane	49.16		ug/kg	5.0	50		98	70-130		30
2-Chlorotoluene	46.20		ug/kg	5.0	50		92	70-130		30
2-Hexanone	34.38	m	ug/kg	25	50		69	70-130		30
4-Chlorotoluene	43.69		ug/kg	5.0	50		87	70-130		30
1,3-Dichlorobenzene	39.63		ug/kg	5.0	50		79	70-130		30
Acetone	37.13		ug/kg	10	50		74	70-130		30
1,3,5-Trimethylbenzene	47.63		ug/kg	1.0	50		95	70-130		30
Benzene	45.93		ug/kg	1.0	50		92	70-130		30
Bromobenzene	44.27		ug/kg	5.0	50		89	70-130		30
Bromochloromethane	44.86		ug/kg	5.0	50		90	70-130		30
Trichlorotrifluoroethane	53.16		ug/kg	5.0	50		106	70-130		30
Bromoform	40.64		ug/kg	5.0	50		81	70-130		30
Vinyl chloride	49.21		ug/kg	5.0	50		98	70-130		30
4-Methyl-2-pentanone	39.44		ug/kg	25	50		79	70-130		30
1,2,4-Trichlorobenzene	46.23		ug/kg	5.0	50		92	70-130		30
1,1,1-Trichloroethane	48.04		ug/kg	5.0	50		96	70-130		30
1,1,1,2-Tetrachloroethane	45.64		ug/kg	5.0	50		91	70-130		30
1,1,2-Trichloroethane	42.33		ug/kg	5.0	50		85	70-130		30
1,1-Dichloroethane	47.49		ug/kg	5.0	50		95	70-130		30
1,1-Dichloroethene	50.78		ug/kg	5.0	50		102	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
MS (CB65248-MS)				Source: CB65248			Prepared: Analyzed: 05-Oct-18			
1,1-Dichloropropene	46.75		ug/kg	5.0	50		94	70-130		30
1,3-Dichloropropane	43.13		ug/kg	5.0	50		86	70-130		30
1,2,3-Trichloropropane	46.59		ug/kg	5.0	50		93	70-130		30
Bromomethane	47.49		ug/kg	5.0	50		95	70-130		30
1,2,4-Trimethylbenzene	45.58		ug/kg	1.0	50		88	70-130		30
1,2-Dibromo-3-chloropropane	41.88		ug/kg	5.0	50		84	70-130		30
1,2-Dibromoethane	42.34		ug/kg	5.0	50		85	70-130		30
1,2-Dichlorobenzene	37.24		ug/kg	5.0	50		74	70-130		30
1,2-Dichloroethane	42.94		ug/kg	5.0	50		86	70-130		30
1,2-Dichloropropane	44.43		ug/kg	5.0	50		89	70-130		30
1,2,3-Trichlorobenzene	44.70		ug/kg	5.0	50		89	70-130		30
Tetrachloroethene	45.19		ug/kg	5.0	50		90	70-130		30
Carbon tetrachloride	43.28		ug/kg	5.0	50		87	70-130		30
n-Butylbenzene	41.19		ug/kg	1.0	50		82	70-130		30
Bromodichloromethane	44.57		ug/kg	5.0	50		89	70-130		30
o-Xylene	44.76		ug/kg	2.0	50		90	70-130		30
p-Isopropyltoluene	45.60		ug/kg	1.0	50		91	70-130		30
sec-Butylbenzene	49.07		ug/kg	1.0	50		98	70-130		30
Methylene chloride	46.55		ug/kg	5.0	50		93	70-130		30
tert-Butylbenzene	48.80		ug/kg	1.0	50		98	70-130		30
Naphthalene	44.53		ug/kg	5.0	50		89	70-130		30
Tetrahydrofuran (THF)	101.3		ug/kg	5.0	125		81	70-130		30
Toluene	45.44		ug/kg	1.0	50		88	70-130		30
trans-1,2-Dichloroethene	48.91		ug/kg	5.0	50		98	70-130		30
trans-1,3-Dichloropropene	37.63		ug/kg	5.0	50		75	70-130		30
trans-1,4-dichloro-2-butene	206.6		ug/kg	5.0	250		83	70-130		30
1,1,2,2-Tetrachloroethane	47.53		ug/kg	3.0	50		95	70-130		30
Trichlorofluoromethane	54.48		ug/kg	5.0	50		109	70-130		30
Styrene	38.50		ug/kg	5.0	50		77	70-130		30
cis-1,3-Dichloropropene	40.89		ug/kg	5.0	50		82	70-130		30
Chlorobenzene	42.26		ug/kg	5.0	50		85	70-130		30
Chloroethane	55.26		ug/kg	5.0	50		111	70-130		30
Chloroform	45.76		ug/kg	5.0	50		92	70-130		30
n-Propylbenzene	48.36		ug/kg	1.0	50		97	70-130		30
cis-1,2-Dichloroethene	45.49		ug/kg	5.0	50		91	70-130		30
Methyl t-butyl ether (MTBE)	47.73		ug/kg	1.0	50		95	70-130		30
Dibromochloromethane	45.36		ug/kg	3.0	50		91	70-130		30
Dibromomethane	42.22		ug/kg	5.0	50		84	70-130		30
Dichlorodifluoromethane	48.04		ug/kg	5.0	50		96	70-130		30
Ethylbenzene	45.40		ug/kg	1.0	50		90	70-130		30
Hexachlorobutadiene	50.39		ug/kg	5.0	50		101	70-130		30
Isopropylbenzene	50.76		ug/kg	1.0	50		102	70-130		30
m&p-Xylene	88.88		ug/kg	2.0	100		87	70-130		30
Methyl Ethyl Ketone	34.36	m	ug/kg	5.0	50		69	70-130		30
Chloromethane	41.11		ug/kg	5.0	50		82	70-130		30
Surrogate: % 1,2-dichlorobenzene-d4	48.35		ug/kg		50		97	70-130		
Surrogate: % Bromofluorobenzene	45.53		ug/kg		50		91	70-130		
Surrogate: % Dibromofluoromethane	49.27		ug/kg		50		99	70-130		
Surrogate: % Toluene-d8	47.52		ug/kg		50		95	70-130		
MSD (CB65248-MSD)				Source: CB65248			Prepared: Analyzed: 05-Oct-18			

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
MSD (CB65248-MSD)				Source: CB65248			Prepared: Analyzed: 05-Oct-18			
2-Isopropyltoluene	49.15		ug/kg	5.0	50		98	70-130	1.0	30
Dibromomethane	42.66		ug/kg	5.0	50		85	70-130	1.2	30
Methyl t-butyl ether (MTBE)	48.41		ug/kg	1.0	50		97	70-130	2.1	30
Methyl Ethyl Ketone	35.56		ug/kg	5.0	50		71	70-130	2.9	30
m&p-Xylene	90.31		ug/kg	2.0	100		88	70-130	1.1	30
Isopropylbenzene	51.95		ug/kg	1.0	50		104	70-130	1.9	30
Hexachlorobutadiene	50.38		ug/kg	5.0	50		101	70-130	0.0	30
Vinyl chloride	51.73		ug/kg	5.0	50		103	70-130	5.0	30
Dichlorodifluoromethane	49.15		ug/kg	5.0	50		98	70-130	2.1	30
n-Butylbenzene	41.20		ug/kg	1.0	50		82	70-130	0.0	30
Dibromochloromethane	48.55		ug/kg	3.0	50		97	70-130	6.4	30
cis-1,3-Dichloropropene	41.14		ug/kg	5.0	50		82	70-130	0.0	30
cis-1,2-Dichloroethene	46.13		ug/kg	5.0	50		92	70-130	1.1	30
Chloromethane	42.55		ug/kg	5.0	50		85	70-130	3.6	30
Chloroform	46.79		ug/kg	5.0	50		94	70-130	2.2	30
Chloroethane	55.45		ug/kg	5.0	50		111	70-130	0.0	30
Ethylbenzene	46.35		ug/kg	1.0	50		92	70-130	2.2	30
Tetrachloroethene	45.78		ug/kg	5.0	50		92	70-130	2.2	30
Trichlorotrifluoroethane	54.29		ug/kg	5.0	50		109	70-130	2.8	30
Trichlorofluoromethane	56.67		ug/kg	5.0	50		113	70-130	3.6	30
Trichloroethene	46.36		ug/kg	5.0	50		93	70-130	1.1	30
trans-1,4-dichloro-2-butene	222.5		ug/kg	5.0	250		89	70-130	7.0	30
trans-1,3-Dichloropropene	38.43		ug/kg	5.0	50		77	70-130	2.6	30
trans-1,2-Dichloroethene	49.32		ug/kg	5.0	50		99	70-130	1.0	30
Methylene chloride	47.53		ug/kg	5.0	50		95	70-130	2.1	30
Tetrahydrofuran (THF)	106.8		ug/kg	5.0	125		85	70-130	4.8	30
Naphthalene	48.09		ug/kg	5.0	50		96	70-130	7.6	30
tert-Butylbenzene	49.56		ug/kg	1.0	50		99	70-130	1.0	30
Styrene	39.48		ug/kg	5.0	50		79	70-130	2.6	30
sec-Butylbenzene	49.57		ug/kg	1.0	50		99	70-130	1.0	30
p-Isopropyltoluene	46.34		ug/kg	1.0	50		93	70-130	2.2	30
o-Xylene	46.18		ug/kg	2.0	50		92	70-130	2.2	30
n-Propylbenzene	49.13		ug/kg	1.0	50		98	70-130	1.0	30
Carbon Disulfide	50.79		ug/kg	5.0	50		102	70-130	2.0	30
Toluene	46.10		ug/kg	1.0	50		90	70-130	2.2	30
1,1-Dichloropropene	47.14		ug/kg	5.0	50		94	70-130	0.0	30
Chlorobenzene	42.99		ug/kg	5.0	50		86	70-130	1.2	30
1,2-Dichloroethane	43.18		ug/kg	5.0	50		86	70-130	0.0	30
1,2-Dibromoethane	42.68		ug/kg	5.0	50		85	70-130	0.0	30
1,2-Dibromo-3-chloropropane	47.03		ug/kg	5.0	50		94	70-130	11.2	30
1,2,4-Trimethylbenzene	44.96		ug/kg	1.0	50		87	70-130	1.1	30
1,2,4-Trichlorobenzene	46.93		ug/kg	5.0	50		94	70-130	2.2	30
1,3-Dichlorobenzene	40.38		ug/kg	5.0	50		81	70-130	2.5	30
1,2,3-Trichlorobenzene	46.43		ug/kg	5.0	50		93	70-130	4.4	30
1,3-Dichloropropane	43.74		ug/kg	5.0	50		87	70-130	1.2	30
1,1-Dichloroethene	52.04		ug/kg	5.0	50		104	70-130	1.9	30
1,1-Dichloroethane	48.60		ug/kg	5.0	50		97	70-130	2.1	30
1,1,2-Trichloroethane	42.97		ug/kg	5.0	50		86	70-130	1.2	30
1,1,2,2-Tetrachloroethane	48.82		ug/kg	3.0	50		98	70-130	3.1	30
1,1,1-Trichloroethane	49.16		ug/kg	5.0	50		98	70-130	2.1	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450521A - SW8260C										
MSD (CB65248-MSD)				Source: CB65248			Prepared: Analyzed: 05-Oct-18			
1,1,1,2-Tetrachloroethane	47.64		ug/kg	5.0	50		95	70-130	4.3	30
1,2,3-Trichloropropane	45.02		ug/kg	5.0	50		90	70-130	3.3	30
Acetone	37.73		ug/kg	10	50		75	70-130	1.3	30
1,2-Dichloropropane	45.41		ug/kg	5.0	50		91	70-130	2.2	30
Bromomethane	45.06		ug/kg	5.0	50		90	70-130	5.4	30
Bromoform	45.03		ug/kg	5.0	50		90	70-130	10.5	30
Bromodichloromethane	46.59		ug/kg	5.0	50		93	70-130	4.4	30
Bromochloromethane	45.55		ug/kg	5.0	50		91	70-130	1.1	30
Bromobenzene	44.55		ug/kg	5.0	50		89	70-130	0.0	30
1,3,5-Trimethylbenzene	48.47		ug/kg	1.0	50		97	70-130	2.1	30
Acrylonitrile	40.86		ug/kg	5.0	50		82	70-130	3.7	30
Carbon tetrachloride	45.24		ug/kg	5.0	50		90	70-130	3.4	30
4-Methyl-2-pentanone	41.27		ug/kg	25	50		83	70-130	4.9	30
4-Chlorotoluene	44.59		ug/kg	5.0	50		89	70-130	2.3	30
2-Hexanone	34.60	m	ug/kg	25	50		69	70-130	0.0	30
2-Chlorotoluene	46.89		ug/kg	5.0	50		94	70-130	2.2	30
2,2-Dichloropropane	50.17		ug/kg	5.0	50		100	70-130	2.0	30
1,4-Dichlorobenzene	38.34		ug/kg	5.0	50		77	70-130	2.6	30
Benzene	46.25		ug/kg	1.0	50		93	70-130	1.1	30
1,2-Dichlorobenzene	46.13		ug/kg	5.0	50		92	70-130	21.7	30
Surrogate: % Toluene-d8	47.41		ug/kg		50		95	70-130		
Surrogate: % Dibromofluoromethane	49.12		ug/kg		50		98	70-130		
Surrogate: % Bromofluorobenzene	45.27		ug/kg		50		91	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	48.19		ug/kg		50		96	70-130		
Batch 450865A - SW8260C										
BLK (CB65155-BLK)							Prepared: Analyzed: 05-Oct-18			
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450865A - SW8260C										
BLK (CB65155-BLK)	Prepared: Analyzed: 05-Oct-18									
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
Surrogate: % Dibromofluoromethane	97		ug/kg		50		97	70-130		
Surrogate: % Bromofluorobenzene	93		ug/kg		50		93	70-130		
Surrogate: % Toluene-d8	93		ug/kg		50		93	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	99		ug/kg		50		99	70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450865A - SW8260C										
LCS (CB65155-LCS)	Prepared: Analyzed: 05-Oct-18									
2-Isopropyltoluene	46.08		ug/kg	5.0	50		92	70-130		30
Chloromethane	41.25		ug/kg	5.0	50		82	70-130		30
Bromodichloromethane	52.30		ug/kg	5.0	50		105	70-130		30
Bromoform	55.61		ug/kg	5.0	50		111	70-130		30
Bromomethane	47.48		ug/kg	5.0	50		95	70-130		30
Bromobenzene	51.60		ug/kg	5.0	50		103	70-130		30
Carbon Disulfide	55.46		ug/kg	5.0	50		111	70-130		30
Carbon tetrachloride	48.68		ug/kg	5.0	50		97	70-130		30
Chlorobenzene	50.93		ug/kg	5.0	50		102	70-130		30
Benzene	50.90		ug/kg	1.0	50		102	70-130		30
Chloroethane	49.81		ug/kg	5.0	50		100	70-130		30
Chloroform	50.56		ug/kg	5.0	50		101	70-130		30
Bromochloromethane	52.20		ug/kg	5.0	50		104	70-130		30
cis-1,2-Dichloroethene	52.22		ug/kg	5.0	50		104	70-130		30
cis-1,3-Dichloropropene	50.33		ug/kg	5.0	50		101	70-130		30
Dibromochloromethane	55.91		ug/kg	3.0	50		112	70-130		30
Dibromomethane	49.87		ug/kg	5.0	50		100	70-130		30
Dichlorodifluoromethane	46.31		ug/kg	5.0	50		93	70-130		30
Ethylbenzene	51.42		ug/kg	1.0	50		103	70-130		30
Isopropylbenzene	51.57		ug/kg	1.0	50		103	70-130		30
m&p-Xylene	104.2		ug/kg	2.0	100		104	70-130		30
Methyl Ethyl Ketone	36.37		ug/kg	5.0	50		73	70-130		30
Acrylonitrile	42.93		ug/kg	5.0	50		86	70-130		30
1,1-Dichloropropene	51.69		ug/kg	5.0	50		103	70-130		30
Methyl t-butyl ether (MTBE)	50.76		ug/kg	1.0	50		102	70-130		30
Methylene chloride	53.48		ug/kg	5.0	50		107	70-130		30
Hexachlorobutadiene	53.46		ug/kg	5.0	50		107	70-130		30
1,2-Dichlorobenzene	50.89		ug/kg	5.0	50		102	70-130		30
Trichlorotrifluoroethane	47.69		ug/kg	5.0	50		95	70-130		30
Naphthalene	50.84		ug/kg	5.0	50		102	70-130		30
1,1,1,2-Tetrachloroethane	52.40		ug/kg	5.0	50		105	70-130		30
1,1,1-Trichloroethane	52.07		ug/kg	5.0	50		104	70-130		30
1,1,2,2-Tetrachloroethane	52.71		ug/kg	3.0	50		105	70-130		30
1,1,2-Trichloroethane	48.84		ug/kg	5.0	50		98	70-130		30
1,1-Dichloroethane	52.24		ug/kg	5.0	50		104	70-130		30
1,1-Dichloroethene	56.01		ug/kg	5.0	50		112	70-130		30
1,2,3-Trichlorobenzene	50.78		ug/kg	5.0	50		102	70-130		30
1,2,4-Trichlorobenzene	52.21		ug/kg	5.0	50		104	70-130		30
1,2,4-Trimethylbenzene	51.65		ug/kg	1.0	50		103	70-130		30
1,2,3-Trichloropropane	47.13		ug/kg	5.0	50		94	70-130		30
1,2-Dibromoethane	50.72		ug/kg	5.0	50		101	70-130		30
Acetone	37.33		ug/kg	10	50		75	70-130		30
1,2-Dichloroethane	49.21		ug/kg	5.0	50		98	70-130		30
1,2-Dichloropropane	49.55		ug/kg	5.0	50		99	70-130		30
1,3,5-Trimethylbenzene	51.88		ug/kg	1.0	50		104	70-130		30
1,3-Dichlorobenzene	52.46		ug/kg	5.0	50		105	70-130		30
1,3-Dichloropropane	49.63		ug/kg	5.0	50		99	70-130		30
1,4-Dichlorobenzene	51.07		ug/kg	5.0	50		102	70-130		30
2,2-Dichloropropane	54.38		ug/kg	5.0	50		109	70-130		30
2-Chlorotoluene	51.58		ug/kg	5.0	50		103	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450865A - SW8260C										
<u>LCS (CB65155-LCS)</u>	Prepared: Analyzed: 05-Oct-18									
2-Hexanone	36.58		ug/kg	25	50		73	70-130		30
4-Chlorotoluene	51.82		ug/kg	5.0	50		104	70-130		30
4-Methyl-2-pentanone	38.71		ug/kg	25	50		77	70-130		30
1,2-Dibromo-3-chloropropane	52.20		ug/kg	5.0	50		104	70-130		30
Tetrahydrofuran (THF)	97.35		ug/kg	5.0	125		78	70-130		30
Vinyl chloride	47.36		ug/kg	5.0	50		95	70-130		30
Trichloroethene	51.48		ug/kg	5.0	50		103	70-130		30
Trichlorofluoromethane	49.09		ug/kg	5.0	50		98	70-130		30
n-Butylbenzene	52.18		ug/kg	1.0	50		104	70-130		30
trans-1,4-dichloro-2-butene	239.8		ug/kg	5.0	250		96	70-130		30
trans-1,3-Dichloropropene	49.24		ug/kg	5.0	50		98	70-130		30
Toluene	50.37		ug/kg	1.0	50		101	70-130		30
Tetrachloroethene	51.43		ug/kg	5.0	50		103	70-130		30
tert-Butylbenzene	52.13		ug/kg	1.0	50		104	70-130		30
Styrene	50.83		ug/kg	5.0	50		102	70-130		30
sec-Butylbenzene	54.23		ug/kg	1.0	50		108	70-130		30
p-Isopropyltoluene	52.38		ug/kg	1.0	50		105	70-130		30
o-Xylene	52.06		ug/kg	2.0	50		104	70-130		30
n-Propylbenzene	52.18		ug/kg	1.0	50		104	70-130		30
trans-1,2-Dichloroethene	56.65		ug/kg	5.0	50		113	70-130		30
Surrogate: % Dibromofluoromethane	48.94		ug/kg		50		98	70-130		
Surrogate: % Toluene-d8	47.47		ug/kg		50		95	70-130		
Surrogate: % Bromofluorobenzene	47.28		ug/kg		50		95	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.26		ug/kg		50		99	70-130		
<u>LCSD (CB65155-LCSD)</u>	Prepared: Analyzed: 05-Oct-18									
2-Isopropyltoluene	47.68		ug/kg	5.0	50		95	70-130	3.2	30
Trichlorofluoromethane	52.20		ug/kg	5.0	50		104	70-130	5.9	30
n-Propylbenzene	54.85		ug/kg	1.0	50		110	70-130	5.6	30
o-Xylene	55.99		ug/kg	2.0	50		112	70-130	7.4	30
p-Isopropyltoluene	54.50		ug/kg	1.0	50		109	70-130	3.7	30
sec-Butylbenzene	56.26		ug/kg	1.0	50		113	70-130	4.5	30
Styrene	55.34		ug/kg	5.0	50		111	70-130	8.5	30
Tetrahydrofuran (THF)	109.8		ug/kg	5.0	125		88	70-130	12.0	30
Tetrachloroethene	56.04		ug/kg	5.0	50		112	70-130	8.4	30
trans-1,4-dichloro-2-butene	266.2		ug/kg	5.0	250		106	70-130	9.9	30
n-Butylbenzene	54.56		ug/kg	1.0	50		109	70-130	4.7	30
Dibromomethane	53.81		ug/kg	5.0	50		108	70-130	7.7	30
Toluene	54.00		ug/kg	1.0	50		108	70-130	6.7	30
Trichloroethene	55.49		ug/kg	5.0	50		111	70-130	7.5	30
trans-1,2-Dichloroethene	61.39		ug/kg	5.0	50		123	70-130	8.5	30
trans-1,3-Dichloropropene	53.98		ug/kg	5.0	50		108	70-130	9.7	30
tert-Butylbenzene	53.91		ug/kg	1.0	50		108	70-130	3.8	30
1,1,2-Trichloroethane	53.57		ug/kg	5.0	50		107	70-130	8.8	30
Bromomethane	49.86		ug/kg	5.0	50		100	70-130	5.1	30
Carbon Disulfide	59.70		ug/kg	5.0	50		119	70-130	7.0	30
Carbon tetrachloride	60.39		ug/kg	5.0	50		121	70-130	22.0	30
Chlorobenzene	54.88		ug/kg	5.0	50		110	70-130	7.5	30
Chloroethane	53.70		ug/kg	5.0	50		107	70-130	6.8	30
Chloroform	53.76		ug/kg	5.0	50		108	70-130	6.7	30
Chloromethane	44.71		ug/kg	5.0	50		89	70-130	8.2	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450865A - SW8260C										
LCSD (CB65155-LCSD)					Prepared: Analyzed: 05-Oct-18					
cis-1,2-Dichloroethene	55.51		ug/kg	5.0	50		111	70-130	6.5	30
Ethylbenzene	55.47		ug/kg	1.0	50		111	70-130	7.5	30
Dibromochloromethane	60.83		ug/kg	3.0	50		122	70-130	8.5	30
Naphthalene	55.74		ug/kg	5.0	50		111	70-130	8.5	30
Dichlorodifluoromethane	48.20		ug/kg	5.0	50		96	70-130	3.2	30
Trichlorotrifluoroethane	51.52		ug/kg	5.0	50		103	70-130	8.1	30
Hexachlorobutadiene	53.21		ug/kg	5.0	50		106	70-130	0.9	30
Isopropylbenzene	54.25		ug/kg	1.0	50		108	70-130	4.7	30
m&p-Xylene	112.3		ug/kg	2.0	100		112	70-130	7.4	30
Methyl Ethyl Ketone	41.62		ug/kg	5.0	50		83	70-130	12.8	30
Methyl t-butyl ether (MTBE)	55.85		ug/kg	1.0	50		112	70-130	9.3	30
Methylene chloride	57.65		ug/kg	5.0	50		115	70-130	7.2	30
cis-1,3-Dichloropropene	54.61		ug/kg	5.0	50		109	70-130	7.6	30
4-Methyl-2-pentanone	43.73		ug/kg	25	50		87	70-130	12.2	30
1,3,5-Trimethylbenzene	54.68		ug/kg	1.0	50		109	70-130	4.7	30
1,1,1-Trichloroethane	55.45		ug/kg	5.0	50		111	70-130	6.5	30
1,3-Dichloropropane	53.79		ug/kg	5.0	50		108	70-130	8.7	30
1,4-Dichlorobenzene	54.97		ug/kg	5.0	50		110	70-130	7.5	30
2,2-Dichloropropane	60.03		ug/kg	5.0	50		120	70-130	9.6	30
2-Chlorotoluene	54.83		ug/kg	5.0	50		110	70-130	6.6	30
Vinyl chloride	51.23		ug/kg	5.0	50		102	70-130	7.1	30
4-Chlorotoluene	55.05		ug/kg	5.0	50		110	70-130	5.6	30
1,2-Dichloropropane	53.24		ug/kg	5.0	50		106	70-130	6.8	30
Acetone	42.30		ug/kg	10	50		85	70-130	12.5	30
Acrylonitrile	48.17		ug/kg	5.0	50		96	70-130	11.0	30
Benzene	54.67		ug/kg	1.0	50		109	70-130	6.6	30
Bromobenzene	54.84		ug/kg	5.0	50		110	70-130	6.6	30
Bromochloromethane	55.30		ug/kg	5.0	50		111	70-130	6.5	30
Bromodichloromethane	56.23		ug/kg	5.0	50		112	70-130	6.5	30
Bromoform	61.82		ug/kg	5.0	50		124	70-130	11.1	30
2-Hexanone	41.09		ug/kg	25	50		82	70-130	11.6	30
1,1-Dichloropropene	55.79		ug/kg	5.0	50		112	70-130	8.4	30
1,1,1,2-Tetrachloroethane	56.95		ug/kg	5.0	50		114	70-130	8.2	30
1,1,2,2-Tetrachloroethane	56.87		ug/kg	3.0	50		114	70-130	8.2	30
1,3-Dichlorobenzene	56.18		ug/kg	5.0	50		112	70-130	6.5	30
1,1-Dichloroethene	59.85		ug/kg	5.0	50		120	70-130	6.9	30
1,2-Dichloroethane	53.36		ug/kg	5.0	50		107	70-130	8.8	30
1,2,3-Trichlorobenzene	55.29		ug/kg	5.0	50		111	70-130	8.5	30
1,2,3-Trichloropropane	51.04		ug/kg	5.0	50		102	70-130	8.2	30
1,2,4-Trichlorobenzene	56.91		ug/kg	5.0	50		114	70-130	9.2	30
1,2,4-Trimethylbenzene	54.89		ug/kg	1.0	50		110	70-130	6.6	30
1,2-Dibromo-3-chloropropane	57.26		ug/kg	5.0	50		115	70-130	10.0	30
1,2-Dibromoethane	55.11		ug/kg	5.0	50		110	70-130	8.5	30
1,2-Dichlorobenzene	54.72		ug/kg	5.0	50		109	70-130	6.6	30
1,1-Dichloroethane	55.86		ug/kg	5.0	50		112	70-130	7.4	30
Surrogate: % Toluene-d8	47.76		ug/kg		50		96	70-130		
Surrogate: % Dibromofluoromethane	49.75		ug/kg		50		100	70-130		
Surrogate: % Bromofluorobenzene	47.80		ug/kg		50		96	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.47		ug/kg		50		99	70-130		
MS (CB65155-MS)				Source: SC50826-02		Prepared: Analyzed: 05-Oct-18				

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450865A - SW8260C										
MS (CB65155-MS)				Source: SC50826-02		Prepared: Analyzed: 05-Oct-18				
2-Isopropyltoluene	48.65		ug/kg	5.0	50		97	70-130		30
1,1-Dichloroethane	52.40		ug/kg	5.0	50	BRL	105	70-130		30
Acetone	40.53		ug/kg	10	50	BRL	81	70-130		30
1,3,5-Trimethylbenzene	54.22		ug/kg	1.0	50	BRL	108	70-130		30
1,3-Dichlorobenzene	55.33		ug/kg	5.0	50	BRL	111	70-130		30
1,3-Dichloropropane	46.73		ug/kg	5.0	50	BRL	93	70-130		30
1,4-Dichlorobenzene	53.91		ug/kg	5.0	50	BRL	108	70-130		30
2,2-Dichloropropane	54.07		ug/kg	5.0	50	BRL	108	70-130		30
2-Chlorotoluene	53.89		ug/kg	5.0	50	BRL	108	70-130		30
1,2-Dichloropropane	48.88		ug/kg	5.0	50	BRL	98	70-130		30
4-Chlorotoluene	54.23		ug/kg	5.0	50	BRL	108	70-130		30
2-Hexanone	35.52		ug/kg	25	50	BRL	71	70-130		30
Acrylonitrile	40.32		ug/kg	5.0	50	BRL	81	70-130		30
Benzene	48.82		ug/kg	1.0	50	BRL	98	70-130		30
Bromobenzene	53.94		ug/kg	5.0	50	BRL	108	70-130		30
Bromochloromethane	46.76		ug/kg	5.0	50	BRL	94	70-130		30
Bromodichloromethane	49.32		ug/kg	5.0	50	BRL	99	70-130		30
1,1,2,2-Tetrachloroethane	54.88		ug/kg	3.0	50	BRL	110	70-130		30
Bromoform	48.22		ug/kg	5.0	50	BRL	96	70-130		30
1,1,2-Trichloroethane	46.81		ug/kg	5.0	50	BRL	94	70-130		30
4-Methyl-2-pentanone	40.24		ug/kg	25	50	BRL	80	70-130		30
1,2-Dichloroethane	45.95		ug/kg	5.0	50	BRL	92	70-130		30
1,1,1-Trichloroethane	52.70		ug/kg	5.0	50	BRL	105	70-130		30
Bromomethane	46.75		ug/kg	5.0	50	BRL	93	70-130		30
1,1-Dichloroethene	52.03		ug/kg	5.0	50	BRL	104	70-130		30
1,1-Dichloropropene	45.40		ug/kg	5.0	50	BRL	91	70-130		30
1,2-Dibromoethane	43.67		ug/kg	5.0	50	BRL	87	70-130		30
1,2,3-Trichloropropane	51.40		ug/kg	5.0	50	BRL	103	70-130		30
1,2,4-Trichlorobenzene	56.47		ug/kg	5.0	50	BRL	113	70-130		30
1,2,4-Trimethylbenzene	54.38		ug/kg	1.0	50	BRL	109	70-130		30
1,2-Dibromo-3-chloropropane	53.50		ug/kg	5.0	50	BRL	107	70-130		30
1,2-Dichlorobenzene	54.39		ug/kg	5.0	50	BRL	109	70-130		30
1,2,3-Trichlorobenzene	53.40		ug/kg	5.0	50	BRL	107	70-130		30
1,1,1,2-Tetrachloroethane	52.20		ug/kg	5.0	50	BRL	104	70-130		30
trans-1,4-dichloro-2-butene	241.2		ug/kg	5.0	250	BRL	96	70-130		30
p-Isopropyltoluene	55.86		ug/kg	1.0	50	BRL	112	70-130		30
sec-Butylbenzene	57.70		ug/kg	1.0	50	BRL	115	70-130		30
Styrene	36.75		ug/kg	5.0	50	BRL	73	70-130		30
tert-Butylbenzene	54.56		ug/kg	1.0	50	BRL	109	70-130		30
Tetrachloroethene	44.54		ug/kg	5.0	50	BRL	89	70-130		30
Tetrahydrofuran (THF)	103.6		ug/kg	5.0	125	BRL	83	70-130		30
Toluene	45.47		ug/kg	1.0	50	BRL	91	70-130		30
o-Xylene	46.35		ug/kg	2.0	50	BRL	93	70-130		30
trans-1,3-Dichloropropene	35.76		ug/kg	5.0	50	BRL	72	70-130		30
Trichloroethene	45.62		ug/kg	5.0	50	BRL	91	70-130		30
Trichlorofluoromethane	47.08		ug/kg	5.0	50	BRL	94	70-130		30
Vinyl chloride	42.62		ug/kg	5.0	50	BRL	85	70-130		30
Carbon Disulfide	38.77		ug/kg	5.0	50	BRL	78	70-130		30
trans-1,2-Dichloroethene	44.41		ug/kg	5.0	50	BRL	89	70-130		30
Dichlorodifluoromethane	43.78		ug/kg	5.0	50	BRL	88	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450865A - SW8260C										
MS (CB65155-MS)				Source: SC50826-02			Prepared: Analyzed: 05-Oct-18			
Trichlorotrifluoroethane	46.76		ug/kg	5.0	50	BRL	94	70-130		30
Chlorobenzene	41.28		ug/kg	5.0	50	BRL	83	70-130		30
Carbon tetrachloride	47.77		ug/kg	5.0	50	BRL	96	70-130		30
Chloroethane	47.73		ug/kg	5.0	50	BRL	95	70-130		30
Chloroform	49.83		ug/kg	5.0	50	BRL	100	70-130		30
cis-1,2-Dichloroethene	45.37		ug/kg	5.0	50	BRL	91	70-130		30
Dibromochloromethane	51.41		ug/kg	3.0	50	BRL	103	70-130		30
n-Propylbenzene	54.69		ug/kg	1.0	50	BRL	109	70-130		30
Dibromomethane	42.84		ug/kg	5.0	50	BRL	86	70-130		30
cis-1,3-Dichloropropene	40.97		ug/kg	5.0	50	BRL	82	70-130		30
Ethylbenzene	45.46		ug/kg	1.0	50	BRL	91	70-130		30
Hexachlorobutadiene	60.19		ug/kg	5.0	50	BRL	120	70-130		30
Isopropylbenzene	53.72		ug/kg	1.0	50	BRL	107	70-130		30
m&p-Xylene	89.02		ug/kg	2.0	100	BRL	89	70-130		30
Methyl Ethyl Ketone	36.94		ug/kg	5.0	50	BRL	74	70-130		30
Methyl t-butyl ether (MTBE)	52.48		ug/kg	1.0	50	BRL	105	70-130		30
Methylene chloride	58.31		ug/kg	5.0	50	BRL	117	70-130		30
Naphthalene	53.59		ug/kg	5.0	50	BRL	107	70-130		30
n-Butylbenzene	56.38		ug/kg	1.0	50	BRL	113	70-130		30
Chloromethane	39.35		ug/kg	5.0	50	BRL	79	70-130		30
Surrogate: % 1,2-dichlorobenzene-d4	50.19		ug/kg		50		100	70-130		
Surrogate: % Bromofluorobenzene	45.28		ug/kg		50		91	70-130		
Surrogate: % Toluene-d8	47.57		ug/kg		50		95	70-130		
Surrogate: % Dibromofluoromethane	49.36		ug/kg		50		99	70-130		
Batch 450877A - SW8260C										
BLK (CB65162-BLK)							Prepared: Analyzed: 06-Oct-18			
2-Isopropyltoluene	ND		ug/L	1.0			ND	-		
4-Chlorotoluene	ND		ug/L	1.0			ND	-		
2,2-Dichloropropane	ND		ug/L	1.0			ND	-		
2-Chlorotoluene	ND		ug/L	1.0			ND	-		
2-Hexanone	ND		ug/L	5.0			ND	-		
1,3-Dichloropropane	ND		ug/L	1.0			ND	-		
1,4-Dichlorobenzene	ND		ug/L	1.0			ND	-		
4-Methyl-2-pentanone	ND		ug/L	5.0			ND	-		
Acetone	ND		ug/L	5.0			ND	-		
Acrylonitrile	ND		ug/L	5.0			ND	-		
Benzene	ND		ug/L	0.70			ND	-		
Bromobenzene	ND		ug/L	1.0			ND	-		
Bromochloromethane	ND		ug/L	1.0			ND	-		
Bromoform	ND		ug/L	1.0			ND	-		
1,3-Dichlorobenzene	ND		ug/L	1.0			ND	-		
Bromodichloromethane	ND		ug/L	0.50			ND	-		
1,2,3-Trichloropropane	ND		ug/L	1.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/L	0.40			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/L	1.0			ND	-		
Bromomethane	ND		ug/L	1.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50			ND	-		
1,1,2-Trichloroethane	ND		ug/L	1.0			ND	-		
1,1-Dichloroethane	ND		ug/L	1.0			ND	-		
1,1-Dichloroethene	ND		ug/L	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450877A - SW8260C										
BLK (CB65162-BLK)	Prepared: Analyzed: 06-Oct-18									
1,1,1-Trichloroethane	ND		ug/L	1.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/L	1.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/L	1.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/L	1.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/L	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/L	1.0			ND	-		
1,2-Dibromoethane	ND		ug/L	1.0			ND	-		
1,2-Dichlorobenzene	ND		ug/L	1.0			ND	-		
1,2-Dichloroethane	ND		ug/L	1.0			ND	-		
1,2-Dichloropropane	ND		ug/L	1.0			ND	-		
1,1-Dichloropropene	ND		ug/L	1.0			ND	-		
Carbon Disulfide	ND		ug/L	1.0			ND	-		
o-Xylene	ND		ug/L	1.0			ND	-		
p-Isopropyltoluene	ND		ug/L	1.0			ND	-		
sec-Butylbenzene	ND		ug/L	1.0			ND	-		
Styrene	ND		ug/L	1.0			ND	-		
tert-Butylbenzene	ND		ug/L	1.0			ND	-		
Tetrachloroethene	ND		ug/L	1.0			ND	-		
n-Propylbenzene	ND		ug/L	1.0			ND	-		
Toluene	ND		ug/L	1.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/L	1.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/L	0.40			ND	-		
Chloromethane	ND		ug/L	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/L	5.0			ND	-		
Trichloroethene	ND		ug/L	1.0			ND	-		
Trichlorofluoromethane	ND		ug/L	1.0			ND	-		
Trichlorotrifluoroethane	ND		ug/L	1.0			ND	-		
Vinyl chloride	ND		ug/L	1.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/L	2.5			ND	-		
Ethylbenzene	ND		ug/L	1.0			ND	-		
Carbon tetrachloride	ND		ug/L	1.0			ND	-		
Chlorobenzene	ND		ug/L	1.0			ND	-		
Chloroethane	ND		ug/L	1.0			ND	-		
Chloroform	ND		ug/L	1.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/L	1.0			ND	-		
Dibromochloromethane	ND		ug/L	0.50			ND	-		
n-Butylbenzene	ND		ug/L	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/L	1.0			ND	-		
Hexachlorobutadiene	ND		ug/L	0.40			ND	-		
Isopropylbenzene	ND		ug/L	1.0			ND	-		
m&p-Xylene	ND		ug/L	1.0			ND	-		
Methyl ethyl ketone	ND		ug/L	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/L	1.0			ND	-		
Methylene chloride	ND		ug/L	1.0			ND	-		
Naphthalene	ND		ug/L	1.0			ND	-		
Dibromomethane	ND		ug/L	1.0			ND	-		
Surrogate: % Dibromofluoromethane	97		ug/L		10		97	70-130		
Surrogate: % Bromofluorobenzene	89		ug/L		10		89	70-130		
Surrogate: % Toluene-d8	92		ug/L		10		92	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	94		ug/L		10		94	70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450877A - SW8260C										
LCS (CB65162-LCS)	Prepared: Analyzed: 06-Oct-18									
2-Isopropyltoluene	8.736		ug/L	1.0	10		87	70-130		30
Toluene	9.887		ug/L	1.0	10		99	70-130		30
n-Butylbenzene	10.20		ug/L	1.0	10		102	70-130		30
Naphthalene	11.66		ug/L	1.0	10		117	70-130		30
o-Xylene	10.79		ug/L	1.0	10		108	70-130		30
p-Isopropyltoluene	10.15		ug/L	1.0	10		102	70-130		30
sec-Butylbenzene	10.32		ug/L	1.0	10		103	70-130		30
Styrene	10.81		ug/L	1.0	10		108	70-130		30
tert-Butylbenzene	10.22		ug/L	1.0	10		102	70-130		30
Tetrahydrofuran (THF)	22.41		ug/L	2.5	25		90	70-130		30
trans-1,2-Dichloroethene	10.94		ug/L	1.0	10		109	70-130		30
trans-1,3-Dichloropropene	9.974		ug/L	0.40	10		100	70-130		30
trans-1,4-dichloro-2-butene	47.87		ug/L	5.0	50		96	70-130		30
Trichloroethene	9.683		ug/L	1.0	10		97	70-130		30
Trichlorofluoromethane	8.869		ug/L	1.0	10		89	70-130		30
Trichlorotrifluoroethane	9.165		ug/L	1.0	10		92	70-130		30
Vinyl chloride	10.49		ug/L	1.0	10		105	70-130		30
Tetrachloroethene	9.373		ug/L	1.0	10		94	70-130		30
4-Methyl-2-pentanone	8.316		ug/L	5.0	10		83	70-130		30
1,2,4-Trimethylbenzene	10.79		ug/L	1.0	10		108	70-130		30
1,2-Dibromo-3-chloropropane	11.62		ug/L	1.0	10		116	70-130		30
1,2-Dibromoethane	10.56		ug/L	1.0	10		106	70-130		30
1,2-Dichlorobenzene	10.81		ug/L	1.0	10		108	70-130		30
1,2-Dichloroethane	9.745		ug/L	1.0	10		97	70-130		30
1,2-Dichloropropane	10.41		ug/L	1.0	10		104	70-130		30
1,3,5-Trimethylbenzene	10.49		ug/L	1.0	10		105	70-130		30
1,3-Dichlorobenzene	10.78		ug/L	1.0	10		108	70-130		30
1,4-Dichlorobenzene	10.61		ug/L	1.0	10		106	70-130		30
2-Chlorotoluene	10.85		ug/L	1.0	10		108	70-130		30
1,2,4-Trichlorobenzene	10.81		ug/L	1.0	10		108	70-130		30
4-Chlorotoluene	10.75		ug/L	1.0	10		108	70-130		30
1,3-Dichloropropane	10.95		ug/L	1.0	10		110	70-130		30
Acetone	7.593		ug/L	5.0	10		76	70-130		30
Acrylonitrile	9.229		ug/L	5.0	10		92	70-130		30
Benzene	10.18		ug/L	0.70	10		102	70-130		30
Bromobenzene	10.98		ug/L	1.0	10		110	70-130		30
Bromochloromethane	11.07		ug/L	1.0	10		111	70-130		30
Bromodichloromethane	10.05		ug/L	0.50	10		101	70-130		30
Bromoform	10.11		ug/L	1.0	10		101	70-130		30
Bromomethane	7.970		ug/L	1.0	10		80	70-130		30
Methylene chloride	11.35		ug/L	1.0	10		114	70-130		30
n-Propylbenzene	10.31		ug/L	1.0	10		103	70-130		30
1,1,1,2-Tetrachloroethane	10.10		ug/L	1.0	10		101	70-130		30
2-Hexanone	8.384		ug/L	5.0	10		84	70-130		30
Hexachlorobutadiene	9.886		ug/L	0.40	10		99	70-130		30
Methyl t-butyl ether (MTBE)	9.852		ug/L	1.0	10		99	70-130		30
Methyl ethyl ketone	8.741		ug/L	5.0	10		87	70-130		30
m&p-Xylene	20.86		ug/L	1.0	20		104	70-130		30
2,2-Dichloropropane	10.08		ug/L	1.0	10		101	70-130		30
Isopropylbenzene	10.70		ug/L	1.0	10		107	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450877A - SW8260C										
LCS (CB65162-LCS)					Prepared: Analyzed: 06-Oct-18					
1,2,3-Trichloropropane	11.10		ug/L	1.0	10		111	70-130		30
Ethylbenzene	10.22		ug/L	1.0	10		102	70-130		30
Dichlorodifluoromethane	11.09		ug/L	1.0	10		111	70-130		30
Dibromomethane	10.43		ug/L	1.0	10		104	70-130		30
Dibromochloromethane	10.95		ug/L	0.50	10		110	70-130		30
cis-1,3-Dichloropropene	10.27		ug/L	0.40	10		103	70-130		30
cis-1,2-Dichloroethene	10.70		ug/L	1.0	10		107	70-130		30
Chloromethane	8.553		ug/L	1.0	10		86	70-130		30
Chloroethane	9.776		ug/L	1.0	10		98	70-130		30
Chlorobenzene	10.53		ug/L	1.0	10		105	70-130		30
1,1-Dichloropropene	10.00		ug/L	1.0	10		100	70-130		30
Carbon tetrachloride	9.573		ug/L	1.0	10		96	70-130		30
1,1-Dichloroethene	11.81		ug/L	1.0	10		118	70-130		30
Carbon Disulfide	10.10		ug/L	1.0	10		101	70-130		30
1,1,1-Trichloroethane	9.500		ug/L	1.0	10		95	70-130		30
1,1,2,2-Tetrachloroethane	11.88		ug/L	0.50	10		119	70-130		30
1,1,2-Trichloroethane	10.11		ug/L	1.0	10		101	70-130		30
1,1-Dichloroethane	10.74		ug/L	1.0	10		107	70-130		30
Chloroform	9.671		ug/L	1.0	10		97	70-130		30
1,2,3-Trichlorobenzene	10.53		ug/L	1.0	10		105	70-130		30
Surrogate: % Dibromofluoromethane	9.191		ug/L		10		92	70-130		
Surrogate: % Toluene-d8	9.758		ug/L		10		98	70-130		
Surrogate: % Bromofluorobenzene	9.448		ug/L		10		94	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	9.620		ug/L		10		96	70-130		
LCSD (CB65162-LCSD)					Prepared: Analyzed: 06-Oct-18					
2-Isopropyltoluene	10.41		ug/L	1.0	10		104	70-130	17.8	30
1,2-Dibromoethane	11.83		ug/L	1.0	10		118	70-130	10.7	30
1,2-Dibromo-3-chloropropane	13.85	I	ug/L	1.0	10		139	70-130	18.0	30
1,1,1-Trichloroethane	11.37		ug/L	1.0	10		114	70-130	18.2	30
1,2,4-Trimethylbenzene	12.31		ug/L	1.0	10		123	70-130	13.0	30
1,2-Dichlorobenzene	12.47		ug/L	1.0	10		125	70-130	14.6	30
1,2,4-Trichlorobenzene	12.97		ug/L	1.0	10		130	70-130	18.5	30
1,2-Dichloroethane	11.58		ug/L	1.0	10		116	70-130	17.8	30
1,2,3-Trichloropropane	12.40		ug/L	1.0	10		124	70-130	11.1	30
1,1-Dichloropropene	11.96		ug/L	1.0	10		120	70-130	18.2	30
1,1-Dichloroethane	12.59		ug/L	1.0	10		126	70-130	16.3	30
1,1,2,2-Tetrachloroethane	13.78	I	ug/L	0.50	10		138	70-130	14.8	30
1,1,1,2-Tetrachloroethane	11.65		ug/L	1.0	10		116	70-130	13.8	30
Acetone	8.639		ug/L	5.0	10		86	70-130	12.3	30
1,2-Dichloropropane	12.70		ug/L	1.0	10		127	70-130	19.9	30
1,1,2-Trichloroethane	12.53		ug/L	1.0	10		125	70-130	21.2	30
Styrene	12.24		ug/L	1.0	10		122	70-130	12.2	30
Hexachlorobutadiene	11.42		ug/L	0.40	10		114	70-130	14.1	30
Isopropylbenzene	12.42		ug/L	1.0	10		124	70-130	14.7	30
m&p-Xylene	24.09		ug/L	1.0	20		120	70-130	14.3	30
Methyl ethyl ketone	11.53		ug/L	5.0	10		115	70-130	27.7	30
Methyl t-butyl ether (MTBE)	12.23		ug/L	1.0	10		122	70-130	20.8	30
Methylene chloride	12.97		ug/L	1.0	10		130	70-130	13.1	30
Naphthalene	14.54	I	ug/L	1.0	10		145	70-130	21.4	30
n-Butylbenzene	12.84		ug/L	1.0	10		128	70-130	22.6	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450877A - SW8260C										
LCSD (CB65162-LCSD)	Prepared: Analyzed: 06-Oct-18									
n-Propylbenzene	12.37		ug/L	1.0	10		124	70-130	18.5	30
o-Xylene	12.49		ug/L	1.0	10		125	70-130	14.6	30
4-Chlorotoluene	12.14		ug/L	1.0	10		121	70-130	11.4	30
sec-Butylbenzene	13.04		ug/L	1.0	10		130	70-130	23.2	30
Dibromomethane	12.42		ug/L	1.0	10		124	70-130	17.5	30
tert-Butylbenzene	12.57		ug/L	1.0	10		126	70-130	21.1	30
Tetrachloroethene	11.78		ug/L	1.0	10		118	70-130	22.6	30
Tetrahydrofuran (THF)	27.97		ug/L	2.5	25		112	70-130	21.8	30
Toluene	12.08		ug/L	1.0	10		121	70-130	20.0	30
trans-1,2-Dichloroethene	12.78		ug/L	1.0	10		128	70-130	16.0	30
trans-1,3-Dichloropropene	12.28		ug/L	0.40	10		123	70-130	20.6	30
trans-1,4-dichloro-2-butene	57.49		ug/L	5.0	50		115	70-130	18.0	30
Trichloroethene	11.46		ug/L	1.0	10		115	70-130	17.0	30
Trichlorofluoromethane	10.31		ug/L	1.0	10		103	70-130	14.6	30
Trichlorotrifluoroethane	10.52		ug/L	1.0	10		105	70-130	13.2	30
Vinyl chloride	12.31		ug/L	1.0	10		123	70-130	15.8	30
p-Isopropyltoluene	12.62		ug/L	1.0	10		126	70-130	21.1	30
Bromoform	11.88		ug/L	1.0	10		119	70-130	16.4	30
1,3-Dichlorobenzene	12.21		ug/L	1.0	10		122	70-130	12.2	30
1,3-Dichloropropane	12.60		ug/L	1.0	10		126	70-130	13.6	30
1,4-Dichlorobenzene	12.02		ug/L	1.0	10		120	70-130	12.4	30
2,2-Dichloropropane	11.73		ug/L	1.0	10		117	70-130	14.7	30
2-Chlorotoluene	12.44		ug/L	1.0	10		124	70-130	13.8	30
2-Hexanone	10.41		ug/L	5.0	10		104	70-130	21.3	30
4-Methyl-2-pentanone	11.12		ug/L	5.0	10		111	70-130	28.9	30
1,1-Dichloroethene	13.50	I	ug/L	1.0	10		135	70-130	13.4	30
Acrylonitrile	10.94		ug/L	5.0	10		109	70-130	16.9	30
Benzene	12.16		ug/L	0.70	10		122	70-130	17.9	30
Bromobenzene	12.46		ug/L	1.0	10		125	70-130	12.8	30
Ethylbenzene	11.79		ug/L	1.0	10		118	70-130	14.5	30
Bromodichloromethane	12.20		ug/L	0.50	10		122	70-130	18.8	30
Dichlorodifluoromethane	13.01		ug/L	1.0	10		130	70-130	15.8	30
Bromomethane	9.266		ug/L	1.0	10		93	70-130	15.0	30
Carbon Disulfide	11.77		ug/L	1.0	10		118	70-130	15.5	30
Carbon tetrachloride	11.46		ug/L	1.0	10		115	70-130	18.0	30
Chlorobenzene	11.94		ug/L	1.0	10		119	70-130	12.5	30
Chloroethane	10.98		ug/L	1.0	10		110	70-130	11.5	30
Chloroform	12.38		ug/L	1.0	10		124	70-130	24.4	30
Chloromethane	10.03		ug/L	1.0	10		100	70-130	15.1	30
cis-1,2-Dichloroethene	12.77		ug/L	1.0	10		128	70-130	17.9	30
cis-1,3-Dichloropropene	12.49		ug/L	0.40	10		125	70-130	19.3	30
Dibromochloromethane	12.91		ug/L	0.50	10		129	70-130	15.9	30
1,3,5-Trimethylbenzene	12.15		ug/L	1.0	10		122	70-130	15.0	30
Bromochloromethane	12.80		ug/L	1.0	10		128	70-130	14.2	30
1,2,3-Trichlorobenzene	13.27	I	ug/L	1.0	10		133	70-130	23.5	30
Surrogate: % 1,2-dichlorobenzene-d4	9.984		ug/L		10		100	70-130		
Surrogate: % Bromofluorobenzene	9.486		ug/L		10		95	70-130		
Surrogate: % Dibromofluoromethane	9.228		ug/L		10		92	70-130		
Surrogate: % Toluene-d8	9.861		ug/L		10		99	70-130		

Batch 450998A - SW8260C

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
BLK (CB66877-BLK)	Prepared: Analyzed: 08-Oct-18									
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
BLK (CB66877-BLK)	Prepared: Analyzed: 08-Oct-18									
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
Surrogate: % Toluene-d8	86		ug/kg		50		86	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	95		ug/kg		50		95	70-130		
Surrogate: % Dibromofluoromethane	106		ug/kg		50		106	70-130		
Surrogate: % Bromofluorobenzene	102		ug/kg		50		102	70-130		
LCS (CB66877-LCS)	Prepared: Analyzed: 08-Oct-18									
2-Isopropyltoluene	50.68		ug/kg	5.0	50		101	70-130		30
1,2-Dibromo-3-chloropropane	55.27		ug/kg	5.0	50		111	70-130		30
1,2,4-Trimethylbenzene	53.02		ug/kg	1.0	50		106	70-130		30
1,2-Dibromoethane	53.54		ug/kg	5.0	50		107	70-130		30
1,2,4-Trichlorobenzene	54.76		ug/kg	5.0	50		110	70-130		30
1,2,3-Trichloropropane	51.67		ug/kg	5.0	50		103	70-130		30
1,2,3-Trichlorobenzene	55.36		ug/kg	5.0	50		111	70-130		30
1,1-Dichloropropene	58.26		ug/kg	5.0	50		117	70-130		30
1,1-Dichloroethene	61.02		ug/kg	5.0	50		122	70-130		30
1,1-Dichloroethane	58.54		ug/kg	5.0	50		117	70-130		30
1,1,2-Trichloroethane	56.83		ug/kg	5.0	50		114	70-130		30
1,1,2,2-Tetrachloroethane	57.09		ug/kg	3.0	50		114	70-130		30
1,1,1,2-Tetrachloroethane	51.19		ug/kg	5.0	50		102	70-130		30
Vinyl chloride	61.27		ug/kg	5.0	50		123	70-130		30
1,2-Dichlorobenzene	56.83		ug/kg	5.0	50		114	70-130		30
Chlorobenzene	54.76		ug/kg	5.0	50		110	70-130		30
1,1,1-Trichloroethane	57.03		ug/kg	5.0	50		114	70-130		30
sec-Butylbenzene	57.55		ug/kg	1.0	50		115	70-130		30
Carbon Disulfide	51.27		ug/kg	5.0	50		103	70-130		30
Ethylbenzene	54.27		ug/kg	1.0	50		109	70-130		30
Hexachlorobutadiene	56.18		ug/kg	5.0	50		112	70-130		30
Isopropylbenzene	54.75		ug/kg	1.0	50		109	70-130		30
m&p-Xylene	102.8		ug/kg	2.0	100		103	70-130		30
Methyl Ethyl Ketone	47.05		ug/kg	5.0	50		94	70-130		30
Methyl t-butyl ether (MTBE)	53.17		ug/kg	1.0	50		106	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8260C</u>										
Batch 450998A - SW8260C										
<u>LCS (CB66877-LCS)</u>	Prepared: Analyzed: 08-Oct-18									
Methylene chloride	52.85		ug/kg	5.0	50		106	70-130		30
Naphthalene	58.18		ug/kg	5.0	50		116	70-130		30
n-Butylbenzene	57.34		ug/kg	1.0	50		115	70-130		30
n-Propylbenzene	55.11		ug/kg	1.0	50		110	70-130		30
Dibromomethane	58.48		ug/kg	5.0	50		117	70-130		30
p-Isopropyltoluene	55.42		ug/kg	1.0	50		111	70-130		30
Dibromochloromethane	57.60		ug/kg	3.0	50		115	70-130		30
Styrene	51.06		ug/kg	5.0	50		102	70-130		30
tert-Butylbenzene	55.62		ug/kg	1.0	50		111	70-130		30
Tetrachloroethene	59.89		ug/kg	5.0	50		120	70-130		30
Tetrahydrofuran (THF)	118.0		ug/kg	5.0	125		94	70-130		30
Toluene	57.62		ug/kg	1.0	50		115	70-130		30
trans-1,2-Dichloroethene	59.65		ug/kg	5.0	50		119	70-130		30
trans-1,3-Dichloropropene	55.11		ug/kg	5.0	50		110	70-130		30
trans-1,4-dichloro-2-butene	248.8		ug/kg	5.0	250		100	70-130		30
Trichloroethene	56.07		ug/kg	5.0	50		112	70-130		30
Trichlorofluoromethane	59.05		ug/kg	5.0	50		118	70-130		30
Trichlorotrifluoroethane	52.84		ug/kg	5.0	50		106	70-130		30
o-Xylene	54.40		ug/kg	2.0	50		109	70-130		30
Bromobenzene	57.22		ug/kg	5.0	50		114	70-130		30
1,2-Dichloropropane	54.41		ug/kg	5.0	50		109	70-130		30
1,3,5-Trimethylbenzene	53.08		ug/kg	1.0	50		106	70-130		30
1,3-Dichlorobenzene	54.05		ug/kg	5.0	50		108	70-130		30
1,3-Dichloropropane	52.12		ug/kg	5.0	50		104	70-130		30
1,4-Dichlorobenzene	56.43		ug/kg	5.0	50		113	70-130		30
2,2-Dichloropropane	59.00		ug/kg	5.0	50		118	70-130		30
2-Chlorotoluene	55.20		ug/kg	5.0	50		110	70-130		30
2-Hexanone	44.49		ug/kg	25	50		89	70-130		30
4-Chlorotoluene	54.68		ug/kg	5.0	50		109	70-130		30
4-Methyl-2-pentanone	48.99		ug/kg	25	50		98	70-130		30
Acetone	43.89		ug/kg	10	50		88	70-130		30
Dichlorodifluoromethane	60.04		ug/kg	5.0	50		120	70-130		30
Benzene	55.25		ug/kg	1.0	50		110	70-130		30
1,2-Dichloroethane	55.99		ug/kg	5.0	50		112	70-130		30
Bromochloromethane	55.17		ug/kg	5.0	50		110	70-130		30
Bromodichloromethane	57.49		ug/kg	5.0	50		115	70-130		30
Bromoform	53.08		ug/kg	5.0	50		106	70-130		30
Bromomethane	59.79		ug/kg	5.0	50		120	70-130		30
Carbon tetrachloride	56.16		ug/kg	5.0	50		112	70-130		30
Chloroethane	56.57		ug/kg	5.0	50		113	70-130		30
Chloroform	56.19		ug/kg	5.0	50		112	70-130		30
Chloromethane	53.87		ug/kg	5.0	50		108	70-130		30
cis-1,2-Dichloroethene	59.73		ug/kg	5.0	50		119	70-130		30
cis-1,3-Dichloropropene	57.87		ug/kg	5.0	50		116	70-130		30
Acrylonitrile	48.51		ug/kg	5.0	50		97	70-130		30
Surrogate: % Dibromofluoromethane	50.34		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	51.52		ug/kg		50		103	70-130		
Surrogate: % Bromofluorobenzene	49.17		ug/kg		50		98	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.13		ug/kg		50		100	70-130		
<u>LCSD (CB66877-LCSD)</u>										
Prepared: Analyzed: 08-Oct-18										

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
LCSD (CB66877-LCSD)	Prepared: Analyzed: 08-Oct-18									
2-Isopropyltoluene	49.70		ug/kg	5.0	50		99	70-130	2.0	30
Acetone	43.20		ug/kg	10	50		86	70-130	2.3	30
1,3-Dichlorobenzene	53.69		ug/kg	5.0	50		107	70-130	0.9	30
1,3-Dichloropropane	51.31		ug/kg	5.0	50		103	70-130	1.0	30
1,4-Dichlorobenzene	55.02		ug/kg	5.0	50		110	70-130	2.7	30
2,2-Dichloropropane	61.83		ug/kg	5.0	50		124	70-130	5.0	30
2-Chlorotoluene	53.74		ug/kg	5.0	50		107	70-130	2.8	30
2-Hexanone	44.99		ug/kg	25	50		90	70-130	1.1	30
Bromodichloromethane	57.45		ug/kg	5.0	50		115	70-130	0.0	30
4-Methyl-2-pentanone	48.21		ug/kg	25	50		96	70-130	2.1	30
1,2-Dichloroethane	56.13		ug/kg	5.0	50		112	70-130	0.0	30
Acrylonitrile	52.62		ug/kg	5.0	50		105	70-130	7.9	30
Benzene	55.34		ug/kg	1.0	50		111	70-130	0.9	30
Bromobenzene	56.59		ug/kg	5.0	50		113	70-130	0.9	30
Vinyl chloride	63.50		ug/kg	5.0	50		127	70-130	3.2	30
4-Chlorotoluene	54.65		ug/kg	5.0	50		109	70-130	0.0	30
1,2,3-Trichloropropane	50.01		ug/kg	5.0	50		100	70-130	3.0	30
1,1,1,2-Tetrachloroethane	52.05		ug/kg	5.0	50		104	70-130	1.9	30
1,1,1-Trichloroethane	60.66		ug/kg	5.0	50		121	70-130	6.0	30
1,1,2,2-Tetrachloroethane	55.78		ug/kg	3.0	50		112	70-130	1.8	30
1,1,2-Trichloroethane	56.98		ug/kg	5.0	50		114	70-130	0.0	30
1,1-Dichloroethane	59.74		ug/kg	5.0	50		119	70-130	1.7	30
1,1-Dichloroethene	59.91		ug/kg	5.0	50		120	70-130	1.7	30
1,3,5-Trimethylbenzene	52.96		ug/kg	1.0	50		106	70-130	0.0	30
1,2,3-Trichlorobenzene	55.31		ug/kg	5.0	50		111	70-130	0.0	30
1,2-Dichloropropane	55.17		ug/kg	5.0	50		110	70-130	0.9	30
1,2,4-Trichlorobenzene	55.19		ug/kg	5.0	50		110	70-130	0.0	30
1,2,4-Trimethylbenzene	53.22		ug/kg	1.0	50		106	70-130	0.0	30
1,2-Dibromo-3-chloropropane	53.97		ug/kg	5.0	50		108	70-130	2.7	30
1,2-Dibromoethane	54.47		ug/kg	5.0	50		109	70-130	1.9	30
1,2-Dichlorobenzene	56.75		ug/kg	5.0	50		113	70-130	0.9	30
Trichlorotrifluoroethane	54.48		ug/kg	5.0	50		109	70-130	2.8	30
1,1-Dichloropropene	59.59		ug/kg	5.0	50		119	70-130	1.7	30
Chloromethane	56.46		ug/kg	5.0	50		113	70-130	4.5	30
Isopropylbenzene	54.62		ug/kg	1.0	50		109	70-130	0.0	30
Bromochloromethane	56.92		ug/kg	5.0	50		114	70-130	3.6	30
Ethylbenzene	54.15		ug/kg	1.0	50		108	70-130	0.9	30
Dichlorodifluoromethane	64.28		ug/kg	5.0	50		129	70-130	7.2	30
Dibromomethane	57.99		ug/kg	5.0	50		116	70-130	0.9	30
Dibromochloromethane	56.48		ug/kg	3.0	50		113	70-130	1.8	30
Trichlorofluoromethane	60.61		ug/kg	5.0	50		121	70-130	2.5	30
cis-1,2-Dichloroethene	60.02		ug/kg	5.0	50		120	70-130	0.8	30
m&p-Xylene	103.0		ug/kg	2.0	100		103	70-130	0.0	30
Chloroform	57.77		ug/kg	5.0	50		116	70-130	3.5	30
Chloroethane	57.97		ug/kg	5.0	50		116	70-130	2.6	30
Chlorobenzene	54.51		ug/kg	5.0	50		109	70-130	0.9	30
Carbon tetrachloride	57.44		ug/kg	5.0	50		115	70-130	2.6	30
Carbon Disulfide	52.90		ug/kg	5.0	50		106	70-130	2.9	30
Bromomethane	61.79		ug/kg	5.0	50		124	70-130	3.3	30
Bromoform	53.74		ug/kg	5.0	50		107	70-130	0.9	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
LCSD (CB66877-LCSD)					Prepared: Analyzed: 08-Oct-18					
cis-1,3-Dichloropropene	59.34		ug/kg	5.0	50		119	70-130	2.6	30
tert-Butylbenzene	54.64		ug/kg	1.0	50		109	70-130	1.8	30
Trichloroethene	57.48		ug/kg	5.0	50		115	70-130	2.6	30
trans-1,4-dichloro-2-butene	243.4		ug/kg	5.0	250		97	70-130	3.0	30
trans-1,3-Dichloropropene	55.34		ug/kg	5.0	50		111	70-130	0.9	30
trans-1,2-Dichloroethene	60.44		ug/kg	5.0	50		121	70-130	1.7	30
Toluene	58.38		ug/kg	1.0	50		117	70-130	1.7	30
Hexachlorobutadiene	57.53		ug/kg	5.0	50		115	70-130	2.6	30
Tetrachloroethene	61.89		ug/kg	5.0	50		124	70-130	3.3	30
Methyl Ethyl Ketone	46.30		ug/kg	5.0	50		93	70-130	1.1	30
Styrene	51.37		ug/kg	5.0	50		103	70-130	1.0	30
sec-Butylbenzene	55.51		ug/kg	1.0	50		111	70-130	3.5	30
p-Isopropyltoluene	55.05		ug/kg	1.0	50		110	70-130	0.9	30
o-Xylene	54.42		ug/kg	2.0	50		109	70-130	0.0	30
n-Propylbenzene	56.09		ug/kg	1.0	50		112	70-130	1.8	30
n-Butylbenzene	58.09		ug/kg	1.0	50		116	70-130	0.9	30
Naphthalene	56.55		ug/kg	5.0	50		113	70-130	2.6	30
Methylene chloride	53.07		ug/kg	5.0	50		106	70-130	0.0	30
Methyl t-butyl ether (MTBE)	53.86		ug/kg	1.0	50		108	70-130	1.9	30
Tetrahydrofuran (THF)	117.3		ug/kg	5.0	125		94	70-130	0.0	30
Surrogate: % Toluene-d8	51.47		ug/kg		50		103	70-130		
Surrogate: % Dibromofluoromethane	51.44		ug/kg		50		103	70-130		
Surrogate: % Bromofluorobenzene	49.42		ug/kg		50		99	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.76		ug/kg		50		100	70-130		
MS (CB66877-MS)					Source: CB66877 Prepared: Analyzed: 08-Oct-18					
2-Isopropyltoluene	49.57		ug/kg	5.0	50		99	70-130		30
Chloroethane	30.55	m	ug/kg	5.0	50		61	70-130		30
Chlorobenzene	52.27		ug/kg	5.0	50		105	70-130		30
Carbon tetrachloride	51.35		ug/kg	5.0	50		103	70-130		30
Carbon Disulfide	41.25		ug/kg	5.0	50		82	70-130		30
Chloroform	50.03		ug/kg	5.0	50		100	70-130		30
Bromoform	50.48		ug/kg	5.0	50		101	70-130		30
Hexachlorobutadiene	58.46		ug/kg	5.0	50		117	70-130		30
Bromodichloromethane	54.46		ug/kg	5.0	50		109	70-130		30
Bromomethane	37.73		ug/kg	5.0	50		75	70-130		30
Chloromethane	49.95		ug/kg	5.0	50		100	70-130		30
cis-1,2-Dichloroethene	52.98		ug/kg	5.0	50		106	70-130		30
cis-1,3-Dichloropropene	55.26		ug/kg	5.0	50		111	70-130		30
Dibromochloromethane	53.45		ug/kg	3.0	50		107	70-130		30
Dibromomethane	54.59		ug/kg	5.0	50		109	70-130		30
Ethylbenzene	51.72		ug/kg	1.0	50		103	70-130		30
Isopropylbenzene	54.07		ug/kg	1.0	50		108	70-130		30
m&p-Xylene	100.7		ug/kg	2.0	100		99	70-130		30
Methyl Ethyl Ketone	48.74		ug/kg	5.0	50		97	70-130		30
Methyl t-butyl ether (MTBE)	49.12		ug/kg	1.0	50		98	70-130		30
Methylene chloride	46.05		ug/kg	5.0	50		92	70-130		30
Naphthalene	58.52		ug/kg	5.0	50		111	70-130		30
Bromochloromethane	49.86		ug/kg	5.0	50		100	70-130		30
1,2,4-Trimethylbenzene	51.26		ug/kg	1.0	50		103	70-130		30
Dichlorodifluoromethane	51.73		ug/kg	5.0	50		103	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
MS (CB66877-MS)				Source: CB66877			Prepared: Analyzed: 08-Oct-18			
1,2-Dichloropropane	52.94		ug/kg	5.0	50		106	70-130		30
1,1,1,2-Tetrachloroethane	50.11		ug/kg	5.0	50		100	70-130		30
1,1,1-Trichloroethane	54.14		ug/kg	5.0	50		108	70-130		30
1,1,2,2-Tetrachloroethane	56.51		ug/kg	3.0	50		113	70-130		30
1,1,2-Trichloroethane	56.89		ug/kg	5.0	50		114	70-130		30
1,1-Dichloroethane	51.82		ug/kg	5.0	50		104	70-130		30
1,1-Dichloroethene	49.15		ug/kg	5.0	50		98	70-130		30
1,1-Dichloropropene	57.64		ug/kg	5.0	50		115	70-130		30
1,2,3-Trichlorobenzene	54.26		ug/kg	5.0	50		109	70-130		30
1,2,3-Trichloropropane	49.15		ug/kg	5.0	50		98	70-130		30
1,2,4-Trichlorobenzene	51.52		ug/kg	5.0	50		103	70-130		30
o-Xylene	53.22		ug/kg	2.0	50		106	70-130		30
1,2-Dibromo-3-chloropropane	58.46		ug/kg	5.0	50		117	70-130		30
1,2-Dibromoethane	52.72		ug/kg	5.0	50		105	70-130		30
1,2-Dichloroethane	53.34		ug/kg	5.0	50		107	70-130		30
Bromobenzene	56.19		ug/kg	5.0	50		112	70-130		30
1,3,5-Trimethylbenzene	52.34		ug/kg	1.0	50		105	70-130		30
1,3-Dichlorobenzene	52.67		ug/kg	5.0	50		105	70-130		30
1,3-Dichloropropane	49.72		ug/kg	5.0	50		99	70-130		30
1,4-Dichlorobenzene	54.24		ug/kg	5.0	50		108	70-130		30
2,2-Dichloropropane	54.20		ug/kg	5.0	50		108	70-130		30
2-Chlorotoluene	54.02		ug/kg	5.0	50		108	70-130		30
2-Hexanone	46.71		ug/kg	25	50		93	70-130		30
4-Chlorotoluene	52.61		ug/kg	5.0	50		105	70-130		30
4-Methyl-2-pentanone	49.71		ug/kg	25	50		99	70-130		30
Acetone	35.57	m	ug/kg	10	50		53	70-130		30
Acrylonitrile	49.05		ug/kg	5.0	50		98	70-130		30
Benzene	53.71		ug/kg	1.0	50		106	70-130		30
1,2-Dichlorobenzene	56.30		ug/kg	5.0	50		113	70-130		30
Tetrahydrofuran (THF)	116.2		ug/kg	5.0	125		93	70-130		30
Trichlorotrifluoroethane	44.93		ug/kg	5.0	50		90	70-130		30
Trichlorofluoromethane	20.76	m	ug/kg	5.0	50		42	70-130		30
Trichloroethene	54.47		ug/kg	5.0	50		109	70-130		30
trans-1,4-dichloro-2-butene	234.2		ug/kg	5.0	250		94	70-130		30
trans-1,3-Dichloropropene	51.48		ug/kg	5.0	50		103	70-130		30
n-Butylbenzene	56.98		ug/kg	1.0	50		114	70-130		30
Toluene	58.97		ug/kg	1.0	50		113	70-130		30
Vinyl chloride	55.48		ug/kg	5.0	50		111	70-130		30
Tetrachloroethene	58.75		ug/kg	5.0	50		118	70-130		30
tert-Butylbenzene	54.34		ug/kg	1.0	50		109	70-130		30
Styrene	49.08		ug/kg	5.0	50		98	70-130		30
sec-Butylbenzene	56.30		ug/kg	1.0	50		113	70-130		30
p-Isopropyltoluene	54.56		ug/kg	1.0	50		109	70-130		30
n-Propylbenzene	54.20		ug/kg	1.0	50		108	70-130		30
trans-1,2-Dichloroethene	53.76		ug/kg	5.0	50		108	70-130		30
Surrogate: % 1,2-dichlorobenzene-d4	51.65		ug/kg		50		103	70-130		
Surrogate: % Dibromofluoromethane	48.96		ug/kg		50		98	70-130		
Surrogate: % Toluene-d8	51.85		ug/kg		50		104	70-130		
Surrogate: % Bromofluorobenzene	49.53		ug/kg		50		99	70-130		
MSD (CB66877-MSD)				Source: CB66877			Prepared: Analyzed: 08-Oct-18			

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
MSD (CB66877-MSD)				Source: CB66877		Prepared:	Analyzed: 08-Oct-18			
2-Isopropyltoluene	43.96		ug/kg	5.0	50		88	70-130	11.8	30
Benzene	48.59		ug/kg	1.0	50		96	70-130	9.9	30
2-Chlorotoluene	48.03		ug/kg	5.0	50		96	70-130	11.8	30
2-Hexanone	43.20		ug/kg	25	50		86	70-130	7.8	30
4-Chlorotoluene	47.36		ug/kg	5.0	50		95	70-130	10.0	30
4-Methyl-2-pentanone	45.60		ug/kg	25	50		91	70-130	8.4	30
Acrylonitrile	45.91		ug/kg	5.0	50		92	70-130	6.3	30
2,2-Dichloropropane	48.18		ug/kg	5.0	50		96	70-130	11.8	30
Bromobenzene	48.76		ug/kg	5.0	50		98	70-130	13.3	30
Bromochloromethane	46.18		ug/kg	5.0	50		92	70-130	8.3	30
Bromodichloromethane	50.45		ug/kg	5.0	50		101	70-130	7.6	30
1,2-Dibromo-3-chloropropane	48.89		ug/kg	5.0	50		98	70-130	17.7	30
Acetone	34.18	m	ug/kg	10	50		50	70-130	5.8	30
1,2,4-Trimethylbenzene	46.60		ug/kg	1.0	50		93	70-130	10.2	30
1,1,1-Trichloroethane	49.03		ug/kg	5.0	50		98	70-130	9.7	30
1,1,1,2,2-Tetrachloroethane	50.11		ug/kg	3.0	50		100	70-130	12.2	30
1,1,2-Trichloroethane	51.31		ug/kg	5.0	50		103	70-130	10.1	30
1,1-Dichloroethane	48.05		ug/kg	5.0	50		96	70-130	8.0	30
1,1-Dichloroethene	45.39		ug/kg	5.0	50		91	70-130	7.4	30
1,1-Dichloropropene	50.70		ug/kg	5.0	50		101	70-130	13.0	30
1,2,3-Trichlorobenzene	48.82		ug/kg	5.0	50		98	70-130	10.6	30
1,2-Dichlorobenzene	49.05		ug/kg	5.0	50		98	70-130	14.2	30
1,2,4-Trichlorobenzene	47.02		ug/kg	5.0	50		94	70-130	9.1	30
1,4-Dichlorobenzene	47.58		ug/kg	5.0	50		95	70-130	12.8	30
Chloromethane	44.83		ug/kg	5.0	50		90	70-130	10.5	30
1,2-Dibromoethane	47.86		ug/kg	5.0	50		96	70-130	9.0	30
Bromoform	45.54		ug/kg	5.0	50		91	70-130	10.4	30
1,2-Dichloroethane	47.60		ug/kg	5.0	50		95	70-130	11.9	30
1,2-Dichloropropane	48.35		ug/kg	5.0	50		97	70-130	8.9	30
1,3,5-Trimethylbenzene	46.78		ug/kg	1.0	50		94	70-130	11.1	30
1,3-Dichlorobenzene	45.29		ug/kg	5.0	50		91	70-130	14.3	30
1,3-Dichloropropane	44.27		ug/kg	5.0	50		89	70-130	10.6	30
1,2,3-Trichloropropane	45.07		ug/kg	5.0	50		90	70-130	8.5	30
Toluene	53.32		ug/kg	1.0	50		101	70-130	11.2	30
Vinyl chloride	50.01		ug/kg	5.0	50		100	70-130	10.4	30
Chloroethane	28.83	m	ug/kg	5.0	50		58	70-130	5.0	30
p-Isopropyltoluene	49.51		ug/kg	1.0	50		99	70-130	9.6	30
sec-Butylbenzene	50.10		ug/kg	1.0	50		100	70-130	12.2	30
Styrene	44.82		ug/kg	5.0	50		90	70-130	8.5	30
tert-Butylbenzene	49.92		ug/kg	1.0	50		100	70-130	8.6	30
Bromomethane	39.29		ug/kg	5.0	50		79	70-130	5.2	30
Tetrahydrofuran (THF)	109.1		ug/kg	5.0	125		87	70-130	6.7	30
n-Propylbenzene	49.27		ug/kg	1.0	50		99	70-130	8.7	30
trans-1,2-Dichloroethene	49.12		ug/kg	5.0	50		98	70-130	9.7	30
trans-1,3-Dichloropropene	47.67		ug/kg	5.0	50		95	70-130	8.1	30
trans-1,4-dichloro-2-butene	206.9		ug/kg	5.0	250		83	70-130	12.4	30
Trichloroethene	49.55		ug/kg	5.0	50		99	70-130	9.6	30
Trichlorofluoromethane	19.05	m	ug/kg	5.0	50		38	70-130	10.0	30
Trichlorotrifluoroethane	44.55		ug/kg	5.0	50		89	70-130	1.1	30
1,1,1,2-Tetrachloroethane	45.27		ug/kg	5.0	50		91	70-130	9.4	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8260C</u>										
Batch 450998A - SW8260C										
<u>MSD (CB66877-MSD)</u>				<u>Source: CB66877</u>		<u>Prepared:</u>	<u>Analyzed: 08-Oct-18</u>			
Tetrachloroethene	53.68		ug/kg	5.0	50		107	70-130	9.8	30
Dibromomethane	50.90		ug/kg	5.0	50		102	70-130	6.6	30
Carbon Disulfide	38.48		ug/kg	5.0	50		77	70-130	6.3	30
Carbon tetrachloride	46.83		ug/kg	5.0	50		94	70-130	9.1	30
Chlorobenzene	47.93		ug/kg	5.0	50		96	70-130	9.0	30
Chloroform	44.26		ug/kg	5.0	50		89	70-130	11.6	30
cis-1,2-Dichloroethene	49.44		ug/kg	5.0	50		99	70-130	6.8	30
o-Xylene	48.69		ug/kg	2.0	50		97	70-130	8.9	30
Dibromochloromethane	49.29		ug/kg	3.0	50		99	70-130	7.8	30
n-Butylbenzene	50.93		ug/kg	1.0	50		102	70-130	11.1	30
Dichlorodifluoromethane	46.27		ug/kg	5.0	50		93	70-130	10.2	30
Ethylbenzene	48.26		ug/kg	1.0	50		97	70-130	6.0	30
Hexachlorobutadiene	52.26		ug/kg	5.0	50		105	70-130	10.8	30
Isopropylbenzene	48.47		ug/kg	1.0	50		97	70-130	10.7	30
m&p-Xylene	91.87		ug/kg	2.0	100		90	70-130	9.5	30
Methyl Ethyl Ketone	42.97		ug/kg	5.0	50		86	70-130	12.0	30
Methyl t-butyl ether (MTBE)	45.52		ug/kg	1.0	50		91	70-130	7.4	30
Methylene chloride	42.18		ug/kg	5.0	50		84	70-130	9.1	30
Naphthalene	54.49		ug/kg	5.0	50		103	70-130	7.5	30
cis-1,3-Dichloropropene	49.62		ug/kg	5.0	50		99	70-130	11.4	30
Surrogate: % 1,2-dichlorobenzene-d4	50.87		ug/kg		50		102	70-130		
Surrogate: % Bromofluorobenzene	49.85		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	50.21		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	51.74		ug/kg		50		103	70-130		

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J.	Estimated Below RL
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
m	This parameter is outside laboratory ms/msd specified recovery limits.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
R01	The Reporting Limit has been raised to account for matrix interference.
S	Laboratory solvent, contamination is possible.
SAC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
SBN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
SDUP	Duplicate analysis confirmed surrogate failure due to matrix effects.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: NELSON ABRAMS

Invoice To: Sami

Project No: 60558775

Address: AECOM CORP.
125 Broad St.
N.Y.C. 10038-8722

Site Name: South Brooklyn Marine Terminal (GBMT)
Location: Brooklyn, NY State: NY
Sample(s): Jettie Cassio

Telephone #: 347-803-8722
Project Mgr: NELSON ABRAMS

P.O. No.: 60558775

Quote #: 44902

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= 12=

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= X2= X3=

G=Grab

C=Composite

Lab ID: Sample ID: Date: Time: Type

Matrix

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Analysis

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
Standard ☐ No QC
DQA* ☐ ASP A* ☐ ASP B* ☐ NU Reduced* ☐ NU Full*
Mer II* ☐ Mer IV*
Other: _____
State-specific reporting standards: _____

SC50826-1 B-5 (0-2') 10/2/18 10:12 C So 3 1

02 B-5 (5 1/2 - 7 1/2) 10:55 C So 3 1

03 GW-2 11:55 C GW 3 2

04 B-4 (0-2) 11:50 C So 3 1

05 B-4 (6-8) 12:15 C So 3 1

06 B-4 (10-12) 12:40 C So 3 1

07 B-3 (0-2) 13:30 C So 3 1

08 B-3 (6-8) 13:50 C So 3 1

09 TRIP Blank-W 13:50

10 TRIP Blank-S 4

Relinquished by: John Lyons

Received by: Felix

Date: 10/3/18

Time: 10:55

Temp °C: 17.7

☐ EDD format: _____
☐ E-mail to: _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken

☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Batch Summary

1813326

General Chemistry Parameters

1813326-DUP1
1813326-DUP2
SC50826-01 (B-5 (0-2'))
SC50826-02 (B-5 (5 1/2-7 1/2))
SC50826-04 (B-4 (0-2'))
SC50826-05 (B-4 (6-8'))
SC50826-06 (B-4 (10-12'))
SC50826-07 (B-3 (0-2'))
SC50826-08 (B-3 (6-8'))

1813343

Semivolatile Organic Compounds by GCMS

1813343-BLK1
1813343-BS1
1813343-BSD1
SC50826-03 (GW-2)

1813345

Semivolatile Organic Compounds by GCMS

1813345-BLK1
1813345-BS1
1813345-BSD1
SC50826-01 (B-5 (0-2'))
SC50826-02 (B-5 (5 1/2-7 1/2))
SC50826-04 (B-4 (0-2'))
SC50826-05 (B-4 (6-8'))
SC50826-06 (B-4 (10-12'))
SC50826-07 (B-3 (0-2'))
SC50826-08 (B-3 (6-8'))

1813682

Semivolatile Organic Compounds by GCMS

1813682-BLK1
1813682-BS1
1813682-BSD1
SC50826-01RE1 (B-5 (0-2'))

450521A

Subcontracted Analyses

CB65248-BLK
CB65248-LCS
CB65248-LCSD
CB65248-MS
CB65248-MSD
SC50826-05 (B-4 (6-8'))
SC50826-10 (Trip Blank-S)

450865A

Subcontracted Analyses

CB65155-BLK

CB65155-LCS
CB65155-LCSD
CB65155-MS
SC50826-01 (B-5 (0-2'))
SC50826-02 (B-5 (5 1/2-7 1/2))
SC50826-04 (B-4 (0-2'))
SC50826-08 (B-3 (6-8'))

450877A

Subcontracted Analyses

CB65162-BLK
CB65162-LCS
CB65162-LCSD
SC50826-03 (GW-2)
SC50826-09 (Trip Blank-W)

450998A

Subcontracted Analyses

CB66877-BLK
CB66877-LCS
CB66877-LCSD
CB66877-MS
CB66877-MSD
SC50826-06 (B-4 (10-12'))
SC50826-07 (B-3 (0-2'))

S820940

Semivolatile Organic Compounds by GCMS

S820940-CAL1
S820940-CAL2
S820940-CAL3
S820940-CAL4
S820940-CAL5
S820940-CAL6
S820940-CAL7
S820940-CAL8
S820940-CAL9
S820940-CALA
S820940-ICV1
S820940-LCV1
S820940-LCV2
S820940-TUN1

S821565**Semivolatile Organic Compounds by GCMS**

S821565-CAL1
S821565-CAL2
S821565-CAL3
S821565-CAL4
S821565-CAL5
S821565-CAL6
S821565-CAL7
S821565-CAL8
S821565-CAL9
S821565-CALA
S821565-ICV1
S821565-LCV1
S821565-LCV2
S821565-TUN1

S822532**Semivolatile Organic Compounds by GCMS**

S822532-CCV1
S822532-TUN1

S822538**Semivolatile Organic Compounds by GCMS**

S822538-CCV1
S822538-TUN1

S822579**Semivolatile Organic Compounds by GCMS**

S822579-CCV1
S822579-TUN1

S822602**Semivolatile Organic Compounds by GCMS**

S822602-CCV1
S822602-TUN1

S822638**Semivolatile Organic Compounds by GCMS**

S822638-CCV1
S822638-TUN1

S822688**Semivolatile Organic Compounds by GCMS**

S822688-CCV1
S822688-TUN1

S822689**Semivolatile Organic Compounds by GCMS**

S822689-CCV1
S822689-TUN1

Report Date:
19-Oct-18 17:51

Laboratory Report SC50830

AECOM Environment
125 Broad St
, 15th Floor
New York, NY 10005

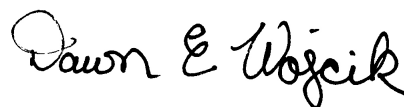
Project: South Brooklyn Terminal - Brooklyn, NY
Project #: 60558775

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 101 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC50830
Project: South Brooklyn Terminal - Brooklyn, NY
Project Number: 60558775

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC50830-01	B-1 (0-2')	Soil	03-Oct-18 11:20	04-Oct-18 09:33
SC50830-02	B-1 (2-4')	Soil	03-Oct-18 11:30	04-Oct-18 09:33
SC50830-03	B-2 (0-2')	Soil	03-Oct-18 10:30	04-Oct-18 09:33
SC50830-04	B-2 (5-7')	Soil	03-Oct-18 10:50	04-Oct-18 09:33
SC50830-05	GW-1	Ground Water	03-Oct-18 12:20	04-Oct-18 09:33
SC50830-06	DUP20181003GW	Ground Water	03-Oct-18 08:00	04-Oct-18 09:33
SC50830-07	B-11 (0-2')	Soil	03-Oct-18 14:40	04-Oct-18 09:33
SC50830-08	B-11 (5-7')	Soil	03-Oct-18 14:58	04-Oct-18 09:33
SC50830-09	DUP20181003SO	Soil	03-Oct-18 08:00	04-Oct-18 09:33
SC50830-10	GW-5	Ground Water	03-Oct-18 15:40	04-Oct-18 09:33
SC50830-11	TB	Trip Blank	02-Oct-18 14:58	04-Oct-18 09:33
SC50830-12	TB	Trip Blank	02-Oct-18 14:58	04-Oct-18 09:33

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 2.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8260C

Laboratory Control Samples:

CB66876-LCS

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Dichlorodifluoromethane
Vinyl chloride

CB66880-LCS

Laboratory Control Samples:CB66880-LCS

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylene chloride

SW8260C

Laboratory Control Samples:

CB66880-LCS

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

Samples:

SC50830-02 *B-1 (2-4')*

Estimated Below RL

Acetone

S - Laboratory solvent, contamination is possible.

Acetone

SC50830-03 *B-2 (0-2')*

Estimated Below RL

1,2,4-Trimethylbenzene
m&p-Xylene
Naphthalene

SC50830-04 *B-2 (5-7')*

Estimated Below RL

1,2,4-Trimethylbenzene
2-Isopropyltoluene
Carbon Disulfide
Methyl Ethyl Ketone
p-Isopropyltoluene
sec-Butylbenzene

S - Laboratory solvent, contamination is possible.

Acetone

SC50830-05 *GW-1*

Estimated Below RL

Acetone
Carbon Disulfide

SW8260C

Samples:

SC50830-05 *GW-1*

S - Laboratory solvent, contamination is possible.

Acetone

SC50830-06 *DUP20181003GW*

Estimated Below RL

Acetone

Carbon Disulfide

S - Laboratory solvent, contamination is possible.

Acetone

SC50830-07 *B-11 (0-2')*

Estimated Below RL

Naphthalene

SC50830-08 *B-11 (5-7')*

Estimated Below RL

Acetone

Benzene

m&p-Xylene

Naphthalene

Toluene

S - Laboratory solvent, contamination is possible.

Acetone

SC50830-10 *GW-5*

Estimated Below RL

Dichlorodifluoromethane

Methyl t-butyl ether (MTBE)

SC50830-11 *TB*

Estimated Below RL

Acetone

S - Laboratory solvent, contamination is possible.

Acetone

CB66876-LCSD

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Dichlorodifluoromethane

Vinyl chloride

CB66876-MS

This parameter is outside laboratory ms/msd specified recovery limits.

1,2-Dibromoethane

cis-1,3-Dichloropropene

Isopropylbenzene

trans-1,3-Dichloropropene

SW8260C

CB66876-MS

This parameter is outside laboratory rpd specified recovery limits.

1,2-Dichlorobenzene
1,3-Dichlorobenzene
Styrene
trans-1,3-Dichloropropene

CB66876-MSD

This parameter is outside laboratory rpd specified recovery limits.

1,2-Dichlorobenzene
1,3-Dichlorobenzene
Styrene
trans-1,3-Dichloropropene

CB66877-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Acetone

This parameter is outside laboratory rpd specified recovery limits.

Bromomethane

CB66877-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

Acetone

This parameter is outside laboratory rpd specified recovery limits.

Bromomethane

CB66880-BLK

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylene chloride
Naphthalene
n-Butylbenzene

SW8260C

CB66880-BLK

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

CB66880-LCSD

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylene chloride
Naphthalene
n-Butylbenzene

SW8260C

CB66880-LCSD

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Bromomethane

SW846 8270D

Calibration:

1807052

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Benzidine
Benzoic acid
Carbazole
Pentachlorophenol

This affected the following samples:

S820940-ICV1

1808015

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Aniline
Benzidine
Benzoic acid
Carbazole
Hexachlorocyclopentadiene

SW846 8270D

Calibration:

1808015

This affected the following samples:

1813400-BLK1
1813400-BS1
1813400-BSD1
DUP20181003GW
GW-1
GW-5
S821565-ICV1
S822584-CCV1
S822677-CCV1
S822683-CCV1

Blanks:

1813400-BLK1

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

Phenol-d5

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

2-Fluorobiphenyl

Laboratory Control Samples:

1813400 BS/BSD

4-Nitrophenol percent recoveries (21/21) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

Aniline percent recoveries (34/38) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

Benzidine percent recoveries (151/164) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP20181003GW
GW-1
GW-5

Benzoic acid percent recoveries (21/22) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

SW846 8270D

Laboratory Control Samples:

1813400 BS/BSD

Bis(2-chloroethoxy)methane percent recoveries (38/38) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

N-Nitrosodimethylamine percent recoveries (35/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

Pentachlorophenol percent recoveries (20/20) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

Phenol percent recoveries (24/26) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

Pyridine percent recoveries (32/34) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP20181003GW
GW-1
GW-5

1813400-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Nitrophenol
Aniline
Benzoic acid
Bis(2-chloroethoxy)methane
N-Nitrosodimethylamine
Pentachlorophenol
Phenol
Pyridine

1813400-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Nitrophenol
Aniline
Benzoic acid
Bis(2-chloroethoxy)methane
N-Nitrosodimethylamine
Pentachlorophenol
Phenol
Pyridine

SW846 8270D

Laboratory Control Samples:

1813400-BSD1

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Benzidine

1813548 BS/BSD

2,4-Dinitrophenol percent recoveries (22/28) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (0-2')

B-1 (2-4')

B-11 (0-2')

B-11 (5-7')

B-2 (0-2')

B-2 (5-7')

DUP20181003SO

3,3'-Dichlorobenzidine percent recoveries (152/155) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-1 (0-2')

B-1 (2-4')

B-11 (0-2')

B-11 (5-7')

B-2 (0-2')

B-2 (5-7')

DUP20181003SO

Benzidine percent recoveries (143/165) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-1 (0-2')

B-1 (2-4')

B-11 (0-2')

B-11 (5-7')

B-2 (0-2')

B-2 (5-7')

DUP20181003SO

Benzoic acid percent recoveries (16/17) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (0-2')

B-1 (2-4')

B-11 (0-2')

B-11 (5-7')

B-2 (0-2')

B-2 (5-7')

DUP20181003SO

Benzyl alcohol percent recoveries (18/13) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (0-2')

B-1 (2-4')

B-11 (0-2')

B-11 (5-7')

B-2 (0-2')

B-2 (5-7')

DUP20181003SO

SW846 8270D

Laboratory Control Samples:

1813548 BS/BSD

Pentachlorophenol percent recoveries (11/13) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (0-2')
B-1 (2-4')
B-11 (0-2')
B-11 (5-7')
B-2 (0-2')
B-2 (5-7')
DUP20181003SO

1813548 BSD

Benzyl alcohol RPD 32% (30%) is outside individual acceptance criteria.

1813548-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
Benzoic acid
Benzyl alcohol
Pentachlorophenol

1813548-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
Benzoic acid
Benzyl alcohol

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Benzidine

Samples:

S822584-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3,3'-Dichlorobenzidine (49.5%)
4-Chlorophenyl phenyl ether (24.3%)
Azobenzene/Diphenyldiazene (30.2%)
Diethyl phthalate (27.3%)
Di-n-octyl phthalate (27.3%)
N-Nitrosodiphenylamine (24.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (49.7%)
Aniline (40.8%)
Benzidine (42.0%)
Carbazole (55.1%)

This affected the following samples:

1813400-BLK1
1813400-BS1
1813400-BSD1

SW846 8270D

Samples:

S822615-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (24.0%)
Acenaphthylene (25.4%)
Azobenzene/Diphenyldiazene (22.5%)
Benzo (b) fluoranthene (34.6%)
Diethyl phthalate (21.6%)
N-Nitrosodimethylamine (21.8%)
Pyridine (23.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (21.5%)
Aniline (29.0%)
Benzidine (24.3%)

This affected the following samples:

1813548-BLK1
1813548-BS1
1813548-BSD1

S822638-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Bromophenyl phenyl ether (23.6%)
4-Chloroaniline (-28.7%)
4-Chlorophenyl phenyl ether (23.9%)
4-Nitroaniline (-30.9%)
Aniline (-36.7%)
Benzo (b) fluoranthene (31.6%)
Hexachlorobutadiene (24.5%)
Pyrene (-24.6%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-57.6%)
Benzidine (-56.1%)
Benzoic acid (-35.8%)
Carbazole (-59.4%)

This affected the following samples:

B-1 (0-2')
B-11 (0-2')
B-11 (5-7')
B-2 (0-2')
B-2 (5-7')
DUP20181003SO

S822677-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (26.3%)
4-Chlorophenyl phenyl ether (21.5%)
Azobenzene/Diphenyldiazene (20.3%)
Benzo (b) fluoranthene (31.5%)
Benzyl alcohol (-32.5%)
N-Nitrosodimethylamine (31.5%)
Pyridine (25.2%)

SW846 8270D

Samples:

S822677-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (27.1%)
Benzidine (37.5%)
Hexachlorocyclopentadiene (28.7%)

This affected the following samples:

DUP20181003GW
GW-1
GW-5

S822731-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (23.2%)
2-Chloronaphthalene (24.9%)
3,3'-Dichlorobenzidine (43.2%)
4-Chlorophenyl phenyl ether (29.2%)
Azobenzene/Diphenyldiazene (20.1%)
Benzo (b) fluoranthene (28.1%)
Benzyl alcohol (-28.5%)
Diethyl phthalate (32.9%)
Di-n-octyl phthalate (26.8%)
Fluorene (22.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (33.7%)
Benzoic acid (-23.3%)
Carbazole (39.5%)

This affected the following samples:

B-1 (2-4')

SC50830-01 *B-1 (0-2')*

The Reporting Limit has been raised to account for matrix interference.

SC50830-02 *B-1 (2-4')*

The Reporting Limit has been raised to account for matrix interference.

SC50830-04 *B-2 (5-7')*

The Reporting Limit has been raised to account for matrix interference.

SC50830-07 *B-11 (0-2')*

The Reporting Limit has been raised to account for matrix interference.

SC50830-08 *B-11 (5-7')*

The Reporting Limit has been raised to account for matrix interference.

SC50830-09 *DUP20181003SO*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client: AECOM Environment - NY, NY
 Project: South Brooklyn Terminal - Brooklyn, NY / 60558775
 Work Order: SC50830
 Sample(s) received on: 10/4/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☒	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC50830-01

Client ID: B-1 (0-2')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthene	469	D	362	µg/kg	SW846 8270D
Anthracene	1350	D	362	µg/kg	SW846 8270D
Benzo (a) anthracene	3030	D	362	µg/kg	SW846 8270D
Benzo (a) pyrene	2810	D	362	µg/kg	SW846 8270D
Benzo (b) fluoranthene	2680	D	362	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	1570	D	362	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1370	D	362	µg/kg	SW846 8270D
Chrysene	2910	D	362	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	385	D	362	µg/kg	SW846 8270D
Dibenzofuran	324	J, D	907	µg/kg	SW846 8270D
Fluoranthene	4920	D	362	µg/kg	SW846 8270D
Fluorene	373	D	362	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	1600	D	362	µg/kg	SW846 8270D
Phenanthrene	3320	D	362	µg/kg	SW846 8270D
Pyrene	6100	D	362	µg/kg	SW846 8270D

Lab ID: SC50830-02

Client ID: B-1 (2-4')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	6.7	S, J	27	ug/kg	SW8260C
Anthracene	247	J, D	371	µg/kg	SW846 8270D
Benzo (a) anthracene	534	D	371	µg/kg	SW846 8270D
Benzo (a) pyrene	384	D	371	µg/kg	SW846 8270D
Benzo (b) fluoranthene	336	J, D	371	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	191	J, D	371	µg/kg	SW846 8270D
Benzo (k) fluoranthene	256	J, D	371	µg/kg	SW846 8270D
Chrysene	499	D	371	µg/kg	SW846 8270D
Fluoranthene	1040	D	371	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	213	J, D	371	µg/kg	SW846 8270D
Phenanthrene	377	D	371	µg/kg	SW846 8270D
Pyrene	1060	D	371	µg/kg	SW846 8270D

Lab ID: SC50830-03

Client ID: B-2 (0-2')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	180	J.	500	ug/kg	SW8260C
m&p-Xylene	140	J.	500	ug/kg	SW8260C
Naphthalene	170	J.	500	ug/kg	SW8260C
Total Xylenes	140.0		5.1	ug/kg	SW8260C
1-Methylnaphthalene	262		70.4	µg/kg	SW846 8270D
2-Methylnaphthalene	771		70.4	µg/kg	SW846 8270D
Acenaphthylene	65.5	J	70.4	µg/kg	SW846 8270D
Anthracene	124		70.4	µg/kg	SW846 8270D
Benzo (a) anthracene	307		70.4	µg/kg	SW846 8270D
Benzo (a) pyrene	382		70.4	µg/kg	SW846 8270D
Benzo (b) fluoranthene	344		70.4	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	345		70.4	µg/kg	SW846 8270D
Benzo (k) fluoranthene	359		70.4	µg/kg	SW846 8270D
Chrysene	345		70.4	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	78.2		70.4	µg/kg	SW846 8270D
Dibenzofuran	91.5	J	176	µg/kg	SW846 8270D
Fluoranthene	591		70.4	µg/kg	SW846 8270D
Fluorene	52.1	J	70.4	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	337		70.4	µg/kg	SW846 8270D
Naphthalene	242		70.4	µg/kg	SW846 8270D
Phenanthrene	344		70.4	µg/kg	SW846 8270D
Pyrene	516		70.4	µg/kg	SW846 8270D

Lab ID: SC50830-04

Client ID: B-2 (5-7')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	74	J.	510	ug/kg	SW8260C
2-Isopropyltoluene	0.83	J.	5.2	ug/kg	SW8260C
Acetone	40	S	26	ug/kg	SW8260C
Carbon Disulfide	1.6	J.	5.2	ug/kg	SW8260C
Methyl Ethyl Ketone	9.9	J.	26	ug/kg	SW8260C
Naphthalene	220		200	ug/kg	SW8260C
p-Isopropyltoluene	0.59	J.	5.2	ug/kg	SW8260C
sec-Butylbenzene	0.68	J.	5.2	ug/kg	SW8260C
Anthracene	381	D	370	µg/kg	SW846 8270D
Benzo (a) anthracene	984	D	370	µg/kg	SW846 8270D
Benzo (a) pyrene	978	D	370	µg/kg	SW846 8270D
Benzo (b) fluoranthene	818	D	370	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	838	D	370	µg/kg	SW846 8270D
Benzo (k) fluoranthene	586	D	370	µg/kg	SW846 8270D
Chrysene	1110	D	370	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	207	J, D	370	µg/kg	SW846 8270D
Dibenzofuran	165	J, D	927	µg/kg	SW846 8270D
Fluoranthene	1330	D	370	µg/kg	SW846 8270D
Fluorene	209	J, D	370	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	753	D	370	µg/kg	SW846 8270D
Naphthalene	226	J, D	370	µg/kg	SW846 8270D
Phenanthrene	1330	D	370	µg/kg	SW846 8270D
Pyrene	1420	D	370	µg/kg	SW846 8270D

Lab ID: SC50830-05

Client ID: GW-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	3.1	S, J.	25	ug/l	SW8260C
Carbon Disulfide	0.27	J.	5.0	ug/l	SW8260C
1-Methylnaphthalene	4.07	J	4.76	µg/l	SW846 8270D
Di-n-butyl phthalate	0.686	J	4.76	µg/l	SW846 8270D

Lab ID: SC50830-06

Client ID: DUP20181003GW

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	3.9	S, J.	25	ug/l	SW8260C
Carbon Disulfide	0.54	J.	5.0	ug/l	SW8260C
1-Methylnaphthalene	2.54	J	4.72	µg/l	SW846 8270D

Lab ID: SC50830-07

Client ID: B-11 (0-2')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Naphthalene	150	J.	470	ug/kg	SW8260C
Acenaphthene	343	J, D	363	µg/kg	SW846 8270D
Anthracene	912	D	363	µg/kg	SW846 8270D
Benzo (a) anthracene	3720	D	363	µg/kg	SW846 8270D
Benzo (a) pyrene	3590	D	363	µg/kg	SW846 8270D
Benzo (b) fluoranthene	3180	D	363	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	2520	D	363	µg/kg	SW846 8270D
Benzo (k) fluoranthene	2820	D	363	µg/kg	SW846 8270D
Chrysene	3580	D	363	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	674	D	363	µg/kg	SW846 8270D
Dibenzofuran	259	J, D	908	µg/kg	SW846 8270D
Fluoranthene	7620	D	363	µg/kg	SW846 8270D
Fluorene	357	J, D	363	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	2590	D	363	µg/kg	SW846 8270D
Phenanthrene	4550	D	363	µg/kg	SW846 8270D
Pyrene	6870	D	363	µg/kg	SW846 8270D

Lab ID: SC50830-08

Client ID: B-11 (5-7')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	730	S, J.	2000	ug/kg	SW8260C
Benzene	64	J.	400	ug/kg	SW8260C
m&p-Xylene	150	J.	400	ug/kg	SW8260C
Naphthalene	250	J.	400	ug/kg	SW8260C
Toluene	210	J.	400	ug/kg	SW8260C
Acenaphthene	625	D	370	µg/kg	SW846 8270D
Anthracene	1630	D	370	µg/kg	SW846 8270D
Benzo (a) anthracene	7480	D	370	µg/kg	SW846 8270D
Benzo (a) pyrene	6720	D	370	µg/kg	SW846 8270D
Benzo (b) fluoranthene	7170	D	370	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	4120	D	370	µg/kg	SW846 8270D
Benzo (k) fluoranthene	4460	D	370	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	322	J, D	927	µg/kg	SW846 8270D
Chrysene	7430	D	370	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	1300	D	370	µg/kg	SW846 8270D
Dibenzofuran	474	J, D	927	µg/kg	SW846 8270D
Fluoranthene	12900	D	370	µg/kg	SW846 8270D
Fluorene	659	D	370	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	4270	D	370	µg/kg	SW846 8270D
Naphthalene	183	J, D	370	µg/kg	SW846 8270D
Phenanthrene	8100	D	370	µg/kg	SW846 8270D
Pyrene	12700	D	370	µg/kg	SW846 8270D

Lab ID: SC50830-09**Client ID:** DUP20181003SO

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Anthracene	1270	J, D	1450	µg/kg	SW846 8270D
Benzo (a) anthracene	5210	D	1450	µg/kg	SW846 8270D
Benzo (a) pyrene	5000	D	1450	µg/kg	SW846 8270D
Benzo (b) fluoranthene	5230	D	1450	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	3400	D	1450	µg/kg	SW846 8270D
Benzo (k) fluoranthene	3670	D	1450	µg/kg	SW846 8270D
Chrysene	5310	D	1450	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	929	J, D	1450	µg/kg	SW846 8270D
Fluoranthene	8780	D	1450	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	3560	D	1450	µg/kg	SW846 8270D
Phenanthrene	6440	D	1450	µg/kg	SW846 8270D
Pyrene	9240	D	1450	µg/kg	SW846 8270D

Lab ID: SC50830-10**Client ID:** GW-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Dichlorodifluoromethane	0.28	J.	1.0	ug/l	SW8260C
Methyl t-butyl ether (MTBE)	0.27	J.	1.0	ug/l	SW8260C

Lab ID: SC50830-11**Client ID:** TB

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	3.0	S, J.	25	ug/l	SW8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

B-1 (0-2') Client Project # 60558775 Matrix Soil Collection Date/Time 03-Oct-18 11:20 Received 04-Oct-18
SC50830-01

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	469	D	µg/kg dry	362	180	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 362	U, D	µg/kg dry	362	179	5	"	"	"	"	"	X
62-53-3	Aniline	< 1790	U, D	µg/kg dry	1790	129	5	"	"	"	"	"	X
120-12-7	Anthracene	1,350	D	µg/kg dry	362	173	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1790	U, D	µg/kg dry	1790	176	5	"	"	"	"	"	
92-87-5	Benzidine	< 3580	U, D	µg/kg dry	3580	360	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	3,030	D	µg/kg dry	362	191	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	2,810	D	µg/kg dry	362	135	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	2,680	D	µg/kg dry	362	175	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	1,570	D	µg/kg dry	362	146	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	1,370	D	µg/kg dry	362	142	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1790	U, D	µg/kg dry	1790	376	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1790	U, D	µg/kg dry	1790	147	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1790	U, D	µg/kg dry	1790	159	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 907	U, D	µg/kg dry	907	130	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 907	U, D	µg/kg dry	907	140	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 907	U, D	µg/kg dry	907	224	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1790	U, D	µg/kg dry	1790	168	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1790	U, D	µg/kg dry	1790	209	5	"	"	"	"	"	X
86-74-8	Carbazole	< 907	U, D	µg/kg dry	907	506	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1790	U, D	µg/kg dry	1790	171	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 907	U, D	µg/kg dry	907	196	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1790	U, D	µg/kg dry	1790	166	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 907	U, D	µg/kg dry	907	161	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1790	U, D	µg/kg dry	1790	213	5	"	"	"	"	"	X
218-01-9	Chrysene	2,910	D	µg/kg dry	362	181	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	385	D	µg/kg dry	362	139	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	324	J, D	µg/kg dry	907	138	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1790	U, D	µg/kg dry	1790	156	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1790	U, D	µg/kg dry	1790	156	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1790	U, D	µg/kg dry	1790	166	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1790	U, D	µg/kg dry	1790	273	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 907	U, D	µg/kg dry	907	169	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1790	U, D	µg/kg dry	1790	222	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1790	U, D	µg/kg dry	1790	196	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1790	U, D	µg/kg dry	1790	128	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1790	U, D	µg/kg dry	1790	190	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1790	U, D	µg/kg dry	1790	230	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1790	U, D	µg/kg dry	1790	182	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 907	U, D	µg/kg dry	907	351	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 907	U, D	µg/kg dry	907	204	5	"	"	"	"	"	X

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Sample Identification

B-1 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-01	60558775	Soil	03-Oct-18 11:20	04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 1790	U, D	µg/kg dry	1790	202	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	4,920	D	µg/kg dry	362	191	5	"	"	"	"	"	X
86-73-7	Fluorene	373	D	µg/kg dry	362	184	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 907	U, D	µg/kg dry	907	178	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 907	U, D	µg/kg dry	907	217	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 907	U, D	µg/kg dry	907	123	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 907	U, D	µg/kg dry	907	195	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	1,600	D	µg/kg dry	362	130	5	"	"	"	"	"	X
78-59-1	Isophorone	< 907	U, D	µg/kg dry	907	170	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 362	U, D	µg/kg dry	362	219	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1790	U, D	µg/kg dry	1790	152	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1790	U, D	µg/kg dry	1790	173	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 362	U, D	µg/kg dry	362	169	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1790	U, D	µg/kg dry	1790	152	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1790	U, D	µg/kg dry	1790	245	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 907	U, D	µg/kg dry	907	279	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 907	U, D	µg/kg dry	907	165	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 907	U, D	µg/kg dry	907	150	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7170	U, D	µg/kg dry	7170	289	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 907	U, D	µg/kg dry	907	168	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 907	U, D	µg/kg dry	907	177	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1790	U, D	µg/kg dry	1790	194	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1790	U, D	µg/kg dry	1790	191	5	"	"	"	"	"	X
85-01-8	Phenanthrene	3,320	D	µg/kg dry	362	169	5	"	"	"	"	"	X
108-95-2	Phenol	< 1790	U, D	µg/kg dry	1790	118	5	"	"	"	"	"	X
129-00-0	Pyrene	6,100	D	µg/kg dry	362	202	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1790	U, D	µg/kg dry	1790	267	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1790	U, D	µg/kg dry	1790	178	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 362	U, D	µg/kg dry	362	178	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1790	U, D	µg/kg dry	1790	161	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 907	U, D	µg/kg dry	907	162	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1790	U, D	µg/kg dry	1790	283	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1790	U, D	µg/kg dry	1790	174	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	42		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	40		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	36		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	42		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	82		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	40		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	90.7	%	1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-1 (0-2')**

SC50830-01

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 11:20

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 400		ug/kg	400	81	50	SW8260C	03-Oct-18 11:20	07-Oct-18 13:17	M-CT0	450841A	
71-55-6	1,1,1-Trichloroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 400		ug/kg	400	81	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 400		ug/kg	400	81	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 400		ug/kg	400	81	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 400		ug/kg	400	40	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 400		ug/kg	400	81	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 400		ug/kg	400	40	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 400		ug/kg	400	81	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 400		ug/kg	400	81	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 400		ug/kg	400	81	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 400		ug/kg	400	81	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 400		ug/kg	400	40	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 400		ug/kg	400	81	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 2000		ug/kg	2000	400	50	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 400		ug/kg	400	40	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 400		ug/kg	400	40	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 2000		ug/kg	2000	400	50	"	"	"	"	"	
67-64-1	Acetone	< 2000		ug/kg	2000	400	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 810		ug/kg	810	40	50	"	"	"	"	"	
71-43-2	Benzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 400		ug/kg	400	81	50	"	"	"	"	"	
75-25-2	Bromoform	< 400		ug/kg	400	81	50	"	"	"	"	"	
74-83-9	Bromomethane	< 400		ug/kg	400	160	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 400		ug/kg	400	81	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 400		ug/kg	400	81	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-00-3	Chloroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
67-66-3	Chloroform	< 400		ug/kg	400	40	50	"	"	"	"	"	
74-87-3	Chloromethane	< 400		ug/kg	400	81	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 400		ug/kg	400	40	50	"	"	"	"	"	

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Sample Identification

B-1 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-01	60558775	Soil	03-Oct-18 11:20	04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

124-48-1	Dibromochloromethane	< 400		ug/kg	400	81	50	SW8260C	03-Oct-18 11:20	07-Oct-18 13:17	M-CT0	450841A	
74-95-3	Dibromomethane	< 400		ug/kg	400	81	50	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 400		ug/kg	400	40	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 400		ug/kg	400	81	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 2000		ug/kg	2000	400	50	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 810		ug/kg	810	81	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 810		ug/kg	810	400	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 400		ug/kg	400	81	50	"	"	"	"	"	
91-20-3	Naphthalene	< 400		ug/kg	400	81	50	"	"	"	"	"	
95-47-6	o-Xylene	< 400		ug/kg	400	81	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 400		ug/kg	400	40	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
100-42-5	Styrene	< 400		ug/kg	400	40	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 400		ug/kg	400	81	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 810		ug/kg	810	200	50	"	"	"	"	"	
108-88-3	Toluene	< 400		ug/kg	400	40	50	"	"	"	"	"	
1330-20-7	Total Xylenes	< 400		ug/kg	400	400	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 400		ug/kg	400	40	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 810		ug/kg	810	200	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 400		ug/kg	400	81	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 400		ug/kg	400	40	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	90			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	99			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	103			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	89			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	91	%		1	SW846-%Solid	"	05-Oct-18 23:45	M-CT0	'[none]'

Sample Identification

B-1 (2-4')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-02	60558775	Soil	03-Oct-18 11:30	04-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 371	U, D	µg/kg dry	371	185	5	SW846 8270D	11-Oct-18	18-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 371	U, D	µg/kg dry	371	183	5	"	"	"	"	"	X
62-53-3	Aniline	< 1840	U, D	µg/kg dry	1840	132	5	"	"	"	"	"	X
120-12-7	Anthracene	247	J, D	µg/kg dry	371	178	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1840	U, D	µg/kg dry	1840	181	5	"	"	"	"	"	
92-87-5	Benzidine	< 3670	U, D	µg/kg dry	3670	369	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	534	D	µg/kg dry	371	196	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	384	D	µg/kg dry	371	138	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	336	J, D	µg/kg dry	371	180	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	191	J, D	µg/kg dry	371	149	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	256	J, D	µg/kg dry	371	145	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1840	U, D	µg/kg dry	1840	386	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1840	U, D	µg/kg dry	1840	150	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1840	U, D	µg/kg dry	1840	163	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 929	U, D	µg/kg dry	929	133	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 929	U, D	µg/kg dry	929	143	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 929	U, D	µg/kg dry	929	229	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1840	U, D	µg/kg dry	1840	172	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1840	U, D	µg/kg dry	1840	214	5	"	"	"	"	"	X
86-74-8	Carbazole	< 929	U, D	µg/kg dry	929	518	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1840	U, D	µg/kg dry	1840	175	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 929	U, D	µg/kg dry	929	201	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1840	U, D	µg/kg dry	1840	170	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 929	U, D	µg/kg dry	929	165	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1840	U, D	µg/kg dry	1840	218	5	"	"	"	"	"	X
218-01-9	Chrysene	499	D	µg/kg dry	371	185	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 371	U, D	µg/kg dry	371	142	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 929	U, D	µg/kg dry	929	141	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1840	U, D	µg/kg dry	1840	160	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1840	U, D	µg/kg dry	1840	160	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1840	U, D	µg/kg dry	1840	170	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1840	U, D	µg/kg dry	1840	279	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 929	U, D	µg/kg dry	929	174	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1840	U, D	µg/kg dry	1840	227	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1840	U, D	µg/kg dry	1840	201	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1840	U, D	µg/kg dry	1840	131	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1840	U, D	µg/kg dry	1840	195	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1840	U, D	µg/kg dry	1840	236	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1840	U, D	µg/kg dry	1840	187	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 929	U, D	µg/kg dry	929	359	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 929	U, D	µg/kg dry	929	209	5	"	"	"	"	"	X

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Sample Identification

B-1 (2-4')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-02	60558775	Soil	03-Oct-18 11:30	04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 1840	U, D	µg/kg dry	1840	208	5	SW846 8270D	11-Oct-18	18-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	1,040	D	µg/kg dry	371	196	5	"	"	"	"	"	X
86-73-7	Fluorene	< 371	U, D	µg/kg dry	371	189	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 929	U, D	µg/kg dry	929	183	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 929	U, D	µg/kg dry	929	222	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 929	U, D	µg/kg dry	929	126	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 929	U, D	µg/kg dry	929	200	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	213	J, D	µg/kg dry	371	134	5	"	"	"	"	"	X
78-59-1	Isophorone	< 929	U, D	µg/kg dry	929	174	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 371	U, D	µg/kg dry	371	224	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1840	U, D	µg/kg dry	1840	156	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1840	U, D	µg/kg dry	1840	178	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 371	U, D	µg/kg dry	371	173	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1840	U, D	µg/kg dry	1840	156	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1840	U, D	µg/kg dry	1840	251	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 929	U, D	µg/kg dry	929	286	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 929	U, D	µg/kg dry	929	169	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 929	U, D	µg/kg dry	929	154	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7350	U, D	µg/kg dry	7350	297	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 929	U, D	µg/kg dry	929	173	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 929	U, D	µg/kg dry	929	181	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1840	U, D	µg/kg dry	1840	199	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1840	U, D	µg/kg dry	1840	196	5	"	"	"	"	"	X
85-01-8	Phenanthrene	377	D	µg/kg dry	371	173	5	"	"	"	"	"	X
108-95-2	Phenol	< 1840	U, D	µg/kg dry	1840	121	5	"	"	"	"	"	X
129-00-0	Pyrene	1,060	D	µg/kg dry	371	207	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1840	U, D	µg/kg dry	1840	274	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1840	U, D	µg/kg dry	1840	182	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 371	U, D	µg/kg dry	371	183	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1840	U, D	µg/kg dry	1840	165	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 929	U, D	µg/kg dry	929	166	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1840	U, D	µg/kg dry	1840	290	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1840	U, D	µg/kg dry	1840	178	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	62		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	65		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	75		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	76		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	68		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	66		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	89.5	%	1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-1 (2-4')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-02	60558775	Soil	03-Oct-18 11:30	04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.3		ug/kg	5.3	1.1	1	SW8260C	03-Oct-18 11:30	08-Oct-18 13:12	M-CT0	450998A	
71-55-6	1,1,1-Trichloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 27		ug/kg	27	5.3	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 27		ug/kg	27	5.3	1	"	"	"	"	"	
67-64-1	Acetone	6.7	S, J.	ug/kg	27	5.3	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 11		ug/kg	11	0.53	1	"	"	"	"	"	
71-43-2	Benzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.3		ug/kg	5.3	2.1	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

B-1 (2-4')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-02	60558775	Soil	03-Oct-18 11:30	04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

124-48-1	Dibromochloromethane	< 5.3		ug/kg	5.3	1.1	1	SW8260C	03-Oct-18 11:30	08-Oct-18 13:12	M-CT0	450998A	
74-95-3	Dibromomethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 27		ug/kg	27	5.3	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 11		ug/kg	11	1.1	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 11		ug/kg	11	5.3	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
100-42-5	Styrene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 11		ug/kg	11	2.7	1	"	"	"	"	"	
108-88-3	Toluene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.3		ug/kg	5.3	5.3	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 11		ug/kg	11	2.7	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	94		70-130 %		"	"	"	"	"
460-00-4	% Bromofluorobenzene	103		70-130 %		"	"	"	"	"
1868-53-7	% Dibromofluoromethane	106		70-130 %		"	"	"	"	"
2037-26-5	% Toluene-d8	85		70-130 %		"	"	"	"	"

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	90	%		1	SW846-%Solid	"	05-Oct-18 23:45	M-CT0	'[none]'

Sample Identification**B-2 (0-2')**

SC50830-03

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 10:30

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 70.4	U	µg/kg dry	70.4	35.1	1	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	65.5	J	µg/kg dry	70.4	34.7	1	"	"	"	"	"	X
62-53-3	Aniline	< 349	U	µg/kg dry	349	25.0	1	"	"	"	"	"	X
120-12-7	Anthracene	124		µg/kg dry	70.4	33.7	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 349	U	µg/kg dry	349	34.3	1	"	"	"	"	"	
92-87-5	Benzidine	< 697	U	µg/kg dry	697	70.1	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	307		µg/kg dry	70.4	37.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	382		µg/kg dry	70.4	26.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	344		µg/kg dry	70.4	34.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	345		µg/kg dry	70.4	28.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	359		µg/kg dry	70.4	27.6	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 349	U	µg/kg dry	349	73.2	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 349	U	µg/kg dry	349	28.5	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 349	U	µg/kg dry	349	30.9	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 176	U	µg/kg dry	176	25.3	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 176	U	µg/kg dry	176	27.1	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 176	U	µg/kg dry	176	43.5	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 349	U	µg/kg dry	349	32.6	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 349	U	µg/kg dry	349	40.7	1	"	"	"	"	"	X
86-74-8	Carbazole	< 176	U	µg/kg dry	176	98.4	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 349	U	µg/kg dry	349	33.3	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 176	U	µg/kg dry	176	38.1	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 349	U	µg/kg dry	349	32.2	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 176	U	µg/kg dry	176	31.4	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 349	U	µg/kg dry	349	41.4	1	"	"	"	"	"	X
218-01-9	Chrysene	345		µg/kg dry	70.4	35.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	78.2		µg/kg dry	70.4	27.0	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	91.5	J	µg/kg dry	176	26.8	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 349	U	µg/kg dry	349	30.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 349	U	µg/kg dry	349	30.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 349	U	µg/kg dry	349	32.3	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 349	U	µg/kg dry	349	53.0	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 176	U	µg/kg dry	176	33.0	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 349	U	µg/kg dry	349	43.1	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 349	U	µg/kg dry	349	38.1	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 349	U	µg/kg dry	349	24.9	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 349	U	µg/kg dry	349	37.0	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 349	U	µg/kg dry	349	44.7	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 349	U	µg/kg dry	349	35.5	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 176	U	µg/kg dry	176	68.2	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 176	U	µg/kg dry	176	39.7	1	"	"	"	"	"	X

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Sample Identification

B-2 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-03	60558775	Soil	03-Oct-18 10:30	04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 349	U	µg/kg dry	349	39.4	1	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	591		µg/kg dry	70.4	37.2	1	"	"	"	"	"	X
86-73-7	Fluorene	52.1	J	µg/kg dry	70.4	35.8	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 176	U	µg/kg dry	176	34.7	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 176	U	µg/kg dry	176	42.1	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 176	U	µg/kg dry	176	24.0	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 176	U	µg/kg dry	176	38.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	337		µg/kg dry	70.4	25.3	1	"	"	"	"	"	X
78-59-1	Isophorone	< 176	U	µg/kg dry	176	33.1	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	771		µg/kg dry	70.4	42.6	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 349	U	µg/kg dry	349	29.6	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 349	U	µg/kg dry	349	33.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	242		µg/kg dry	70.4	32.8	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 349	U	µg/kg dry	349	29.6	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 349	U	µg/kg dry	349	47.6	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 176	U	µg/kg dry	176	54.3	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 176	U	µg/kg dry	176	32.1	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 176	U	µg/kg dry	176	29.3	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1390	U	µg/kg dry	1390	56.3	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 176	U	µg/kg dry	176	32.7	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 176	U	µg/kg dry	176	34.3	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 349	U	µg/kg dry	349	37.8	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 349	U	µg/kg dry	349	37.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	344		µg/kg dry	70.4	32.8	1	"	"	"	"	"	X
108-95-2	Phenol	< 349	U	µg/kg dry	349	22.9	1	"	"	"	"	"	X
129-00-0	Pyrene	516		µg/kg dry	70.4	39.3	1	"	"	"	"	"	X
110-86-1	Pyridine	< 349	U	µg/kg dry	349	52.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 349	U	µg/kg dry	349	34.5	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	262		µg/kg dry	70.4	34.6	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 349	U	µg/kg dry	349	31.4	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 176	U	µg/kg dry	176	31.5	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 349	U	µg/kg dry	349	55.0	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 349	U	µg/kg dry	349	33.8	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	58			30-130 %	"	"	"	"	"	"	"	
367-12-4	2-Fluorophenol	53			30-130 %	"	"	"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	52			30-130 %	"	"	"	"	"	"	"	
4165-62-2	Phenol-d5	56			30-130 %	"	"	"	"	"	"	"	
1718-51-0	Terphenyl-dl4	96			30-130 %	"	"	"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	56			30-130 %	"	"	"	"	"	"	"	

General Chemistry Parameters

% Solids	94.3	%		1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

B-2 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-03	60558775	Soil	03-Oct-18 10:30	04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.1		ug/kg	5.1	1.0	1	SW8260C	03-Oct-18 10:30	08-Oct-18 13:54	M-CT0	450998A	
71-55-6	1,1,1-Trichloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	180	J.	ug/kg	500	50	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 26		ug/kg	26	5.1	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 26		ug/kg	26	5.1	1	"	"	"	"	"	
67-64-1	Acetone	< 26		ug/kg	26	5.1	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.51	1	"	"	"	"	"	
71-43-2	Benzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.1		ug/kg	5.1	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	

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Sample Identification

B-2 (0-2')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-03	60558775	Soil	03-Oct-18 10:30	04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

124-48-1	Dibromochloromethane	< 5.1		ug/kg	5.1	1.0	1	SW8260C	03-Oct-18 10:30	08-Oct-18 13:54	M-CT0	450998A	
74-95-3	Dibromomethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	140	J.	ug/kg	500	100	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 26		ug/kg	26	5.1	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.1	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	170	J.	ug/kg	500	100	50	"	"	"	"	"	
95-47-6	o-Xylene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
100-42-5	Styrene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.6	1	"	"	"	"	"	
108-88-3	Toluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
1330-20-7	Total Xylenes	140.0		ug/kg	5.1	5.1	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 10		ug/kg	10	2.6	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	109		70-130 %		"	"	"	"	"
460-00-4	% Bromofluorobenzene	87		70-130 %		"	"	"	"	"
1868-53-7	% Dibromofluoromethane	113		70-130 %		"	"	"	"	"
2037-26-5	% Toluene-d8	84		70-130 %		"	"	"	"	"

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	92	%		1	SW846-%Solid	"	05-Oct-18 23:45	M-CT0	'[none]'

Sample Identification

B-2 (5-7')

SC50830-04

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 10:50

Received

04-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 370	U, D	µg/kg dry	370	184	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 370	U, D	µg/kg dry	370	183	5	"	"	"	"	"	X
62-53-3	Aniline	< 1830	U, D	µg/kg dry	1830	132	5	"	"	"	"	"	X
120-12-7	Anthracene	381	D	µg/kg dry	370	177	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1830	U, D	µg/kg dry	1830	180	5	"	"	"	"	"	
92-87-5	Benzidine	< 3660	U, D	µg/kg dry	3660	368	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	984	D	µg/kg dry	370	195	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	978	D	µg/kg dry	370	138	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	818	D	µg/kg dry	370	179	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	838	D	µg/kg dry	370	149	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	586	D	µg/kg dry	370	145	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1830	U, D	µg/kg dry	1830	384	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1830	U, D	µg/kg dry	1830	150	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1830	U, D	µg/kg dry	1830	163	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 927	U, D	µg/kg dry	927	133	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 927	U, D	µg/kg dry	927	143	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 927	U, D	µg/kg dry	927	229	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1830	U, D	µg/kg dry	1830	172	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1830	U, D	µg/kg dry	1830	214	5	"	"	"	"	"	X
86-74-8	Carbazole	< 927	U, D	µg/kg dry	927	517	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1830	U, D	µg/kg dry	1830	175	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 927	U, D	µg/kg dry	927	200	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1830	U, D	µg/kg dry	1830	169	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 927	U, D	µg/kg dry	927	165	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1830	U, D	µg/kg dry	1830	218	5	"	"	"	"	"	X
218-01-9	Chrysene	1,110	D	µg/kg dry	370	185	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	207	J, D	µg/kg dry	370	142	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	165	J, D	µg/kg dry	927	141	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1830	U, D	µg/kg dry	1830	160	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1830	U, D	µg/kg dry	1830	160	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1830	U, D	µg/kg dry	1830	170	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1830	U, D	µg/kg dry	1830	279	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 927	U, D	µg/kg dry	927	173	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1830	U, D	µg/kg dry	1830	226	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1830	U, D	µg/kg dry	1830	200	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1830	U, D	µg/kg dry	1830	131	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1830	U, D	µg/kg dry	1830	194	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1830	U, D	µg/kg dry	1830	235	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1830	U, D	µg/kg dry	1830	186	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 927	U, D	µg/kg dry	927	358	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 927	U, D	µg/kg dry	927	209	5	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

B-2 (5-7')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-04	60558775	Soil	03-Oct-18 10:50	04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 1830	U, D	µg/kg dry	1830	207	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	1,330	D	µg/kg dry	370	196	5	"	"	"	"	"	X
86-73-7	Fluorene	209	J, D	µg/kg dry	370	188	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 927	U, D	µg/kg dry	927	182	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 927	U, D	µg/kg dry	927	221	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 927	U, D	µg/kg dry	927	126	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 927	U, D	µg/kg dry	927	200	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	753	D	µg/kg dry	370	133	5	"	"	"	"	"	X
78-59-1	Isophorone	< 927	U, D	µg/kg dry	927	174	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 370	U, D	µg/kg dry	370	224	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1830	U, D	µg/kg dry	1830	156	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1830	U, D	µg/kg dry	1830	177	5	"	"	"	"	"	X
91-20-3	Naphthalene	226	J, D	µg/kg dry	370	173	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1830	U, D	µg/kg dry	1830	155	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1830	U, D	µg/kg dry	1830	250	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 927	U, D	µg/kg dry	927	285	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 927	U, D	µg/kg dry	927	169	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 927	U, D	µg/kg dry	927	154	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7320	U, D	µg/kg dry	7320	296	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 927	U, D	µg/kg dry	927	172	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 927	U, D	µg/kg dry	927	180	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1830	U, D	µg/kg dry	1830	199	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1830	U, D	µg/kg dry	1830	196	5	"	"	"	"	"	X
85-01-8	Phenanthrene	1,330	D	µg/kg dry	370	172	5	"	"	"	"	"	X
108-95-2	Phenol	< 1830	U, D	µg/kg dry	1830	121	5	"	"	"	"	"	X
129-00-0	Pyrene	1,420	D	µg/kg dry	370	206	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1830	U, D	µg/kg dry	1830	273	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1830	U, D	µg/kg dry	1830	181	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 370	U, D	µg/kg dry	370	182	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1830	U, D	µg/kg dry	1830	165	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 927	U, D	µg/kg dry	927	165	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1830	U, D	µg/kg dry	1830	289	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1830	U, D	µg/kg dry	1830	178	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	55		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	48		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	50		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	51		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	71		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	44		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	89.3	%	1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-2 (5-7')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-04	60558775	Soil	03-Oct-18 10:50	04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.2		ug/kg	5.2	1.0	1	SW8260C	03-Oct-18 10:50	07-Oct-18 14:21	M-CT0	450998A	
71-55-6	1,1,1-Trichloroethane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	74	J.	ug/kg	510	51	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 26		ug/kg	26	5.2	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	0.83	J.	ug/kg	5.2	0.52	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 26		ug/kg	26	5.2	1	"	"	"	"	"	
67-64-1	Acetone	40	S	ug/kg	26	5.2	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.52	1	"	"	"	"	"	
71-43-2	Benzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.2		ug/kg	5.2	2.1	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	1.6	J.	ug/kg	5.2	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	

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Sample Identification

B-2 (5-7')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-04	60558775	Soil	03-Oct-18 10:50	04-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

124-48-1	Dibromochloromethane	< 5.2		ug/kg	5.2	1.0	1	SW8260C	03-Oct-18 10:50	07-Oct-18 14:21	M-CT0	450998A	
74-95-3	Dibromomethane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	9.9	J.	ug/kg	26	5.2	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.2	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	220		ug/kg	200	100	50	"	"	"	"	"	
95-47-6	o-Xylene	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	0.59	J.	ug/kg	5.2	0.52	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	0.68	J.	ug/kg	5.2	0.52	1	"	"	"	"	"	
100-42-5	Styrene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.6	1	"	"	"	"	"	
108-88-3	Toluene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.2		ug/kg	5.2	5.2	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 10		ug/kg	10	2.6	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.2		ug/kg	5.2	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.2		ug/kg	5.2	0.52	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	104			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	91			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	110			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	87			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	87	%				1	SW846-%Solid	"	05-Oct-18 23:45	M-CT0	'[none]'

Sample Identification

GW-1

SC50830-05

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 12:20

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.76	U	µg/l	4.76	1.04	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
208-96-8	Acenaphthylene	< 4.76	U	µg/l	4.76	1.10	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.76	U	µg/l	4.76	0.470	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.76	U	µg/l	4.76	0.921	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.52	U	µg/l	9.52	4.35	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.76	U	µg/l	4.76	0.828	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.76	U	µg/l	4.76	0.684	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.76	U	µg/l	4.76	0.637	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.76	U	µg/l	4.76	0.667	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.76	U	µg/l	4.76	0.935	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.76	U	µg/l	4.76	1.00	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.76	U	µg/l	4.76	0.832	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.76	U	µg/l	4.76	0.690	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.892	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.76	U	µg/l	4.76	0.445	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.76	U	µg/l	4.76	1.49	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.76	U	µg/l	4.76	0.793	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.76	U	µg/l	4.76	1.29	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.474	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.76	U	µg/l	4.76	0.891	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.76	U	µg/l	4.76	0.646	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.76	U	µg/l	4.76	1.16	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.62	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.44	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.76	U	µg/l	4.76	0.807	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.76	U	µg/l	4.76	0.895	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.76	U	µg/l	4.76	1.72	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	0.686	J	µg/l	4.76	0.591	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.76	U	µg/l	4.76	1.03	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.76	U	µg/l	4.76	1.15	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.13	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X

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Sample Identification

GW-1

SC50830-05

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 12:20

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.76	U	µg/l	4.76	1.20	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
206-44-0	Fluoranthene	< 4.76	U	µg/l	4.76	0.971	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.76	U	µg/l	4.76	0.927	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.76	U	µg/l	4.76	1.28	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.76	U	µg/l	4.76	1.45	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.76	U	µg/l	4.76	1.59	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.76	U	µg/l	4.76	0.553	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.76	U	µg/l	4.76	0.778	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.76	U	µg/l	4.76	1.57	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.52	U	µg/l	9.52	1.08	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.76	U	µg/l	4.76	1.30	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.76	U	µg/l	4.76	0.478	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.76	U	µg/l	4.76	0.606	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.76	U	µg/l	4.76	0.599	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.76	U	µg/l	4.76	1.23	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.76	U	µg/l	4.76	0.683	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.0	U	µg/l	19.0	0.742	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.76	U	µg/l	4.76	0.570	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.76	U	µg/l	4.76	0.981	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.0	U	µg/l	19.0	0.740	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.76	U	µg/l	4.76	0.941	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.76	U	µg/l	4.76	0.388	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	4.07	J	µg/l	4.76	1.12	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.76	U	µg/l	4.76	0.744	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.76	U	µg/l	4.76	0.666	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.76	U	µg/l	4.76	0.765	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.76	U	µg/l	4.76	1.05	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	72		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	50		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	79		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	33		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	83		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	84		15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

GW-1

SC50830-05

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 12:20

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
Subcontracted Analyses													
Prepared by method SW8260C													
Analysis performed by Phoenix Environmental Labs, Inc. * - CT007													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	03-Oct-18 12:20	09-Oct-18 00:04	M-CT0	451011A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	3.1	S, J.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	0.27	J.	ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	

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Sample Identification

GW-1

SC50830-05

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 12:20

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	SW8260C	03-Oct-18 12:20	09-Oct-18 00:04	M-CT0	451011A	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	103			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	102			70-130 %		"	"	"	"	"	

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Sample Identification

DUP20181003GW

SC50830-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.72	U	µg/l	4.72	1.03	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
208-96-8	Acenaphthylene	< 4.72	U	µg/l	4.72	1.08	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.72	U	µg/l	4.72	0.466	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.72	U	µg/l	4.72	0.912	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.43	U	µg/l	9.43	4.31	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72	U	µg/l	4.72	0.820	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72	U	µg/l	4.72	0.677	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72	U	µg/l	4.72	0.631	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72	U	µg/l	4.72	0.660	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72	U	µg/l	4.72	0.926	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.72	U	µg/l	4.72	0.991	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.72	U	µg/l	4.72	0.825	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.72	U	µg/l	4.72	0.683	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.884	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.72	U	µg/l	4.72	0.441	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.72	U	µg/l	4.72	1.47	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.72	U	µg/l	4.72	0.786	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.72	U	µg/l	4.72	1.27	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.470	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72	U	µg/l	4.72	0.883	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72	U	µg/l	4.72	0.640	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.72	U	µg/l	4.72	1.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.60	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.49	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.42	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.72	U	µg/l	4.72	0.799	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.72	U	µg/l	4.72	0.887	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.72	U	µg/l	4.72	1.71	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.72	U	µg/l	4.72	0.586	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.72	U	µg/l	4.72	1.02	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.72	U	µg/l	4.72	1.14	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.12	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X

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Sample Identification

DUP20181003GW

SC50830-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.72	U	µg/l	4.72	1.19	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
206-44-0	Fluoranthene	< 4.72	U	µg/l	4.72	0.962	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72	U	µg/l	4.72	0.918	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.72	U	µg/l	4.72	1.26	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.72	U	µg/l	4.72	1.43	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.72	U	µg/l	4.72	1.58	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72	U	µg/l	4.72	0.548	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.72	U	µg/l	4.72	0.771	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.72	U	µg/l	4.72	1.56	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.43	U	µg/l	9.43	1.07	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72	U	µg/l	4.72	1.28	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.72	U	µg/l	4.72	0.474	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.72	U	µg/l	4.72	0.600	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.72	U	µg/l	4.72	0.593	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.72	U	µg/l	4.72	1.22	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.72	U	µg/l	4.72	0.676	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.9	U	µg/l	18.9	0.735	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.72	U	µg/l	4.72	0.565	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.72	U	µg/l	4.72	0.972	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.9	U	µg/l	18.9	0.733	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72	U	µg/l	4.72	0.932	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.72	U	µg/l	4.72	0.384	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.72	U	µg/l	4.72	1.48	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	2.54	J	µg/l	4.72	1.11	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.72	U	µg/l	4.72	0.737	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.72	U	µg/l	4.72	0.659	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.72	U	µg/l	4.72	0.758	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.72	U	µg/l	4.72	1.04	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	46		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	30		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	47		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	19		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	56		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	48		15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

DUP20181003GW

SC50830-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	03-Oct-18 08:00	09-Oct-18 00:26	M-CT0	451011A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	3.9	S, J.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	0.54	J.	ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	

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Sample Identification

DUP20181003GW

SC50830-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	SW8260C	03-Oct-18 08:00	09-Oct-18 00:26	M-CT0	451011A	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	102			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	99			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	101			70-130 %		"	"	"	"	"	

Sample Identification

B-11 (0-2') Client Project # 60558775 Matrix Soil Collection Date/Time 03-Oct-18 14:40 Received 04-Oct-18
SC50830-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	343	J, D	µg/kg dry	363	181	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 363	U, D	µg/kg dry	363	179	5	"	"	"	"	"	X
62-53-3	Aniline	< 1790	U, D	µg/kg dry	1790	129	5	"	"	"	"	"	X
120-12-7	Anthracene	912	D	µg/kg dry	363	173	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1790	U, D	µg/kg dry	1790	176	5	"	"	"	"	"	
92-87-5	Benzidine	< 3590	U, D	µg/kg dry	3590	361	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	3,720	D	µg/kg dry	363	191	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	3,590	D	µg/kg dry	363	135	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	3,180	D	µg/kg dry	363	176	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	2,520	D	µg/kg dry	363	146	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	2,820	D	µg/kg dry	363	142	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1790	U, D	µg/kg dry	1790	377	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1790	U, D	µg/kg dry	1790	147	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1790	U, D	µg/kg dry	1790	159	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 908	U, D	µg/kg dry	908	130	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 908	U, D	µg/kg dry	908	140	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 908	U, D	µg/kg dry	908	224	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1790	U, D	µg/kg dry	1790	168	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1790	U, D	µg/kg dry	1790	209	5	"	"	"	"	"	X
86-74-8	Carbazole	< 908	U, D	µg/kg dry	908	507	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1790	U, D	µg/kg dry	1790	171	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 908	U, D	µg/kg dry	908	196	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1790	U, D	µg/kg dry	1790	166	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 908	U, D	µg/kg dry	908	162	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1790	U, D	µg/kg dry	1790	213	5	"	"	"	"	"	X
218-01-9	Chrysene	3,580	D	µg/kg dry	363	181	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	674	D	µg/kg dry	363	139	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	259	J, D	µg/kg dry	908	138	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1790	U, D	µg/kg dry	1790	157	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1790	U, D	µg/kg dry	1790	157	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1790	U, D	µg/kg dry	1790	166	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1790	U, D	µg/kg dry	1790	273	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 908	U, D	µg/kg dry	908	170	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1790	U, D	µg/kg dry	1790	222	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1790	U, D	µg/kg dry	1790	196	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1790	U, D	µg/kg dry	1790	128	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1790	U, D	µg/kg dry	1790	190	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1790	U, D	µg/kg dry	1790	230	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1790	U, D	µg/kg dry	1790	183	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 908	U, D	µg/kg dry	908	351	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 908	U, D	µg/kg dry	908	204	5	"	"	"	"	"	X

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Sample Identification**B-11 (0-2')**

SC50830-07

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 14:40

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 1790	U, D	µg/kg dry	1790	203	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	7,620	D	µg/kg dry	363	192	5	"	"	"	"	"	X
86-73-7	Fluorene	357	J, D	µg/kg dry	363	184	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 908	U, D	µg/kg dry	908	179	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 908	U, D	µg/kg dry	908	217	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 908	U, D	µg/kg dry	908	123	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 908	U, D	µg/kg dry	908	196	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	2,590	D	µg/kg dry	363	131	5	"	"	"	"	"	X
78-59-1	Isophorone	< 908	U, D	µg/kg dry	908	170	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 363	U, D	µg/kg dry	363	219	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1790	U, D	µg/kg dry	1790	153	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1790	U, D	µg/kg dry	1790	173	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 363	U, D	µg/kg dry	363	169	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1790	U, D	µg/kg dry	1790	152	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1790	U, D	µg/kg dry	1790	245	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 908	U, D	µg/kg dry	908	280	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 908	U, D	µg/kg dry	908	165	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 908	U, D	µg/kg dry	908	151	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7180	U, D	µg/kg dry	7180	290	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 908	U, D	µg/kg dry	908	169	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 908	U, D	µg/kg dry	908	177	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1790	U, D	µg/kg dry	1790	195	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1790	U, D	µg/kg dry	1790	192	5	"	"	"	"	"	X
85-01-8	Phenanthrene	4,550	D	µg/kg dry	363	169	5	"	"	"	"	"	X
108-95-2	Phenol	< 1790	U, D	µg/kg dry	1790	118	5	"	"	"	"	"	X
129-00-0	Pyrene	6,870	D	µg/kg dry	363	202	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1790	U, D	µg/kg dry	1790	268	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1790	U, D	µg/kg dry	1790	178	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 363	U, D	µg/kg dry	363	178	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1790	U, D	µg/kg dry	1790	162	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 908	U, D	µg/kg dry	908	162	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1790	U, D	µg/kg dry	1790	283	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1790	U, D	µg/kg dry	1790	174	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	51			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	42			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	47			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	48			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	91			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	38			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.0	%					1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-11 (0-2')**

SC50830-07

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 14:40

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	SW8260C	03-Oct-18 14:40	07-Oct-18 14:42	M-CT0	450841A	
71-55-6	1,1,1-Trichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.50	1	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/kg	5.0	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

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Sample Identification**B-11 (0-2')**

SC50830-07

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 14:40

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

124-48-1	Dibromochloromethane	< 5.0		ug/kg	5.0	1.0	1	SW8260C	03-Oct-18 14:40	07-Oct-18 14:42	M-CT0	450841A	
74-95-3	Dibromomethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	150	J.	ug/kg	470	93	50	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.0		ug/kg	5.0	5.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	106			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	87			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	103			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	86			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	91	%					1	SW846-%Solid	"	05-Oct-18 23:45	M-CT0	'[none]'	

Sample Identification

B-11 (5-7')
SC50830-08

Client Project #
60558775

Matrix
Soil

Collection Date/Time
03-Oct-18 14:58

Received
04-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	625	D	µg/kg dry	370	184	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 370	U, D	µg/kg dry	370	183	5	"	"	"	"	"	X
62-53-3	Aniline	< 1830	U, D	µg/kg dry	1830	132	5	"	"	"	"	"	X
120-12-7	Anthracene	1,630	D	µg/kg dry	370	177	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1830	U, D	µg/kg dry	1830	180	5	"	"	"	"	"	
92-87-5	Benzidine	< 3660	U, D	µg/kg dry	3660	369	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	7,480	D	µg/kg dry	370	195	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	6,720	D	µg/kg dry	370	138	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	7,170	D	µg/kg dry	370	179	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	4,120	D	µg/kg dry	370	149	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	4,460	D	µg/kg dry	370	145	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1830	U, D	µg/kg dry	1830	385	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1830	U, D	µg/kg dry	1830	150	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1830	U, D	µg/kg dry	1830	163	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 927	U, D	µg/kg dry	927	133	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 927	U, D	µg/kg dry	927	143	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	322	J, D	µg/kg dry	927	229	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1830	U, D	µg/kg dry	1830	172	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1830	U, D	µg/kg dry	1830	214	5	"	"	"	"	"	X
86-74-8	Carbazole	< 927	U, D	µg/kg dry	927	517	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1830	U, D	µg/kg dry	1830	175	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 927	U, D	µg/kg dry	927	200	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1830	U, D	µg/kg dry	1830	169	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 927	U, D	µg/kg dry	927	165	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1830	U, D	µg/kg dry	1830	218	5	"	"	"	"	"	X
218-01-9	Chrysene	7,430	D	µg/kg dry	370	185	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	1,300	D	µg/kg dry	370	142	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	474	J, D	µg/kg dry	927	141	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1830	U, D	µg/kg dry	1830	160	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1830	U, D	µg/kg dry	1830	160	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1830	U, D	µg/kg dry	1830	170	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1830	U, D	µg/kg dry	1830	279	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 927	U, D	µg/kg dry	927	173	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1830	U, D	µg/kg dry	1830	226	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1830	U, D	µg/kg dry	1830	200	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1830	U, D	µg/kg dry	1830	131	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1830	U, D	µg/kg dry	1830	194	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1830	U, D	µg/kg dry	1830	235	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1830	U, D	µg/kg dry	1830	187	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 927	U, D	µg/kg dry	927	359	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 927	U, D	µg/kg dry	927	209	5	"	"	"	"	"	X

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Sample Identification**B-11 (5-7')**

SC50830-08

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 14:58

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 1830	U, D	µg/kg dry	1830	207	5	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	12,900	D	µg/kg dry	370	196	5	"	"	"	"	"	X
86-73-7	Fluorene	659	D	µg/kg dry	370	188	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 927	U, D	µg/kg dry	927	182	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 927	U, D	µg/kg dry	927	221	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 927	U, D	µg/kg dry	927	126	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 927	U, D	µg/kg dry	927	200	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	4,270	D	µg/kg dry	370	133	5	"	"	"	"	"	X
78-59-1	Isophorone	< 927	U, D	µg/kg dry	927	174	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 370	U, D	µg/kg dry	370	224	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1830	U, D	µg/kg dry	1830	156	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1830	U, D	µg/kg dry	1830	177	5	"	"	"	"	"	X
91-20-3	Naphthalene	183	J, D	µg/kg dry	370	173	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1830	U, D	µg/kg dry	1830	155	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1830	U, D	µg/kg dry	1830	250	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 927	U, D	µg/kg dry	927	285	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 927	U, D	µg/kg dry	927	169	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 927	U, D	µg/kg dry	927	154	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7330	U, D	µg/kg dry	7330	296	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 927	U, D	µg/kg dry	927	172	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 927	U, D	µg/kg dry	927	181	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1830	U, D	µg/kg dry	1830	199	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1830	U, D	µg/kg dry	1830	196	5	"	"	"	"	"	X
85-01-8	Phenanthrene	8,100	D	µg/kg dry	370	172	5	"	"	"	"	"	X
108-95-2	Phenol	< 1830	U, D	µg/kg dry	1830	121	5	"	"	"	"	"	X
129-00-0	Pyrene	12,700	D	µg/kg dry	370	206	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1830	U, D	µg/kg dry	1830	273	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1830	U, D	µg/kg dry	1830	182	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 370	U, D	µg/kg dry	370	182	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1830	U, D	µg/kg dry	1830	165	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 927	U, D	µg/kg dry	927	165	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1830	U, D	µg/kg dry	1830	289	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1830	U, D	µg/kg dry	1830	178	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	48			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	38			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	39			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	39			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	90			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	37			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.6	%					1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-11 (5-7')	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50830-08	60558775	Soil	03-Oct-18 14:58	04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 400		ug/kg	400	79	50	SW8260C	03-Oct-18 14:58	08-Oct-18 10:16	M-CT0	450998A	
71-55-6	1,1,1-Trichloroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 400		ug/kg	400	79	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 400		ug/kg	400	79	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 400		ug/kg	400	79	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 400		ug/kg	400	40	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 400		ug/kg	400	79	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 400		ug/kg	400	40	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 400		ug/kg	400	79	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 400		ug/kg	400	79	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 400		ug/kg	400	79	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 400		ug/kg	400	79	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 400		ug/kg	400	40	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 400		ug/kg	400	79	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 2000		ug/kg	2000	400	50	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 400		ug/kg	400	40	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 400		ug/kg	400	40	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 2000		ug/kg	2000	400	50	"	"	"	"	"	
67-64-1	Acetone	730	S, J.	ug/kg	2000	400	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 790		ug/kg	790	40	50	"	"	"	"	"	
71-43-2	Benzene	64	J.	ug/kg	400	40	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 400		ug/kg	400	79	50	"	"	"	"	"	
75-25-2	Bromoform	< 400		ug/kg	400	79	50	"	"	"	"	"	
74-83-9	Bromomethane	< 400		ug/kg	400	160	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 400		ug/kg	400	79	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 400		ug/kg	400	79	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-00-3	Chloroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
67-66-3	Chloroform	< 400		ug/kg	400	40	50	"	"	"	"	"	
74-87-3	Chloromethane	< 400		ug/kg	400	79	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 400		ug/kg	400	40	50	"	"	"	"	"	

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Sample Identification**B-11 (5-7')**

SC50830-08

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 14:58

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

124-48-1	Dibromochloromethane	< 400		ug/kg	400	79	50	SW8260C	03-Oct-18 14:58	08-Oct-18 10:16	M-CT0	450998A	
74-95-3	Dibromomethane	< 400		ug/kg	400	79	50	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 400		ug/kg	400	40	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	150	J.	ug/kg	400	79	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 2000		ug/kg	2000	400	50	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 790		ug/kg	790	79	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 790		ug/kg	790	400	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 400		ug/kg	400	79	50	"	"	"	"	"	
91-20-3	Naphthalene	250	J.	ug/kg	400	79	50	"	"	"	"	"	
95-47-6	o-Xylene	< 400		ug/kg	400	79	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 400		ug/kg	400	40	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
100-42-5	Styrene	< 400		ug/kg	400	40	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 400		ug/kg	400	40	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 400		ug/kg	400	79	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 790		ug/kg	790	200	50	"	"	"	"	"	
108-88-3	Toluene	210	J.	ug/kg	400	40	50	"	"	"	"	"	
1330-20-7	Total Xylenes	< 400		ug/kg	400	400	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 400		ug/kg	400	40	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 790		ug/kg	790	200	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 400		ug/kg	400	79	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 400		ug/kg	400	40	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 400		ug/kg	400	40	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	96			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	98			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	88			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	88	%					1	SW846-%Solid	"	05-Oct-18 23:45	M-CT0	'[none]'	

Sample Identification

DUP20181003SO

SC50830-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 1450	U, D	µg/kg dry	1450	723	20	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 1450	U, D	µg/kg dry	1450	716	20	"	"	"	"	"	X
62-53-3	Aniline	< 7180	U, D	µg/kg dry	7180	516	20	"	"	"	"	"	X
120-12-7	Anthracene	1,270	J, D	µg/kg dry	1450	694	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 7180	U, D	µg/kg dry	7180	706	20	"	"	"	"	"	
92-87-5	Benzidine	< 14400	U, D	µg/kg dry	14400	1450	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	5,210	D	µg/kg dry	1450	766	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	5,000	D	µg/kg dry	1450	541	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	5,230	D	µg/kg dry	1450	703	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	3,400	D	µg/kg dry	1450	583	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	3,670	D	µg/kg dry	1450	568	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 7180	U, D	µg/kg dry	7180	1510	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 7180	U, D	µg/kg dry	7180	588	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 7180	U, D	µg/kg dry	7180	638	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 3640	U, D	µg/kg dry	3640	521	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 3640	U, D	µg/kg dry	3640	559	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 3640	U, D	µg/kg dry	3640	897	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 7180	U, D	µg/kg dry	7180	673	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 7180	U, D	µg/kg dry	7180	838	20	"	"	"	"	"	X
86-74-8	Carbazole	< 3640	U, D	µg/kg dry	3640	2030	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 7180	U, D	µg/kg dry	7180	686	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 3640	U, D	µg/kg dry	3640	786	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 7180	U, D	µg/kg dry	7180	664	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 3640	U, D	µg/kg dry	3640	647	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 7180	U, D	µg/kg dry	7180	853	20	"	"	"	"	"	X
218-01-9	Chrysene	5,310	D	µg/kg dry	1450	725	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	929	J, D	µg/kg dry	1450	557	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 3640	U, D	µg/kg dry	3640	553	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7180	U, D	µg/kg dry	7180	627	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7180	U, D	µg/kg dry	7180	627	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7180	U, D	µg/kg dry	7180	666	20	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 7180	U, D	µg/kg dry	7180	1090	20	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 3640	U, D	µg/kg dry	3640	680	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 7180	U, D	µg/kg dry	7180	888	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 7180	U, D	µg/kg dry	7180	786	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 7180	U, D	µg/kg dry	7180	514	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 7180	U, D	µg/kg dry	7180	762	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 7180	U, D	µg/kg dry	7180	922	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 7180	U, D	µg/kg dry	7180	731	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 3640	U, D	µg/kg dry	3640	1410	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 3640	U, D	µg/kg dry	3640	818	20	"	"	"	"	"	X

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Sample Identification

DUP20181003SO

SC50830-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCMS

Semivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 7180	U, D	µg/kg dry	7180	812	20	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	8,780	D	µg/kg dry	1450	767	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1450	U, D	µg/kg dry	1450	738	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 3640	U, D	µg/kg dry	3640	716	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 3640	U, D	µg/kg dry	3640	869	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 3640	U, D	µg/kg dry	3640	494	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 3640	U, D	µg/kg dry	3640	784	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	3,560	D	µg/kg dry	1450	522	20	"	"	"	"	"	X
78-59-1	Isophorone	< 3640	U, D	µg/kg dry	3640	681	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1450	U, D	µg/kg dry	1450	877	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 7180	U, D	µg/kg dry	7180	611	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 7180	U, D	µg/kg dry	7180	694	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1450	U, D	µg/kg dry	1450	677	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 7180	U, D	µg/kg dry	7180	610	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 7180	U, D	µg/kg dry	7180	982	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 3640	U, D	µg/kg dry	3640	1120	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 3640	U, D	µg/kg dry	3640	662	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 3640	U, D	µg/kg dry	3640	603	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 28700	U, D	µg/kg dry	28700	1160	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 3640	U, D	µg/kg dry	3640	675	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 3640	U, D	µg/kg dry	3640	708	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 7180	U, D	µg/kg dry	7180	779	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 7180	U, D	µg/kg dry	7180	768	20	"	"	"	"	"	X
85-01-8	Phenanthrene	6,440	D	µg/kg dry	1450	676	20	"	"	"	"	"	X
108-95-2	Phenol	< 7180	U, D	µg/kg dry	7180	473	20	"	"	"	"	"	X
129-00-0	Pyrene	9,240	D	µg/kg dry	1450	810	20	"	"	"	"	"	X
110-86-1	Pyridine	< 7180	U, D	µg/kg dry	7180	1070	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7180	U, D	µg/kg dry	7180	712	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1450	U, D	µg/kg dry	1450	714	20	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 7180	U, D	µg/kg dry	7180	647	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 3640	U, D	µg/kg dry	3640	648	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 7180	U, D	µg/kg dry	7180	1130	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 7180	U, D	µg/kg dry	7180	697	20	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	62			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	50			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	52			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	48			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	103			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	46			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.2	%					1	SM2540 G (11) Mod.	04-Oct-18	04-Oct-18	BD	1813326	

Subcontracted Analyses

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

DUP20181003SO

SC50830-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.8		ug/kg	4.8	0.96	1	SW8260C	03-Oct-18 08:00	07-Oct-18 15:46	M-CT0	450841A	
71-55-6	1,1,1-Trichloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
67-64-1	Acetone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.6		ug/kg	9.6	0.48	1	"	"	"	"	"	
71-43-2	Benzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.8		ug/kg	4.8	1.9	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	

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Sample Identification

DUP20181003SO

SC50830-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

03-Oct-18 08:00

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

124-48-1	Dibromochloromethane	< 4.8		ug/kg	4.8	0.96	1	SW8260C	03-Oct-18 08:00	07-Oct-18 15:46	M-CT0	450841A	
74-95-3	Dibromomethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.6		ug/kg	9.6	0.96	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.6		ug/kg	9.6	4.8	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
100-42-5	Styrene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.6		ug/kg	9.6	2.4	1	"	"	"	"	"	
108-88-3	Toluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.8		ug/kg	4.8	4.8	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.6		ug/kg	9.6	2.4	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	97			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	98			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	104			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	86			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	91	%					1	SW846-%Solid	"	05-Oct-18 23:45	M-CT0	'[none]'	

Sample Identification

GW-5

SC50830-10

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 15:40

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.76	U	µg/l	4.76	1.04	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
208-96-8	Acenaphthylene	< 4.76	U	µg/l	4.76	1.10	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.76	U	µg/l	4.76	0.470	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.76	U	µg/l	4.76	0.921	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.52	U	µg/l	9.52	4.35	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.76	U	µg/l	4.76	0.828	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.76	U	µg/l	4.76	0.684	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.76	U	µg/l	4.76	0.637	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.76	U	µg/l	4.76	0.667	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.76	U	µg/l	4.76	0.935	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.76	U	µg/l	4.76	1.00	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.76	U	µg/l	4.76	0.832	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.76	U	µg/l	4.76	0.690	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.892	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.76	U	µg/l	4.76	0.445	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.76	U	µg/l	4.76	1.49	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.76	U	µg/l	4.76	0.793	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.76	U	µg/l	4.76	1.29	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.474	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.76	U	µg/l	4.76	0.891	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.76	U	µg/l	4.76	0.646	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.76	U	µg/l	4.76	1.16	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.62	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.44	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.76	U	µg/l	4.76	0.807	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.76	U	µg/l	4.76	0.895	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.76	U	µg/l	4.76	1.72	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.76	U	µg/l	4.76	0.591	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.76	U	µg/l	4.76	1.03	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.76	U	µg/l	4.76	1.15	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.13	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X

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Sample Identification

GW-5

SC50830-10

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 15:40

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.76	U	µg/l	4.76	1.20	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
206-44-0	Fluoranthene	< 4.76	U	µg/l	4.76	0.971	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.76	U	µg/l	4.76	0.927	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.76	U	µg/l	4.76	1.28	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.76	U	µg/l	4.76	1.45	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.76	U	µg/l	4.76	1.59	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.76	U	µg/l	4.76	0.553	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.76	U	µg/l	4.76	0.778	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.76	U	µg/l	4.76	1.57	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.52	U	µg/l	9.52	1.08	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.76	U	µg/l	4.76	1.30	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.76	U	µg/l	4.76	0.478	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.76	U	µg/l	4.76	0.606	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.76	U	µg/l	4.76	0.599	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.76	U	µg/l	4.76	1.23	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.76	U	µg/l	4.76	0.683	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.0	U	µg/l	19.0	0.742	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.76	U	µg/l	4.76	0.570	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.76	U	µg/l	4.76	0.981	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.0	U	µg/l	19.0	0.740	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.76	U	µg/l	4.76	0.941	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.76	U	µg/l	4.76	0.388	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.76	U	µg/l	4.76	1.12	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.76	U	µg/l	4.76	0.744	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.76	U	µg/l	4.76	0.666	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.76	U	µg/l	4.76	0.765	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.76	U	µg/l	4.76	1.05	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	69		30-130 %		"	"	"	"	"
367-12-4	2-Fluorophenol	47		15-110 %		"	"	"	"	"
4165-60-0	Nitrobenzene-d5	70		30-130 %		"	"	"	"	"
4165-62-2	Phenol-d5	31		15-110 %		"	"	"	"	"
1718-51-0	Terphenyl-dl4	91		30-130 %		"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	68		15-110 %		"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

GW-5

SC50830-10

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 15:40

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	03-Oct-18 15:40	09-Oct-18 00:49	M-CT0	451011A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	

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Sample Identification

GW-5

SC50830-10

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

03-Oct-18 15:40

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	SW8260C	03-Oct-18 15:40	09-Oct-18 00:49	M-CT0	451011A	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	0.28	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	0.27	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	102			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	95			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	101			70-130 %		"	"	"	"	"	

Sample Identification

TB

SC50830-11

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 14:58

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	03-Oct-18 14:50	08-Oct-18 20:42	M-CT0	451011A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	3.0	S, J.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TB

SC50830-11

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 14:58

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	SW8260C	03-Oct-18 14:50	08-Oct-18 20:42	M-CT0	451011A	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	102			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	105			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	99			70-130 %		"	"	"	"	"	

Sample Identification

TB

SC50830-12

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 14:58

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 250		ug/kg	250	50	50	SW8260C	03-Oct-18 14:50	07-Oct-18 12:34	M-CT0	450841A	
71-55-6	1,1,1-Trichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 250		ug/kg	250	50	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
67-64-1	Acetone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 500		ug/kg	500	25	50	"	"	"	"	"	
71-43-2	Benzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-25-2	Bromoform	< 250		ug/kg	250	50	50	"	"	"	"	"	
74-83-9	Bromomethane	< 250		ug/kg	250	100	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 250		ug/kg	250	50	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-00-3	Chloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
67-66-3	Chloroform	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-87-3	Chloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	

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Sample Identification

TB

SC50830-12

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 14:58

Received

04-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

124-48-1	Dibromochloromethane	< 250		ug/kg	250	50	50	SW8260C	03-Oct-18 14:50	07-Oct-18 12:34	M-CT0	450841A	
74-95-3	Dibromomethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 500		ug/kg	500	50	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 500		ug/kg	500	250	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
91-20-3	Naphthalene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-47-6	o-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-42-5	Styrene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 250		ug/kg	250	50	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 500		ug/kg	500	130	50	"	"	"	"	"	
108-88-3	Toluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
1330-20-7	Total Xylenes	< 250		ug/kg	250	250	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 500		ug/kg	500	130	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 250		ug/kg	250	25	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	95			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	89			70-130 %			"	"	"	"	"	

Subcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	SW8260C (LOW LEVEL)	"	07-Oct-18 11:51	M-CT0	"	
71-55-6	1,1,1-Trichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

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Sample Identification

TB

SC50830-12

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 14:58

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

563-58-6	1,1-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	SW8260C (LOW LEVEL)	03-Oct-18 14:50	07-Oct-18 11:51	M-CT0	450841A	
87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.50	1	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/kg	5.0	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	

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Sample Identification

TB

SC50830-12

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

02-Oct-18 14:58

Received

04-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

78-93-3	Methyl Ethyl Ketone	< 25		ug/kg	25	5.0	1	SW8260C (LOW LEVEL)	03-Oct-18 14:50	07-Oct-18 11:51	M-CT0	450841A	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.0		ug/kg	5.0	5.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-butene	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	93			70-130 %		"	"	"	"	"	"	
460-00-4	% Bromofluorobenzene	101			70-130 %		"	"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	103			70-130 %		"	"	"	"	"	"	
2037-26-5	% Toluene-d8	87			70-130 %		"	"	"	"	"	"	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
Blank (1813400-BLK1)	Prepared: 08-Oct-18 Analyzed: 10-Oct-18									
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3'-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
Blank (1813400-BLK1)					Prepared: 08-Oct-18 Analyzed: 10-Oct-18					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	13.6	SBN	µg/l		50.0		27	30-130		
Surrogate: 2-Fluorophenol	10.6		µg/l		50.0		21	15-110		
Surrogate: Nitrobenzene-d5	16.0		µg/l		50.0		32	30-130		
Surrogate: Phenol-d5	6.58	SAC	µg/l		50.0		13	15-110		
Surrogate: Terphenyl-dl4	24.2		µg/l		50.0		48	30-130		
Surrogate: 2,4,6-Tribromophenol	10.5		µg/l		50.0		21	15-110		
LCS (1813400-BS1)					Prepared: 08-Oct-18 Analyzed: 10-Oct-18					
Acenaphthene	24.7		µg/l	5.00	50.0		49	40-140		
Acenaphthylene	24.6		µg/l	5.00	50.0		49	40-140		
Aniline	16.9	QC6	µg/l	5.00	50.0		34	40-140		
Anthracene	23.1		µg/l	5.00	50.0		46	40-140		
Azobenzene/Diphenyldiazene	26.8		µg/l	5.00	50.0		54	40-140		
Benzidine	75.6	QC2	µg/l	10.0	50.0		151	40-140		
Benzo (a) anthracene	33.0		µg/l	5.00	50.0		66	40-140		
Benzo (a) pyrene	36.5		µg/l	5.00	50.0		73	40-140		
Benzo (b) fluoranthene	35.8		µg/l	5.00	50.0		72	40-140		
Benzo (g,h,i) perylene	35.9		µg/l	5.00	50.0		72	40-140		
Benzo (k) fluoranthene	37.8		µg/l	5.00	50.0		76	40-140		
Benzoic acid	10.7	QC6	µg/l	5.00	50.0		21	30-130		
Benzyl alcohol	23.5		µg/l	5.00	50.0		47	40-140		
Bis(2-chloroethoxy)methane	19.0	QC6	µg/l	5.00	50.0		38	40-140		
Bis(2-chloroethyl)ether	20.2		µg/l	5.00	50.0		40	40-140		
Bis(2-chloroisopropyl)ether	23.0		µg/l	5.00	50.0		46	40-140		
Bis(2-ethylhexyl)phthalate	36.0		µg/l	5.00	50.0		72	40-140		
4-Bromophenyl phenyl ether	21.4		µg/l	5.00	50.0		43	40-140		
Butyl benzyl phthalate	36.0		µg/l	5.00	50.0		72	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
LCS (1813400-BS1)	Prepared: 08-Oct-18 Analyzed: 10-Oct-18									
Carbazole	50.5		µg/l	5.00	50.0		101	40-140		
4-Chloro-3-methylphenol	24.2		µg/l	5.00	50.0		48	30-130		
4-Chloroaniline	23.5		µg/l	5.00	50.0		47	40-140		
2-Chloronaphthalene	26.6		µg/l	5.00	50.0		53	40-140		
2-Chlorophenol	20.2		µg/l	5.00	50.0		40	30-130		
4-Chlorophenyl phenyl ether	23.5		µg/l	5.00	50.0		47	40-140		
Chrysene	38.0		µg/l	5.00	50.0		76	40-140		
Dibenzo (a,h) anthracene	37.2		µg/l	5.00	50.0		74	40-140		
Dibenzofuran	25.2		µg/l	5.00	50.0		50	40-140		
1,2-Dichlorobenzene	26.6		µg/l	5.00	50.0		53	40-140		
1,3-Dichlorobenzene	25.2		µg/l	5.00	50.0		50	40-140		
1,4-Dichlorobenzene	26.7		µg/l	5.00	50.0		53	40-140		
3,3'-Dichlorobenzidine	52.4		µg/l	5.00	50.0		105	40-140		
2,4-Dichlorophenol	20.8		µg/l	5.00	50.0		42	30-130		
Diethyl phthalate	25.7		µg/l	5.00	50.0		51	40-140		
Dimethyl phthalate	24.6		µg/l	5.00	50.0		49	40-140		
2,4-Dimethylphenol	20.9		µg/l	5.00	50.0		42	30-130		
Di-n-butyl phthalate	23.7		µg/l	5.00	50.0		47	40-140		
4,6-Dinitro-2-methylphenol	24.0		µg/l	5.00	50.0		48	30-130		
2,4-Dinitrophenol	16.2		µg/l	5.00	50.0		32	30-130		
2,4-Dinitrotoluene	28.3		µg/l	5.00	50.0		57	40-140		
2,6-Dinitrotoluene	28.7		µg/l	5.00	50.0		57	40-140		
Di-n-octyl phthalate	38.0		µg/l	5.00	50.0		76	40-140		
Fluoranthene	22.0		µg/l	5.00	50.0		44	40-140		
Fluorene	22.7		µg/l	5.00	50.0		45	40-140		
Hexachlorobenzene	25.4		µg/l	5.00	50.0		51	40-140		
Hexachlorobutadiene	23.2		µg/l	5.00	50.0		46	40-140		
Hexachlorocyclopentadiene	31.5		µg/l	5.00	50.0		63	40-140		
Hexachloroethane	28.8		µg/l	5.00	50.0		58	40-140		
Indeno (1,2,3-cd) pyrene	34.3		µg/l	5.00	50.0		69	40-140		
Isophorone	21.3		µg/l	5.00	50.0		43	40-140		
2-Methylnaphthalene	22.6		µg/l	5.00	50.0		45	40-140		
2-Methylphenol	21.3		µg/l	5.00	50.0		43	30-130		
3 & 4-Methylphenol	21.0		µg/l	10.0	50.0		42	30-130		
Naphthalene	23.0		µg/l	5.00	50.0		46	40-140		
2-Nitroaniline	23.6		µg/l	5.00	50.0		47	40-140		
3-Nitroaniline	44.3		µg/l	5.00	50.0		89	40-140		
4-Nitroaniline	31.2		µg/l	5.00	50.0		62	40-140		
Nitrobenzene	28.2		µg/l	5.00	50.0		56	40-140		
2-Nitrophenol	21.1		µg/l	5.00	50.0		42	30-130		
4-Nitrophenol	10.7	QC6, J	µg/l	20.0	50.0		21	30-130		
N-Nitrosodimethylamine	17.4	QC6	µg/l	5.00	50.0		35	40-140		
N-Nitrosodi-n-propylamine	27.4		µg/l	5.00	50.0		55	40-140		
N-Nitrosodiphenylamine	27.7		µg/l	5.00	50.0		55	40-140		
Pentachlorophenol	9.83	QC6, J	µg/l	20.0	50.0		20	30-130		
Phenanthrene	24.8		µg/l	5.00	50.0		50	40-140		
Phenol	12.0	QC6	µg/l	5.00	50.0		24	30-130		
Pyrene	34.1		µg/l	5.00	50.0		68	40-140		
Pyridine	16.2	QC6	µg/l	5.00	50.0		32	40-140		
1,2,4-Trichlorobenzene	24.0		µg/l	5.00	50.0		48	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
LCS (1813400-BS1)					Prepared: 08-Oct-18 Analyzed: 10-Oct-18					
1-Methylnaphthalene	22.9		µg/l	5.00	50.0		46	40-140		
2,4,5-Trichlorophenol	22.1		µg/l	5.00	50.0		44	30-130		
2,4,6-Trichlorophenol	21.5		µg/l	5.00	50.0		43	30-130		
Pentachloronitrobenzene	27.1		µg/l	5.00	50.0		54	40-140		
1,2,4,5-Tetrachlorobenzene	21.8		µg/l	5.00	50.0		44	40-140		
Surrogate: 2-Fluorobiphenyl	22.8		µg/l		50.0		46	30-130		
Surrogate: 2-Fluorophenol	15.8		µg/l		50.0		32	15-110		
Surrogate: Nitrobenzene-d5	24.8		µg/l		50.0		50	30-130		
Surrogate: Phenol-d5	12.0		µg/l		50.0		24	15-110		
Surrogate: Terphenyl-dl4	36.0		µg/l		50.0		72	30-130		
Surrogate: 2,4,6-Tribromophenol	22.4		µg/l		50.0		45	15-110		
LCS Dup (1813400-BSD1)					Prepared: 08-Oct-18 Analyzed: 10-Oct-18					
Acenaphthene	24.5		µg/l	4.90	49.0		50	40-140	0.8	20
Acenaphthylene	23.8		µg/l	4.90	49.0		49	40-140	3	20
Aniline	18.6	QC6	µg/l	4.90	49.0		38	40-140	10	20
Anthracene	23.0		µg/l	4.90	49.0		47	40-140	0.4	20
Azobenzene/Diphenyldiazene	26.2		µg/l	4.90	49.0		53	40-140	2	20
Benzidine	80.6	QC2, E	µg/l	9.80	49.0		164	40-140	6	20
Benzo (a) anthracene	34.0		µg/l	4.90	49.0		69	40-140	3	20
Benzo (a) pyrene	37.0		µg/l	4.90	49.0		75	40-140	1	20
Benzo (b) fluoranthene	33.5		µg/l	4.90	49.0		68	40-140	7	20
Benzo (g,h,i) perylene	37.3		µg/l	4.90	49.0		76	40-140	4	20
Benzo (k) fluoranthene	37.5		µg/l	4.90	49.0		76	40-140	0.8	20
Benzoic acid	10.8	QC6	µg/l	4.90	49.0		22	30-130	1	20
Benzyl alcohol	22.8		µg/l	4.90	49.0		47	40-140	3	20
Bis(2-chloroethoxy)methane	18.8	QC6	µg/l	4.90	49.0		38	40-140	1	20
Bis(2-chloroethyl)ether	21.2		µg/l	4.90	49.0		43	40-140	5	20
Bis(2-chloroisopropyl)ether	22.9		µg/l	4.90	49.0		47	40-140	0.3	20
Bis(2-ethylhexyl)phthalate	38.4		µg/l	4.90	49.0		78	40-140	7	20
4-Bromophenyl phenyl ether	21.0		µg/l	4.90	49.0		43	40-140	2	20
Butyl benzyl phthalate	37.8		µg/l	4.90	49.0		77	40-140	5	20
Carbazole	49.4		µg/l	4.90	49.0		101	40-140	2	20
4-Chloro-3-methylphenol	23.9		µg/l	4.90	49.0		49	30-130	1	20
4-Chloroaniline	24.4		µg/l	4.90	49.0		50	40-140	4	20
2-Chloronaphthalene	26.1		µg/l	4.90	49.0		53	40-140	2	20
2-Chlorophenol	21.7		µg/l	4.90	49.0		44	30-130	7	20
4-Chlorophenyl phenyl ether	23.8		µg/l	4.90	49.0		48	40-140	1	20
Chrysene	37.5		µg/l	4.90	49.0		76	40-140	1	20
Dibenzo (a,h) anthracene	40.0		µg/l	4.90	49.0		82	40-140	7	20
Dibenzofuran	25.1		µg/l	4.90	49.0		51	40-140	0.4	20
1,2-Dichlorobenzene	26.2		µg/l	4.90	49.0		53	40-140	2	20
1,3-Dichlorobenzene	24.9		µg/l	4.90	49.0		51	40-140	1	20
1,4-Dichlorobenzene	26.6		µg/l	4.90	49.0		54	40-140	0.3	20
3,3'-Dichlorobenzidine	52.7		µg/l	4.90	49.0		107	40-140	0.5	20
2,4-Dichlorophenol	20.9		µg/l	4.90	49.0		43	30-130	0.6	20
Diethyl phthalate	25.8		µg/l	4.90	49.0		53	40-140	0.5	20
Dimethyl phthalate	24.4		µg/l	4.90	49.0		50	40-140	0.8	20
2,4-Dimethylphenol	20.9		µg/l	4.90	49.0		43	30-130	0.3	20
Di-n-butyl phthalate	22.5		µg/l	4.90	49.0		46	40-140	5	20
4,6-Dinitro-2-methylphenol	23.9		µg/l	4.90	49.0		49	30-130	0.4	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
LCS Dup (1813400-BSD1)	Prepared: 08-Oct-18 Analyzed: 10-Oct-18									
2,4-Dinitrophenol	16.1		µg/l	4.90	49.0		33	30-130	0.3	20
2,4-Dinitrotoluene	28.1		µg/l	4.90	49.0		57	40-140	0.8	20
2,6-Dinitrotoluene	28.3		µg/l	4.90	49.0		58	40-140	1	20
Di-n-octyl phthalate	39.6		µg/l	4.90	49.0		81	40-140	4	20
Fluoranthene	22.1		µg/l	4.90	49.0		45	40-140	0.6	20
Fluorene	22.8		µg/l	4.90	49.0		46	40-140	0.2	20
Hexachlorobenzene	25.6		µg/l	4.90	49.0		52	40-140	0.7	20
Hexachlorobutadiene	22.9		µg/l	4.90	49.0		47	40-140	1	20
Hexachlorocyclopentadiene	30.7		µg/l	4.90	49.0		63	40-140	2	20
Hexachloroethane	28.2		µg/l	4.90	49.0		58	40-140	2	20
Indeno (1,2,3-cd) pyrene	36.2		µg/l	4.90	49.0		74	40-140	5	20
Isophorone	21.3		µg/l	4.90	49.0		43	40-140	0.07	20
2-Methylnaphthalene	23.2		µg/l	4.90	49.0		47	40-140	3	20
2-Methylphenol	21.3		µg/l	4.90	49.0		43	30-130	0.2	20
3 & 4-Methylphenol	20.7		µg/l	9.80	49.0		42	30-130	2	20
Naphthalene	22.9		µg/l	4.90	49.0		47	40-140	0.2	20
2-Nitroaniline	23.5		µg/l	4.90	49.0		48	40-140	0.5	20
3-Nitroaniline	44.4		µg/l	4.90	49.0		90	40-140	0.1	20
4-Nitroaniline	31.6		µg/l	4.90	49.0		64	40-140	1	20
Nitrobenzene	28.2		µg/l	4.90	49.0		58	40-140	0.09	20
2-Nitrophenol	21.4		µg/l	4.90	49.0		44	30-130	2	20
4-Nitrophenol	10.5	QC6, J	µg/l	19.6	49.0		21	30-130	2	20
N-Nitrosodimethylamine	17.8	QC6	µg/l	4.90	49.0		36	40-140	2	20
N-Nitrosodi-n-propylamine	26.9		µg/l	4.90	49.0		55	40-140	2	20
N-Nitrosodiphenylamine	27.1		µg/l	4.90	49.0		55	40-140	2	20
Pentachlorophenol	9.87	QC6, J	µg/l	19.6	49.0		20	30-130	0.4	20
Phenanthrene	23.9		µg/l	4.90	49.0		49	40-140	3	20
Phenol	12.5	QC6	µg/l	4.90	49.0		26	30-130	4	20
Pyrene	35.9		µg/l	4.90	49.0		73	40-140	5	20
Pyridine	16.6	QC6	µg/l	4.90	49.0		34	40-140	2	20
1,2,4-Trichlorobenzene	23.8		µg/l	4.90	49.0		49	40-140	1	20
1-Methylnaphthalene	22.5		µg/l	4.90	49.0		46	40-140	2	20
2,4,5-Trichlorophenol	20.9		µg/l	4.90	49.0		43	30-130	6	20
2,4,6-Trichlorophenol	21.4		µg/l	4.90	49.0		44	30-130	0.8	20
Pentachloronitrobenzene	26.9		µg/l	4.90	49.0		55	40-140	0.5	20
1,2,4,5-Tetrachlorobenzene	21.5		µg/l	4.90	49.0		44	40-140	1	20
Surrogate: 2-Fluorobiphenyl	22.6		µg/l		49.0		46	30-130		
Surrogate: 2-Fluorophenol	16.2		µg/l		49.0		33	15-110		
Surrogate: Nitrobenzene-d5	24.9		µg/l		49.0		51	30-130		
Surrogate: Phenol-d5	12.5		µg/l		49.0		26	15-110		
Surrogate: Terphenyl-dl4	38.8		µg/l		49.0		79	30-130		
Surrogate: 2,4,6-Tribromophenol	22.2		µg/l		49.0		45	15-110		
Batch 1813548 - SW846 3546										
Blank (1813548-BLK1)	Prepared: 11-Oct-18 Analyzed: 12-Oct-18									
Acenaphthene	< 66.1	U	µg/kg wet	66.1						
Acenaphthylene	< 66.1	U	µg/kg wet	66.1						
Aniline	< 327	U	µg/kg wet	327						
Anthracene	< 66.1	U	µg/kg wet	66.1						
Azobenzene/Diphenyldiazene	< 327	U	µg/kg wet	327						
Benzidine	< 654	U	µg/kg wet	654						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Blank (1813548-BLK1)	Prepared: 11-Oct-18 Analyzed: 12-Oct-18									
Benzo (a) anthracene	< 66.1	U	µg/kg wet	66.1						
Benzo (a) pyrene	< 66.1	U	µg/kg wet	66.1						
Benzo (b) fluoranthene	< 66.1	U	µg/kg wet	66.1						
Benzo (g,h,i) perylene	< 66.1	U	µg/kg wet	66.1						
Benzo (k) fluoranthene	< 66.1	U	µg/kg wet	66.1						
Benzoic acid	< 327	U	µg/kg wet	327						
Benzyl alcohol	< 327	U	µg/kg wet	327						
Bis(2-chloroethoxy)methane	< 327	U	µg/kg wet	327						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 327	U	µg/kg wet	327						
Butyl benzyl phthalate	< 327	U	µg/kg wet	327						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 327	U	µg/kg wet	327						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 327	U	µg/kg wet	327						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 327	U	µg/kg wet	327						
Chrysene	< 66.1	U	µg/kg wet	66.1						
Dibenzo (a,h) anthracene	< 66.1	U	µg/kg wet	66.1						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 327	U	µg/kg wet	327						
1,3-Dichlorobenzene	< 327	U	µg/kg wet	327						
1,4-Dichlorobenzene	< 327	U	µg/kg wet	327						
3,3'-Dichlorobenzidine	< 327	U	µg/kg wet	327						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						
Diethyl phthalate	< 327	U	µg/kg wet	327						
Dimethyl phthalate	< 327	U	µg/kg wet	327						
2,4-Dimethylphenol	< 327	U	µg/kg wet	327						
Di-n-butyl phthalate	< 327	U	µg/kg wet	327						
4,6-Dinitro-2-methylphenol	< 327	U	µg/kg wet	327						
2,4-Dinitrophenol	< 327	U	µg/kg wet	327						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 327	U	µg/kg wet	327						
Fluoranthene	< 66.1	U	µg/kg wet	66.1						
Fluorene	< 66.1	U	µg/kg wet	66.1						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.1	U	µg/kg wet	66.1						
Isophorone	< 166	U	µg/kg wet	166						
2-Methylnaphthalene	< 66.1	U	µg/kg wet	66.1						
2-Methylphenol	< 327	U	µg/kg wet	327						
3 & 4-Methylphenol	< 327	U	µg/kg wet	327						
Naphthalene	< 66.1	U	µg/kg wet	66.1						
2-Nitroaniline	< 327	U	µg/kg wet	327						
3-Nitroaniline	< 327	U	µg/kg wet	327						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Blank (1813548-BLK1)					<u>Prepared: 11-Oct-18 Analyzed: 12-Oct-18</u>					
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 327	U	µg/kg wet	327						
Pentachlorophenol	< 327	U	µg/kg wet	327						
Phenanthrene	< 66.1	U	µg/kg wet	66.1						
Phenol	< 327	U	µg/kg wet	327						
Pyrene	< 66.1	U	µg/kg wet	66.1						
Pyridine	< 327	U	µg/kg wet	327						
1,2,4-Trichlorobenzene	< 327	U	µg/kg wet	327						
1-Methylnaphthalene	< 66.1	U	µg/kg wet	66.1						
2,4,5-Trichlorophenol	< 327	U	µg/kg wet	327						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 327	U	µg/kg wet	327						
1,2,4,5-Tetrachlorobenzene	< 327	U	µg/kg wet	327						
Surrogate: 2-Fluorobiphenyl	693		µg/kg wet		1650		42	30-130		
Surrogate: 2-Fluorophenol	859		µg/kg wet		1650		52	30-130		
Surrogate: Nitrobenzene-d5	792		µg/kg wet		1650		48	30-130		
Surrogate: Phenol-d5	818		µg/kg wet		1650		49	30-130		
Surrogate: Terphenyl-d14	1320		µg/kg wet		1650		80	30-130		
Surrogate: 2,4,6-Tribromophenol	586		µg/kg wet		1650		35	30-130		
LCS (1813548-BS1)					<u>Prepared: 11-Oct-18 Analyzed: 12-Oct-18</u>					
Acenaphthene	1190		µg/kg wet	66.0	1650		72	40-140		
Acenaphthylene	1240		µg/kg wet	66.0	1650		75	40-140		
Aniline	746		µg/kg wet	327	1650		45	40-140		
Anthracene	1150		µg/kg wet	66.0	1650		69	40-140		
Azobenzene/Diphenyldiazene	1190		µg/kg wet	327	1650		72	40-140		
Benzidine	2350	QC2	µg/kg wet	653	1650		143	40-140		
Benzo (a) anthracene	1610		µg/kg wet	66.0	1650		97	40-140		
Benzo (a) pyrene	1810		µg/kg wet	66.0	1650		110	40-140		
Benzo (b) fluoranthene	1830		µg/kg wet	66.0	1650		111	40-140		
Benzo (g,h,i) perylene	1710		µg/kg wet	66.0	1650		104	40-140		
Benzo (k) fluoranthene	1830		µg/kg wet	66.0	1650		111	40-140		
Benzoic acid	256	QC6, J	µg/kg wet	327	1650		16	30-130		
Benzyl alcohol	291	QC6, J	µg/kg wet	327	1650		18	40-140		
Bis(2-chloroethoxy)methane	888		µg/kg wet	327	1650		54	40-140		
Bis(2-chloroethyl)ether	993		µg/kg wet	165	1650		60	40-140		
Bis(2-chloroisopropyl)ether	1010		µg/kg wet	165	1650		61	40-140		
Bis(2-ethylhexyl)phthalate	1670		µg/kg wet	165	1650		101	40-140		
4-Bromophenyl phenyl ether	1010		µg/kg wet	327	1650		61	40-140		
Butyl benzyl phthalate	1660		µg/kg wet	327	1650		100	40-140		
Carbazole	2310		µg/kg wet	165	1650		140	40-140		
4-Chloro-3-methylphenol	1070		µg/kg wet	327	1650		65	30-130		
4-Chloroaniline	885		µg/kg wet	165	1650		54	40-140		
2-Chloronaphthalene	1340		µg/kg wet	327	1650		81	40-140		
2-Chlorophenol	1010		µg/kg wet	165	1650		61	30-130		
4-Chlorophenyl phenyl ether	1190		µg/kg wet	327	1650		72	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
LCS (1813548-BS1)	Prepared: 11-Oct-18 Analyzed: 12-Oct-18									
Chrysene	1810		µg/kg wet	66.0	1650		110	40-140		
Dibenzo (a,h) anthracene	1830		µg/kg wet	66.0	1650		111	40-140		
Dibenzofuran	1180		µg/kg wet	165	1650		71	40-140		
1,2-Dichlorobenzene	1190		µg/kg wet	327	1650		72	40-140		
1,3-Dichlorobenzene	1190		µg/kg wet	327	1650		72	40-140		
1,4-Dichlorobenzene	1260		µg/kg wet	327	1650		76	40-140		
3,3'-Dichlorobenzidine	2500	QC2	µg/kg wet	327	1650		152	40-140		
2,4-Dichlorophenol	953		µg/kg wet	165	1650		58	30-130		
Diethyl phthalate	1280		µg/kg wet	327	1650		78	40-140		
Dimethyl phthalate	1200		µg/kg wet	327	1650		72	40-140		
2,4-Dimethylphenol	914		µg/kg wet	327	1650		55	30-130		
Di-n-butyl phthalate	1120		µg/kg wet	327	1650		68	40-140		
4,6-Dinitro-2-methylphenol	735		µg/kg wet	327	1650		45	30-130		
2,4-Dinitrophenol	357	QC6	µg/kg wet	327	1650		22	30-130		
2,4-Dinitrotoluene	1430		µg/kg wet	165	1650		87	40-140		
2,6-Dinitrotoluene	1400		µg/kg wet	165	1650		85	40-140		
Di-n-octyl phthalate	1900		µg/kg wet	327	1650		115	40-140		
Fluoranthene	1110		µg/kg wet	66.0	1650		67	40-140		
Fluorene	1170		µg/kg wet	66.0	1650		71	40-140		
Hexachlorobenzene	1260		µg/kg wet	165	1650		76	40-140		
Hexachlorobutadiene	1130		µg/kg wet	165	1650		69	40-140		
Hexachlorocyclopentadiene	1070		µg/kg wet	165	1650		65	40-140		
Hexachloroethane	1340		µg/kg wet	165	1650		81	40-140		
Indeno (1,2,3-cd) pyrene	1650		µg/kg wet	66.0	1650		100	40-140		
Isophorone	1030		µg/kg wet	165	1650		62	40-140		
2-Methylnaphthalene	1290		µg/kg wet	66.0	1650		78	40-140		
2-Methylphenol	1020		µg/kg wet	327	1650		62	30-130		
3 & 4-Methylphenol	1110		µg/kg wet	327	1650		67	30-130		
Naphthalene	1110		µg/kg wet	66.0	1650		67	40-140		
2-Nitroaniline	1160		µg/kg wet	327	1650		70	40-140		
3-Nitroaniline	1780		µg/kg wet	327	1650		108	40-140		
4-Nitroaniline	1400		µg/kg wet	165	1650		85	40-140		
Nitrobenzene	1460		µg/kg wet	165	1650		89	40-140		
2-Nitrophenol	1030		µg/kg wet	165	1650		62	30-130		
4-Nitrophenol	719	J	µg/kg wet	1310	1650		44	30-130		
N-Nitrosodimethylamine	1180		µg/kg wet	165	1650		72	40-140		
N-Nitrosodi-n-propylamine	1160		µg/kg wet	165	1650		71	40-140		
N-Nitrosodiphenylamine	1280		µg/kg wet	327	1650		77	40-140		
Pentachlorophenol	184	QC6, J	µg/kg wet	327	1650		11	30-130		
Phenanthrene	1220		µg/kg wet	66.0	1650		74	40-140		
Phenol	1060		µg/kg wet	327	1650		64	30-130		
Pyrene	1690		µg/kg wet	66.0	1650		102	40-140		
Pyridine	1080		µg/kg wet	327	1650		66	40-140		
1,2,4-Trichlorobenzene	1200		µg/kg wet	327	1650		73	40-140		
1-Methylnaphthalene	1130		µg/kg wet	66.0	1650		69	40-140		
2,4,5-Trichlorophenol	1070		µg/kg wet	327	1650		65	30-130		
2,4,6-Trichlorophenol	925		µg/kg wet	165	1650		56	30-130		
Pentachloronitrobenzene	1320		µg/kg wet	327	1650		80	40-140		
1,2,4,5-Tetrachlorobenzene	1120		µg/kg wet	327	1650		68	40-140		
Surrogate: 2-Fluorobiphenyl	1260		µg/kg wet		1650		77	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
LCS (1813548-BS1)					Prepared: 11-Oct-18 Analyzed: 12-Oct-18					
Surrogate: 2-Fluorophenol	1110		µg/kg wet		1650		67	30-130		
Surrogate: Nitrobenzene-d5	1330		µg/kg wet		1650		81	30-130		
Surrogate: Phenol-d5	1340		µg/kg wet		1650		81	30-130		
Surrogate: Terphenyl-dl4	1960		µg/kg wet		1650		119	30-130		
Surrogate: 2,4,6-Tribromophenol	997		µg/kg wet		1650		60	30-130		
LCS Dup (1813548-BSD1)					Prepared: 11-Oct-18 Analyzed: 12-Oct-18					
Acenaphthene	1250		µg/kg wet	66.2	1650		75	40-140	5	30
Acenaphthylene	1300		µg/kg wet	66.2	1650		79	40-140	5	30
Aniline	704		µg/kg wet	328	1650		43	40-140	6	30
Anthracene	1110		µg/kg wet	66.2	1650		67	40-140	3	30
Azobenzene/Diphenyldiazene	1300		µg/kg wet	328	1650		79	40-140	9	30
Benzidine	2730	QC2, E	µg/kg wet	655	1650		165	40-140	15	30
Benzo (a) anthracene	1630		µg/kg wet	66.2	1650		99	40-140	2	30
Benzo (a) pyrene	1810		µg/kg wet	66.2	1650		110	40-140	0.1	30
Benzo (b) fluoranthene	1680		µg/kg wet	66.2	1650		101	40-140	9	30
Benzo (g,h,i) perylene	1750		µg/kg wet	66.2	1650		106	40-140	2	30
Benzo (k) fluoranthene	1740		µg/kg wet	66.2	1650		105	40-140	5	30
Benzoic acid	280	QC6, J	µg/kg wet	328	1650		17	30-130	9	30
Benzyl alcohol	211	QC6, QR5, J	µg/kg wet	328	1650		13	40-140	32	30
Bis(2-chloroethoxy)methane	879		µg/kg wet	328	1650		53	40-140	1	30
Bis(2-chloroethyl)ether	1030		µg/kg wet	166	1650		62	40-140	3	30
Bis(2-chloroisopropyl)ether	995		µg/kg wet	166	1650		60	40-140	1	30
Bis(2-ethylhexyl)phthalate	1660		µg/kg wet	166	1650		100	40-140	0.7	30
4-Bromophenyl phenyl ether	1040		µg/kg wet	328	1650		63	40-140	3	30
Butyl benzyl phthalate	1660		µg/kg wet	328	1650		100	40-140	0.2	30
Carbazole	2300		µg/kg wet	166	1650		139	40-140	0.4	30
4-Chloro-3-methylphenol	1060		µg/kg wet	328	1650		64	30-130	0.9	30
4-Chloroaniline	839		µg/kg wet	166	1650		51	40-140	5	30
2-Chloronaphthalene	1410		µg/kg wet	328	1650		85	40-140	5	30
2-Chlorophenol	1010		µg/kg wet	166	1650		61	30-130	0.2	30
4-Chlorophenyl phenyl ether	1220		µg/kg wet	328	1650		74	40-140	3	30
Chrysene	1800		µg/kg wet	66.2	1650		109	40-140	0.7	30
Dibenzo (a,h) anthracene	1840		µg/kg wet	66.2	1650		111	40-140	0.4	30
Dibenzofuran	1290		µg/kg wet	166	1650		78	40-140	9	30
1,2-Dichlorobenzene	1200		µg/kg wet	328	1650		73	40-140	1	30
1,3-Dichlorobenzene	1190		µg/kg wet	328	1650		72	40-140	0.6	30
1,4-Dichlorobenzene	1270		µg/kg wet	328	1650		77	40-140	1	30
3,3'-Dichlorobenzidine	2570	QC2	µg/kg wet	328	1650		155	40-140	3	30
2,4-Dichlorophenol	956		µg/kg wet	166	1650		58	30-130	0.3	30
Diethyl phthalate	1310		µg/kg wet	328	1650		79	40-140	2	30
Dimethyl phthalate	1230		µg/kg wet	328	1650		74	40-140	3	30
2,4-Dimethylphenol	955		µg/kg wet	328	1650		58	30-130	4	30
Di-n-butyl phthalate	1100		µg/kg wet	328	1650		66	40-140	2	30
4,6-Dinitro-2-methylphenol	857		µg/kg wet	328	1650		52	30-130	15	30
2,4-Dinitrophenol	468	QC6	µg/kg wet	328	1650		28	30-130	27	30
2,4-Dinitrotoluene	1440		µg/kg wet	166	1650		87	40-140	0.7	30
2,6-Dinitrotoluene	1430		µg/kg wet	166	1650		86	40-140	2	30
Di-n-octyl phthalate	1890		µg/kg wet	328	1650		114	40-140	0.3	30
Fluoranthene	1110		µg/kg wet	66.2	1650		67	40-140	0.5	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
LCS Dup (1813548-BSD1)	Prepared: 11-Oct-18 Analyzed: 12-Oct-18									
Fluorene	1200		µg/kg wet	66.2	1650		72	40-140	2	30
Hexachlorobenzene	1300		µg/kg wet	166	1650		79	40-140	3	30
Hexachlorobutadiene	1140		µg/kg wet	166	1650		69	40-140	0.7	30
Hexachlorocyclopentadiene	1260		µg/kg wet	166	1650		76	40-140	16	30
Hexachloroethane	1350		µg/kg wet	166	1650		82	40-140	0.7	30
Indeno (1,2,3-cd) pyrene	1670		µg/kg wet	66.2	1650		101	40-140	0.9	30
Isophorone	1020		µg/kg wet	166	1650		62	40-140	0.4	30
2-Methylnaphthalene	1240		µg/kg wet	66.2	1650		75	40-140	4	30
2-Methylphenol	1040		µg/kg wet	328	1650		63	30-130	2	30
3 & 4-Methylphenol	1090		µg/kg wet	328	1650		66	30-130	1	30
Naphthalene	1130		µg/kg wet	66.2	1650		68	40-140	2	30
2-Nitroaniline	1230		µg/kg wet	328	1650		74	40-140	6	30
3-Nitroaniline	1830		µg/kg wet	328	1650		110	40-140	2	30
4-Nitroaniline	1400		µg/kg wet	166	1650		85	40-140	0.2	30
Nitrobenzene	1490		µg/kg wet	166	1650		90	40-140	2	30
2-Nitrophenol	1030		µg/kg wet	166	1650		62	30-130	0.07	30
4-Nitrophenol	711	J	µg/kg wet	1310	1650		43	30-130	1	30
N-Nitrosodimethylamine	1250		µg/kg wet	166	1650		75	40-140	6	30
N-Nitrosodi-n-propylamine	1180		µg/kg wet	166	1650		71	40-140	1	30
N-Nitrosodiphenylamine	1410		µg/kg wet	328	1650		85	40-140	10	30
Pentachlorophenol	221	QC2, J	µg/kg wet	328	1650		13	30-130	18	30
Phenanthrene	1240		µg/kg wet	66.2	1650		75	40-140	2	30
Phenol	1070		µg/kg wet	328	1650		64	30-130	0.5	30
Pyrene	1680		µg/kg wet	66.2	1650		102	40-140	0.02	30
Pyridine	1120		µg/kg wet	328	1650		68	40-140	3	30
1,2,4-Trichlorobenzene	1200		µg/kg wet	328	1650		72	40-140	0.4	30
1-Methylnaphthalene	1160		µg/kg wet	66.2	1650		70	40-140	3	30
2,4,5-Trichlorophenol	1130		µg/kg wet	328	1650		68	30-130	6	30
2,4,6-Trichlorophenol	960		µg/kg wet	166	1650		58	30-130	4	30
Pentachloronitrobenzene	1340		µg/kg wet	328	1650		81	40-140	2	30
1,2,4,5-Tetrachlorobenzene	1160		µg/kg wet	328	1650		70	40-140	3	30
Surrogate: 2-Fluorobiphenyl	1300		µg/kg wet		1650		79	30-130		
Surrogate: 2-Fluorophenol	1200		µg/kg wet		1650		72	30-130		
Surrogate: Nitrobenzene-d5	1350		µg/kg wet		1650		82	30-130		
Surrogate: Phenol-d5	1360		µg/kg wet		1650		82	30-130		
Surrogate: Terphenyl-d14	1950		µg/kg wet		1650		118	30-130		
Surrogate: 2,4,6-Tribromophenol	1090		µg/kg wet		1650		66	30-130		

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
BLK (CB66876-BLK)	Prepared: Analyzed: 07-Oct-18									
Dibromomethane	ND		ug/kg	5.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
BLK (CB66876-BLK)	Prepared: Analyzed: 07-Oct-18									
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
Surrogate: % Bromofluorobenzene	101		ug/kg		50		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	94		ug/kg		50		94	70-130		
Surrogate: % Dibromofluoromethane	95		ug/kg		50		95	70-130		
Surrogate: % Toluene-d8	87		ug/kg		50		87	70-130		
LCS (CB66876-LCS)	Prepared: Analyzed: 07-Oct-18									
Dibromomethane	58.12		ug/kg	5.0	50		116	70-130		30
Naphthalene	59.86		ug/kg	5.0	50		120	70-130		30
Methyl t-butyl ether (MTBE)	53.75		ug/kg	1.0	50		108	70-130		30
Methyl Ethyl Ketone	44.97		ug/kg	5.0	50		90	70-130		30
m&p-Xylene	106.4		ug/kg	2.0	100		106	70-130		30
Isopropylbenzene	58.21		ug/kg	1.0	50		116	70-130		30
Hexachlorobutadiene	60.87		ug/kg	5.0	50		122	70-130		30
Trichlorotrifluoroethane	57.08		ug/kg	5.0	50		114	70-130		30
Dichlorodifluoromethane	78.12	I	ug/kg	5.0	50		156	70-130		30
Chlorobenzene	56.26		ug/kg	5.0	50		113	70-130		30
Dibromochloromethane	58.65		ug/kg	3.0	50		117	70-130		30
cis-1,3-Dichloropropene	60.87		ug/kg	5.0	50		122	70-130		30
cis-1,2-Dichloroethene	60.23		ug/kg	5.0	50		120	70-130		30
Chloromethane	61.78		ug/kg	5.0	50		124	70-130		30
Chloroform	58.05		ug/kg	5.0	50		116	70-130		30
Chloroethane	59.52		ug/kg	5.0	50		119	70-130		30
Ethylbenzene	55.69		ug/kg	1.0	50		111	70-130		30
Styrene	52.00		ug/kg	5.0	50		104	70-130		30
Trichloroethene	59.57		ug/kg	5.0	50		119	70-130		30
trans-1,4-dichloro-2-butene	259.2		ug/kg	5.0	250		104	70-130		30
trans-1,3-Dichloropropene	55.71		ug/kg	5.0	50		111	70-130		30
trans-1,2-Dichloroethene	61.66		ug/kg	5.0	50		123	70-130		30
Toluene	59.69		ug/kg	1.0	50		119	70-130		30
Tetrahydrofuran (THF)	114.8		ug/kg	5.0	125		92	70-130		30
Methylene chloride	53.39		ug/kg	5.0	50		107	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
LCS (CB66876-LCS)	Prepared: Analyzed: 07-Oct-18									
tert-Butylbenzene	58.08		ug/kg	1.0	50		116	70-130		30
Trichlorofluoromethane	61.68		ug/kg	5.0	50		123	70-130		30
sec-Butylbenzene	60.22		ug/kg	1.0	50		120	70-130		30
p-Isopropyltoluene	58.75		ug/kg	1.0	50		117	70-130		30
o-Xylene	57.09		ug/kg	2.0	50		114	70-130		30
n-Propylbenzene	59.34		ug/kg	1.0	50		119	70-130		30
n-Butylbenzene	62.04		ug/kg	1.0	50		124	70-130		30
1,3,5-Trimethylbenzene	56.21		ug/kg	1.0	50		112	70-130		30
Tetrachloroethene	62.47		ug/kg	5.0	50		125	70-130		30
1,1-Dichloroethene	63.69		ug/kg	5.0	50		127	70-130		30
Vinyl chloride	66.85	I	ug/kg	5.0	50		134	70-130		30
1,2-Dibromoethane	54.57		ug/kg	5.0	50		109	70-130		30
1,2-Dibromo-3-chloropropane	57.93		ug/kg	5.0	50		116	70-130		30
1,2,4-Trimethylbenzene	56.41		ug/kg	1.0	50		113	70-130		30
1,2,4-Trichlorobenzene	56.70		ug/kg	5.0	50		113	70-130		30
1,2,3-Trichloropropane	51.58		ug/kg	5.0	50		103	70-130		30
1,3-Dichloropropane	53.13		ug/kg	5.0	50		106	70-130		30
1,1-Dichloropropene	61.11		ug/kg	5.0	50		122	70-130		30
1,4-Dichlorobenzene	58.82		ug/kg	5.0	50		118	70-130		30
1,1-Dichloroethane	55.63		ug/kg	5.0	50		111	70-130		30
1,1,2-Trichloroethane	58.10		ug/kg	5.0	50		116	70-130		30
1,1,2,2-Tetrachloroethane	59.00		ug/kg	3.0	50		118	70-130		30
1,1,1-Trichloroethane	60.02		ug/kg	5.0	50		120	70-130		30
1,1,1,2-Tetrachloroethane	53.30		ug/kg	5.0	50		107	70-130		30
1,2-Dichloropropane	56.29		ug/kg	5.0	50		113	70-130		30
1,2,3-Trichlorobenzene	58.30		ug/kg	5.0	50		117	70-130		30
Acetone	40.12		ug/kg	10	50		80	70-130		30
Carbon Disulfide	54.54		ug/kg	5.0	50		109	70-130		30
Bromomethane	58.91		ug/kg	5.0	50		118	70-130		30
Bromoform	53.71		ug/kg	5.0	50		107	70-130		30
Bromodichloromethane	59.54		ug/kg	5.0	50		119	70-130		30
Bromochloromethane	58.02		ug/kg	5.0	50		116	70-130		30
Bromobenzene	59.50		ug/kg	5.0	50		119	70-130		30
1,2-Dichloroethane	57.13		ug/kg	5.0	50		114	70-130		30
Acrylonitrile	51.64		ug/kg	5.0	50		103	70-130		30
1,3-Dichlorobenzene	57.27		ug/kg	5.0	50		115	70-130		30
4-Methyl-2-pentanone	48.54		ug/kg	25	50		97	70-130		30
4-Chlorotoluene	56.89		ug/kg	5.0	50		114	70-130		30
2-Isopropyltoluene	52.29		ug/kg	5.0	50		105	70-130		30
2-Hexanone	43.33		ug/kg	25	50		87	70-130		30
2-Chlorotoluene	58.21		ug/kg	5.0	50		116	70-130		30
2,2-Dichloropropane	60.53		ug/kg	5.0	50		121	70-130		30
Carbon tetrachloride	58.42		ug/kg	5.0	50		117	70-130		30
Benzene	57.48		ug/kg	1.0	50		115	70-130		30
1,2-Dichlorobenzene	59.92		ug/kg	5.0	50		120	70-130		30
Surrogate: % Dibromofluoromethane	50.43		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	52.34		ug/kg		50		105	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.56		ug/kg		50		101	70-130		
Surrogate: % Bromofluorobenzene	49.75		ug/kg		50		100	70-130		
LCSD (CB66876-LCSD)	Prepared: Analyzed: 07-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
LCSD (CB66876-LCSD)	Prepared: Analyzed: 07-Oct-18									
Benzene	58.13		ug/kg	1.0	50		116	70-130	0.9	30
1,4-Dichlorobenzene	59.34		ug/kg	5.0	50		119	70-130	0.8	30
2,2-Dichloropropane	61.06		ug/kg	5.0	50		122	70-130	0.8	30
2-Chlorotoluene	56.35		ug/kg	5.0	50		113	70-130	2.6	30
2-Hexanone	45.96		ug/kg	25	50		92	70-130	5.6	30
2-Isopropyltoluene	52.78		ug/kg	5.0	50		106	70-130	0.9	30
4-Chlorotoluene	56.85		ug/kg	5.0	50		114	70-130	0.0	30
4-Methyl-2-pentanone	50.27		ug/kg	25	50		101	70-130	4.0	30
1,3-Dichloropropane	53.85		ug/kg	5.0	50		108	70-130	1.9	30
Acrylonitrile	50.23		ug/kg	5.0	50		100	70-130	3.0	30
1,2-Dichlorobenzene	60.39		ug/kg	5.0	50		121	70-130	0.8	30
Bromobenzene	60.16		ug/kg	5.0	50		120	70-130	0.8	30
Bromochloromethane	55.32		ug/kg	5.0	50		111	70-130	4.4	30
Bromodichloromethane	60.14		ug/kg	5.0	50		120	70-130	0.8	30
Bromoform	56.57		ug/kg	5.0	50		113	70-130	5.5	30
Acetone	41.83		ug/kg	10	50		84	70-130	4.9	30
1,2,3-Trichloropropane	52.44		ug/kg	5.0	50		105	70-130	1.9	30
1,1,1,2-Tetrachloroethane	53.94		ug/kg	5.0	50		108	70-130	0.9	30
1,1,1-Trichloroethane	59.23		ug/kg	5.0	50		118	70-130	1.7	30
1,1,2,2-Tetrachloroethane	59.16		ug/kg	3.0	50		118	70-130	0.0	30
1,1,2-Trichloroethane	59.67		ug/kg	5.0	50		119	70-130	2.6	30
1,1-Dichloroethane	58.65		ug/kg	5.0	50		117	70-130	5.3	30
1,1-Dichloroethene	63.11		ug/kg	5.0	50		126	70-130	0.8	30
1,3,5-Trimethylbenzene	55.97		ug/kg	1.0	50		112	70-130	0.0	30
1,2,3-Trichlorobenzene	60.42		ug/kg	5.0	50		121	70-130	3.4	30
1,3-Dichlorobenzene	56.49		ug/kg	5.0	50		113	70-130	1.8	30
1,2,4-Trichlorobenzene	58.36		ug/kg	5.0	50		117	70-130	3.5	30
1,2,4-Trimethylbenzene	55.57		ug/kg	1.0	50		111	70-130	1.8	30
1,2-Dibromo-3-chloropropane	58.41		ug/kg	5.0	50		117	70-130	0.9	30
1,2-Dichloroethane	56.31		ug/kg	5.0	50		113	70-130	0.9	30
1,2-Dichloropropane	57.88		ug/kg	5.0	50		116	70-130	2.6	30
Bromomethane	61.84		ug/kg	5.0	50		124	70-130	5.0	30
1,1-Dichloropropene	61.03		ug/kg	5.0	50		122	70-130	0.0	30
trans-1,2-Dichloroethene	61.03		ug/kg	5.0	50		122	70-130	0.8	30
n-Butylbenzene	61.07		ug/kg	1.0	50		122	70-130	1.6	30
n-Propylbenzene	57.58		ug/kg	1.0	50		115	70-130	3.4	30
o-Xylene	57.26		ug/kg	2.0	50		115	70-130	0.9	30
p-Isopropyltoluene	58.04		ug/kg	1.0	50		116	70-130	0.9	30
sec-Butylbenzene	60.65		ug/kg	1.0	50		121	70-130	0.8	30
Styrene	52.93		ug/kg	5.0	50		106	70-130	1.9	30
Vinyl chloride	66.40	I	ug/kg	5.0	50		133	70-130	0.7	30
Tetrahydrofuran (THF)	114.5		ug/kg	5.0	125		92	70-130	0.0	30
Tetrachloroethene	61.26		ug/kg	5.0	50		123	70-130	1.6	30
trans-1,3-Dichloropropene	57.39		ug/kg	5.0	50		115	70-130	3.5	30
trans-1,4-dichloro-2-butene	257.2		ug/kg	5.0	250		103	70-130	1.0	30
Trichloroethene	58.81		ug/kg	5.0	50		118	70-130	0.8	30
Trichlorotrifluoroethane	55.53		ug/kg	5.0	50		111	70-130	2.7	30
Trichlorofluoromethane	60.27		ug/kg	5.0	50		121	70-130	1.6	30
Carbon Disulfide	54.38		ug/kg	5.0	50		109	70-130	0.0	30
1,2-Dibromoethane	56.44		ug/kg	5.0	50		113	70-130	3.6	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
LCSD (CB66876-LCSD)					Prepared: Analyzed: 07-Oct-18					
tert-Butylbenzene	58.23		ug/kg	1.0	50		116	70-130	0.0	30
Chloroform	57.53		ug/kg	5.0	50		115	70-130	0.9	30
Carbon tetrachloride	57.61		ug/kg	5.0	50		115	70-130	1.7	30
Toluene	60.35		ug/kg	1.0	50		121	70-130	1.7	30
Chloroethane	59.50		ug/kg	5.0	50		119	70-130	0.0	30
Naphthalene	60.35		ug/kg	5.0	50		121	70-130	0.8	30
Chloromethane	60.39		ug/kg	5.0	50		121	70-130	2.4	30
cis-1,2-Dichloroethene	59.67		ug/kg	5.0	50		119	70-130	0.8	30
cis-1,3-Dichloropropene	60.96		ug/kg	5.0	50		122	70-130	0.0	30
Dibromochloromethane	60.14		ug/kg	3.0	50		120	70-130	2.5	30
Dibromomethane	60.01		ug/kg	5.0	50		120	70-130	3.4	30
Chlorobenzene	56.58		ug/kg	5.0	50		113	70-130	0.0	30
Dichlorodifluoromethane	74.79	l	ug/kg	5.0	50		150	70-130	3.9	30
Ethylbenzene	56.65		ug/kg	1.0	50		113	70-130	1.8	30
Hexachlorobutadiene	61.22		ug/kg	5.0	50		122	70-130	0.0	30
Isopropylbenzene	58.06		ug/kg	1.0	50		116	70-130	0.0	30
Methylene chloride	53.89		ug/kg	5.0	50		108	70-130	0.9	30
m&p-Xylene	107.5		ug/kg	2.0	100		108	70-130	1.9	30
Methyl Ethyl Ketone	46.03		ug/kg	5.0	50		92	70-130	2.2	30
Methyl t-butyl ether (MTBE)	54.07		ug/kg	1.0	50		108	70-130	0.0	30
Surrogate: % Bromofluorobenzene	48.57		ug/kg		50		97	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.01		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	48.89		ug/kg		50		98	70-130		
Surrogate: % Toluene-d8	51.98		ug/kg		50		104	70-130		
MS (CB66876-MS)					Source: SC50830-07 Prepared: Analyzed: 07-Oct-18					
Chloroform	52.94		ug/kg	5.0	50	BRL	106	70-130		30
Hexachlorobutadiene	46.46		ug/kg	5.0	50	BRL	93	70-130		30
Ethylbenzene	50.50		ug/kg	1.0	50	BRL	101	70-130		30
Dichlorodifluoromethane	61.31		ug/kg	5.0	50	BRL	123	70-130		30
Dibromomethane	35.49		ug/kg	5.0	50	BRL	71	70-130		30
Dibromochloromethane	49.49		ug/kg	3.0	50	BRL	99	70-130		30
cis-1,3-Dichloropropene	34.32	m	ug/kg	5.0	50	BRL	69	70-130		30
Carbon Disulfide	37.68		ug/kg	5.0	50	BRL	75	70-130		30
Chloromethane	50.13		ug/kg	5.0	50	BRL	100	70-130		30
Bromomethane	51.42		ug/kg	5.0	50	BRL	103	70-130		30
Chloroethane	53.80		ug/kg	5.0	50	BRL	108	70-130		30
Chlorobenzene	40.80		ug/kg	5.0	50	BRL	82	70-130		30
Carbon tetrachloride	58.07		ug/kg	5.0	50	BRL	116	70-130		30
Isopropylbenzene	75.31	m	ug/kg	1.0	50	BRL	151	70-130		30
Trichloroethene	46.65		ug/kg	5.0	50	BRL	93	70-130		30
cis-1,2-Dichloroethene	42.63		ug/kg	5.0	50	BRL	85	70-130		30
sec-Butylbenzene	59.08		ug/kg	1.0	50	BRL	118	70-130		30
Benzene	51.43		ug/kg	1.0	50	BRL	103	70-130		30
Vinyl chloride	56.61		ug/kg	5.0	50	BRL	113	70-130		30
Trichlorofluoromethane	60.72		ug/kg	5.0	50	BRL	121	70-130		30
trans-1,4-dichloro-2-butene	220.4		ug/kg	5.0	250	BRL	88	70-130		30
trans-1,2-Dichloroethene	44.57		ug/kg	5.0	50	BRL	89	70-130		30
Toluene	49.73		ug/kg	1.0	50	BRL	99	70-130		30
Tetrahydrofuran (THF)	114.5		ug/kg	5.0	125	BRL	92	70-130		30
Tetrachloroethene	53.13		ug/kg	5.0	50	BRL	106	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
MS (CB66876-MS)	Source: SC50830-07				Prepared: Analyzed: 07-Oct-18					
trans-1,3-Dichloropropene	23.06	m, r	ug/kg	5.0	50	BRL	46	70-130		30
Styrene	51.11	r	ug/kg	5.0	50	BRL	102	70-130		30
m&p-Xylene	92.24		ug/kg	2.0	100	BRL	92	70-130		30
p-Isopropyltoluene	57.54		ug/kg	1.0	50	BRL	115	70-130		30
o-Xylene	51.68		ug/kg	2.0	50	BRL	103	70-130		30
n-Propylbenzene	56.38		ug/kg	1.0	50	BRL	113	70-130		30
n-Butylbenzene	53.29		ug/kg	1.0	50	BRL	107	70-130		30
Naphthalene	56.21		ug/kg	5.0	50		112	70-130		30
Methylene chloride	64.52		ug/kg	5.0	50	BRL	129	70-130		30
Methyl t-butyl ether (MTBE)	55.06		ug/kg	1.0	50	BRL	110	70-130		30
Methyl Ethyl Ketone	42.16		ug/kg	5.0	50	BRL	84	70-130		30
tert-Butylbenzene	57.81		ug/kg	1.0	50	BRL	116	70-130		30
2-Hexanone	40.50		ug/kg	25	50	BRL	81	70-130		30
Acetone	51.67		ug/kg	10	50	BRL	103	70-130		30
1,2-Dichloropropane	53.55		ug/kg	5.0	50	BRL	107	70-130		30
1,3,5-Trimethylbenzene	54.97		ug/kg	1.0	50	BRL	110	70-130		30
1,3-Dichlorobenzene	55.03	r	ug/kg	5.0	50	BRL	110	70-130		30
1,3-Dichloropropane	41.79		ug/kg	5.0	50	BRL	84	70-130		30
1,4-Dichlorobenzene	57.49		ug/kg	5.0	50	BRL	115	70-130		30
1,2-Dichlorobenzene	40.65	r	ug/kg	5.0	50	BRL	81	70-130		30
2-Chlorotoluene	56.24		ug/kg	5.0	50	BRL	112	70-130		30
1,2-Dibromoethane	33.55	m	ug/kg	5.0	50	BRL	67	70-130		30
2-Isopropyltoluene	51.53		ug/kg	5.0	50	BRL	103	70-130		30
4-Chlorotoluene	45.72		ug/kg	5.0	50	BRL	91	70-130		30
4-Methyl-2-pentanone	47.34		ug/kg	25	50	BRL	95	70-130		30
Trichlorotrifluoroethane	55.36		ug/kg	5.0	50	BRL	111	70-130		30
Acrylonitrile	39.59		ug/kg	5.0	50	BRL	79	70-130		30
Bromobenzene	44.14		ug/kg	5.0	50	BRL	88	70-130		30
Bromochloromethane	39.65		ug/kg	5.0	50	BRL	79	70-130		30
2,2-Dichloropropane	59.94		ug/kg	5.0	50	BRL	120	70-130		30
1,1,2-Trichloroethane	50.97		ug/kg	5.0	50	BRL	102	70-130		30
Bromodichloromethane	50.96		ug/kg	5.0	50	BRL	102	70-130		30
1,1,1,2-Tetrachloroethane	55.50		ug/kg	5.0	50	BRL	111	70-130		30
1,2-Dichloroethane	41.66		ug/kg	5.0	50	BRL	83	70-130		30
1,1,2,2-Tetrachloroethane	54.78		ug/kg	3.0	50	BRL	110	70-130		30
Bromoform	42.08		ug/kg	5.0	50	BRL	84	70-130		30
1,1-Dichloroethane	55.57		ug/kg	5.0	50	BRL	111	70-130		30
1,1-Dichloroethene	55.70		ug/kg	5.0	50	BRL	111	70-130		30
1,1-Dichloropropene	50.97		ug/kg	5.0	50	BRL	102	70-130		30
1,2,3-Trichlorobenzene	56.40		ug/kg	5.0	50	BRL	113	70-130		30
1,2,3-Trichloropropane	47.97		ug/kg	5.0	50	BRL	96	70-130		30
1,2,4-Trichlorobenzene	52.80		ug/kg	5.0	50	BRL	106	70-130		30
1,2,4-Trimethylbenzene	59.96		ug/kg	1.0	50	BRL	120	70-130		30
1,2-Dibromo-3-chloropropane	52.72		ug/kg	5.0	50	BRL	105	70-130		30
1,1,1-Trichloroethane	60.62		ug/kg	5.0	50	BRL	121	70-130		30
Surrogate: % Toluene-d8	51.17		ug/kg		50		102	70-130		
Surrogate: % Dibromofluoromethane	49.32		ug/kg		50		99	70-130		
Surrogate: % Bromofluorobenzene	42.45		ug/kg		50		85	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	56.77		ug/kg		50		114	70-130		
MSD (CB66876-MSD)	Source: SC50830-07				Prepared: Analyzed: 07-Oct-18					

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
MSD (CB66876-MSD)				Source: SC50830-07		Prepared: Analyzed: 07-Oct-18				
Acetone	48.82		ug/kg	10	50	BRL	98	70-130	5.0	30
4-Chlorotoluene	45.13		ug/kg	5.0	50	BRL	90	70-130	1.1	30
Methyl t-butyl ether (MTBE)	54.54		ug/kg	1.0	50	BRL	109	70-130	0.9	30
Methyl Ethyl Ketone	43.42		ug/kg	5.0	50	BRL	87	70-130	3.5	30
m&p-Xylene	91.61		ug/kg	2.0	100	BRL	92	70-130	0.0	30
Isopropylbenzene	57.13		ug/kg	1.0	50	BRL	114	70-130	27.9	30
Hexachlorobutadiene	59.71		ug/kg	5.0	50	BRL	119	70-130	24.5	30
Ethylbenzene	50.73		ug/kg	1.0	50	BRL	101	70-130	0.0	30
Bromomethane	50.78		ug/kg	5.0	50	BRL	102	70-130	1.0	30
Dibromomethane	36.69		ug/kg	5.0	50	BRL	73	70-130	2.8	30
n-Butylbenzene	48.38		ug/kg	1.0	50	BRL	97	70-130	9.8	30
cis-1,3-Dichloropropene	34.80		ug/kg	5.0	50	BRL	70	70-130	1.4	30
Chloromethane	50.22		ug/kg	5.0	50	BRL	100	70-130	0.0	30
Chloroform	51.05		ug/kg	5.0	50	BRL	102	70-130	3.8	30
Chloroethane	52.65		ug/kg	5.0	50	BRL	105	70-130	2.8	30
Chlorobenzene	41.48		ug/kg	5.0	50	BRL	83	70-130	1.2	30
Carbon tetrachloride	55.17		ug/kg	5.0	50	BRL	110	70-130	5.3	30
Carbon Disulfide	36.83		ug/kg	5.0	50	BRL	74	70-130	1.3	30
Dichlorodifluoromethane	58.98		ug/kg	5.0	50	BRL	118	70-130	4.1	30
Tetrachloroethene	50.89		ug/kg	5.0	50	BRL	102	70-130	3.8	30
Vinyl chloride	53.07		ug/kg	5.0	50	BRL	106	70-130	6.4	30
Trichlorotrifluoroethane	54.36		ug/kg	5.0	50	BRL	109	70-130	1.8	30
Trichlorofluoromethane	57.33		ug/kg	5.0	50	BRL	115	70-130	5.1	30
Trichloroethene	44.54		ug/kg	5.0	50	BRL	89	70-130	4.4	30
trans-1,4-dichloro-2-butene	229.2		ug/kg	5.0	250	BRL	92	70-130	4.4	30
trans-1,3-Dichloropropene	53.33	r	ug/kg	5.0	50	BRL	107	70-130	79.7	30
trans-1,2-Dichloroethene	42.99		ug/kg	5.0	50	BRL	86	70-130	3.4	30
Methylene chloride	51.67		ug/kg	5.0	50	BRL	103	70-130	22.4	30
Tetrahydrofuran (THF)	118.6		ug/kg	5.0	125	BRL	95	70-130	3.2	30
Naphthalene	58.99		ug/kg	5.0	50		118	70-130	5.2	30
tert-Butylbenzene	57.72		ug/kg	1.0	50	BRL	115	70-130	0.9	30
Styrene	34.92	r	ug/kg	5.0	50	BRL	70	70-130	37.2	30
sec-Butylbenzene	64.28		ug/kg	1.0	50	BRL	129	70-130	8.9	30
p-Isopropyltoluene	59.13		ug/kg	1.0	50	BRL	118	70-130	2.6	30
o-Xylene	50.86		ug/kg	2.0	50	BRL	102	70-130	1.0	30
n-Propylbenzene	57.01		ug/kg	1.0	50	BRL	114	70-130	0.9	30
cis-1,2-Dichloroethene	42.04		ug/kg	5.0	50	BRL	84	70-130	1.2	30
Toluene	48.10		ug/kg	1.0	50	BRL	96	70-130	3.1	30
Dibromochloromethane	49.72		ug/kg	3.0	50	BRL	99	70-130	0.0	30
1,2-Dichloroethane	41.29		ug/kg	5.0	50	BRL	83	70-130	0.0	30
1,2-Dichlorobenzene	57.77	r	ug/kg	5.0	50	BRL	116	70-130	35.5	30
1,2-Dibromoethane	35.22		ug/kg	5.0	50	BRL	70	70-130	4.4	30
1,2-Dibromo-3-chloropropane	51.97		ug/kg	5.0	50	BRL	104	70-130	1.0	30
1,2,4-Trimethylbenzene	58.70		ug/kg	1.0	50	BRL	117	70-130	2.5	30
1,2,4-Trichlorobenzene	54.78		ug/kg	5.0	50	BRL	110	70-130	3.7	30
1,2-Dichloropropane	52.39		ug/kg	5.0	50	BRL	105	70-130	1.9	30
1,2,3-Trichlorobenzene	56.39		ug/kg	5.0	50	BRL	113	70-130	0.0	30
1,2,3-Trichloropropane	57.30		ug/kg	5.0	50	BRL	115	70-130	18.0	30
1,1-Dichloroethene	51.94		ug/kg	5.0	50	BRL	104	70-130	6.5	30
1,1-Dichloroethane	54.07		ug/kg	5.0	50	BRL	108	70-130	2.7	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450841A - SW8260C										
MSD (CB66876-MSD)				Source: SC50830-07		Prepared: Analyzed: 07-Oct-18				
1,1,2-Trichloroethane	47.70		ug/kg	5.0	50	BRL	95	70-130	7.1	30
1,1,2,2-Tetrachloroethane	55.88		ug/kg	3.0	50	BRL	112	70-130	1.8	30
1,1,1-Trichloroethane	56.76		ug/kg	5.0	50	BRL	114	70-130	6.0	30
1,1,1,2-Tetrachloroethane	56.32		ug/kg	5.0	50	BRL	113	70-130	1.8	30
Bromoform	44.36		ug/kg	5.0	50	BRL	89	70-130	5.8	30
2-Isopropyltoluene	58.59		ug/kg	5.0	50	BRL	117	70-130	12.7	30
Bromochloromethane	39.37		ug/kg	5.0	50	BRL	79	70-130	0.0	30
Bromobenzene	44.97		ug/kg	5.0	50	BRL	90	70-130	2.2	30
Benzene	49.77		ug/kg	1.0	50	BRL	100	70-130	3.0	30
Acrylonitrile	39.98		ug/kg	5.0	50	BRL	80	70-130	1.3	30
1,3,5-Trimethylbenzene	56.42		ug/kg	1.0	50	BRL	113	70-130	2.7	30
Bromodichloromethane	48.92		ug/kg	5.0	50	BRL	98	70-130	4.0	30
1,1-Dichloropropene	49.93		ug/kg	5.0	50	BRL	100	70-130	2.0	30
2-Hexanone	42.53		ug/kg	25	50	BRL	85	70-130	4.8	30
2-Chlorotoluene	57.83		ug/kg	5.0	50	BRL	116	70-130	3.5	30
2,2-Dichloropropane	59.58		ug/kg	5.0	50	BRL	119	70-130	0.8	30
1,4-Dichlorobenzene	57.21		ug/kg	5.0	50	BRL	114	70-130	0.9	30
1,3-Dichloropropane	43.20		ug/kg	5.0	50	BRL	86	70-130	2.4	30
1,3-Dichlorobenzene	36.06	r	ug/kg	5.0	50	BRL	72	70-130	41.8	30
4-Methyl-2-pentanone	47.93		ug/kg	25	50	BRL	96	70-130	1.0	30
Surrogate: % Toluene-d8	50.34		ug/kg		50		101	70-130		
Surrogate: % Dibromofluoromethane	50.37		ug/kg		50		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	55.99		ug/kg		50		112	70-130		
Surrogate: % Bromofluorobenzene	43.07		ug/kg		50		86	70-130		
Batch 450998A - SW8260C										
BLK (CB66877-BLK)						Prepared: Analyzed: 08-Oct-18				
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
BLK (CB66877-BLK)	Prepared: Analyzed: 08-Oct-18									
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
Surrogate: % Bromofluorobenzene	102		ug/kg		50		102	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	95		ug/kg		50		95	70-130		
Surrogate: % Toluene-d8	86		ug/kg		50		86	70-130		
Surrogate: % Dibromofluoromethane	106		ug/kg		50		106	70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
LCS (CB66877-LCS)	Prepared: Analyzed: 08-Oct-18									
1,1-Dichloroethene	61.02		ug/kg	5.0	50		122	70-130		30
1,3-Dichloropropane	52.12		ug/kg	5.0	50		104	70-130		30
1,3-Dichlorobenzene	54.05		ug/kg	5.0	50		108	70-130		30
1,3,5-Trimethylbenzene	53.08		ug/kg	1.0	50		106	70-130		30
1,2-Dichloropropane	54.41		ug/kg	5.0	50		109	70-130		30
1,2-Dichloroethane	55.99		ug/kg	5.0	50		112	70-130		30
1,2-Dichlorobenzene	56.83		ug/kg	5.0	50		114	70-130		30
1,2-Dibromoethane	53.54		ug/kg	5.0	50		107	70-130		30
1,2-Dibromo-3-chloropropane	55.27		ug/kg	5.0	50		111	70-130		30
1,2,3-Trichloropropane	51.67		ug/kg	5.0	50		103	70-130		30
1,2,4-Trimethylbenzene	53.02		ug/kg	1.0	50		106	70-130		30
1,2,4-Trichlorobenzene	54.76		ug/kg	5.0	50		110	70-130		30
1,1-Dichloropropene	58.26		ug/kg	5.0	50		117	70-130		30
1,1-Dichloroethane	58.54		ug/kg	5.0	50		117	70-130		30
1,2,3-Trichlorobenzene	55.36		ug/kg	5.0	50		111	70-130		30
Carbon Disulfide	51.27		ug/kg	5.0	50		103	70-130		30
1,4-Dichlorobenzene	56.43		ug/kg	5.0	50		113	70-130		30
1,1,2-Trichloroethane	56.83		ug/kg	5.0	50		114	70-130		30
Bromobenzene	57.22		ug/kg	5.0	50		114	70-130		30
Chloroethane	56.57		ug/kg	5.0	50		113	70-130		30
Chloroform	56.19		ug/kg	5.0	50		112	70-130		30
Ethylbenzene	54.27		ug/kg	1.0	50		109	70-130		30
1,1,2,2-Tetrachloroethane	57.09		ug/kg	3.0	50		114	70-130		30
Chlorobenzene	54.76		ug/kg	5.0	50		110	70-130		30
Carbon tetrachloride	56.16		ug/kg	5.0	50		112	70-130		30
Bromomethane	59.79		ug/kg	5.0	50		120	70-130		30
Bromoform	53.08		ug/kg	5.0	50		106	70-130		30
Bromochloromethane	55.17		ug/kg	5.0	50		110	70-130		30
2,2-Dichloropropane	59.00		ug/kg	5.0	50		118	70-130		30
Benzene	55.25		ug/kg	1.0	50		110	70-130		30
Acrylonitrile	48.51		ug/kg	5.0	50		97	70-130		30
Acetone	43.89		ug/kg	10	50		88	70-130		30
4-Methyl-2-pentanone	48.99		ug/kg	25	50		98	70-130		30
4-Chlorotoluene	54.68		ug/kg	5.0	50		109	70-130		30
2-Isopropyltoluene	50.68		ug/kg	5.0	50		101	70-130		30
2-Hexanone	44.49		ug/kg	25	50		89	70-130		30
2-Chlorotoluene	55.20		ug/kg	5.0	50		110	70-130		30
Bromodichloromethane	57.49		ug/kg	5.0	50		115	70-130		30
trans-1,3-Dichloropropene	55.11		ug/kg	5.0	50		110	70-130		30
n-Propylbenzene	55.11		ug/kg	1.0	50		110	70-130		30
o-Xylene	54.40		ug/kg	2.0	50		109	70-130		30
p-Isopropyltoluene	55.42		ug/kg	1.0	50		111	70-130		30
sec-Butylbenzene	57.55		ug/kg	1.0	50		115	70-130		30
Styrene	51.06		ug/kg	5.0	50		102	70-130		30
tert-Butylbenzene	55.62		ug/kg	1.0	50		111	70-130		30
n-Butylbenzene	57.34		ug/kg	1.0	50		115	70-130		30
Toluene	57.62		ug/kg	1.0	50		115	70-130		30
Tetrahydrofuran (THF)	118.0		ug/kg	5.0	125		94	70-130		30
trans-1,4-dichloro-2-butene	248.8		ug/kg	5.0	250		100	70-130		30
Trichloroethene	56.07		ug/kg	5.0	50		112	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
LCS (CB66877-LCS)					Prepared: Analyzed: 08-Oct-18					
Trichlorofluoromethane	59.05		ug/kg	5.0	50		118	70-130		30
Trichlorotrifluoroethane	52.84		ug/kg	5.0	50		106	70-130		30
Vinyl chloride	61.27		ug/kg	5.0	50		123	70-130		30
1,1,1-Trichloroethane	57.03		ug/kg	5.0	50		114	70-130		30
Dibromomethane	58.48		ug/kg	5.0	50		117	70-130		30
Tetrachloroethene	59.89		ug/kg	5.0	50		120	70-130		30
Dichlorodifluoromethane	60.04		ug/kg	5.0	50		120	70-130		30
Naphthalene	58.18		ug/kg	5.0	50		116	70-130		30
Chloromethane	53.87		ug/kg	5.0	50		108	70-130		30
cis-1,2-Dichloroethene	59.73		ug/kg	5.0	50		119	70-130		30
cis-1,3-Dichloropropene	57.87		ug/kg	5.0	50		116	70-130		30
trans-1,2-Dichloroethene	59.65		ug/kg	5.0	50		119	70-130		30
1,1,1,2-Tetrachloroethane	51.19		ug/kg	5.0	50		102	70-130		30
Hexachlorobutadiene	56.18		ug/kg	5.0	50		112	70-130		30
Isopropylbenzene	54.75		ug/kg	1.0	50		109	70-130		30
m&p-Xylene	102.8		ug/kg	2.0	100		103	70-130		30
Methyl Ethyl Ketone	47.05		ug/kg	5.0	50		94	70-130		30
Methyl t-butyl ether (MTBE)	53.17		ug/kg	1.0	50		106	70-130		30
Methylene chloride	52.85		ug/kg	5.0	50		106	70-130		30
Dibromochloromethane	57.60		ug/kg	3.0	50		115	70-130		30
Surrogate: % Dibromofluoromethane	50.34		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	51.52		ug/kg		50		103	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.13		ug/kg		50		100	70-130		
Surrogate: % Bromofluorobenzene	49.17		ug/kg		50		98	70-130		
LCSD (CB66877-LCSD)					Prepared: Analyzed: 08-Oct-18					
Chloromethane	56.46		ug/kg	5.0	50		113	70-130	4.5	30
m&p-Xylene	103.0		ug/kg	2.0	100		103	70-130	0.0	30
Isopropylbenzene	54.62		ug/kg	1.0	50		109	70-130	0.0	30
Hexachlorobutadiene	57.53		ug/kg	5.0	50		115	70-130	2.6	30
Ethylbenzene	54.15		ug/kg	1.0	50		108	70-130	0.9	30
Dichlorodifluoromethane	64.28		ug/kg	5.0	50		129	70-130	7.2	30
Dibromomethane	57.99		ug/kg	5.0	50		116	70-130	0.9	30
Dibromochloromethane	56.48		ug/kg	3.0	50		113	70-130	1.8	30
Carbon Disulfide	52.90		ug/kg	5.0	50		106	70-130	2.9	30
cis-1,2-Dichloroethene	60.02		ug/kg	5.0	50		120	70-130	0.8	30
Chloroform	57.77		ug/kg	5.0	50		116	70-130	3.5	30
Chloroethane	57.97		ug/kg	5.0	50		116	70-130	2.6	30
Chlorobenzene	54.51		ug/kg	5.0	50		109	70-130	0.9	30
Bromobenzene	56.59		ug/kg	5.0	50		113	70-130	0.9	30
Carbon tetrachloride	57.44		ug/kg	5.0	50		115	70-130	2.6	30
Vinyl chloride	63.50		ug/kg	5.0	50		127	70-130	3.2	30
Methyl Ethyl Ketone	46.30		ug/kg	5.0	50		93	70-130	1.1	30
cis-1,3-Dichloropropene	59.34		ug/kg	5.0	50		119	70-130	2.6	30
Styrene	51.37		ug/kg	5.0	50		103	70-130	1.0	30
Trichlorotrifluoroethane	54.48		ug/kg	5.0	50		109	70-130	2.8	30
Trichloroethene	57.48		ug/kg	5.0	50		115	70-130	2.6	30
trans-1,4-dichloro-2-butene	243.4		ug/kg	5.0	250		97	70-130	3.0	30
trans-1,3-Dichloropropene	55.34		ug/kg	5.0	50		111	70-130	0.9	30
trans-1,2-Dichloroethene	60.44		ug/kg	5.0	50		121	70-130	1.7	30
Toluene	58.38		ug/kg	1.0	50		117	70-130	1.7	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
LCSD (CB66877-LCSD)					Prepared: Analyzed: 08-Oct-18					
Tetrahydrofuran (THF)	117.3		ug/kg	5.0	125		94	70-130	0.0	30
Trichlorofluoromethane	60.61		ug/kg	5.0	50		121	70-130	2.5	30
tert-Butylbenzene	54.64		ug/kg	1.0	50		109	70-130	1.8	30
Methyl t-butyl ether (MTBE)	53.86		ug/kg	1.0	50		108	70-130	1.9	30
sec-Butylbenzene	55.51		ug/kg	1.0	50		111	70-130	3.5	30
p-Isopropyltoluene	55.05		ug/kg	1.0	50		110	70-130	0.9	30
o-Xylene	54.42		ug/kg	2.0	50		109	70-130	0.0	30
n-Propylbenzene	56.09		ug/kg	1.0	50		112	70-130	1.8	30
n-Butylbenzene	58.09		ug/kg	1.0	50		116	70-130	0.9	30
Naphthalene	56.55		ug/kg	5.0	50		113	70-130	2.6	30
Methylene chloride	53.07		ug/kg	5.0	50		106	70-130	0.0	30
Tetrachloroethene	61.89		ug/kg	5.0	50		124	70-130	3.3	30
1,1-Dichloroethane	59.74		ug/kg	5.0	50		119	70-130	1.7	30
1,2-Dibromoethane	54.47		ug/kg	5.0	50		109	70-130	1.9	30
1,2-Dibromo-3-chloropropane	53.97		ug/kg	5.0	50		108	70-130	2.7	30
1,2,4-Trimethylbenzene	53.22		ug/kg	1.0	50		106	70-130	0.0	30
1,2,4-Trichlorobenzene	55.19		ug/kg	5.0	50		110	70-130	0.0	30
1,2,3-Trichloropropane	50.01		ug/kg	5.0	50		100	70-130	3.0	30
1,2,3-Trichlorobenzene	55.31		ug/kg	5.0	50		111	70-130	0.0	30
1,2-Dichloroethane	56.13		ug/kg	5.0	50		112	70-130	0.0	30
1,1-Dichloroethene	59.91		ug/kg	5.0	50		120	70-130	1.7	30
1,2-Dichloropropane	55.17		ug/kg	5.0	50		110	70-130	0.9	30
1,1,2-Trichloroethane	56.98		ug/kg	5.0	50		114	70-130	0.0	30
1,1,2,2-Tetrachloroethane	55.78		ug/kg	3.0	50		112	70-130	1.8	30
1,1,1-Trichloroethane	60.66		ug/kg	5.0	50		121	70-130	6.0	30
1,1,1,2-Tetrachloroethane	52.05		ug/kg	5.0	50		104	70-130	1.9	30
Bromodichloromethane	57.45		ug/kg	5.0	50		115	70-130	0.0	30
Bromomethane	61.79		ug/kg	5.0	50		124	70-130	3.3	30
1,1-Dichloropropene	59.59		ug/kg	5.0	50		119	70-130	1.7	30
2-Hexanone	44.99		ug/kg	25	50		90	70-130	1.1	30
Bromoform	53.74		ug/kg	5.0	50		107	70-130	0.9	30
Bromochloromethane	56.92		ug/kg	5.0	50		114	70-130	3.6	30
Benzene	55.34		ug/kg	1.0	50		111	70-130	0.9	30
Acrylonitrile	52.62		ug/kg	5.0	50		105	70-130	7.9	30
Acetone	43.20		ug/kg	10	50		86	70-130	2.3	30
4-Methyl-2-pentanone	48.21		ug/kg	25	50		96	70-130	2.1	30
1,2-Dichlorobenzene	56.75		ug/kg	5.0	50		113	70-130	0.9	30
2-Isopropyltoluene	49.70		ug/kg	5.0	50		99	70-130	2.0	30
2-Chlorotoluene	53.74		ug/kg	5.0	50		107	70-130	2.8	30
2,2-Dichloropropane	61.83		ug/kg	5.0	50		124	70-130	5.0	30
1,4-Dichlorobenzene	55.02		ug/kg	5.0	50		110	70-130	2.7	30
1,3-Dichloropropane	51.31		ug/kg	5.0	50		103	70-130	1.0	30
1,3-Dichlorobenzene	53.69		ug/kg	5.0	50		107	70-130	0.9	30
1,3,5-Trimethylbenzene	52.96		ug/kg	1.0	50		106	70-130	0.0	30
4-Chlorotoluene	54.65		ug/kg	5.0	50		109	70-130	0.0	30
Surrogate: % Bromofluorobenzene	49.42		ug/kg		50		99	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.76		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	51.47		ug/kg		50		103	70-130		
Surrogate: % Dibromofluoromethane	51.44		ug/kg		50		103	70-130		
MS (CB66877-MS)				Source: SC50830-08		Prepared: Analyzed: 08-Oct-18				

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
MS (CB66877-MS)				Source: SC50830-08		Prepared: Analyzed: 08-Oct-18				
Acetone	35.57	m	ug/kg	10	50		53	70-130		30
2,2-Dichloropropane	54.20		ug/kg	5.0	50	BRL	108	70-130		30
2-Chlorotoluene	54.02		ug/kg	5.0	50	BRL	108	70-130		30
2-Hexanone	46.71		ug/kg	25	50	BRL	93	70-130		30
2-Isopropyltoluene	49.57		ug/kg	5.0	50	BRL	99	70-130		30
1,4-Dichlorobenzene	54.24		ug/kg	5.0	50	BRL	108	70-130		30
4-Methyl-2-pentanone	49.71		ug/kg	25	50	BRL	99	70-130		30
1,3,5-Trimethylbenzene	52.34		ug/kg	1.0	50	BRL	105	70-130		30
Acrylonitrile	49.05		ug/kg	5.0	50	BRL	98	70-130		30
Benzene	53.71		ug/kg	1.0	50		106	70-130		30
Bromobenzene	56.19		ug/kg	5.0	50	BRL	112	70-130		30
Bromochloromethane	49.86		ug/kg	5.0	50	BRL	100	70-130		30
Bromodichloromethane	54.46		ug/kg	5.0	50	BRL	109	70-130		30
Bromoform	50.48		ug/kg	5.0	50	BRL	101	70-130		30
Bromomethane	21.70	r	ug/kg	5.0	20	BRL	109	70-130		30
4-Chlorotoluene	52.61		ug/kg	5.0	50	BRL	105	70-130		30
1,2,4-Trichlorobenzene	51.52		ug/kg	5.0	50	BRL	103	70-130		30
Carbon Disulfide	41.25		ug/kg	5.0	50	BRL	82	70-130		30
1,1,2,2-Tetrachloroethane	56.51		ug/kg	3.0	50	BRL	113	70-130		30
1,1,2-Trichloroethane	56.89		ug/kg	5.0	50	BRL	114	70-130		30
1,1-Dichloroethane	51.82		ug/kg	5.0	50	BRL	104	70-130		30
1,1-Dichloroethene	49.15		ug/kg	5.0	50	BRL	98	70-130		30
1,1-Dichloropropene	57.64		ug/kg	5.0	50	BRL	115	70-130		30
1,3-Dichloropropane	49.72		ug/kg	5.0	50	BRL	99	70-130		30
1,2,3-Trichloropropane	49.15		ug/kg	5.0	50	BRL	98	70-130		30
1,1,1-Trichloroethane	54.14		ug/kg	5.0	50	BRL	108	70-130		30
1,2,4-Trimethylbenzene	51.26		ug/kg	1.0	50	BRL	103	70-130		30
1,2-Dibromo-3-chloropropane	58.46		ug/kg	5.0	50	BRL	117	70-130		30
1,2-Dibromoethane	52.72		ug/kg	5.0	50	BRL	105	70-130		30
1,2-Dichloroethane	53.34		ug/kg	5.0	50	BRL	107	70-130		30
n-Butylbenzene	56.98		ug/kg	1.0	50	BRL	114	70-130		30
1,3-Dichlorobenzene	52.67		ug/kg	5.0	50	BRL	105	70-130		30
1,2,3-Trichlorobenzene	54.26		ug/kg	5.0	50	BRL	109	70-130		30
Toluene	58.97		ug/kg	1.0	50		113	70-130		30
Methylene chloride	46.05		ug/kg	5.0	50	BRL	92	70-130		30
o-Xylene	53.22		ug/kg	2.0	50	BRL	106	70-130		30
p-Isopropyltoluene	54.56		ug/kg	1.0	50	BRL	109	70-130		30
sec-Butylbenzene	56.30		ug/kg	1.0	50	BRL	113	70-130		30
Styrene	49.08		ug/kg	5.0	50	BRL	98	70-130		30
tert-Butylbenzene	54.34		ug/kg	1.0	50	BRL	109	70-130		30
1,2-Dichlorobenzene	56.30		ug/kg	5.0	50	BRL	113	70-130		30
Tetrahydrofuran (THF)	116.2		ug/kg	5.0	125	BRL	93	70-130		30
Naphthalene	58.52		ug/kg	5.0	50		111	70-130		30
trans-1,2-Dichloroethene	53.76		ug/kg	5.0	50	BRL	108	70-130		30
trans-1,3-Dichloropropene	51.48		ug/kg	5.0	50	BRL	103	70-130		30
trans-1,4-dichloro-2-butene	234.2		ug/kg	5.0	250	BRL	94	70-130		30
Trichloroethene	54.47		ug/kg	5.0	50	BRL	109	70-130		30
Trichlorofluoromethane	23.29		ug/kg	5.0	20	BRL	116	70-130		30
Trichlorotrifluoroethane	44.93		ug/kg	5.0	50	BRL	90	70-130		30
Vinyl chloride	55.48		ug/kg	5.0	50	BRL	111	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
MS (CB66877-MS)				Source: SC50830-08		Prepared: Analyzed: 08-Oct-18				
Tetrachloroethene	58.75		ug/kg	5.0	50	BRL	118	70-130		30
Dichlorodifluoromethane	51.73		ug/kg	5.0	50	BRL	103	70-130		30
Chlorobenzene	52.27		ug/kg	5.0	50	BRL	105	70-130		30
Chloroethane	20.35		ug/kg	5.0	20	BRL	102	70-130		30
Chloroform	50.03		ug/kg	5.0	50	BRL	100	70-130		30
Chloromethane	49.95		ug/kg	5.0	50	BRL	100	70-130		30
cis-1,2-Dichloroethene	52.98		ug/kg	5.0	50	BRL	106	70-130		30
cis-1,3-Dichloropropene	55.26		ug/kg	5.0	50	BRL	111	70-130		30
n-Propylbenzene	54.20		ug/kg	1.0	50	BRL	108	70-130		30
Dibromomethane	54.59		ug/kg	5.0	50	BRL	109	70-130		30
Carbon tetrachloride	51.35		ug/kg	5.0	50	BRL	103	70-130		30
Ethylbenzene	51.72		ug/kg	1.0	50	BRL	103	70-130		30
Hexachlorobutadiene	58.46		ug/kg	5.0	50	BRL	117	70-130		30
Isopropylbenzene	54.07		ug/kg	1.0	50	BRL	108	70-130		30
m&p-Xylene	100.7		ug/kg	2.0	100		99	70-130		30
Methyl Ethyl Ketone	48.74		ug/kg	5.0	50	BRL	97	70-130		30
Methyl t-butyl ether (MTBE)	49.12		ug/kg	1.0	50	BRL	98	70-130		30
1,1,1,2-Tetrachloroethane	50.11		ug/kg	5.0	50	BRL	100	70-130		30
Dibromochloromethane	53.45		ug/kg	3.0	50	BRL	107	70-130		30
1,2-Dichloropropane	52.94		ug/kg	5.0	50	BRL	106	70-130		30
Surrogate: % Bromofluorobenzene	49.53		ug/kg		50		99	70-130		
Surrogate: % Dibromofluoromethane	48.96		ug/kg		50		98	70-130		
Surrogate: % Toluene-d8	51.85		ug/kg		50		104	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	51.65		ug/kg		50		103	70-130		
MSD (CB66877-MSD)				Source: SC50830-08		Prepared: Analyzed: 08-Oct-18				
2-Isopropyltoluene	43.96		ug/kg	5.0	50	BRL	88	70-130	11.8	30
1,2-Dichloroethane	47.60		ug/kg	5.0	50	BRL	95	70-130	11.9	30
1,2-Dichloropropane	48.35		ug/kg	5.0	50	BRL	97	70-130	8.9	30
1,3,5-Trimethylbenzene	46.78		ug/kg	1.0	50	BRL	94	70-130	11.1	30
1,3-Dichlorobenzene	45.29		ug/kg	5.0	50	BRL	91	70-130	14.3	30
1,3-Dichloropropane	44.27		ug/kg	5.0	50	BRL	89	70-130	10.6	30
1,4-Dichlorobenzene	47.58		ug/kg	5.0	50	BRL	95	70-130	12.8	30
2,2-Dichloropropane	48.18		ug/kg	5.0	50	BRL	96	70-130	11.8	30
1,2-Dichlorobenzene	49.05		ug/kg	5.0	50	BRL	98	70-130	14.2	30
2-Hexanone	43.20		ug/kg	25	50	BRL	86	70-130	7.8	30
1,2,4-Trichlorobenzene	47.02		ug/kg	5.0	50	BRL	94	70-130	9.1	30
4-Chlorotoluene	47.36		ug/kg	5.0	50	BRL	95	70-130	10.0	30
4-Methyl-2-pentanone	45.60		ug/kg	25	50	BRL	91	70-130	8.4	30
Acetone	34.18	m	ug/kg	10	50		50	70-130	5.8	30
Acrylonitrile	45.91		ug/kg	5.0	50	BRL	92	70-130	6.3	30
2-Chlorotoluene	48.03		ug/kg	5.0	50	BRL	96	70-130	11.8	30
1,1-Dichloroethane	48.05		ug/kg	5.0	50	BRL	96	70-130	8.0	30
Trichlorofluoromethane	23.29		ug/kg	5.0	20	BRL	116	70-130	0.0	30
Trichloroethene	49.55		ug/kg	5.0	50	BRL	99	70-130	9.6	30
Vinyl chloride	50.01		ug/kg	5.0	50	BRL	100	70-130	10.4	30
1,1,1,2-Tetrachloroethane	45.27		ug/kg	5.0	50	BRL	91	70-130	9.4	30
1,1,1-Trichloroethane	49.03		ug/kg	5.0	50	BRL	98	70-130	9.7	30
1,2-Dibromo-3-chloropropane	48.89		ug/kg	5.0	50	BRL	98	70-130	17.7	30
1,1,2-Trichloroethane	51.31		ug/kg	5.0	50	BRL	103	70-130	10.1	30
1,2-Dibromoethane	47.86		ug/kg	5.0	50	BRL	96	70-130	9.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450998A - SW8260C										
MSD (CB66877-MSD)				Source: SC50830-08		Prepared: Analyzed: 08-Oct-18				
1,1-Dichloroethene	45.39		ug/kg	5.0	50	BRL	91	70-130	7.4	30
1,1-Dichloropropene	50.70		ug/kg	5.0	50	BRL	101	70-130	13.0	30
1,2,3-Trichlorobenzene	48.82		ug/kg	5.0	50	BRL	98	70-130	10.6	30
1,2,3-Trichloropropane	45.07		ug/kg	5.0	50	BRL	90	70-130	8.5	30
Bromochloromethane	46.18		ug/kg	5.0	50	BRL	92	70-130	8.3	30
1,2,4-Trimethylbenzene	46.60		ug/kg	1.0	50	BRL	93	70-130	10.2	30
1,1,2,2-Tetrachloroethane	50.11		ug/kg	3.0	50	BRL	100	70-130	12.2	30
Styrene	44.82		ug/kg	5.0	50	BRL	90	70-130	8.5	30
Benzene	48.59		ug/kg	1.0	50		96	70-130	9.9	30
Methyl t-butyl ether (MTBE)	45.52		ug/kg	1.0	50	BRL	91	70-130	7.4	30
Methylene chloride	42.18		ug/kg	5.0	50	BRL	84	70-130	9.1	30
Naphthalene	54.49		ug/kg	5.0	50		103	70-130	7.5	30
n-Butylbenzene	50.93		ug/kg	1.0	50	BRL	102	70-130	11.1	30
n-Propylbenzene	49.27		ug/kg	1.0	50	BRL	99	70-130	8.7	30
o-Xylene	48.69		ug/kg	2.0	50	BRL	97	70-130	8.9	30
m&p-Xylene	91.87		ug/kg	2.0	100		90	70-130	9.5	30
sec-Butylbenzene	50.10		ug/kg	1.0	50	BRL	100	70-130	12.2	30
Isopropylbenzene	48.47		ug/kg	1.0	50	BRL	97	70-130	10.7	30
tert-Butylbenzene	49.92		ug/kg	1.0	50	BRL	100	70-130	8.6	30
Tetrachloroethene	53.68		ug/kg	5.0	50	BRL	107	70-130	9.8	30
Tetrahydrofuran (THF)	109.1		ug/kg	5.0	125	BRL	87	70-130	6.7	30
Toluene	53.32		ug/kg	1.0	50		101	70-130	11.2	30
trans-1,2-Dichloroethene	49.12		ug/kg	5.0	50	BRL	98	70-130	9.7	30
trans-1,3-Dichloropropene	47.67		ug/kg	5.0	50	BRL	95	70-130	8.1	30
trans-1,4-dichloro-2-butene	206.9		ug/kg	5.0	250	BRL	83	70-130	12.4	30
p-Isopropyltoluene	49.51		ug/kg	1.0	50	BRL	99	70-130	9.6	30
Chloromethane	44.83		ug/kg	5.0	50	BRL	90	70-130	10.5	30
Trichlorotrifluoroethane	44.55		ug/kg	5.0	50	BRL	89	70-130	1.1	30
Bromodichloromethane	50.45		ug/kg	5.0	50	BRL	101	70-130	7.6	30
Bromoform	45.54		ug/kg	5.0	50	BRL	91	70-130	10.4	30
Bromomethane	39.29	r	ug/kg	5.0	50	BRL	79	70-130	31.9	30
Carbon Disulfide	38.48		ug/kg	5.0	50	BRL	77	70-130	6.3	30
Carbon tetrachloride	46.83		ug/kg	5.0	50	BRL	94	70-130	9.1	30
Chlorobenzene	47.93		ug/kg	5.0	50	BRL	96	70-130	9.0	30
Methyl Ethyl Ketone	42.97		ug/kg	5.0	50	BRL	86	70-130	12.0	30
Chloroform	44.26		ug/kg	5.0	50	BRL	89	70-130	11.6	30
Bromobenzene	48.76		ug/kg	5.0	50	BRL	98	70-130	13.3	30
cis-1,2-Dichloroethene	49.44		ug/kg	5.0	50	BRL	99	70-130	6.8	30
cis-1,3-Dichloropropene	49.62		ug/kg	5.0	50	BRL	99	70-130	11.4	30
Dibromochloromethane	49.29		ug/kg	3.0	50	BRL	99	70-130	7.8	30
Dibromomethane	50.90		ug/kg	5.0	50	BRL	102	70-130	6.6	30
Dichlorodifluoromethane	46.27		ug/kg	5.0	50	BRL	93	70-130	10.2	30
Ethylbenzene	48.26		ug/kg	1.0	50	BRL	97	70-130	6.0	30
Hexachlorobutadiene	52.26		ug/kg	5.0	50	BRL	105	70-130	10.8	30
Chloroethane	20.35		ug/kg	5.0	20	BRL	102	70-130	0.0	30
Surrogate: % 1,2-dichlorobenzene-d4	50.87		ug/kg		50		102	70-130		
Surrogate: % Toluene-d8	51.74		ug/kg		50		103	70-130		
Surrogate: % Bromofluorobenzene	49.85		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	50.21		ug/kg		50		100	70-130		

Batch 451011A - SW8260C

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
BLK (CB66880-BLK)	Prepared: Analyzed: 08-Oct-18									
tert-Butylbenzene	ND	c1	ug/l	1.0			ND	-		
Styrene	ND	c1	ug/l	1.0			ND	-		
sec-Butylbenzene	ND	c1	ug/l	1.0			ND	-		
p-Isopropyltoluene	ND	c1	ug/l	1.0			ND	-		
m&p-Xylene	ND	c1	ug/l	1.0			ND	-		
Tetrachloroethene	ND	c1	ug/l	1.0			ND	-		
Toluene	ND	c1	ug/l	1.0			ND	-		
Tetrahydrofuran (THF)	ND	c1	ug/l	2.5			ND	-		
o-Xylene	ND	c1	ug/l	1.0			ND	-		
n-Propylbenzene	ND	c1	ug/l	1.0			ND	-		
n-Butylbenzene	ND	c1	ug/l	1.0			ND	-		
Naphthalene	ND	c1	ug/l	1.0			ND	-		
Methylene chloride	ND	c1	ug/l	1.0			ND	-		
cis-1,3-Dichloropropene	ND	c1	ug/l	0.40			ND	-		
4-Methyl-2-pentanone	ND	c1	ug/l	5.0			ND	-		
4-Chlorotoluene	ND	c1	ug/l	1.0			ND	-		
Carbon tetrachloride	ND	c1	ug/l	1.0			ND	-		
Chlorobenzene	ND	c1	ug/l	1.0			ND	-		
Chloroethane	ND	c1	ug/l	1.0			ND	-		
Chloroform	ND	c1	ug/l	1.0			ND	-		
Methyl t-butyl ether (MTBE)	ND	c1	ug/l	1.0			ND	-		
cis-1,2-Dichloroethene	ND	c1	ug/l	1.0			ND	-		
Methyl ethyl ketone	ND	c1	ug/l	5.0			ND	-		
Dibromochloromethane	ND	c1	ug/l	0.50			ND	-		
Dibromomethane	ND	c1	ug/l	1.0			ND	-		
Dichlorodifluoromethane	ND	c1	ug/l	1.0			ND	-		
Ethylbenzene	ND	c1	ug/l	1.0			ND	-		
Hexachlorobutadiene	ND	c1	ug/l	0.40			ND	-		
Isopropylbenzene	ND	c1	ug/l	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND	c1	ug/l	5.0			ND	-		
Chloromethane	ND	c1	ug/l	1.0			ND	-		
1,2-Dichloropropane	ND	c1	ug/l	1.0			ND	-		
1,1,1,2-Tetrachloroethane	ND	c1	ug/l	1.0			ND	-		
1,1,1-Trichloroethane	ND	c1	ug/l	1.0			ND	-		
1,1,2,2-Tetrachloroethane	ND	c1	ug/l	0.50			ND	-		
1,1,2-Trichloroethane	ND	c1	ug/l	1.0			ND	-		
1,1-Dichloroethane	ND	c1	ug/l	1.0			ND	-		
1,1-Dichloroethene	ND	c1	ug/l	1.0			ND	-		
1,1-Dichloropropene	ND	c1	ug/l	1.0			ND	-		
1,2,3-Trichlorobenzene	ND	c1	ug/l	1.0			ND	-		
1,2,3-Trichloropropane	ND	c1	ug/l	1.0			ND	-		
1,2,4-Trichlorobenzene	ND	c1	ug/l	1.0			ND	-		
1,2,4-Trimethylbenzene	ND	c1	ug/l	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND	c1	ug/l	1.0			ND	-		
1,2-Dibromoethane	ND	c1	ug/l	1.0			ND	-		
trans-1,2-Dichloroethene	ND	c1	ug/l	1.0			ND	-		
2-Chlorotoluene	ND	c1	ug/l	1.0			ND	-		
trans-1,3-Dichloropropene	ND	c1	ug/l	0.40			ND	-		
Trichlorofluoromethane	ND	c1	ug/l	1.0			ND	-		
Trichloroethene	ND	c1	ug/l	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
BLK (CB66880-BLK)	Prepared: Analyzed: 08-Oct-18									
Bromodichloromethane	ND	c1	ug/l	0.50			ND	-		
Trichlorotrifluoroethane	ND	c1	ug/l	1.0			ND	-		
1,2-Dichlorobenzene	ND	c1	ug/l	1.0			ND	-		
2-Hexanone	ND	c1	ug/l	5.0			ND	-		
1,2-Dichloroethane	ND	c1	ug/l	1.0			ND	-		
2,2-Dichloropropane	ND	c1	ug/l	1.0			ND	-		
1,4-Dichlorobenzene	ND	c1	ug/l	1.0			ND	-		
1,3-Dichloropropane	ND	c1	ug/l	1.0			ND	-		
1,3-Dichlorobenzene	ND	c1	ug/l	1.0			ND	-		
1,3,5-Trimethylbenzene	ND	c1	ug/l	1.0			ND	-		
Acetone	ND	c1	ug/l	5.0			ND	-		
2-Isopropyltoluene	ND	c1	ug/l	1.0			ND	-		
Bromoform	ND	c1	ug/l	1.0			ND	-		
Vinyl chloride	ND	c1	ug/l	1.0			ND	-		
Benzene	ND	c1	ug/l	0.70			ND	-		
Bromobenzene	ND	c1	ug/l	1.0			ND	-		
Bromochloromethane	ND	c1	ug/l	1.0			ND	-		
Carbon Disulfide	ND	c1	ug/l	1.0			ND	-		
Bromomethane	ND	c1	ug/l	1.0			ND	-		
Acrylonitrile	ND	c1	ug/l	5.0			ND	-		
Surrogate: % Dibromofluoromethane	104	c1	ug/l		10		104	70-130		
Surrogate: % Bromofluorobenzene	95	c1	ug/l		10		95	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	103	c1	ug/l		10		103	70-130		
Surrogate: % Toluene-d8	100	c1	ug/l		10		100	70-130		
LCS (CB66880-LCS)	Prepared: Analyzed: 08-Oct-18									
Chloroethane	10.41	c1	ug/l	1.0	10		104	70-130		30
Carbon Disulfide	9.547	c1	ug/l	1.0	10		95	70-130		30
Carbon tetrachloride	11.05	c1	ug/l	1.0	10		111	70-130		30
1,3-Dichlorobenzene	10.84	c1	ug/l	1.0	10		108	70-130		30
1,2,4-Trichlorobenzene	10.21	c1	ug/l	1.0	10		102	70-130		30
1,3,5-Trimethylbenzene	11.00	c1	ug/l	1.0	10		110	70-130		30
1,2-Dichloropropane	11.34	c1	ug/l	1.0	10		113	70-130		30
1,2-Dichloroethane	10.62	c1	ug/l	1.0	10		106	70-130		30
1,2-Dichlorobenzene	10.70	c1	ug/l	1.0	10		107	70-130		30
1,2-Dibromoethane	11.15	c1	ug/l	1.0	10		112	70-130		30
1,1,1,2-Tetrachloroethane	11.02	c1	ug/l	1.0	10		110	70-130		30
1,2,4-Trimethylbenzene	10.94	c1	ug/l	1.0	10		109	70-130		30
1,1,1-Trichloroethane	11.07	c1	ug/l	1.0	10		111	70-130		30
1,2,3-Trichloropropane	10.99	c1	ug/l	1.0	10		110	70-130		30
1,2,3-Trichlorobenzene	9.900	c1	ug/l	1.0	10		99	70-130		30
1,1-Dichloropropene	11.04	c1	ug/l	1.0	10		110	70-130		30
1,1-Dichloroethene	11.24	c1	ug/l	1.0	10		112	70-130		30
1,1,2-Trichloroethane	11.27	c1	ug/l	1.0	10		113	70-130		30
Chloroform	11.19	c1	ug/l	1.0	10		112	70-130		30
1,2-Dibromo-3-chloropropane	10.90	c1	ug/l	1.0	10		109	70-130		30
Toluene	11.19	c1	ug/l	1.0	10		112	70-130		30
Chlorobenzene	10.95	c1	ug/l	1.0	10		109	70-130		30
p-Isopropyltoluene	11.16	c1	ug/l	1.0	10		112	70-130		30
sec-Butylbenzene	11.58	c1	ug/l	1.0	10		116	70-130		30
Styrene	11.39	c1	ug/l	1.0	10		114	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
LCS (CB66880-LCS)	Prepared: Analyzed: 08-Oct-18									
tert-Butylbenzene	11.04	c1	ug/l	1.0	10		110	70-130		30
n-Propylbenzene	11.16	c1	ug/l	1.0	10		112	70-130		30
Tetrahydrofuran (THF)	25.23	c1	ug/l	2.5	25		101	70-130		30
n-Butylbenzene	11.07	c1	ug/l	1.0	10		111	70-130		30
trans-1,2-Dichloroethene	11.54	c1	ug/l	1.0	10		115	70-130		30
trans-1,3-Dichloropropene	10.51	c1	ug/l	0.40	10		105	70-130		30
trans-1,4-dichloro-2-butene	52.28	c1	ug/l	5.0	50		105	70-130		30
Trichloroethene	11.19	c1	ug/l	1.0	10		112	70-130		30
Trichlorofluoromethane	9.943	c1	ug/l	1.0	10		99	70-130		30
Trichlorotrifluoroethane	9.328	c1	ug/l	1.0	10		93	70-130		30
Tetrachloroethene	10.88	c1	ug/l	1.0	10		109	70-130		30
Hexachlorobutadiene	10.67	c1	ug/l	0.40	10		107	70-130		30
Chloromethane	10.26	c1	ug/l	1.0	10		103	70-130		30
cis-1,2-Dichloroethene	11.27	c1	ug/l	1.0	10		113	70-130		30
cis-1,3-Dichloropropene	11.08	c1	ug/l	0.40	10		111	70-130		30
Dibromochloromethane	11.62	c1	ug/l	0.50	10		116	70-130		30
Dibromomethane	11.03	c1	ug/l	1.0	10		110	70-130		30
o-Xylene	11.20	c1	ug/l	1.0	10		112	70-130		30
Ethylbenzene	10.97	c1	ug/l	1.0	10		110	70-130		30
1,1-Dichloroethane	11.38	c1	ug/l	1.0	10		114	70-130		30
Isopropylbenzene	11.13	c1	ug/l	1.0	10		111	70-130		30
m&p-Xylene	21.84	c1	ug/l	1.0	20		109	70-130		30
Methyl ethyl ketone	10.83	c1	ug/l	5.0	10		108	70-130		30
Methyl t-butyl ether (MTBE)	10.47	c1	ug/l	1.0	10		105	70-130		30
Methylene chloride	10.94	c1	ug/l	1.0	10		109	70-130		30
Naphthalene	10.43	c1	ug/l	1.0	10		104	70-130		30
Dichlorodifluoromethane	9.638	c1	ug/l	1.0	10		96	70-130		30
Acetone	10.38	c1	ug/l	5.0	10		104	70-130		30
1,1,2,2-Tetrachloroethane	11.79	c1	ug/l	0.50	10		118	70-130		30
Bromomethane	11.96	c1	ug/l	1.0	10		120	70-130		30
Bromoform	11.46	c1	ug/l	1.0	10		115	70-130		30
Bromodichloromethane	11.21	c1	ug/l	0.50	10		112	70-130		30
Bromochloromethane	11.67	c1	ug/l	1.0	10		117	70-130		30
1,3-Dichloropropane	10.82	c1	ug/l	1.0	10		108	70-130		30
Bromobenzene	11.01	c1	ug/l	1.0	10		110	70-130		30
Acrylonitrile	10.93	c1	ug/l	5.0	10		109	70-130		30
4-Methyl-2-pentanone	10.38	c1	ug/l	5.0	10		104	70-130		30
4-Chlorotoluene	10.82	c1	ug/l	1.0	10		108	70-130		30
2-Isopropyltoluene	9.886	c1	ug/l	1.0	10		99	70-130		30
2-Hexanone	9.915	c1	ug/l	5.0	10		99	70-130		30
2-Chlorotoluene	11.14	c1	ug/l	1.0	10		111	70-130		30
2,2-Dichloropropane	10.96	c1	ug/l	1.0	10		110	70-130		30
1,4-Dichlorobenzene	10.82	c1	ug/l	1.0	10		108	70-130		30
Vinyl chloride	11.45	c1	ug/l	1.0	10		114	70-130		30
Benzene	11.20	c1	ug/l	0.70	10		112	70-130		30
Surrogate: % Toluene-d8	10.19	c1	ug/l		10		102	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	9.992	c1	ug/l		10		100	70-130		
Surrogate: % Dibromofluoromethane	9.705	c1	ug/l		10		97	70-130		
Surrogate: % Bromofluorobenzene	9.961	c1	ug/l		10		100	70-130		
LCSD (CB66880-LCSD)	Prepared: Analyzed: 08-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
LCSD (CB66880-LCSD)	Prepared: Analyzed: 08-Oct-18									
2-Chlorotoluene	12.10	c1	ug/l	1.0	10		121	70-130	8.6	30
1,2-Dichloropropane	11.96	c1	ug/l	1.0	10		120	70-130	6.0	30
1,3,5-Trimethylbenzene	11.73	c1	ug/l	1.0	10		117	70-130	6.2	30
1,3-Dichlorobenzene	11.64	c1	ug/l	1.0	10		116	70-130	7.1	30
Benzene	11.92	c1	ug/l	0.70	10		119	70-130	6.1	30
1,3-Dichloropropane	11.72	c1	ug/l	1.0	10		117	70-130	8.0	30
1,4-Dichlorobenzene	11.62	c1	ug/l	1.0	10		116	70-130	7.1	30
Acrylonitrile	10.77	c1	ug/l	5.0	10		108	70-130	0.9	30
1,2-Dichloroethane	11.41	c1	ug/l	1.0	10		114	70-130	7.3	30
1,1,2,2-Tetrachloroethane	12.42	c1	ug/l	0.50	10		124	70-130	5.0	30
2-Hexanone	10.81	c1	ug/l	5.0	10		108	70-130	8.7	30
2-Isopropyltoluene	10.58	c1	ug/l	1.0	10		106	70-130	6.8	30
4-Chlorotoluene	11.66	c1	ug/l	1.0	10		117	70-130	8.0	30
4-Methyl-2-pentanone	10.64	c1	ug/l	5.0	10		106	70-130	1.9	30
Acetone	11.89	c1	ug/l	5.0	10		119	70-130	13.5	30
2,2-Dichloropropane	11.56	c1	ug/l	1.0	10		116	70-130	5.3	30
1,1,1-Trichloroethane	11.96	c1	ug/l	1.0	10		120	70-130	7.8	30
Trichloroethene	11.86	c1	ug/l	1.0	10		119	70-130	6.1	30
Trichlorofluoromethane	10.69	c1	ug/l	1.0	10		107	70-130	7.8	30
Trichlorotrifluoroethane	9.985	c1	ug/l	1.0	10		100	70-130	7.3	30
Vinyl chloride	12.37	c1	ug/l	1.0	10		124	70-130	8.4	30
1,1-Dichloroethene	12.11	c1	ug/l	1.0	10		121	70-130	7.7	30
1,1-Dichloroethane	12.66	c1	ug/l	1.0	10		127	70-130	10.8	30
1,1,1,2-Tetrachloroethane	11.99	c1	ug/l	1.0	10		120	70-130	8.7	30
cis-1,3-Dichloropropene	11.70	c1	ug/l	0.40	10		117	70-130	5.3	30
1,2-Dichlorobenzene	11.53	c1	ug/l	1.0	10		115	70-130	7.2	30
Bromobenzene	11.67	c1	ug/l	1.0	10		117	70-130	6.2	30
1,2,3-Trichlorobenzene	11.02	c1	ug/l	1.0	10		110	70-130	10.5	30
1,2,3-Trichloropropane	11.78	c1	ug/l	1.0	10		118	70-130	7.0	30
1,2,4-Trichlorobenzene	11.07	c1	ug/l	1.0	10		111	70-130	8.5	30
1,2,4-Trimethylbenzene	11.69	c1	ug/l	1.0	10		117	70-130	7.1	30
1,2-Dibromo-3-chloropropane	12.68	c1	ug/l	1.0	10		127	70-130	15.3	30
1,2-Dibromoethane	11.78	c1	ug/l	1.0	10		118	70-130	5.2	30
1,1,2-Trichloroethane	11.97	c1	ug/l	1.0	10		120	70-130	6.0	30
Methyl t-butyl ether (MTBE)	11.42	c1	ug/l	1.0	10		114	70-130	8.2	30
Chloromethane	11.07	c1	ug/l	1.0	10		111	70-130	7.5	30
sec-Butylbenzene	12.43	c1	ug/l	1.0	10		124	70-130	6.7	30
p-Isopropyltoluene	11.84	c1	ug/l	1.0	10		118	70-130	5.2	30
o-Xylene	12.23	c1	ug/l	1.0	10		122	70-130	8.5	30
n-Propylbenzene	11.87	c1	ug/l	1.0	10		119	70-130	6.1	30
n-Butylbenzene	11.94	c1	ug/l	1.0	10		119	70-130	7.0	30
tert-Butylbenzene	11.84	c1	ug/l	1.0	10		118	70-130	7.0	30
Methylene chloride	12.02	c1	ug/l	1.0	10		120	70-130	9.6	30
Tetrachloroethene	11.70	c1	ug/l	1.0	10		117	70-130	7.1	30
Methyl ethyl ketone	11.59	c1	ug/l	5.0	10		116	70-130	7.1	30
m&p-Xylene	23.95	c1	ug/l	1.0	20		120	70-130	9.6	30
Isopropylbenzene	11.87	c1	ug/l	1.0	10		119	70-130	7.0	30
Hexachlorobutadiene	11.68	c1	ug/l	0.40	10		117	70-130	8.9	30
Ethylbenzene	11.81	c1	ug/l	1.0	10		118	70-130	7.0	30
1,1-Dichloropropene	11.89	c1	ug/l	1.0	10		119	70-130	7.9	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
LCSD (CB66880-LCSD)	Prepared: Analyzed: 08-Oct-18									
Dichlorodifluoromethane	10.45	c1	ug/l	1.0	10		104	70-130	8.0	30
Naphthalene	11.46	c1	ug/l	1.0	10		115	70-130	10.0	30
Dibromochloromethane	12.39	c1	ug/l	0.50	10		124	70-130	6.7	30
Bromodichloromethane	11.86	c1	ug/l	0.50	10		119	70-130	6.1	30
Bromoform	12.35	c1	ug/l	1.0	10		124	70-130	7.5	30
Bromomethane	13.42	l, c1	ug/l	1.0	10		134	70-130	11.0	30
Carbon Disulfide	10.35	c1	ug/l	1.0	10		104	70-130	9.0	30
Carbon tetrachloride	11.91	c1	ug/l	1.0	10		119	70-130	7.0	30
Chlorobenzene	11.93	c1	ug/l	1.0	10		119	70-130	8.8	30
Chloroethane	11.41	c1	ug/l	1.0	10		114	70-130	9.2	30
Styrene	12.16	c1	ug/l	1.0	10		122	70-130	6.8	30
cis-1,2-Dichloroethene	12.33	c1	ug/l	1.0	10		123	70-130	8.5	30
Bromochloromethane	12.28	c1	ug/l	1.0	10		123	70-130	5.0	30
Dibromomethane	11.60	c1	ug/l	1.0	10		116	70-130	5.3	30
trans-1,4-dichloro-2-butene	57.11	c1	ug/l	5.0	50		114	70-130	8.2	30
trans-1,3-Dichloropropene	11.46	c1	ug/l	0.40	10		115	70-130	9.1	30
trans-1,2-Dichloroethene	12.47	c1	ug/l	1.0	10		125	70-130	8.3	30
Toluene	11.78	c1	ug/l	1.0	10		118	70-130	5.2	30
Tetrahydrofuran (THF)	29.49	c1	ug/l	2.5	25		118	70-130	15.5	30
Chloroform	12.01	c1	ug/l	1.0	10		120	70-130	6.9	30
Surrogate: % Dibromofluoromethane	9.986	c1	ug/l		10		100	70-130		
Surrogate: % Bromofluorobenzene	10.12	c1	ug/l		10		101	70-130		
Surrogate: % Toluene-d8	10.14	c1	ug/l		10		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	10.10	c1	ug/l		10		101	70-130		

Notes and Definitions

c1	A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J.	Estimated Below RL
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
m	This parameter is outside laboratory ms/msd specified recovery limits.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QR5	RPD out of acceptance range.
r	This parameter is outside laboratory rpd specified recovery limits.
R01	The Reporting Limit has been raised to account for matrix interference.
S	S - Laboratory solvent, contamination is possible.
SAC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
SBN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Special Handling:

☒ Standard TAT - 7 to 10 business days☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: NELSON ABRAMS

Invoice To: SAMC

Project No: 60558775

Site Name: South Brooklyn Manhattan (SBMT)

Location: Brooklyn, NY

Sampler(s): John Casper

State: NY

Telephone #: 347-803-8722

Project Mgr: Nelson Abrams

P.O. No.: 60558775 Quote #: 44902

F=Field Filtered I=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= X2= X3=

G=Grab

C=Composite

Lab ID:

Sample ID:

Date:

Time:

Type Matrix

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Containers

Analysis

List Preservative Code below:

Check if chlorinated

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
Standard ☐ No QC
DQA* ☐ No
ASP A* ☐ ASP B* ☐ No
NJ Reduced* ☐ NJ Full* ☐ No
Filter II* ☐ Filter IV* ☐ No
Other: _____
State-specific reporting standards: _____

15083021	B-1 (0-2)	10/3/18	11:20	G	SO	3	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To:

Nelson Abrams

Invoice To:

Sami

Project No:

60558795

Site Name:

South Brooklyn Marine Terminal (SBMT)

Location:

Brooklyn, NY

State: NY

Telephone #:

347-803-8722

Project Mgr:

Nelson Abrams

P.O. No.: 60558795

Quote #: 44902

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= 12=

DW=Drinking Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

O=Oil

SO=Soil

SL=Sludge

A=Indoor/Ambient Air

SG=Soil Gas

X1=

X2=

X3=

G=Grab

C=Composite

Lab ID:

Sample ID:

Date:

Time:

Type

Matrix

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

VOC

X

X

X

X

X

X

X

X

X

X

Check if chlorinated

MA DEP MCP CAM Report?

CT DPH RCP Report?

Standard

DQA*

RSP A*

RSP B*

NI Reduced*

NI Full*

Tier II*

Tier IV*

Other

State-specific reporting standards:

List Preservative Code below:

QA/QC Reporting Notes:

* additional changes may apply

Relinquished by:

Received by:

Date:

Time:

Temp °C

EDD format:

E-mail to:

Condition upon receipt:

Custody Seals:

Present

Intact

Broken

Ambient

Refrigerated

DI VOA Frozen

Soil Jar Frozen

SVCS: PRIORITY OVERN.

ORIGIN ID: EHTA (000) 000-0000
ATTN: JOHN CRESPO
RECOM ENVIRONMENT
4 DASKAMS LANE, UNIT 304

NORWALK, CT 06851
UNITED STATES US

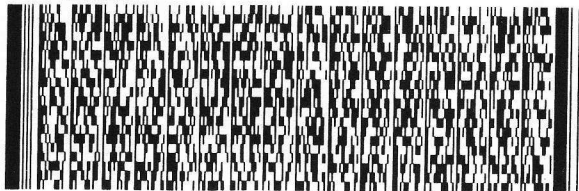
SHIP DATE: 25SEP18
ACTWGT: 40.00 LB MAN
CAD: 0654830/CAFE3210

TO **ROBERT BRISTOL**
EUROFINS SPECTRUM ANALYTICAL, INC.
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018
REF: # 45558

RMA: |||||



FedEx
Express



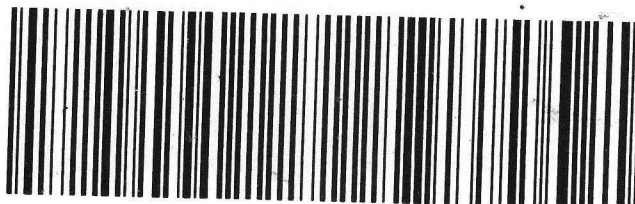
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J1811181

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TRK#
0221 4457 6111 5893

THU - 04 OCT 10:30A
PRIORITY OVERNIGHT

EB EHTA

01001
MA-US BD



Batch Summary

'Inonel'

Subcontracted Analyses

SC50830-01 (B-1 (0-2'))
SC50830-02 (B-1 (2-4'))
SC50830-03 (B-2 (0-2'))
SC50830-04 (B-2 (5-7'))
SC50830-07 (B-11 (0-2'))
SC50830-08 (B-11 (5-7'))
SC50830-09 (DUP20181003SO)

1813326

General Chemistry Parameters

SC50830-01 (B-1 (0-2'))
SC50830-02 (B-1 (2-4'))
SC50830-03 (B-2 (0-2'))
SC50830-04 (B-2 (5-7'))
SC50830-07 (B-11 (0-2'))
SC50830-08 (B-11 (5-7'))
SC50830-09 (DUP20181003SO)

1813400

Semivolatile Organic Compounds by GCMS

1813400-BLK1
1813400-BS1
1813400-BSD1
SC50830-05 (GW-1)
SC50830-06 (DUP20181003GW)
SC50830-10 (GW-5)

1813548

Semivolatile Organic Compounds by GCMS

1813548-BLK1
1813548-BS1
1813548-BSD1
SC50830-01 (B-1 (0-2'))
SC50830-02 (B-1 (2-4'))
SC50830-03 (B-2 (0-2'))
SC50830-04 (B-2 (5-7'))
SC50830-07 (B-11 (0-2'))
SC50830-08 (B-11 (5-7'))
SC50830-09 (DUP20181003SO)

450841A

Subcontracted Analyses

CB66876-BLK
CB66876-LCS
CB66876-LCSD
CB66876-MS
CB66876-MSD
SC50830-01 (B-1 (0-2'))
SC50830-07 (B-11 (0-2'))
SC50830-09 (DUP20181003SO)

SC50830-12 (TB)

450998A

Subcontracted Analyses

CB66877-BLK
CB66877-LCS
CB66877-LCSD
CB66877-MS
CB66877-MSD
SC50830-02 (B-1 (2-4'))
SC50830-03 (B-2 (0-2'))
SC50830-04 (B-2 (5-7'))
SC50830-08 (B-11 (5-7'))

451011A

Subcontracted Analyses

CB66880-BLK
CB66880-LCS
CB66880-LCSD
SC50830-05 (GW-1)
SC50830-06 (DUP20181003GW)
SC50830-10 (GW-5)
SC50830-11 (TB)

S820940

Semivolatile Organic Compounds by GCMS

S820940-CAL1
S820940-CAL2
S820940-CAL3
S820940-CAL4
S820940-CAL5
S820940-CAL6
S820940-CAL7
S820940-CAL8
S820940-CAL9
S820940-CALA
S820940-ICV1
S820940-LCV1
S820940-LCV2
S820940-TUN1

S821565**Semivolatile Organic Compounds by GCMS**

S821565-CAL1
S821565-CAL2
S821565-CAL3
S821565-CAL4
S821565-CAL5
S821565-CAL6
S821565-CAL7
S821565-CAL8
S821565-CAL9
S821565-CALA
S821565-ICV1
S821565-LCV1
S821565-LCV2
S821565-TUN1

S822584**Semivolatile Organic Compounds by GCMS**

S822584-CCV1
S822584-TUN1

S822615**Semivolatile Organic Compounds by GCMS**

S822615-CCV1
S822615-TUN1

S822638**Semivolatile Organic Compounds by GCMS**

S822638-CCV1
S822638-TUN1

S822649**Semivolatile Organic Compounds by GCMS**

S822649-CCV1
S822649-TUN1

S822677**Semivolatile Organic Compounds by GCMS**

S822677-CCV1
S822677-TUN1

S822683**Semivolatile Organic Compounds by GCMS**

S822683-CCV1
S822683-TUN1

S822731**Semivolatile Organic Compounds by GCMS**

S822731-CCV1
S822731-TUN1

Report Date:
22-Oct-18 15:29

Laboratory Report SC50873

AECOM Environment
125 Broad St
, 15th Floor
New York, NY 10005

Project: South Brooklyn Terminal - Brooklyn, NY
Project #: 60558775

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Christina White
Technical Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 114 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC50873
Project: South Brooklyn Terminal - Brooklyn, NY
Project Number: 60558775

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC50873-01	B-12 (0-2)	Soil	04-Oct-18 08:45	05-Oct-18 10:49
SC50873-02	B-12 (7-9)	Soil	04-Oct-18 09:05	05-Oct-18 10:49
SC50873-03	GW-6	Ground Water	04-Oct-18 09:50	05-Oct-18 10:49
SC50873-04	B-6 (0-2)	Soil	04-Oct-18 11:06	05-Oct-18 10:49
SC50873-05	B-6 (5-7)	Soil	04-Oct-18 11:45	05-Oct-18 10:49
SC50873-06	GW-3	Ground Water	04-Oct-18 12:30	05-Oct-18 10:49
SC50873-07	B-7 (0-2)	Soil	04-Oct-18 13:40	05-Oct-18 10:49
SC50873-08	B-7 (5-7)	Soil	04-Oct-18 14:12	05-Oct-18 10:49
SC50873-09	B-9 (0-2)	Soil	04-Oct-18 14:37	05-Oct-18 10:49
SC50873-10	B-9 (5-7)	Soil	04-Oct-18 14:50	05-Oct-18 10:49
SC50873-11	Trip Blank-S	Trip Blank	04-Oct-18 00:00	05-Oct-18 10:49
SC50873-12	Trip Blank-W	Trip Blank	04-Oct-18 00:00	05-Oct-18 10:49

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 2.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8260C

Samples:

SC50873-03	GW-6

Estimated Below RL

Acetone
Toluene

Laboratory solvent, contamination is possible.

Acetone

SC50873-04	B-6 (0-2)

Estimated Below RL

1,1,1-Trichloroethane

SC50873-05	B-6 (5-7)

Estimated Below RL

1,1,1-Trichloroethane

SC50873-06	GW-3

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50873-07	B-7 (0-2)

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50873-08	B-7 (5-7)

SW8260C

Samples:

SC50873-08 *B-7 (5-7)*

Estimated Below RL

Methyl Ethyl Ketone

Laboratory solvent, contamination is possible.

Acetone

SC50873-09 *B-9 (0-2)*

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50873-10 *B-9 (5-7)*

Estimated Below RL

1,1,1-Trichloroethane

CB66880-LCSD

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Bromomethane

CB66976-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Trichloroethene

CB66976-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

trans-1,3-Dichloropropene

Trichloroethene

CB66981-MS

This parameter is outside laboratory ms/msd specified recovery limits.

1,1,2,2-Tetrachloroethane

2-Hexanone

Carbon Disulfide

Methyl Ethyl Ketone

Trichlorofluoromethane

This parameter is outside laboratory rpd specified recovery limits.

Acetone

Bromomethane

Chloroethane

Trichlorofluoromethane

CB66981-MSD

SW8260C

CB66981-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

1,1,2,2-Tetrachloroethane
Acetone
Bromomethane
Chloroethane

This parameter is outside laboratory rpd specified recovery limits.

Acetone
Bromomethane
Chloroethane
Trichlorofluoromethane

SW846 8270D

Calibration:

1807052

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Benzidine
Benzoic acid
Carbazole
Pentachlorophenol

This affected the following samples:

S820940-ICV1

1808015

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Aniline
Benzidine
Benzoic acid
Carbazole
Hexachlorocyclopentadiene

This affected the following samples:

1813400-BLK1
1813400-BS1
1813400-BSD1
GW-3
GW-6
S821565-ICV1
S822584-CCV1
S822677-CCV1
S822683-CCV1

Blanks:

1813400-BLK1

SW846 8270D

Blanks:

1813400-BLK1

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

Phenol-d5

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

2-Fluorobiphenyl

Laboratory Control Samples:

1813400 BS/BSD

4-Nitrophenol percent recoveries (21/21) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3

GW-6

Aniline percent recoveries (34/38) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3

GW-6

Benzidine percent recoveries (151/164) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

GW-3

GW-6

Benzoic acid percent recoveries (21/22) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3

GW-6

Bis(2-chloroethoxy)methane percent recoveries (38/38) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3

GW-6

N-Nitrosodimethylamine percent recoveries (35/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3

GW-6

Pentachlorophenol percent recoveries (20/20) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3

GW-6

Phenol percent recoveries (24/26) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3

GW-6

SW846 8270D

Laboratory Control Samples:

1813400 BS/BSD

Pyridine percent recoveries (32/34) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GW-3
GW-6

1813400-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Nitrophenol
Aniline
Benzoic acid
Bis(2-chloroethoxy)methane
N-Nitrosodimethylamine
Pentachlorophenol
Phenol
Pyridine

1813400-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Nitrophenol
Aniline
Benzoic acid
Bis(2-chloroethoxy)methane
N-Nitrosodimethylamine
Pentachlorophenol
Phenol
Pyridine

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Benzidine

1813548 BS/BSD

2,4-Dinitrophenol percent recoveries (22/28) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-12 (0-2)
B-12 (7-9)
B-6 (0-2)
B-6 (5-7)
B-7 (0-2)
B-7 (5-7)
B-9 (0-2)
B-9 (5-7)

3,3'-Dichlorobenzidine percent recoveries (152/155) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-12 (0-2)
B-12 (7-9)
B-6 (0-2)
B-6 (5-7)
B-7 (0-2)
B-7 (5-7)
B-9 (0-2)
B-9 (5-7)

SW846 8270D

Laboratory Control Samples:

1813548 BS/BSD

Benzidine percent recoveries (143/165) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-12 (0-2)
B-12 (7-9)
B-6 (0-2)
B-6 (5-7)
B-7 (0-2)
B-7 (5-7)
B-9 (0-2)
B-9 (5-7)

Benzoic acid percent recoveries (16/17) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-12 (0-2)
B-12 (7-9)
B-6 (0-2)
B-6 (5-7)
B-7 (0-2)
B-7 (5-7)
B-9 (0-2)
B-9 (5-7)

Benzyl alcohol percent recoveries (18/13) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-12 (0-2)
B-12 (7-9)
B-6 (0-2)
B-6 (5-7)
B-7 (0-2)
B-7 (5-7)
B-9 (0-2)
B-9 (5-7)

Pentachlorophenol percent recoveries (11/13) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-12 (0-2)
B-12 (7-9)
B-6 (0-2)
B-6 (5-7)
B-7 (0-2)
B-7 (5-7)
B-9 (0-2)
B-9 (5-7)

1813548 BSD

Benzyl alcohol RPD 32% (30%) is outside individual acceptance criteria.

1813548-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
Benzoic acid
Benzyl alcohol
Pentachlorophenol

SW846 8270D

Laboratory Control Samples:

1813548-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
Benzoic acid
Benzyl alcohol

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Benzidine

1813793 BS/BSD

Benzidine percent recoveries (185/113) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-7 (5-7)
B-9 (0-2)

Benzoic acid percent recoveries (20/20) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-7 (5-7)
B-9 (0-2)

Carbazole percent recoveries (151/189) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-7 (5-7)
B-9 (0-2)

1813793 BSD

Benzidine RPD 49% (30%) is outside individual acceptance criteria.

1813793-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Benzidine

1813793-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzidine

Spikes:

1813548-MS1

Source: SC50873-04

SW846 8270D

Spikes:

1813548-MS1

Source: SC50873-04

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
3,3'-Dichlorobenzidine
Benzidine
Benzoic acid

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,4-Dinitrotoluene
2-Nitrophenol
3-Nitroaniline
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Nitroaniline
4-Nitrophenol
Aniline
Bis(2-chloroethoxy)methane
Bis(2-chloroisopropyl)ether
Carbazole
Diethyl phthalate
Fluoranthene
Hexachlorocyclopentadiene
Hexachloroethane
Isophorone
Pentachloronitrobenzene
Phenanthrene
Pyrene
Pyridine

1813548-MSD1

Source: SC50873-04

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol
3,3'-Dichlorobenzidine
Benzidine
Benzoic acid
Benzyl alcohol

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

1-Methylnaphthalene
4-Chloro-3-methylphenol
Benzo (b) fluoranthene
Benzo (k) fluoranthene
Nitrobenzene

SW846 8270D

Spikes:

1813548-MSD1

Source: SC50873-04

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Chlorophenol
2-Methylnaphthalene
2-Nitroaniline
2-Nitrophenol
3 & 4-Methylphenol
3-Nitroaniline
4-Bromophenyl phenyl ether
4-Chloroaniline
4-Chlorophenyl phenyl ether
4-Nitroaniline
4-Nitrophenol
Acenaphthylene
Aniline
Azobenzene/Diphenyldiazene
Benzo (b) fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Carbazole
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Fluoranthene
Hexachlorocyclopentadiene
Hexachloroethane
Isophorone
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
Pentachloronitrobenzene
Phenanthrene
Pyrene
Pyridine

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

2,4,6-Tribromophenol
2-Fluorophenol

Duplicates:

1813548-DUP1

Source: SC50873-07

SW846 8270D

Duplicates:

1813548-DUP1 *Source: SC50873-07*

RPD out of acceptance range.

Anthracene
Benzo (g,h,i) perylene
Dibenzo (a,h) anthracene
Fluoranthene
Indeno (1,2,3-cd) pyrene
Phenanthrene

Samples:

S822584-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3,3'-Dichlorobenzidine (49.5%)
4-Chlorophenyl phenyl ether (24.3%)
Azobenzene/Diphenyldiazene (30.2%)
Diethyl phthalate (27.3%)
Di-n-octyl phthalate (27.3%)
N-Nitrosodiphenylamine (24.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (49.7%)
Aniline (40.8%)
Benzidine (42.0%)
Carbazole (55.1%)

This affected the following samples:

1813400-BLK1
1813400-BS1
1813400-BSD1

S822615-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (24.0%)
Acenaphthylene (25.4%)
Azobenzene/Diphenyldiazene (22.5%)
Benzo (b) fluoranthene (34.6%)
Diethyl phthalate (21.6%)
N-Nitrosodimethylamine (21.8%)
Pyridine (23.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (21.5%)
Aniline (29.0%)
Benzidine (24.3%)

This affected the following samples:

1813548-BLK1
1813548-BS1
1813548-BSD1

S822638-CCV1

SW846 8270D

Samples:

S822638-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Bromophenyl phenyl ether (23.6%)
4-Chloroaniline (-28.7%)
4-Chlorophenyl phenyl ether (23.9%)
4-Nitroaniline (-30.9%)
Aniline (-36.7%)
Benzo (b) fluoranthene (31.6%)
Hexachlorobutadiene (24.5%)
Pyrene (-24.6%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-57.6%)
Benzidine (-56.1%)
Benzoic acid (-35.8%)
Carbazole (-59.4%)

This affected the following samples:

1813548-MS1
1813548-MSD1
B-12 (0-2)
B-12 (7-9)
B-6 (0-2)
B-6 (5-7)
B-7 (0-2)

S822649-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Chloroaniline (-64.2%)
4-Chlorophenyl phenyl ether (28.5%)
4-Nitroaniline (-31.3%)
Aniline (-88.9%)
Benzo (g,h,i) perylene (27.3%)
Hexachlorobutadiene (30.9%)
Nitrobenzene (39.5%)
N-Nitrosodimethylamine (-24.4%)
N-Nitrosodiphenylamine (-29.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-81.1%)
Benzidine (-51.3%)
Benzoic acid (-49.3%)
Carbazole (-66.3%)
Pentachlorophenol (-38.3%)

This affected the following samples:

1813548-DUP1
B-7 (5-7)
B-9 (0-2)
B-9 (5-7)

S822677-CCV1

SW846 8270D

Samples:

S822677-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (26.3%)
4-Chlorophenyl phenyl ether (21.5%)
Azobenzene/Diphenyldiazene (20.3%)
Benzo (b) fluoranthene (31.5%)
Benzyl alcohol (-32.5%)
N-Nitrosodimethylamine (31.5%)
Pyridine (25.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (27.1%)
Benzidine (37.5%)
Hexachlorocyclopentadiene (28.7%)

This affected the following samples:

GW-3
GW-6

S822724-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (23.2%)
2-Chloronaphthalene (24.9%)
3,3'-Dichlorobenzidine (43.2%)
4-Chlorophenyl phenyl ether (29.2%)
Azobenzene/Diphenyldiazene (20.1%)
Benzo (b) fluoranthene (28.1%)
Benzyl alcohol (-28.5%)
Diethyl phthalate (32.9%)
Di-n-octyl phthalate (26.8%)
Fluorene (22.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (33.7%)
Benzoic acid (-23.3%)
Carbazole (39.5%)

This affected the following samples:

1813793-BLK1
1813793-BS1
1813793-BSD1

S822753-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3,3'-Dichlorobenzidine (54.1%)
Acenaphthylene (20.7%)
Pyridine (20.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (39.9%)
Benzidine (72.6%)
Benzoic acid (-25.0%)
Carbazole (49.7%)

SW846 8270D

Samples:

S822753-CCV1

This affected the following samples:

B-7 (5-7)

B-9 (0-2)

SC50873-01 *B-12 (0-2)*

The Reporting Limit has been raised to account for matrix interference.

SC50873-02 *B-12 (7-9)*

The Reporting Limit has been raised to account for matrix interference.

SC50873-04 *B-6 (0-2)*

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

SC50873-07 *B-7 (0-2)*

The Reporting Limit has been raised to account for matrix interference.

SC50873-08 *B-7 (5-7)*

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

SC50873-08RE1 *B-7 (5-7)*

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

SC50873-09 *B-9 (0-2)*

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

2-Fluorophenol

The Reporting Limit has been raised to account for matrix interference.

SC50873-09RE1 *B-9 (0-2)*

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

2-Fluorophenol

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client: AECOM Environment - NY, NY
Project: South Brooklyn Terminal - Brooklyn, NY / 60558775
Work Order: SC50873
Sample(s) received on: 10/5/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC50873-01

Client ID: B-12 (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Anthracene	1190	D	716	µg/kg	SW846 8270D
Benzo (a) anthracene	5560	D	716	µg/kg	SW846 8270D
Benzo (a) pyrene	5420	D	716	µg/kg	SW846 8270D
Benzo (b) fluoranthene	4970	D	716	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	3440	D	716	µg/kg	SW846 8270D
Benzo (k) fluoranthene	4540	D	716	µg/kg	SW846 8270D
Chrysene	5270	D	716	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	1020	D	716	µg/kg	SW846 8270D
Fluoranthene	11300	D	716	µg/kg	SW846 8270D
Fluorene	405	J, D	716	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	3520	D	716	µg/kg	SW846 8270D
Phenanthrene	4880	D	716	µg/kg	SW846 8270D
Pyrene	9870	D	716	µg/kg	SW846 8270D

Lab ID: SC50873-02

Client ID: B-12 (7-9)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthene	113	J, D	156	µg/kg	SW846 8270D
Acenaphthylene	215	D	156	µg/kg	SW846 8270D
Anthracene	627	D	156	µg/kg	SW846 8270D
Benzo (a) anthracene	3740	D	156	µg/kg	SW846 8270D
Benzo (a) pyrene	3790	D	156	µg/kg	SW846 8270D
Benzo (b) fluoranthene	4510	D	156	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	2320	D	156	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1780	D	156	µg/kg	SW846 8270D
Chrysene	3370	D	156	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	765	D	156	µg/kg	SW846 8270D
Dibenzofuran	112	J, D	391	µg/kg	SW846 8270D
Fluoranthene	6280	D	156	µg/kg	SW846 8270D
Fluorene	213	D	156	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	2500	D	156	µg/kg	SW846 8270D
Phenanthrene	2880	D	156	µg/kg	SW846 8270D
Pyrene	3970	D	156	µg/kg	SW846 8270D

Lab ID: SC50873-03

Client ID: GW-6

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	2.9	S, J.	25	ug/l	SW8260C
Toluene	0.34	J.	1.0	ug/l	SW8260C
Acenaphthene	1.82	J	4.76	µg/l	SW846 8270D
Benzo (a) anthracene	1.20	J	4.76	µg/l	SW846 8270D
Benzo (a) pyrene	0.990	J	4.76	µg/l	SW846 8270D
Benzo (b) fluoranthene	0.752	J	4.76	µg/l	SW846 8270D
Chrysene	1.36	J	4.76	µg/l	SW846 8270D
Fluoranthene	2.72	J	4.76	µg/l	SW846 8270D
Fluorene	1.31	J	4.76	µg/l	SW846 8270D
Phenanthrene	6.76		4.76	µg/l	SW846 8270D
Pyrene	3.25	J	4.76	µg/l	SW846 8270D

Lab ID: SC50873-04

Client ID: B-6 (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	1.7	J.	4.9	ug/kg	SW8260C
Benzo (a) anthracene	843	J, D	1480	µg/kg	SW846 8270D
Benzo (a) pyrene	1060	J, D	1480	µg/kg	SW846 8270D
Benzo (b) fluoranthene	858	J, D	1480	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	998	J, D	1480	µg/kg	SW846 8270D
Chrysene	939	J, D	1480	µg/kg	SW846 8270D
Fluoranthene	1560	D	1480	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	636	J, D	1480	µg/kg	SW846 8270D
Phenanthrene	858	J, D	1480	µg/kg	SW846 8270D
Pyrene	1780	D	1480	µg/kg	SW846 8270D

Lab ID: SC50873-05

Client ID: B-6 (5-7)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	0.71	J.	4.4	ug/kg	SW8260C
Benzo (a) anthracene	51.4	J	74.0	µg/kg	SW846 8270D
Benzo (a) pyrene	60.6	J	74.0	µg/kg	SW846 8270D
Benzo (b) fluoranthene	55.5	J	74.0	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	38.1	J	74.0	µg/kg	SW846 8270D
Benzo (k) fluoranthene	41.4	J	74.0	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	213		185	µg/kg	SW846 8270D
Chrysene	52.5	J	74.0	µg/kg	SW846 8270D
Fluoranthene	79.5		74.0	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	38.1	J	74.0	µg/kg	SW846 8270D
Pyrene	90.2		74.0	µg/kg	SW846 8270D

Lab ID: SC50873-06

Client ID: GW-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	3.7	S, J.	25	ug/l	SW8260C
Chloroethane	2.0		1.0	ug/l	SW8260C

Lab ID: SC50873-07

Client ID: B-7 (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	17	S, J.	25	ug/kg	SW8260C
Anthracene	717	J, D	724	µg/kg	SW846 8270D
Benzo (a) anthracene	4640	D	724	µg/kg	SW846 8270D
Benzo (a) pyrene	4440	D	724	µg/kg	SW846 8270D
Benzo (b) fluoranthene	4510	D	724	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	3150	D	724	µg/kg	SW846 8270D
Benzo (k) fluoranthene	3180	D	724	µg/kg	SW846 8270D
Chrysene	4560	D	724	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	1100	D	724	µg/kg	SW846 8270D
Fluoranthene	6190	D	724	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	3310	D	724	µg/kg	SW846 8270D
Phenanthrene	3110	D	724	µg/kg	SW846 8270D
Pyrene	6370	D	724	µg/kg	SW846 8270D

Lab ID: SC50873-08

Client ID: B-7 (5-7)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	44	S	28	ug/kg	SW8260C
Methyl Ethyl Ketone	8.1	J.	28	ug/kg	SW8260C
Acenaphthylene	288	D	152	µg/kg	SW846 8270D
Anthracene	192	D	152	µg/kg	SW846 8270D
Benzo (a) anthracene	2200	D	152	µg/kg	SW846 8270D
Benzo (a) pyrene	1890	D	152	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1980	D	152	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	1070	D	152	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1170	D	152	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	414	D	380	µg/kg	SW846 8270D
Chrysene	2100	D	152	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	353	D	152	µg/kg	SW846 8270D
Fluoranthene	3720	D	152	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	1250	D	152	µg/kg	SW846 8270D
Phenanthrene	576	D	152	µg/kg	SW846 8270D
Pyrene	2370	D	152	µg/kg	SW846 8270D

Lab ID: SC50873-08RE1**Client ID:** B-7 (5-7)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthylene	253	J, D	380	µg/kg	SW846 8270D
Benzo (a) anthracene	1450	D	380	µg/kg	SW846 8270D
Benzo (a) pyrene	1260	D	380	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1180	D	380	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	665	D	380	µg/kg	SW846 8270D
Benzo (k) fluoranthene	911	D	380	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	285	J, D	952	µg/kg	SW846 8270D
Chrysene	1220	D	380	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	224	J, D	380	µg/kg	SW846 8270D
Fluoranthene	2130	D	380	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	755	D	380	µg/kg	SW846 8270D
Phenanthrene	312	J, D	380	µg/kg	SW846 8270D
Pyrene	1740	D	380	µg/kg	SW846 8270D

Lab ID: SC50873-09**Client ID:** B-9 (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	10	S, J.	38	ug/kg	SW8260C

Lab ID: SC50873-10**Client ID:** B-9 (5-7)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	0.52	J.	4.4	ug/kg	SW8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification**B-12 (0-2)**

SC50873-01

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 08:45

Received

05-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 716	U, D	µg/kg dry	716	357	10	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 716	U, D	µg/kg dry	716	353	10	"	"	"	"	"	X
62-53-3	Aniline	< 3540	U, D	µg/kg dry	3540	255	10	"	"	"	"	"	X
120-12-7	Anthracene	1,190	D	µg/kg dry	716	343	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3540	U, D	µg/kg dry	3540	349	10	"	"	"	"	"	
92-87-5	Benzidine	< 7090	U, D	µg/kg dry	7090	713	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	5,560	D	µg/kg dry	716	378	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	5,420	D	µg/kg dry	716	267	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	4,970	D	µg/kg dry	716	347	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	3,440	D	µg/kg dry	716	288	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	4,540	D	µg/kg dry	716	280	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3540	U, D	µg/kg dry	3540	744	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3540	U, D	µg/kg dry	3540	290	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3540	U, D	µg/kg dry	3540	315	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1790	U, D	µg/kg dry	1790	257	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1790	U, D	µg/kg dry	1790	276	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1790	U, D	µg/kg dry	1790	443	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3540	U, D	µg/kg dry	3540	332	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3540	U, D	µg/kg dry	3540	414	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1790	U, D	µg/kg dry	1790	1000	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3540	U, D	µg/kg dry	3540	338	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1790	U, D	µg/kg dry	1790	388	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3540	U, D	µg/kg dry	3540	328	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1790	U, D	µg/kg dry	1790	319	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3540	U, D	µg/kg dry	3540	421	10	"	"	"	"	"	X
218-01-9	Chrysene	5,270	D	µg/kg dry	716	358	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	1,020	D	µg/kg dry	716	275	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1790	U, D	µg/kg dry	1790	273	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3540	U, D	µg/kg dry	3540	309	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3540	U, D	µg/kg dry	3540	309	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3540	U, D	µg/kg dry	3540	329	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3540	U, D	µg/kg dry	3540	539	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1790	U, D	µg/kg dry	1790	335	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3540	U, D	µg/kg dry	3540	438	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3540	U, D	µg/kg dry	3540	388	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3540	U, D	µg/kg dry	3540	253	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3540	U, D	µg/kg dry	3540	376	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3540	U, D	µg/kg dry	3540	455	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3540	U, D	µg/kg dry	3540	361	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1790	U, D	µg/kg dry	1790	694	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1790	U, D	µg/kg dry	1790	404	10	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

B-12 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50873-01	60558775	Soil	04-Oct-18 08:45	05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 3540	U, D	µg/kg dry	3540	401	10	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	11,300	D	µg/kg dry	716	378	10	"	"	"	"	"	X
86-73-7	Fluorene	405	J, D	µg/kg dry	716	364	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1790	U, D	µg/kg dry	1790	353	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1790	U, D	µg/kg dry	1790	429	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1790	U, D	µg/kg dry	1790	244	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1790	U, D	µg/kg dry	1790	387	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	3,520	D	µg/kg dry	716	258	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1790	U, D	µg/kg dry	1790	336	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 716	U, D	µg/kg dry	716	433	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3540	U, D	µg/kg dry	3540	301	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3540	U, D	µg/kg dry	3540	343	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 716	U, D	µg/kg dry	716	334	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3540	U, D	µg/kg dry	3540	301	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3540	U, D	µg/kg dry	3540	484	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1790	U, D	µg/kg dry	1790	552	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1790	U, D	µg/kg dry	1790	327	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1790	U, D	µg/kg dry	1790	298	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 14200	U, D	µg/kg dry	14200	573	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1790	U, D	µg/kg dry	1790	333	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1790	U, D	µg/kg dry	1790	349	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3540	U, D	µg/kg dry	3540	384	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3540	U, D	µg/kg dry	3540	379	10	"	"	"	"	"	X
85-01-8	Phenanthrene	4,880	D	µg/kg dry	716	333	10	"	"	"	"	"	X
108-95-2	Phenol	< 3540	U, D	µg/kg dry	3540	233	10	"	"	"	"	"	X
129-00-0	Pyrene	9,870	D	µg/kg dry	716	400	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3540	U, D	µg/kg dry	3540	528	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3540	U, D	µg/kg dry	3540	351	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 716	U, D	µg/kg dry	716	352	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 3540	U, D	µg/kg dry	3540	319	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1790	U, D	µg/kg dry	1790	320	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3540	U, D	µg/kg dry	3540	560	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3540	U, D	µg/kg dry	3540	344	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	54		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	37		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	31		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	39		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	74		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	37		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	92.6	%	1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813382

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-12 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50873-01	60558775	Soil	04-Oct-18 08:45	05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.8		ug/kg	4.8	0.96	1	SW8260C	04-Oct-18 08:45	07-Oct-18 15:59	11301	450906A	
71-55-6	1,1,1-Trichloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
67-64-1	Acetone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.6		ug/kg	9.6	0.48	1	"	"	"	"	"	
71-43-2	Benzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.8		ug/kg	4.8	1.9	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	

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Sample Identification**B-12 (0-2)**

SC50873-01

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 08:45

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 4.8		ug/kg	4.8	0.96	1	SW8260C	04-Oct-18 08:45	07-Oct-18 15:59	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.6		ug/kg	9.6	0.96	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.6		ug/kg	9.6	4.8	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
100-42-5	Styrene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.6		ug/kg	9.6	2.4	1	"	"	"	"	"	
108-88-3	Toluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.8		ug/kg	4.8	4.8	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.6		ug/kg	9.6	2.4	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.8		ug/kg	4.8	0.96	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	92			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	93			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	92	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'	

Sample Identification

B-12 (7-9) Client Project #
60558775 Matrix
Soil Collection Date/Time
04-Oct-18 09:05 Received
05-Oct-18

SC50873-02

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	113	J, D	µg/kg dry	156	77.7	2	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	215	D	µg/kg dry	156	77.0	2	"	"	"	"	"	X
62-53-3	Aniline	< 772	U, D	µg/kg dry	772	55.5	2	"	"	"	"	"	X
120-12-7	Anthracene	627	D	µg/kg dry	156	74.6	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 772	U, D	µg/kg dry	772	75.9	2	"	"	"	"	"	
92-87-5	Benzidine	< 1540	U, D	µg/kg dry	1540	155	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	3,740	D	µg/kg dry	156	82.4	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	3,790	D	µg/kg dry	156	58.1	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	4,510	D	µg/kg dry	156	75.6	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	2,320	D	µg/kg dry	156	62.7	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	1,780	D	µg/kg dry	156	61.1	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 772	U, D	µg/kg dry	772	162	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 772	U, D	µg/kg dry	772	63.2	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 772	U, D	µg/kg dry	772	68.6	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 391	U, D	µg/kg dry	391	56.0	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 391	U, D	µg/kg dry	391	60.1	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 391	U, D	µg/kg dry	391	96.4	2	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 772	U, D	µg/kg dry	772	72.3	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 772	U, D	µg/kg dry	772	90.1	2	"	"	"	"	"	X
86-74-8	Carbazole	< 391	U, D	µg/kg dry	391	218	2	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 772	U, D	µg/kg dry	772	73.7	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 391	U, D	µg/kg dry	391	84.5	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 772	U, D	µg/kg dry	772	71.4	2	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 391	U, D	µg/kg dry	391	69.5	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 772	U, D	µg/kg dry	772	91.7	2	"	"	"	"	"	X
218-01-9	Chrysene	3,370	D	µg/kg dry	156	77.9	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	765	D	µg/kg dry	156	59.9	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	112	J, D	µg/kg dry	391	59.4	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 772	U, D	µg/kg dry	772	67.4	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 772	U, D	µg/kg dry	772	67.4	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 772	U, D	µg/kg dry	772	71.6	2	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 772	U, D	µg/kg dry	772	117	2	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 391	U, D	µg/kg dry	391	73.1	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 772	U, D	µg/kg dry	772	95.5	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 772	U, D	µg/kg dry	772	84.5	2	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 772	U, D	µg/kg dry	772	55.2	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 772	U, D	µg/kg dry	772	81.9	2	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 772	U, D	µg/kg dry	772	99.1	2	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 772	U, D	µg/kg dry	772	78.6	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 391	U, D	µg/kg dry	391	151	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 391	U, D	µg/kg dry	391	88.0	2	"	"	"	"	"	X

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Sample Identification**B-12 (7-9)**

SC50873-02

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 09:05

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 772	U, D	µg/kg dry	772	87.3	2	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	6,280	D	µg/kg dry	156	82.5	2	"	"	"	"	"	X
86-73-7	Fluorene	213	D	µg/kg dry	156	79.3	2	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 391	U, D	µg/kg dry	391	76.9	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 391	U, D	µg/kg dry	391	93.4	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 391	U, D	µg/kg dry	391	53.1	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 391	U, D	µg/kg dry	391	84.2	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	2,500	D	µg/kg dry	156	56.2	2	"	"	"	"	"	X
78-59-1	Isophorone	< 391	U, D	µg/kg dry	391	73.2	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 156	U, D	µg/kg dry	156	94.3	2	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 772	U, D	µg/kg dry	772	65.6	2	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 772	U, D	µg/kg dry	772	74.6	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 156	U, D	µg/kg dry	156	72.8	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 772	U, D	µg/kg dry	772	65.5	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 772	U, D	µg/kg dry	772	106	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 391	U, D	µg/kg dry	391	120	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 391	U, D	µg/kg dry	391	71.1	2	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 391	U, D	µg/kg dry	391	64.8	2	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 3090	U, D	µg/kg dry	3090	125	2	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 391	U, D	µg/kg dry	391	72.5	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 391	U, D	µg/kg dry	391	76.1	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 772	U, D	µg/kg dry	772	83.7	2	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 772	U, D	µg/kg dry	772	82.5	2	"	"	"	"	"	X
85-01-8	Phenanthrene	2,880	D	µg/kg dry	156	72.6	2	"	"	"	"	"	X
108-95-2	Phenol	< 772	U, D	µg/kg dry	772	50.8	2	"	"	"	"	"	X
129-00-0	Pyrene	3,970	D	µg/kg dry	156	87.0	2	"	"	"	"	"	X
110-86-1	Pyridine	< 772	U, D	µg/kg dry	772	115	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 772	U, D	µg/kg dry	772	76.5	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 156	U, D	µg/kg dry	156	76.8	2	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 772	U, D	µg/kg dry	772	69.5	2	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 391	U, D	µg/kg dry	391	69.7	2	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 772	U, D	µg/kg dry	772	122	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 772	U, D	µg/kg dry	772	74.9	2	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	45		30-130 %		"	"	"	"	"	"	"	
367-12-4	2-Fluorophenol	38		30-130 %		"	"	"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	43		30-130 %		"	"	"	"	"	"	"	
4165-62-2	Phenol-d5	40		30-130 %		"	"	"	"	"	"	"	
1718-51-0	Terphenyl-dl4	63		30-130 %		"	"	"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	38		30-130 %		"	"	"	"	"	"	"	

General Chemistry Parameters

% Solids	84.6	%				1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813382		

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-12 (7-9)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50873-02	60558775	Soil	04-Oct-18 09:05	05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.3		ug/kg	5.3	1.1	1	SW8260C	04-Oct-18 08:45	07-Oct-18 16:20	11301	450906A	
71-55-6	1,1,1-Trichloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 26		ug/kg	26	5.3	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 26		ug/kg	26	5.3	1	"	"	"	"	"	
67-64-1	Acetone	< 26		ug/kg	26	5.3	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 11		ug/kg	11	0.53	1	"	"	"	"	"	
71-43-2	Benzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.3		ug/kg	5.3	2.1	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

B-12 (7-9)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50873-02	60558775	Soil	04-Oct-18 09:05	05-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

74-95-3	Dibromomethane	< 5.3		ug/kg	5.3	1.1	1	SW8260C	04-Oct-18 08:45	07-Oct-18 16:20	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 26		ug/kg	26	5.3	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 11		ug/kg	11	1.1	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 11		ug/kg	11	5.3	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
100-42-5	Styrene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 11		ug/kg	11	2.6	1	"	"	"	"	"	
108-88-3	Toluene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.3		ug/kg	5.3	5.3	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 11		ug/kg	11	2.6	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	95			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	96			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	96			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	85	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'

Sample Identification

GW-6

SC50873-03

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 09:50

Received

05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	1.82	J	µg/l	4.76	1.04	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
208-96-8	Acenaphthylene	< 4.76	U	µg/l	4.76	1.10	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.76	U	µg/l	4.76	0.470	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.76	U	µg/l	4.76	0.921	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.52	U	µg/l	9.52	4.35	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	1.20	J	µg/l	4.76	0.828	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	0.990	J	µg/l	4.76	0.684	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	0.752	J	µg/l	4.76	0.637	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.76	U	µg/l	4.76	0.667	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.76	U	µg/l	4.76	0.935	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.76	U	µg/l	4.76	1.00	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.76	U	µg/l	4.76	0.832	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.76	U	µg/l	4.76	0.690	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.892	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.76	U	µg/l	4.76	0.445	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.76	U	µg/l	4.76	1.49	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.76	U	µg/l	4.76	0.793	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.76	U	µg/l	4.76	1.29	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.474	1	"	"	"	"	"	X
218-01-9	Chrysene	1.36	J	µg/l	4.76	0.891	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.76	U	µg/l	4.76	0.646	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.76	U	µg/l	4.76	1.16	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.62	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.44	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.76	U	µg/l	4.76	0.807	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.76	U	µg/l	4.76	0.895	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.76	U	µg/l	4.76	1.72	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.76	U	µg/l	4.76	0.591	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.76	U	µg/l	4.76	1.03	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.76	U	µg/l	4.76	1.15	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.13	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

GW-6

SC50873-03

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 09:50

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.76	U	µg/l	4.76	1.20	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
206-44-0	Fluoranthene	2.72	J	µg/l	4.76	0.971	1	"	"	"	"	"	X
86-73-7	Fluorene	1.31	J	µg/l	4.76	0.927	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.76	U	µg/l	4.76	1.28	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.76	U	µg/l	4.76	1.45	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.76	U	µg/l	4.76	1.59	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.76	U	µg/l	4.76	0.553	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.76	U	µg/l	4.76	0.778	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.76	U	µg/l	4.76	1.57	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.52	U	µg/l	9.52	1.08	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.76	U	µg/l	4.76	1.30	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.76	U	µg/l	4.76	0.478	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.76	U	µg/l	4.76	0.606	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.76	U	µg/l	4.76	0.599	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.76	U	µg/l	4.76	1.23	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.76	U	µg/l	4.76	0.683	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.0	U	µg/l	19.0	0.742	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.76	U	µg/l	4.76	0.570	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.76	U	µg/l	4.76	0.981	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.0	U	µg/l	19.0	0.740	1	"	"	"	"	"	X
85-01-8	Phenanthrene	6.76		µg/l	4.76	1.11	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
129-00-0	Pyrene	3.25	J	µg/l	4.76	0.941	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.76	U	µg/l	4.76	0.388	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.76	U	µg/l	4.76	1.12	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.76	U	µg/l	4.76	0.744	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.76	U	µg/l	4.76	0.666	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.76	U	µg/l	4.76	0.765	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.76	U	µg/l	4.76	1.05	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	81			30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	47			15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	89			30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	32			15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	79			30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	86			15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

GW-6

SC50873-03

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 09:50

Received

05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
Subcontracted Analyses													
Prepared by method SW8260C													
Analysis performed by Phoenix Environmental Labs, Inc. * - CT007													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	04-Oct-18 08:45	09-Oct-18 02:41	11301	451011A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	2.9	S, J.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

GW-6

SC50873-03

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 09:50

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	04-Oct-18 08:45	09-Oct-18 02:41	11301	451011A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	0.34	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	102			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	101			70-130 %		"	"	"	"	"	

Sample Identification**B-6 (0-2)**

SC50873-04

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:06

Received

05-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 1480	U, D	µg/kg dry	1480	736	20	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 1480	U, D	µg/kg dry	1480	730	20	"	"	"	"	"	X
62-53-3	Aniline	< 7320	U, D	µg/kg dry	7320	526	20	"	"	"	"	"	X
120-12-7	Anthracene	< 1480	U, D	µg/kg dry	1480	707	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 7320	U, D	µg/kg dry	7320	720	20	"	"	"	"	"	
92-87-5	Benzidine	< 14600	U, D	µg/kg dry	14600	1470	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	843	J, D	µg/kg dry	1480	781	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,060	J, D	µg/kg dry	1480	551	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	858	J, D	µg/kg dry	1480	716	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	998	J, D	µg/kg dry	1480	594	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1480	U, D	µg/kg dry	1480	579	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 7320	U, D	µg/kg dry	7320	1540	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 7320	U, D	µg/kg dry	7320	599	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 7320	U, D	µg/kg dry	7320	650	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 3700	U, D	µg/kg dry	3700	530	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 3700	U, D	µg/kg dry	3700	570	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 3700	U, D	µg/kg dry	3700	914	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 7320	U, D	µg/kg dry	7320	685	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 7320	U, D	µg/kg dry	7320	854	20	"	"	"	"	"	X
86-74-8	Carbazole	< 3700	U, D	µg/kg dry	3700	2070	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 7320	U, D	µg/kg dry	7320	699	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 3700	U, D	µg/kg dry	3700	801	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 7320	U, D	µg/kg dry	7320	676	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 3700	U, D	µg/kg dry	3700	659	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 7320	U, D	µg/kg dry	7320	869	20	"	"	"	"	"	X
218-01-9	Chrysene	939	J, D	µg/kg dry	1480	739	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1480	U, D	µg/kg dry	1480	568	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 3700	U, D	µg/kg dry	3700	563	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7320	U, D	µg/kg dry	7320	639	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7320	U, D	µg/kg dry	7320	639	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7320	U, D	µg/kg dry	7320	679	20	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 7320	U, D	µg/kg dry	7320	1110	20	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 3700	U, D	µg/kg dry	3700	692	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 7320	U, D	µg/kg dry	7320	905	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 7320	U, D	µg/kg dry	7320	801	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 7320	U, D	µg/kg dry	7320	523	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 7320	U, D	µg/kg dry	7320	776	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 7320	U, D	µg/kg dry	7320	940	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 7320	U, D	µg/kg dry	7320	745	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 3700	U, D	µg/kg dry	3700	1430	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 3700	U, D	µg/kg dry	3700	834	20	"	"	"	"	"	X

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Sample Identification**B-6 (0-2)**

SC50873-04

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:06

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>				R01									
117-84-0	Di-n-octyl phthalate	< 7320	U, D	µg/kg dry	7320	827	20	SW846 8270D	11-Oct-18	12-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	1,560	D	µg/kg dry	1480	782	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1480	U, D	µg/kg dry	1480	752	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 3700	U, D	µg/kg dry	3700	729	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 3700	U, D	µg/kg dry	3700	885	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 3700	U, D	µg/kg dry	3700	503	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 3700	U, D	µg/kg dry	3700	798	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	636	J, D	µg/kg dry	1480	532	20	"	"	"	"	"	X
78-59-1	Isophorone	< 3700	U, D	µg/kg dry	3700	694	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1480	U, D	µg/kg dry	1480	894	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 7320	U, D	µg/kg dry	7320	622	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 7320	U, D	µg/kg dry	7320	707	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1480	U, D	µg/kg dry	1480	690	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 7320	U, D	µg/kg dry	7320	621	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 7320	U, D	µg/kg dry	7320	1000	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 3700	U, D	µg/kg dry	3700	1140	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 3700	U, D	µg/kg dry	3700	674	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 3700	U, D	µg/kg dry	3700	614	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 29300	U, D	µg/kg dry	29300	1180	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 3700	U, D	µg/kg dry	3700	687	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 3700	U, D	µg/kg dry	3700	721	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 7320	U, D	µg/kg dry	7320	794	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 7320	U, D	µg/kg dry	7320	782	20	"	"	"	"	"	X
85-01-8	Phenanthrene	858	J, D	µg/kg dry	1480	688	20	"	"	"	"	"	X
108-95-2	Phenol	< 7320	U, D	µg/kg dry	7320	482	20	"	"	"	"	"	X
129-00-0	Pyrene	1,780	D	µg/kg dry	1480	825	20	"	"	"	"	"	X
110-86-1	Pyridine	< 7320	U, D	µg/kg dry	7320	1090	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7320	U, D	µg/kg dry	7320	725	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1480	U, D	µg/kg dry	1480	727	20	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 7320	U, D	µg/kg dry	7320	659	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 3700	U, D	µg/kg dry	3700	661	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 7320	U, D	µg/kg dry	7320	1160	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 7320	U, D	µg/kg dry	7320	710	20	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
321-60-8	2-Fluorobiphenyl	52			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	41			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	53			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	32			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	103			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	29	SAC		30-130 %			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	89.6		%			1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813382	
Subcontracted Analyses													

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Sample Identification**B-6 (0-2)**

SC50873-04

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:06

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.9		ug/kg	4.9	0.98	1	SW8260C	04-Oct-18 08:45	07-Oct-18 17:02	11301	450906A	
71-55-6	1,1,1-Trichloroethane	1.7	J.	ug/kg	4.9	0.49	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 24		ug/kg	24	4.9	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 24		ug/kg	24	4.9	1	"	"	"	"	"	
67-64-1	Acetone	< 24		ug/kg	24	4.9	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.8		ug/kg	9.8	0.49	1	"	"	"	"	"	
71-43-2	Benzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.9		ug/kg	4.9	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	

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Sample Identification**B-6 (0-2)**

SC50873-04

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:06

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 4.9		ug/kg	4.9	0.98	1	SW8260C	04-Oct-18 08:45	07-Oct-18 17:02	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 24		ug/kg	24	4.9	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.8		ug/kg	9.8	0.98	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.8		ug/kg	9.8	4.9	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
100-42-5	Styrene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.8		ug/kg	9.8	2.4	1	"	"	"	"	"	
108-88-3	Toluene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.9		ug/kg	4.9	4.9	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.8		ug/kg	9.8	2.4	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	93			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	93			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	89	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'	

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Sample Identification**B-6 (5-7)**

SC50873-05

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:45

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 74.0	U	µg/kg dry	74.0	36.8	1	SW846 8270D	11-Oct-18	13-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 74.0	U	µg/kg dry	74.0	36.5	1	"	"	"	"	"	X
62-53-3	Aniline	< 366	U	µg/kg dry	366	26.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 74.0	U	µg/kg dry	74.0	35.4	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 366	U	µg/kg dry	366	36.0	1	"	"	"	"	"	
92-87-5	Benzidine	< 732	U	µg/kg dry	732	73.6	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	51.4	J	µg/kg dry	74.0	39.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	60.6	J	µg/kg dry	74.0	27.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	55.5	J	µg/kg dry	74.0	35.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	38.1	J	µg/kg dry	74.0	29.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	41.4	J	µg/kg dry	74.0	28.9	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 366	U	µg/kg dry	366	76.8	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 366	U	µg/kg dry	366	30.0	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 366	U	µg/kg dry	366	32.5	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 185	U	µg/kg dry	185	26.5	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 185	U	µg/kg dry	185	28.5	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	213		µg/kg dry	185	45.7	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 366	U	µg/kg dry	366	34.3	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 366	U	µg/kg dry	366	42.7	1	"	"	"	"	"	X
86-74-8	Carbazole	< 185	U	µg/kg dry	185	103	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 366	U	µg/kg dry	366	34.9	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 185	U	µg/kg dry	185	40.0	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 366	U	µg/kg dry	366	33.8	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 185	U	µg/kg dry	185	32.9	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 366	U	µg/kg dry	366	43.5	1	"	"	"	"	"	X
218-01-9	Chrysene	52.5	J	µg/kg dry	74.0	36.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 74.0	U	µg/kg dry	74.0	28.4	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 185	U	µg/kg dry	185	28.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 366	U	µg/kg dry	366	31.9	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 366	U	µg/kg dry	366	31.9	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 366	U	µg/kg dry	366	33.9	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 366	U	µg/kg dry	366	55.7	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 185	U	µg/kg dry	185	34.6	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 366	U	µg/kg dry	366	45.2	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 366	U	µg/kg dry	366	40.0	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 366	U	µg/kg dry	366	26.2	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 366	U	µg/kg dry	366	38.8	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 366	U	µg/kg dry	366	47.0	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 366	U	µg/kg dry	366	37.3	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 185	U	µg/kg dry	185	71.6	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 185	U	µg/kg dry	185	41.7	1	"	"	"	"	"	X

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Sample Identification**B-6 (5-7)**

SC50873-05

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:45

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 366	U	µg/kg dry	366	41.4	1	SW846 8270D	11-Oct-18	13-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	79.5		µg/kg dry	74.0	39.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 74.0	U	µg/kg dry	74.0	37.6	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 185	U	µg/kg dry	185	36.5	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 185	U	µg/kg dry	185	44.3	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 185	U	µg/kg dry	185	25.2	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 185	U	µg/kg dry	185	39.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	38.1	J	µg/kg dry	74.0	26.6	1	"	"	"	"	"	X
78-59-1	Isophorone	< 185	U	µg/kg dry	185	34.7	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 74.0	U	µg/kg dry	74.0	44.7	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 366	U	µg/kg dry	366	31.1	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 366	U	µg/kg dry	366	35.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 74.0	U	µg/kg dry	74.0	34.5	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 366	U	µg/kg dry	366	31.1	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 366	U	µg/kg dry	366	50.0	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 185	U	µg/kg dry	185	57.0	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 185	U	µg/kg dry	185	33.7	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 185	U	µg/kg dry	185	30.7	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1460	U	µg/kg dry	1460	59.1	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 185	U	µg/kg dry	185	34.4	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 185	U	µg/kg dry	185	36.1	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 366	U	µg/kg dry	366	39.7	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 366	U	µg/kg dry	366	39.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 74.0	U	µg/kg dry	74.0	34.4	1	"	"	"	"	"	X
108-95-2	Phenol	< 366	U	µg/kg dry	366	24.1	1	"	"	"	"	"	X
129-00-0	Pyrene	90.2		µg/kg dry	74.0	41.3	1	"	"	"	"	"	X
110-86-1	Pyridine	< 366	U	µg/kg dry	366	54.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 366	U	µg/kg dry	366	36.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 74.0	U	µg/kg dry	74.0	36.4	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 366	U	µg/kg dry	366	32.9	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 185	U	µg/kg dry	185	33.0	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 366	U	µg/kg dry	366	57.8	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 366	U	µg/kg dry	366	35.5	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	51			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	50			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	53			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	48			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	98			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	45			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.1	%					1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813382	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-6 (5-7)**

SC50873-05

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:45

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.89	1	SW8260C	04-Oct-18 08:45	07-Oct-18 17:23	11301	450906A	
71-55-6	1,1,1-Trichloroethane	0.71	J.	ug/kg	4.4	0.44	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
67-64-1	Acetone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 8.9		ug/kg	8.9	0.44	1	"	"	"	"	"	
71-43-2	Benzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.4		ug/kg	4.4	1.8	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	

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Sample Identification**B-6 (5-7)**

SC50873-05

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 11:45

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 4.4		ug/kg	4.4	0.89	1	SW8260C	04-Oct-18 08:45	07-Oct-18 17:23	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 8.9		ug/kg	8.9	0.89	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 8.9		ug/kg	8.9	4.4	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-42-5	Styrene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 8.9		ug/kg	8.9	2.2	1	"	"	"	"	"	
108-88-3	Toluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.4		ug/kg	4.4	4.4	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 8.9		ug/kg	8.9	2.2	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.4		ug/kg	4.4	0.89	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	96			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	90	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'	

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Sample Identification

GW-3

SC50873-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 12:30

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.81	U	µg/l	4.81	1.05	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
208-96-8	Acenaphthylene	< 4.81	U	µg/l	4.81	1.11	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.81	U	µg/l	4.81	0.475	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.81	U	µg/l	4.81	1.12	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 4.81	U	µg/l	4.81	0.930	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.62	U	µg/l	9.62	4.39	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.81	U	µg/l	4.81	0.836	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.81	U	µg/l	4.81	0.690	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.81	U	µg/l	4.81	0.643	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.81	U	µg/l	4.81	0.673	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.81	U	µg/l	4.81	0.944	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.81	U	µg/l	4.81	1.67	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.81	U	µg/l	4.81	1.01	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 4.81	U	µg/l	4.81	0.840	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.81	U	µg/l	4.81	1.07	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 4.81	U	µg/l	4.81	0.971	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.81	U	µg/l	4.81	0.696	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.81	U	µg/l	4.81	0.901	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.81	U	µg/l	4.81	0.449	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.81	U	µg/l	4.81	1.50	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.81	U	µg/l	4.81	0.801	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.81	U	µg/l	4.81	1.12	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.81	U	µg/l	4.81	1.30	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.81	U	µg/l	4.81	1.07	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.81	U	µg/l	4.81	0.479	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.81	U	µg/l	4.81	0.900	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.81	U	µg/l	4.81	0.652	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.81	U	µg/l	4.81	1.17	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.81	U	µg/l	4.81	1.63	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.81	U	µg/l	4.81	1.52	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.81	U	µg/l	4.81	1.45	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.81	U	µg/l	4.81	0.814	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.81	U	µg/l	4.81	0.904	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.81	U	µg/l	4.81	1.74	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.81	U	µg/l	4.81	1.67	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.81	U	µg/l	4.81	1.02	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.81	U	µg/l	4.81	0.597	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.81	U	µg/l	4.81	1.04	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.81	U	µg/l	4.81	1.16	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.81	U	µg/l	4.81	1.14	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.81	U	µg/l	4.81	1.20	1	"	"	"	"	"	X

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Sample Identification

GW-3

SC50873-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 12:30

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.81	U	µg/l	4.81	1.21	1	SW846 8270D	08-Oct-18	15-Oct-18	MSL	1813400	X
206-44-0	Fluoranthene	< 4.81	U	µg/l	4.81	0.981	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.81	U	µg/l	4.81	0.936	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.81	U	µg/l	4.81	1.29	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.81	U	µg/l	4.81	1.46	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.81	U	µg/l	4.81	1.20	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.81	U	µg/l	4.81	1.61	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.81	U	µg/l	4.81	0.559	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.81	U	µg/l	4.81	0.786	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.81	U	µg/l	4.81	1.59	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.81	U	µg/l	4.81	1.02	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.62	U	µg/l	9.62	1.09	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.81	U	µg/l	4.81	1.31	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.81	U	µg/l	4.81	0.483	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.81	U	µg/l	4.81	0.612	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.81	U	µg/l	4.81	0.605	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.81	U	µg/l	4.81	1.24	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.81	U	µg/l	4.81	0.689	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.2	U	µg/l	19.2	0.749	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.81	U	µg/l	4.81	0.576	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.81	U	µg/l	4.81	0.990	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.81	U	µg/l	4.81	0.971	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.2	U	µg/l	19.2	0.747	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.81	U	µg/l	4.81	1.12	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.81	U	µg/l	4.81	1.20	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.81	U	µg/l	4.81	0.950	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.81	U	µg/l	4.81	0.391	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.81	U	µg/l	4.81	1.51	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.81	U	µg/l	4.81	1.13	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.81	U	µg/l	4.81	0.751	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.81	U	µg/l	4.81	0.672	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.81	U	µg/l	4.81	0.772	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.81	U	µg/l	4.81	1.06	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	77		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	58		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	90		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	36		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	112		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	89		15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

GW-3

SC50873-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 12:30

Received

05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
Subcontracted Analyses													
Prepared by method SW8260C													
Analysis performed by Phoenix Environmental Labs, Inc. * - CT007													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	04-Oct-18 08:45	09-Oct-18 03:04	11301	451011A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	3.7	S, J.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	2.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

GW-3

SC50873-06

Client Project #

60558775

Matrix

Ground Water

Collection Date/Time

04-Oct-18 12:30

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	04-Oct-18 08:45	09-Oct-18 03:04	11301	451011A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	97			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	99			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	102			70-130 %		"	"	"	"	"	

Sample Identification**B-7 (0-2)**

SC50873-07

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 13:40

Received

05-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 724	U, D	µg/kg dry	724	360	10	SW846 8270D	11-Oct-18	13-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 724	U, D	µg/kg dry	724	357	10	"	"	"	"	"	X
62-53-3	Aniline	< 3580	U, D	µg/kg dry	3580	257	10	"	"	"	"	"	X
120-12-7	Anthracene	717	J, D	µg/kg dry	724	346	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3580	U, D	µg/kg dry	3580	352	10	"	"	"	"	"	
92-87-5	Benzidine	< 7170	U, D	µg/kg dry	7170	721	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	4,640	D	µg/kg dry	724	382	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	4,440	D	µg/kg dry	724	270	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	4,510	D	µg/kg dry	724	351	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	3,150	D	µg/kg dry	724	291	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	3,180	D	µg/kg dry	724	283	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3580	U, D	µg/kg dry	3580	752	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3580	U, D	µg/kg dry	3580	293	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3580	U, D	µg/kg dry	3580	318	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1810	U, D	µg/kg dry	1810	260	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1810	U, D	µg/kg dry	1810	279	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1810	U, D	µg/kg dry	1810	447	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3580	U, D	µg/kg dry	3580	336	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3580	U, D	µg/kg dry	3580	418	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1810	U, D	µg/kg dry	1810	1010	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3580	U, D	µg/kg dry	3580	342	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1810	U, D	µg/kg dry	1810	392	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3580	U, D	µg/kg dry	3580	331	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1810	U, D	µg/kg dry	1810	322	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3580	U, D	µg/kg dry	3580	426	10	"	"	"	"	"	X
218-01-9	Chrysene	4,560	D	µg/kg dry	724	362	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	1,100	D	µg/kg dry	724	278	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1810	U, D	µg/kg dry	1810	276	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3580	U, D	µg/kg dry	3580	313	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3580	U, D	µg/kg dry	3580	313	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3580	U, D	µg/kg dry	3580	332	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3580	U, D	µg/kg dry	3580	545	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1810	U, D	µg/kg dry	1810	339	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3580	U, D	µg/kg dry	3580	443	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3580	U, D	µg/kg dry	3580	392	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3580	U, D	µg/kg dry	3580	256	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3580	U, D	µg/kg dry	3580	380	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3580	U, D	µg/kg dry	3580	460	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3580	U, D	µg/kg dry	3580	365	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1810	U, D	µg/kg dry	1810	701	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1810	U, D	µg/kg dry	1810	408	10	"	"	"	"	"	X

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Sample Identification**B-7 (0-2)**

SC50873-07

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 13:40

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 3580	U, D	µg/kg dry	3580	405	10	SW846 8270D	11-Oct-18	13-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	6,190	D	µg/kg dry	724	383	10	"	"	"	"	"	X
86-73-7	Fluorene	< 724	U, D	µg/kg dry	724	368	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1810	U, D	µg/kg dry	1810	357	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1810	U, D	µg/kg dry	1810	433	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1810	U, D	µg/kg dry	1810	246	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1810	U, D	µg/kg dry	1810	391	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	3,310	D	µg/kg dry	724	261	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1810	U, D	µg/kg dry	1810	340	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 724	U, D	µg/kg dry	724	438	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3580	U, D	µg/kg dry	3580	305	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3580	U, D	µg/kg dry	3580	346	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 724	U, D	µg/kg dry	724	338	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3580	U, D	µg/kg dry	3580	304	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3580	U, D	µg/kg dry	3580	490	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1810	U, D	µg/kg dry	1810	558	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1810	U, D	µg/kg dry	1810	330	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1810	U, D	µg/kg dry	1810	301	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 14300	U, D	µg/kg dry	14300	579	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1810	U, D	µg/kg dry	1810	337	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1810	U, D	µg/kg dry	1810	353	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3580	U, D	µg/kg dry	3580	389	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3580	U, D	µg/kg dry	3580	383	10	"	"	"	"	"	X
85-01-8	Phenanthrene	3,110	D	µg/kg dry	724	337	10	"	"	"	"	"	X
108-95-2	Phenol	< 3580	U, D	µg/kg dry	3580	236	10	"	"	"	"	"	X
129-00-0	Pyrene	6,370	D	µg/kg dry	724	404	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3580	U, D	µg/kg dry	3580	534	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3580	U, D	µg/kg dry	3580	355	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 724	U, D	µg/kg dry	724	356	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 3580	U, D	µg/kg dry	3580	322	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1810	U, D	µg/kg dry	1810	323	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3580	U, D	µg/kg dry	3580	566	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3580	U, D	µg/kg dry	3580	347	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	58			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	52			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	42			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	48			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	93			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	32			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.6	%					1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813385	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-7 (0-2)**

SC50873-07

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 13:40

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.1		ug/kg	5.1	1.0	1	SW8260C	04-Oct-18 08:45	07-Oct-18 17:44	11301	450906A	
71-55-6	1,1,1-Trichloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/kg	25	5.1	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 25		ug/kg	25	5.1	1	"	"	"	"	"	
67-64-1	Acetone	17	S, J.	ug/kg	25	5.1	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.51	1	"	"	"	"	"	
71-43-2	Benzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.1		ug/kg	5.1	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	

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Sample Identification**B-7 (0-2)**

SC50873-07

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 13:40

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 5.1		ug/kg	5.1	1.0	1	SW8260C	04-Oct-18 08:45	07-Oct-18 17:44	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 25		ug/kg	25	5.1	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.1	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
100-42-5	Styrene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.1		ug/kg	5.1	5.1	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	103			70-130 %		"	"	"	"	"	"	
460-00-4	% Bromofluorobenzene	90			70-130 %		"	"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	96			70-130 %		"	"	"	"	"	"	
2037-26-5	% Toluene-d8	91			70-130 %		"	"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	90	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'	

Sample Identification

B-7 (5-7)

SC50873-08

Client Project

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:12

Received

05-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 152	U, D	µg/kg dry	152	75.6	2	SW846 8270D	11-Oct-18	14-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	288	D	µg/kg dry	152	74.9	2	"	"	"	"	"	X
62-53-3	Aniline	< 752	U, D	µg/kg dry	752	54.0	2	"	"	"	"	"	X
120-12-7	Anthracene	192	D	µg/kg dry	152	72.7	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 752	U, D	µg/kg dry	752	73.9	2	"	"	"	"	"	
92-87-5	Benzidine	< 1500	U, D	µg/kg dry	1500	151	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	2,200	D	µg/kg dry	152	80.2	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,890	D	µg/kg dry	152	56.6	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	1,980	D	µg/kg dry	152	73.6	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	1,070	D	µg/kg dry	152	61.0	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	1,170	D	µg/kg dry	152	59.5	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 752	U, D	µg/kg dry	752	158	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 752	U, D	µg/kg dry	752	61.5	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 752	U, D	µg/kg dry	752	66.7	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 380	U, D	µg/kg dry	380	54.5	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 380	U, D	µg/kg dry	380	58.5	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	414	D	µg/kg dry	380	93.8	2	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 752	U, D	µg/kg dry	752	70.4	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 752	U, D	µg/kg dry	752	87.7	2	"	"	"	"	"	X
86-74-8	Carbazole	< 380	U, D	µg/kg dry	380	212	2	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 752	U, D	µg/kg dry	752	71.8	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 380	U, D	µg/kg dry	380	82.2	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 752	U, D	µg/kg dry	752	69.5	2	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 380	U, D	µg/kg dry	380	67.7	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 752	U, D	µg/kg dry	752	89.3	2	"	"	"	"	"	X
218-01-9	Chrysene	2,100	D	µg/kg dry	152	75.9	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	353	D	µg/kg dry	152	58.3	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 380	U, D	µg/kg dry	380	57.9	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 752	U, D	µg/kg dry	752	65.6	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 752	U, D	µg/kg dry	752	65.6	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 752	U, D	µg/kg dry	752	69.7	2	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 752	U, D	µg/kg dry	752	114	2	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 380	U, D	µg/kg dry	380	71.1	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 752	U, D	µg/kg dry	752	92.9	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 752	U, D	µg/kg dry	752	82.2	2	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 752	U, D	µg/kg dry	752	53.8	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 752	U, D	µg/kg dry	752	79.7	2	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 752	U, D	µg/kg dry	752	96.5	2	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 752	U, D	µg/kg dry	752	76.5	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 380	U, D	µg/kg dry	380	147	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 380	U, D	µg/kg dry	380	85.6	2	"	"	"	"	"	X

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Sample Identification**B-7 (5-7)**

SC50873-08

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:12

Received

05-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
117-84-0	Di-n-octyl phthalate	< 752	U, D	µg/kg dry	752	84.9	2	SW846 8270D	11-Oct-18	14-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	3,720	D	µg/kg dry	152	80.3	2	"	"	"	"	"	X
86-73-7	Fluorene	< 152	U, D	µg/kg dry	152	77.2	2	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 380	U, D	µg/kg dry	380	74.9	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 380	U, D	µg/kg dry	380	90.9	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 380	U, D	µg/kg dry	380	51.7	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 380	U, D	µg/kg dry	380	82.0	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	1,250	D	µg/kg dry	152	54.7	2	"	"	"	"	"	X
78-59-1	Isophorone	< 380	U, D	µg/kg dry	380	71.3	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 152	U, D	µg/kg dry	152	91.8	2	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 752	U, D	µg/kg dry	752	63.9	2	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 752	U, D	µg/kg dry	752	72.7	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 152	U, D	µg/kg dry	152	70.8	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 752	U, D	µg/kg dry	752	63.8	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 752	U, D	µg/kg dry	752	103	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 380	U, D	µg/kg dry	380	117	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 380	U, D	µg/kg dry	380	69.2	2	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 380	U, D	µg/kg dry	380	63.1	2	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 3010	U, D	µg/kg dry	3010	121	2	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 380	U, D	µg/kg dry	380	70.6	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 380	U, D	µg/kg dry	380	74.1	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 752	U, D	µg/kg dry	752	81.5	2	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 752	U, D	µg/kg dry	752	80.3	2	"	"	"	"	"	X
85-01-8	Phenanthrene	576	D	µg/kg dry	152	70.7	2	"	"	"	"	"	X
108-95-2	Phenol	< 752	U, D	µg/kg dry	752	49.5	2	"	"	"	"	"	X
129-00-0	Pyrene	2,370	D	µg/kg dry	152	84.7	2	"	"	"	"	"	X
110-86-1	Pyridine	< 752	U, D	µg/kg dry	752	112	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 752	U, D	µg/kg dry	752	74.5	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 152	U, D	µg/kg dry	152	74.7	2	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 752	U, D	µg/kg dry	752	67.7	2	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 380	U, D	µg/kg dry	380	67.9	2	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 752	U, D	µg/kg dry	752	119	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 752	U, D	µg/kg dry	752	72.9	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	2-Fluorobiphenyl	81			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	47			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	71			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	65			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	88			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	6	SDUP		30-130 %			"	"	"	"	"	
Re-analysis of Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 380	U, D	µg/kg dry	380	189	5	SW846 8270D	17-Oct-18	19-Oct-18	MSL	1813793	X

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Sample Identification

B-7 (5-7)

SC50873-08

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:12

Received

05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Re-analysis of Semivolatile Organic Compounds</u>			R01										
208-96-8	Acenaphthylene	253	J, D	µg/kg dry	380	188	5	SW846 8270D	17-Oct-18	19-Oct-18	MSL	1813793	X
62-53-3	Aniline	< 1880	U, D	µg/kg dry	1880	135	5	"	"	"	"	"	X
120-12-7	Anthracene	< 380	U, D	µg/kg dry	380	182	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1880	U, D	µg/kg dry	1880	185	5	"	"	"	"	"	
92-87-5	Benzidine	< 3760	U, D	µg/kg dry	3760	379	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	1,450	D	µg/kg dry	380	201	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,260	D	µg/kg dry	380	142	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	1,180	D	µg/kg dry	380	184	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	665	D	µg/kg dry	380	153	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	911	D	µg/kg dry	380	149	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1880	U, D	µg/kg dry	1880	395	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1880	U, D	µg/kg dry	1880	154	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1880	U, D	µg/kg dry	1880	167	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 952	U, D	µg/kg dry	952	136	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 952	U, D	µg/kg dry	952	147	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	285	J, D	µg/kg dry	952	235	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1880	U, D	µg/kg dry	1880	176	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1880	U, D	µg/kg dry	1880	220	5	"	"	"	"	"	X
86-74-8	Carbazole	< 952	U, D	µg/kg dry	952	531	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1880	U, D	µg/kg dry	1880	180	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 952	U, D	µg/kg dry	952	206	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1880	U, D	µg/kg dry	1880	174	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 952	U, D	µg/kg dry	952	169	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1880	U, D	µg/kg dry	1880	224	5	"	"	"	"	"	X
218-01-9	Chrysene	1,220	D	µg/kg dry	380	190	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	224	J, D	µg/kg dry	380	146	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 952	U, D	µg/kg dry	952	145	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1880	U, D	µg/kg dry	1880	164	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1880	U, D	µg/kg dry	1880	164	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1880	U, D	µg/kg dry	1880	175	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1880	U, D	µg/kg dry	1880	286	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 952	U, D	µg/kg dry	952	178	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1880	U, D	µg/kg dry	1880	233	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1880	U, D	µg/kg dry	1880	206	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1880	U, D	µg/kg dry	1880	135	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1880	U, D	µg/kg dry	1880	200	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1880	U, D	µg/kg dry	1880	242	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1880	U, D	µg/kg dry	1880	192	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 952	U, D	µg/kg dry	952	368	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 952	U, D	µg/kg dry	952	214	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 1880	U, D	µg/kg dry	1880	213	5	"	"	"	"	"	X

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Sample Identification**B-7 (5-7)**

SC50873-08

Client Project #

60558775

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSRe-analysis of Semivolatile Organic Compounds

R01

206-44-0	Fluoranthene	2,130	D	µg/kg dry	380	201	5	SW846 8270D	17-Oct-18	19-Oct-18	MSL	1813793	X
86-73-7	Fluorene	< 380	U, D	µg/kg dry	380	193	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 952	U, D	µg/kg dry	952	187	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 952	U, D	µg/kg dry	952	228	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 952	U, D	µg/kg dry	952	129	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 952	U, D	µg/kg dry	952	205	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	755	D	µg/kg dry	380	137	5	"	"	"	"	"	X
78-59-1	Isophorone	< 952	U, D	µg/kg dry	952	179	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 380	U, D	µg/kg dry	380	230	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1880	U, D	µg/kg dry	1880	160	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1880	U, D	µg/kg dry	1880	182	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 380	U, D	µg/kg dry	380	177	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1880	U, D	µg/kg dry	1880	160	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1880	U, D	µg/kg dry	1880	257	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 952	U, D	µg/kg dry	952	293	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 952	U, D	µg/kg dry	952	173	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 952	U, D	µg/kg dry	952	158	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7530	U, D	µg/kg dry	7530	304	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 952	U, D	µg/kg dry	952	177	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 952	U, D	µg/kg dry	952	185	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1880	U, D	µg/kg dry	1880	204	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1880	U, D	µg/kg dry	1880	201	5	"	"	"	"	"	X
85-01-8	Phenanthrene	312	J, D	µg/kg dry	380	177	5	"	"	"	"	"	X
108-95-2	Phenol	< 1880	U, D	µg/kg dry	1880	124	5	"	"	"	"	"	X
129-00-0	Pyrene	1,740	D	µg/kg dry	380	212	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1880	U, D	µg/kg dry	1880	281	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1880	U, D	µg/kg dry	1880	187	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 380	U, D	µg/kg dry	380	187	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1880	U, D	µg/kg dry	1880	169	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 952	U, D	µg/kg dry	952	170	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1880	U, D	µg/kg dry	1880	297	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1880	U, D	µg/kg dry	1880	183	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	56			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	42			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	59			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	51			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	66			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	9	SDUP		30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.6	%					1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813385	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-7 (5-7)**

SC50873-08

Client Project #

60558775

Matrix

Soil

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04-Oct-18 14:12

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.6		ug/kg	5.6	1.1	1	SW8260C	04-Oct-18 08:45	07-Oct-18 18:05	11301	450906A	
71-55-6	1,1,1-Trichloroethane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 28		ug/kg	28	5.6	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 28		ug/kg	28	5.6	1	"	"	"	"	"	
67-64-1	Acetone	44	S	ug/kg	28	5.6	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 11		ug/kg	11	0.56	1	"	"	"	"	"	
71-43-2	Benzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.6		ug/kg	5.6	2.3	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	

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Sample Identification**B-7 (5-7)**

SC50873-08

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:12

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 5.6		ug/kg	5.6	1.1	1	SW8260C	04-Oct-18 08:45	07-Oct-18 18:05	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	8.1	J.	ug/kg	28	5.6	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 11		ug/kg	11	1.1	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 11		ug/kg	11	5.6	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
100-42-5	Styrene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 11		ug/kg	11	2.8	1	"	"	"	"	"	
108-88-3	Toluene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.6		ug/kg	5.6	5.6	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 11		ug/kg	11	2.8	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.6		ug/kg	5.6	1.1	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.6		ug/kg	5.6	0.56	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	102			70-130 %		"	"	"	"	"	"	
460-00-4	% Bromofluorobenzene	92			70-130 %		"	"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	63			70-130 %		"	"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %		"	"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	87	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'	

Sample Identification**B-9 (0-2)**

SC50873-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:37

Received

05-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 808	U, D	µg/kg dry	808	402	10	SW846 8270D	11-Oct-18	14-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 808	U, D	µg/kg dry	808	399	10	"	"	"	"	"	X
62-53-3	Aniline	< 4000	U, D	µg/kg dry	4000	287	10	"	"	"	"	"	X
120-12-7	Anthracene	< 808	U, D	µg/kg dry	808	386	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4000	U, D	µg/kg dry	4000	393	10	"	"	"	"	"	
92-87-5	Benzidine	< 7990	U, D	µg/kg dry	7990	804	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 808	U, D	µg/kg dry	808	426	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 808	U, D	µg/kg dry	808	301	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 808	U, D	µg/kg dry	808	391	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 808	U, D	µg/kg dry	808	325	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 808	U, D	µg/kg dry	808	316	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4000	U, D	µg/kg dry	4000	839	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4000	U, D	µg/kg dry	4000	327	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4000	U, D	µg/kg dry	4000	355	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2020	U, D	µg/kg dry	2020	290	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2020	U, D	µg/kg dry	2020	311	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2020	U, D	µg/kg dry	2020	499	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4000	U, D	µg/kg dry	4000	374	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4000	U, D	µg/kg dry	4000	466	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2020	U, D	µg/kg dry	2020	1130	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4000	U, D	µg/kg dry	4000	382	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2020	U, D	µg/kg dry	2020	437	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4000	U, D	µg/kg dry	4000	369	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2020	U, D	µg/kg dry	2020	360	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4000	U, D	µg/kg dry	4000	475	10	"	"	"	"	"	X
218-01-9	Chrysene	< 808	U, D	µg/kg dry	808	403	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 808	U, D	µg/kg dry	808	310	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2020	U, D	µg/kg dry	2020	308	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4000	U, D	µg/kg dry	4000	349	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4000	U, D	µg/kg dry	4000	349	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4000	U, D	µg/kg dry	4000	371	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4000	U, D	µg/kg dry	4000	608	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 2020	U, D	µg/kg dry	2020	378	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4000	U, D	µg/kg dry	4000	494	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4000	U, D	µg/kg dry	4000	437	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4000	U, D	µg/kg dry	4000	286	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4000	U, D	µg/kg dry	4000	424	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4000	U, D	µg/kg dry	4000	513	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4000	U, D	µg/kg dry	4000	407	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2020	U, D	µg/kg dry	2020	782	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2020	U, D	µg/kg dry	2020	455	10	"	"	"	"	"	X

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Sample Identification**B-9 (0-2)**

SC50873-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:37

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 4000	U, D	µg/kg dry	4000	452	10	SW846 8270D	11-Oct-18	14-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	< 808	U, D	µg/kg dry	808	427	10	"	"	"	"	"	X
86-73-7	Fluorene	< 808	U, D	µg/kg dry	808	411	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2020	U, D	µg/kg dry	2020	398	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2020	U, D	µg/kg dry	2020	483	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2020	U, D	µg/kg dry	2020	275	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2020	U, D	µg/kg dry	2020	436	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 808	U, D	µg/kg dry	808	291	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2020	U, D	µg/kg dry	2020	379	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 808	U, D	µg/kg dry	808	488	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4000	U, D	µg/kg dry	4000	340	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 4000	U, D	µg/kg dry	4000	386	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 808	U, D	µg/kg dry	808	377	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4000	U, D	µg/kg dry	4000	339	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4000	U, D	µg/kg dry	4000	546	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2020	U, D	µg/kg dry	2020	623	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2020	U, D	µg/kg dry	2020	368	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2020	U, D	µg/kg dry	2020	336	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 16000	U, D	µg/kg dry	16000	646	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2020	U, D	µg/kg dry	2020	375	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2020	U, D	µg/kg dry	2020	394	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4000	U, D	µg/kg dry	4000	434	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 4000	U, D	µg/kg dry	4000	427	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 808	U, D	µg/kg dry	808	376	10	"	"	"	"	"	X
108-95-2	Phenol	< 4000	U, D	µg/kg dry	4000	263	10	"	"	"	"	"	X
129-00-0	Pyrene	< 808	U, D	µg/kg dry	808	451	10	"	"	"	"	"	X
110-86-1	Pyridine	< 4000	U, D	µg/kg dry	4000	596	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4000	U, D	µg/kg dry	4000	396	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 808	U, D	µg/kg dry	808	397	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4000	U, D	µg/kg dry	4000	360	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2020	U, D	µg/kg dry	2020	361	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4000	U, D	µg/kg dry	4000	631	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4000	U, D	µg/kg dry	4000	388	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	56			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	18	SDUP		30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	50			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	38			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	53			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	0.6	SDUP		30-130 %			"	"	"	"	"	

Re-analysis of Semivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 1610	U, D	µg/kg dry	1610	800	20	SW846 8270D	17-Oct-18	19-Oct-18	MSL	1813793	X

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Sample Identification**B-9 (0-2)**

SC50873-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:37

Received

05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Re-analysis of Semivolatile Organic Compounds</u>			R01										
208-96-8	Acenaphthylene	< 1610	U, D	µg/kg dry	1610	793	20	SW846 8270D	17-Oct-18	19-Oct-18	MSL	1813793	X
62-53-3	Aniline	< 7950	U, D	µg/kg dry	7950	571	20	"	"	"	"	"	X
120-12-7	Anthracene	< 1610	U, D	µg/kg dry	1610	769	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 7950	U, D	µg/kg dry	7950	782	20	"	"	"	"	"	
92-87-5	Benzidine	< 15900	U, D	µg/kg dry	15900	1600	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1610	U, D	µg/kg dry	1610	848	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 1610	U, D	µg/kg dry	1610	598	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 1610	U, D	µg/kg dry	1610	778	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1610	U, D	µg/kg dry	1610	646	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1610	U, D	µg/kg dry	1610	629	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 7950	U, D	µg/kg dry	7950	1670	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 7950	U, D	µg/kg dry	7950	651	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 7950	U, D	µg/kg dry	7950	706	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4020	U, D	µg/kg dry	4020	576	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4020	U, D	µg/kg dry	4020	619	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4020	U, D	µg/kg dry	4020	993	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 7950	U, D	µg/kg dry	7950	745	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 7950	U, D	µg/kg dry	7950	928	20	"	"	"	"	"	X
86-74-8	Carbazole	< 4020	U, D	µg/kg dry	4020	2250	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 7950	U, D	µg/kg dry	7950	759	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4020	U, D	µg/kg dry	4020	870	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 7950	U, D	µg/kg dry	7950	735	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4020	U, D	µg/kg dry	4020	716	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 7950	U, D	µg/kg dry	7950	945	20	"	"	"	"	"	X
218-01-9	Chrysene	< 1610	U, D	µg/kg dry	1610	803	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1610	U, D	µg/kg dry	1610	617	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4020	U, D	µg/kg dry	4020	612	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7950	U, D	µg/kg dry	7950	694	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7950	U, D	µg/kg dry	7950	694	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7950	U, D	µg/kg dry	7950	737	20	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 7950	U, D	µg/kg dry	7950	1210	20	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4020	U, D	µg/kg dry	4020	752	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 7950	U, D	µg/kg dry	7950	983	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 7950	U, D	µg/kg dry	7950	870	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 7950	U, D	µg/kg dry	7950	569	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 7950	U, D	µg/kg dry	7950	844	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 7950	U, D	µg/kg dry	7950	1020	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 7950	U, D	µg/kg dry	7950	810	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4020	U, D	µg/kg dry	4020	1560	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4020	U, D	µg/kg dry	4020	906	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 7950	U, D	µg/kg dry	7950	899	20	"	"	"	"	"	X

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Sample Identification**B-9 (0-2)**

SC50873-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:37

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSRe-analysis of Semivolatile Organic Compounds

R01

206-44-0	Fluoranthene	< 1610	U, D	µg/kg dry	1610	849	20	SW846 8270D	17-Oct-18	19-Oct-18	MSL	1813793	X
86-73-7	Fluorene	< 1610	U, D	µg/kg dry	1610	817	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4020	U, D	µg/kg dry	4020	792	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4020	U, D	µg/kg dry	4020	962	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4020	U, D	µg/kg dry	4020	547	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4020	U, D	µg/kg dry	4020	868	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1610	U, D	µg/kg dry	1610	578	20	"	"	"	"	"	X
78-59-1	Isophorone	< 4020	U, D	µg/kg dry	4020	754	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1610	U, D	µg/kg dry	1610	971	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 7950	U, D	µg/kg dry	7950	676	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 7950	U, D	µg/kg dry	7950	769	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1610	U, D	µg/kg dry	1610	750	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 7950	U, D	µg/kg dry	7950	675	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 7950	U, D	µg/kg dry	7950	1090	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4020	U, D	µg/kg dry	4020	1240	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4020	U, D	µg/kg dry	4020	733	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4020	U, D	µg/kg dry	4020	668	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 31800	U, D	µg/kg dry	31800	1290	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4020	U, D	µg/kg dry	4020	747	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4020	U, D	µg/kg dry	4020	784	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 7950	U, D	µg/kg dry	7950	863	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 7950	U, D	µg/kg dry	7950	850	20	"	"	"	"	"	X
85-01-8	Phenanthrene	< 1610	U, D	µg/kg dry	1610	748	20	"	"	"	"	"	X
108-95-2	Phenol	< 7950	U, D	µg/kg dry	7950	523	20	"	"	"	"	"	X
129-00-0	Pyrene	< 1610	U, D	µg/kg dry	1610	897	20	"	"	"	"	"	X
110-86-1	Pyridine	< 7950	U, D	µg/kg dry	7950	1190	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7950	U, D	µg/kg dry	7950	788	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1610	U, D	µg/kg dry	1610	790	20	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 7950	U, D	µg/kg dry	7950	716	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4020	U, D	µg/kg dry	4020	718	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 7950	U, D	µg/kg dry	7950	1260	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 7950	U, D	µg/kg dry	7950	771	20	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	48			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	25	SDUP		30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	56			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	45			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	54			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	5	SDUP		30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	81.7	%					1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813385	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-9 (0-2)**

SC50873-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:37

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 7.5		ug/kg	7.5	1.5	1	SW8260C	04-Oct-18 08:45	09-Oct-18 11:24	11301	451157A	
71-55-6	1,1,1-Trichloroethane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 38		ug/kg	38	7.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 38		ug/kg	38	7.5	1	"	"	"	"	"	
67-64-1	Acetone	10	S, J.	ug/kg	38	7.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 15		ug/kg	15	0.75	1	"	"	"	"	"	
71-43-2	Benzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
75-25-2	Bromoform	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
74-83-9	Bromomethane	< 7.5		ug/kg	7.5	3.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
75-00-3	Chloroethane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
67-66-3	Chloroform	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
74-87-3	Chloromethane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	

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Sample Identification**B-9 (0-2)**

SC50873-09

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:37

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 7.5		ug/kg	7.5	1.5	1	SW8260C	04-Oct-18 08:45	09-Oct-18 11:24	11301	451157A	
75-71-8	Dichlorodifluoromethane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 38		ug/kg	38	7.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 15		ug/kg	15	1.5	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 15		ug/kg	15	7.5	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
91-20-3	Naphthalene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
95-47-6	o-Xylene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
100-42-5	Styrene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 15		ug/kg	15	3.8	1	"	"	"	"	"	
108-88-3	Toluene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 7.5		ug/kg	7.5	7.5	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 15		ug/kg	15	3.8	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 7.5		ug/kg	7.5	1.5	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 7.5		ug/kg	7.5	0.75	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	64			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	93			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	82	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'	

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Sample Identification**B-9 (5-7)**

SC50873-10

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:50

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 74.2	U	µg/kg dry	74.2	36.9	1	SW846 8270D	11-Oct-18	14-Oct-18	MSL	1813548	X
208-96-8	Acenaphthylene	< 74.2	U	µg/kg dry	74.2	36.6	1	"	"	"	"	"	X
62-53-3	Aniline	< 367	U	µg/kg dry	367	26.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 74.2	U	µg/kg dry	74.2	35.5	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 367	U	µg/kg dry	367	36.1	1	"	"	"	"	"	
92-87-5	Benzidine	< 734	U	µg/kg dry	734	73.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 74.2	U	µg/kg dry	74.2	39.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 74.2	U	µg/kg dry	74.2	27.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 74.2	U	µg/kg dry	74.2	35.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 74.2	U	µg/kg dry	74.2	29.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 74.2	U	µg/kg dry	74.2	29.0	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 367	U	µg/kg dry	367	77.1	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 367	U	µg/kg dry	367	30.0	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 367	U	µg/kg dry	367	32.6	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 186	U	µg/kg dry	186	26.6	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 186	U	µg/kg dry	186	28.6	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 186	U	µg/kg dry	186	45.8	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 367	U	µg/kg dry	367	34.4	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 367	U	µg/kg dry	367	42.8	1	"	"	"	"	"	X
86-74-8	Carbazole	< 186	U	µg/kg dry	186	104	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 367	U	µg/kg dry	367	35.0	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 186	U	µg/kg dry	186	40.1	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 367	U	µg/kg dry	367	33.9	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 186	U	µg/kg dry	186	33.0	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 367	U	µg/kg dry	367	43.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 74.2	U	µg/kg dry	74.2	37.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 74.2	U	µg/kg dry	74.2	28.5	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 186	U	µg/kg dry	186	28.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 367	U	µg/kg dry	367	32.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 367	U	µg/kg dry	367	32.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 367	U	µg/kg dry	367	34.0	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 367	U	µg/kg dry	367	55.8	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 186	U	µg/kg dry	186	34.7	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 367	U	µg/kg dry	367	45.4	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 367	U	µg/kg dry	367	40.1	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 367	U	µg/kg dry	367	26.2	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 367	U	µg/kg dry	367	38.9	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 367	U	µg/kg dry	367	47.1	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 367	U	µg/kg dry	367	37.4	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 186	U	µg/kg dry	186	71.8	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 186	U	µg/kg dry	186	41.8	1	"	"	"	"	"	X

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Sample Identification**B-9 (5-7)**

SC50873-10

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:50

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 367	U	µg/kg dry	367	41.5	1	SW846 8270D	11-Oct-18	14-Oct-18	MSL	1813548	X
206-44-0	Fluoranthene	< 74.2	U	µg/kg dry	74.2	39.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 74.2	U	µg/kg dry	74.2	37.7	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 186	U	µg/kg dry	186	36.6	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 186	U	µg/kg dry	186	44.4	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 186	U	µg/kg dry	186	25.2	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 186	U	µg/kg dry	186	40.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 74.2	U	µg/kg dry	74.2	26.7	1	"	"	"	"	"	X
78-59-1	Isophorone	< 186	U	µg/kg dry	186	34.8	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 74.2	U	µg/kg dry	74.2	44.8	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 367	U	µg/kg dry	367	31.2	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 367	U	µg/kg dry	367	35.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 74.2	U	µg/kg dry	74.2	34.6	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 367	U	µg/kg dry	367	31.1	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 367	U	µg/kg dry	367	50.2	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 186	U	µg/kg dry	186	57.2	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 186	U	µg/kg dry	186	33.8	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 186	U	µg/kg dry	186	30.8	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1470	U	µg/kg dry	1470	59.3	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 186	U	µg/kg dry	186	34.5	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 186	U	µg/kg dry	186	36.2	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 367	U	µg/kg dry	367	39.8	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 367	U	µg/kg dry	367	39.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 74.2	U	µg/kg dry	74.2	34.5	1	"	"	"	"	"	X
108-95-2	Phenol	< 367	U	µg/kg dry	367	24.2	1	"	"	"	"	"	X
129-00-0	Pyrene	< 74.2	U	µg/kg dry	74.2	41.4	1	"	"	"	"	"	X
110-86-1	Pyridine	< 367	U	µg/kg dry	367	54.7	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 367	U	µg/kg dry	367	36.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 74.2	U	µg/kg dry	74.2	36.5	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 367	U	µg/kg dry	367	33.0	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 186	U	µg/kg dry	186	33.1	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 367	U	µg/kg dry	367	57.9	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 367	U	µg/kg dry	367	35.6	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	99		30-130 %		"	"	"	"	"	"	"	
367-12-4	2-Fluorophenol	106		30-130 %		"	"	"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	81		30-130 %		"	"	"	"	"	"	"	
4165-62-2	Phenol-d5	95		30-130 %		"	"	"	"	"	"	"	
1718-51-0	Terphenyl-dl4	107		30-130 %		"	"	"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	78		30-130 %		"	"	"	"	"	"	"	

General Chemistry Parameters

% Solids	89.5	%					1	SM2540 G (11) Mod.	05-Oct-18	05-Oct-18	BD	1813385	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-9 (5-7)**

SC50873-10

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:50

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.88	1	SW8260C	04-Oct-18 08:45	07-Oct-18 18:47	11301	450906A	
71-55-6	1,1,1-Trichloroethane	0.52	J.	ug/kg	4.4	0.44	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
67-64-1	Acetone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 8.8		ug/kg	8.8	0.44	1	"	"	"	"	"	
71-43-2	Benzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.4		ug/kg	4.4	1.8	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	

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Sample Identification**B-9 (5-7)**

SC50873-10

Client Project #

60558775

Matrix

Soil

Collection Date/Time

04-Oct-18 14:50

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 4.4		ug/kg	4.4	0.88	1	SW8260C	04-Oct-18 08:45	07-Oct-18 18:47	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 8.8		ug/kg	8.8	0.88	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 8.8		ug/kg	8.8	4.4	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-42-5	Styrene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 8.8		ug/kg	8.8	2.2	1	"	"	"	"	"	
108-88-3	Toluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.4		ug/kg	4.4	4.4	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 8.8		ug/kg	8.8	2.2	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	98			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	101			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	85	%					1	SW846-%Solid	"	05-Oct-18 23:45	11301	'[none]'	

Sample Identification

Trip Blank-S

SC50873-11

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

04-Oct-18 00:00

Received

05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	SW8260C	04-Oct-18 08:45	07-Oct-18 15:17	11301	450906A	
71-55-6	1,1,1-Trichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.50	1	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/kg	5.0	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	

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Sample Identification

Trip Blank-S

SC50873-11

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

04-Oct-18 00:00

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 5.0		ug/kg	5.0	1.0	1	SW8260C	04-Oct-18 08:45	07-Oct-18 15:17	11301	450906A	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.0		ug/kg	5.0	5.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	98			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	100			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	95			70-130 %		"	"	"	"	"	

Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 250		ug/kg	250	50	50	SW8260C (LOW)	"	07-Oct-18 15:38	11301	"	
71-55-6	1,1,1-Trichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	

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Sample Identification

Trip Blank-S

SC50873-11

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

04-Oct-18 00:00

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

87-61-6	1,2,3-Trichlorobenzene	< 250		ug/kg	250	50	50	SW8260C (LOW)	04-Oct-18 08:45	07-Oct-18 15:38	11301	450906A	
96-18-4	1,2,3-Trichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 250		ug/kg	250	50	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
67-64-1	Acetone	< 5000		ug/kg	5000	250	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 500		ug/kg	500	25	50	"	"	"	"	"	
71-43-2	Benzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-25-2	Bromoform	< 250		ug/kg	250	50	50	"	"	"	"	"	
74-83-9	Bromomethane	< 250		ug/kg	250	100	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 250		ug/kg	250	50	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-00-3	Chloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
67-66-3	Chloroform	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-87-3	Chloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
74-95-3	Dibromomethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 3000		ug/kg	3000	250	50	"	"	"	"	"	

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Sample Identification

Trip Blank-S

SC50873-11

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

04-Oct-18 00:00

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

1634-04-4	Methyl t-butyl ether (MTBE)	< 250		ug/kg	250	50	50	SW8260C (LOW)	04-Oct-18 08:45	07-Oct-18 15:38	11301	450906A	
75-09-2	Methylene chloride	< 500		ug/kg	500	250	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
91-20-3	Naphthalene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-47-6	o-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-42-5	Styrene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 250		ug/kg	250	50	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 500		ug/kg	500	130	50	"	"	"	"	"	
108-88-3	Toluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
1330-20-7	Total Xylenes	< 250		ug/kg	250	250	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-butene	< 500		ug/kg	500	130	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 250		ug/kg	250	25	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	98			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	98			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	93			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	96			70-130 %			"	"	"	"	"	

Sample Identification

Trip Blank-W

SC50873-12

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

04-Oct-18 00:00

Received

05-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	04-Oct-18 08:45	08-Oct-18 21:27	11301	451011A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

Trip Blank-W

SC50873-12

Client Project #

60558775

Matrix

Trip Blank

Collection Date/Time

04-Oct-18 00:00

Received

05-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	04-Oct-18 08:45	08-Oct-18 21:27	11301	451011A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	102			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	100			70-130 %		"	"	"	"	"	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
Blank (1813400-BLK1)	Prepared: 08-Oct-18 Analyzed: 10-Oct-18									
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3'-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813400 - SW846 3510C										
<u>Blank (1813400-BLK1)</u>	<u>Prepared: 08-Oct-18 Analyzed: 10-Oct-18</u>									
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	13.6	SBN	µg/l		50.0		27	30-130		
Surrogate: 2-Fluorophenol	10.6		µg/l		50.0		21	15-110		
Surrogate: Nitrobenzene-d5	16.0		µg/l		50.0		32	30-130		
Surrogate: Phenol-d5	6.58	SAC	µg/l		50.0		13	15-110		
Surrogate: Terphenyl-dl4	24.2		µg/l		50.0		48	30-130		
Surrogate: 2,4,6-Tribromophenol	10.5		µg/l		50.0		21	15-110		
<u>LCS (1813400-BS1)</u>										
<u>Prepared: 08-Oct-18 Analyzed: 10-Oct-18</u>										
Acenaphthene	24.7		µg/l	5.00	50.0		49	40-140		
Acenaphthylene	24.6		µg/l	5.00	50.0		49	40-140		
Aniline	16.9	QC6	µg/l	5.00	50.0		34	40-140		
Anthracene	23.1		µg/l	5.00	50.0		46	40-140		
Azobenzene/Diphenyldiazene	26.8		µg/l	5.00	50.0		54	40-140		
Benzidine	75.6	QC2	µg/l	10.0	50.0		151	40-140		
Benzo (a) anthracene	33.0		µg/l	5.00	50.0		66	40-140		
Benzo (a) pyrene	36.5		µg/l	5.00	50.0		73	40-140		
Benzo (b) fluoranthene	35.8		µg/l	5.00	50.0		72	40-140		
Benzo (g,h,i) perylene	35.9		µg/l	5.00	50.0		72	40-140		
Benzo (k) fluoranthene	37.8		µg/l	5.00	50.0		76	40-140		
Benzoic acid	10.7	QC6	µg/l	5.00	50.0		21	30-130		
Benzyl alcohol	23.5		µg/l	5.00	50.0		47	40-140		
Bis(2-chloroethoxy)methane	19.0	QC6	µg/l	5.00	50.0		38	40-140		
Bis(2-chloroethyl)ether	20.2		µg/l	5.00	50.0		40	40-140		
Bis(2-chloroisopropyl)ether	23.0		µg/l	5.00	50.0		46	40-140		
Bis(2-ethylhexyl)phthalate	36.0		µg/l	5.00	50.0		72	40-140		
4-Bromophenyl phenyl ether	21.4		µg/l	5.00	50.0		43	40-140		
Butyl benzyl phthalate	36.0		µg/l	5.00	50.0		72	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
LCS (1813400-BS1)					Prepared: 08-Oct-18 Analyzed: 10-Oct-18					
Carbazole	50.5		µg/l	5.00	50.0		101	40-140		
4-Chloro-3-methylphenol	24.2		µg/l	5.00	50.0		48	30-130		
4-Chloroaniline	23.5		µg/l	5.00	50.0		47	40-140		
2-Chloronaphthalene	26.6		µg/l	5.00	50.0		53	40-140		
2-Chlorophenol	20.2		µg/l	5.00	50.0		40	30-130		
4-Chlorophenyl phenyl ether	23.5		µg/l	5.00	50.0		47	40-140		
Chrysene	38.0		µg/l	5.00	50.0		76	40-140		
Dibenzo (a,h) anthracene	37.2		µg/l	5.00	50.0		74	40-140		
Dibenzofuran	25.2		µg/l	5.00	50.0		50	40-140		
1,2-Dichlorobenzene	26.6		µg/l	5.00	50.0		53	40-140		
1,3-Dichlorobenzene	25.2		µg/l	5.00	50.0		50	40-140		
1,4-Dichlorobenzene	26.7		µg/l	5.00	50.0		53	40-140		
3,3'-Dichlorobenzidine	52.4		µg/l	5.00	50.0		105	40-140		
2,4-Dichlorophenol	20.8		µg/l	5.00	50.0		42	30-130		
Diethyl phthalate	25.7		µg/l	5.00	50.0		51	40-140		
Dimethyl phthalate	24.6		µg/l	5.00	50.0		49	40-140		
2,4-Dimethylphenol	20.9		µg/l	5.00	50.0		42	30-130		
Di-n-butyl phthalate	23.7		µg/l	5.00	50.0		47	40-140		
4,6-Dinitro-2-methylphenol	24.0		µg/l	5.00	50.0		48	30-130		
2,4-Dinitrophenol	16.2		µg/l	5.00	50.0		32	30-130		
2,4-Dinitrotoluene	28.3		µg/l	5.00	50.0		57	40-140		
2,6-Dinitrotoluene	28.7		µg/l	5.00	50.0		57	40-140		
Di-n-octyl phthalate	38.0		µg/l	5.00	50.0		76	40-140		
Fluoranthene	22.0		µg/l	5.00	50.0		44	40-140		
Fluorene	22.7		µg/l	5.00	50.0		45	40-140		
Hexachlorobenzene	25.4		µg/l	5.00	50.0		51	40-140		
Hexachlorobutadiene	23.2		µg/l	5.00	50.0		46	40-140		
Hexachlorocyclopentadiene	31.5		µg/l	5.00	50.0		63	40-140		
Hexachloroethane	28.8		µg/l	5.00	50.0		58	40-140		
Indeno (1,2,3-cd) pyrene	34.3		µg/l	5.00	50.0		69	40-140		
Isophorone	21.3		µg/l	5.00	50.0		43	40-140		
2-Methylnaphthalene	22.6		µg/l	5.00	50.0		45	40-140		
2-Methylphenol	21.3		µg/l	5.00	50.0		43	30-130		
3 & 4-Methylphenol	21.0		µg/l	10.0	50.0		42	30-130		
Naphthalene	23.0		µg/l	5.00	50.0		46	40-140		
2-Nitroaniline	23.6		µg/l	5.00	50.0		47	40-140		
3-Nitroaniline	44.3		µg/l	5.00	50.0		89	40-140		
4-Nitroaniline	31.2		µg/l	5.00	50.0		62	40-140		
Nitrobenzene	28.2		µg/l	5.00	50.0		56	40-140		
2-Nitrophenol	21.1		µg/l	5.00	50.0		42	30-130		
4-Nitrophenol	10.7	QC6, J	µg/l	20.0	50.0		21	30-130		
N-Nitrosodimethylamine	17.4	QC6	µg/l	5.00	50.0		35	40-140		
N-Nitrosodi-n-propylamine	27.4		µg/l	5.00	50.0		55	40-140		
N-Nitrosodiphenylamine	27.7		µg/l	5.00	50.0		55	40-140		
Pentachlorophenol	9.83	QC6, J	µg/l	20.0	50.0		20	30-130		
Phenanthrene	24.8		µg/l	5.00	50.0		50	40-140		
Phenol	12.0	QC6	µg/l	5.00	50.0		24	30-130		
Pyrene	34.1		µg/l	5.00	50.0		68	40-140		
Pyridine	16.2	QC6	µg/l	5.00	50.0		32	40-140		
1,2,4-Trichlorobenzene	24.0		µg/l	5.00	50.0		48	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
LCS (1813400-BS1)					Prepared: 08-Oct-18 Analyzed: 10-Oct-18					
1-Methylnaphthalene	22.9		µg/l	5.00	50.0		46	40-140		
2,4,5-Trichlorophenol	22.1		µg/l	5.00	50.0		44	30-130		
2,4,6-Trichlorophenol	21.5		µg/l	5.00	50.0		43	30-130		
Pentachloronitrobenzene	27.1		µg/l	5.00	50.0		54	40-140		
1,2,4,5-Tetrachlorobenzene	21.8		µg/l	5.00	50.0		44	40-140		
Surrogate: 2-Fluorobiphenyl	22.8		µg/l		50.0		46	30-130		
Surrogate: 2-Fluorophenol	15.8		µg/l		50.0		32	15-110		
Surrogate: Nitrobenzene-d5	24.8		µg/l		50.0		50	30-130		
Surrogate: Phenol-d5	12.0		µg/l		50.0		24	15-110		
Surrogate: Terphenyl-dl4	36.0		µg/l		50.0		72	30-130		
Surrogate: 2,4,6-Tribromophenol	22.4		µg/l		50.0		45	15-110		
LCS Dup (1813400-BSD1)					Prepared: 08-Oct-18 Analyzed: 10-Oct-18					
Acenaphthene	24.5		µg/l	4.90	49.0		50	40-140	0.8	20
Acenaphthylene	23.8		µg/l	4.90	49.0		49	40-140	3	20
Aniline	18.6	QC6	µg/l	4.90	49.0		38	40-140	10	20
Anthracene	23.0		µg/l	4.90	49.0		47	40-140	0.4	20
Azobenzene/Diphenyldiazene	26.2		µg/l	4.90	49.0		53	40-140	2	20
Benzidine	80.6	QC2, E	µg/l	9.80	49.0		164	40-140	6	20
Benzo (a) anthracene	34.0		µg/l	4.90	49.0		69	40-140	3	20
Benzo (a) pyrene	37.0		µg/l	4.90	49.0		75	40-140	1	20
Benzo (b) fluoranthene	33.5		µg/l	4.90	49.0		68	40-140	7	20
Benzo (g,h,i) perylene	37.3		µg/l	4.90	49.0		76	40-140	4	20
Benzo (k) fluoranthene	37.5		µg/l	4.90	49.0		76	40-140	0.8	20
Benzoic acid	10.8	QC6	µg/l	4.90	49.0		22	30-130	1	20
Benzyl alcohol	22.8		µg/l	4.90	49.0		47	40-140	3	20
Bis(2-chloroethoxy)methane	18.8	QC6	µg/l	4.90	49.0		38	40-140	1	20
Bis(2-chloroethyl)ether	21.2		µg/l	4.90	49.0		43	40-140	5	20
Bis(2-chloroisopropyl)ether	22.9		µg/l	4.90	49.0		47	40-140	0.3	20
Bis(2-ethylhexyl)phthalate	38.4		µg/l	4.90	49.0		78	40-140	7	20
4-Bromophenyl phenyl ether	21.0		µg/l	4.90	49.0		43	40-140	2	20
Butyl benzyl phthalate	37.8		µg/l	4.90	49.0		77	40-140	5	20
Carbazole	49.4		µg/l	4.90	49.0		101	40-140	2	20
4-Chloro-3-methylphenol	23.9		µg/l	4.90	49.0		49	30-130	1	20
4-Chloroaniline	24.4		µg/l	4.90	49.0		50	40-140	4	20
2-Chloronaphthalene	26.1		µg/l	4.90	49.0		53	40-140	2	20
2-Chlorophenol	21.7		µg/l	4.90	49.0		44	30-130	7	20
4-Chlorophenyl phenyl ether	23.8		µg/l	4.90	49.0		48	40-140	1	20
Chrysene	37.5		µg/l	4.90	49.0		76	40-140	1	20
Dibenzo (a,h) anthracene	40.0		µg/l	4.90	49.0		82	40-140	7	20
Dibenzofuran	25.1		µg/l	4.90	49.0		51	40-140	0.4	20
1,2-Dichlorobenzene	26.2		µg/l	4.90	49.0		53	40-140	2	20
1,3-Dichlorobenzene	24.9		µg/l	4.90	49.0		51	40-140	1	20
1,4-Dichlorobenzene	26.6		µg/l	4.90	49.0		54	40-140	0.3	20
3,3'-Dichlorobenzidine	52.7		µg/l	4.90	49.0		107	40-140	0.5	20
2,4-Dichlorophenol	20.9		µg/l	4.90	49.0		43	30-130	0.6	20
Diethyl phthalate	25.8		µg/l	4.90	49.0		53	40-140	0.5	20
Dimethyl phthalate	24.4		µg/l	4.90	49.0		50	40-140	0.8	20
2,4-Dimethylphenol	20.9		µg/l	4.90	49.0		43	30-130	0.3	20
Di-n-butyl phthalate	22.5		µg/l	4.90	49.0		46	40-140	5	20
4,6-Dinitro-2-methylphenol	23.9		µg/l	4.90	49.0		49	30-130	0.4	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813400 - SW846 3510C										
LCS Dup (1813400-BSD1)	Prepared: 08-Oct-18 Analyzed: 10-Oct-18									
2,4-Dinitrophenol	16.1		µg/l	4.90	49.0		33	30-130	0.3	20
2,4-Dinitrotoluene	28.1		µg/l	4.90	49.0		57	40-140	0.8	20
2,6-Dinitrotoluene	28.3		µg/l	4.90	49.0		58	40-140	1	20
Di-n-octyl phthalate	39.6		µg/l	4.90	49.0		81	40-140	4	20
Fluoranthene	22.1		µg/l	4.90	49.0		45	40-140	0.6	20
Fluorene	22.8		µg/l	4.90	49.0		46	40-140	0.2	20
Hexachlorobenzene	25.6		µg/l	4.90	49.0		52	40-140	0.7	20
Hexachlorobutadiene	22.9		µg/l	4.90	49.0		47	40-140	1	20
Hexachlorocyclopentadiene	30.7		µg/l	4.90	49.0		63	40-140	2	20
Hexachloroethane	28.2		µg/l	4.90	49.0		58	40-140	2	20
Indeno (1,2,3-cd) pyrene	36.2		µg/l	4.90	49.0		74	40-140	5	20
Isophorone	21.3		µg/l	4.90	49.0		43	40-140	0.07	20
2-Methylnaphthalene	23.2		µg/l	4.90	49.0		47	40-140	3	20
2-Methylphenol	21.3		µg/l	4.90	49.0		43	30-130	0.2	20
3 & 4-Methylphenol	20.7		µg/l	9.80	49.0		42	30-130	2	20
Naphthalene	22.9		µg/l	4.90	49.0		47	40-140	0.2	20
2-Nitroaniline	23.5		µg/l	4.90	49.0		48	40-140	0.5	20
3-Nitroaniline	44.4		µg/l	4.90	49.0		90	40-140	0.1	20
4-Nitroaniline	31.6		µg/l	4.90	49.0		64	40-140	1	20
Nitrobenzene	28.2		µg/l	4.90	49.0		58	40-140	0.09	20
2-Nitrophenol	21.4		µg/l	4.90	49.0		44	30-130	2	20
4-Nitrophenol	10.5	QC6, J	µg/l	19.6	49.0		21	30-130	2	20
N-Nitrosodimethylamine	17.8	QC6	µg/l	4.90	49.0		36	40-140	2	20
N-Nitrosodi-n-propylamine	26.9		µg/l	4.90	49.0		55	40-140	2	20
N-Nitrosodiphenylamine	27.1		µg/l	4.90	49.0		55	40-140	2	20
Pentachlorophenol	9.87	QC6, J	µg/l	19.6	49.0		20	30-130	0.4	20
Phenanthrene	23.9		µg/l	4.90	49.0		49	40-140	3	20
Phenol	12.5	QC6	µg/l	4.90	49.0		26	30-130	4	20
Pyrene	35.9		µg/l	4.90	49.0		73	40-140	5	20
Pyridine	16.6	QC6	µg/l	4.90	49.0		34	40-140	2	20
1,2,4-Trichlorobenzene	23.8		µg/l	4.90	49.0		49	40-140	1	20
1-Methylnaphthalene	22.5		µg/l	4.90	49.0		46	40-140	2	20
2,4,5-Trichlorophenol	20.9		µg/l	4.90	49.0		43	30-130	6	20
2,4,6-Trichlorophenol	21.4		µg/l	4.90	49.0		44	30-130	0.8	20
Pentachloronitrobenzene	26.9		µg/l	4.90	49.0		55	40-140	0.5	20
1,2,4,5-Tetrachlorobenzene	21.5		µg/l	4.90	49.0		44	40-140	1	20
Surrogate: 2-Fluorobiphenyl	22.6		µg/l		49.0		46	30-130		
Surrogate: 2-Fluorophenol	16.2		µg/l		49.0		33	15-110		
Surrogate: Nitrobenzene-d5	24.9		µg/l		49.0		51	30-130		
Surrogate: Phenol-d5	12.5		µg/l		49.0		26	15-110		
Surrogate: Terphenyl-dl4	38.8		µg/l		49.0		79	30-130		
Surrogate: 2,4,6-Tribromophenol	22.2		µg/l		49.0		45	15-110		
Batch 1813548 - SW846 3546										
Blank (1813548-BLK1)	Prepared: 11-Oct-18 Analyzed: 12-Oct-18									
Acenaphthene	< 66.1	U	µg/kg wet	66.1						
Acenaphthylene	< 66.1	U	µg/kg wet	66.1						
Aniline	< 327	U	µg/kg wet	327						
Anthracene	< 66.1	U	µg/kg wet	66.1						
Azobenzene/Diphenyldiazene	< 327	U	µg/kg wet	327						
Benzidine	< 654	U	µg/kg wet	654						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Blank (1813548-BLK1)	Prepared: 11-Oct-18 Analyzed: 12-Oct-18									
Benzo (a) anthracene	< 66.1	U	µg/kg wet	66.1						
Benzo (a) pyrene	< 66.1	U	µg/kg wet	66.1						
Benzo (b) fluoranthene	< 66.1	U	µg/kg wet	66.1						
Benzo (g,h,i) perylene	< 66.1	U	µg/kg wet	66.1						
Benzo (k) fluoranthene	< 66.1	U	µg/kg wet	66.1						
Benzoic acid	< 327	U	µg/kg wet	327						
Benzyl alcohol	< 327	U	µg/kg wet	327						
Bis(2-chloroethoxy)methane	< 327	U	µg/kg wet	327						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 327	U	µg/kg wet	327						
Butyl benzyl phthalate	< 327	U	µg/kg wet	327						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 327	U	µg/kg wet	327						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 327	U	µg/kg wet	327						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 327	U	µg/kg wet	327						
Chrysene	< 66.1	U	µg/kg wet	66.1						
Dibenzo (a,h) anthracene	< 66.1	U	µg/kg wet	66.1						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 327	U	µg/kg wet	327						
1,3-Dichlorobenzene	< 327	U	µg/kg wet	327						
1,4-Dichlorobenzene	< 327	U	µg/kg wet	327						
3,3'-Dichlorobenzidine	< 327	U	µg/kg wet	327						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						
Diethyl phthalate	< 327	U	µg/kg wet	327						
Dimethyl phthalate	< 327	U	µg/kg wet	327						
2,4-Dimethylphenol	< 327	U	µg/kg wet	327						
Di-n-butyl phthalate	< 327	U	µg/kg wet	327						
4,6-Dinitro-2-methylphenol	< 327	U	µg/kg wet	327						
2,4-Dinitrophenol	< 327	U	µg/kg wet	327						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 327	U	µg/kg wet	327						
Fluoranthene	< 66.1	U	µg/kg wet	66.1						
Fluorene	< 66.1	U	µg/kg wet	66.1						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.1	U	µg/kg wet	66.1						
Isophorone	< 166	U	µg/kg wet	166						
2-Methylnaphthalene	< 66.1	U	µg/kg wet	66.1						
2-Methylphenol	< 327	U	µg/kg wet	327						
3 & 4-Methylphenol	< 327	U	µg/kg wet	327						
Naphthalene	< 66.1	U	µg/kg wet	66.1						
2-Nitroaniline	< 327	U	µg/kg wet	327						
3-Nitroaniline	< 327	U	µg/kg wet	327						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813548 - SW846 3546										
<u>Blank (1813548-BLK1)</u>					<u>Prepared: 11-Oct-18 Analyzed: 12-Oct-18</u>					
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 327	U	µg/kg wet	327						
Pentachlorophenol	< 327	U	µg/kg wet	327						
Phenanthrene	< 66.1	U	µg/kg wet	66.1						
Phenol	< 327	U	µg/kg wet	327						
Pyrene	< 66.1	U	µg/kg wet	66.1						
Pyridine	< 327	U	µg/kg wet	327						
1,2,4-Trichlorobenzene	< 327	U	µg/kg wet	327						
1-Methylnaphthalene	< 66.1	U	µg/kg wet	66.1						
2,4,5-Trichlorophenol	< 327	U	µg/kg wet	327						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 327	U	µg/kg wet	327						
1,2,4,5-Tetrachlorobenzene	< 327	U	µg/kg wet	327						
Surrogate: 2-Fluorobiphenyl	693		µg/kg wet		1650		42	30-130		
Surrogate: 2-Fluorophenol	859		µg/kg wet		1650		52	30-130		
Surrogate: Nitrobenzene-d5	792		µg/kg wet		1650		48	30-130		
Surrogate: Phenol-d5	818		µg/kg wet		1650		49	30-130		
Surrogate: Terphenyl-d14	1320		µg/kg wet		1650		80	30-130		
Surrogate: 2,4,6-Tribromophenol	586		µg/kg wet		1650		35	30-130		
<u>LCS (1813548-BS1)</u>					<u>Prepared: 11-Oct-18 Analyzed: 12-Oct-18</u>					
Acenaphthene	1190		µg/kg wet	66.0	1650		72	40-140		
Acenaphthylene	1240		µg/kg wet	66.0	1650		75	40-140		
Aniline	746		µg/kg wet	327	1650		45	40-140		
Anthracene	1150		µg/kg wet	66.0	1650		69	40-140		
Azobenzene/Diphenyldiazene	1190		µg/kg wet	327	1650		72	40-140		
Benzidine	2350	QC2	µg/kg wet	653	1650		143	40-140		
Benzo (a) anthracene	1610		µg/kg wet	66.0	1650		97	40-140		
Benzo (a) pyrene	1810		µg/kg wet	66.0	1650		110	40-140		
Benzo (b) fluoranthene	1830		µg/kg wet	66.0	1650		111	40-140		
Benzo (g,h,i) perylene	1710		µg/kg wet	66.0	1650		104	40-140		
Benzo (k) fluoranthene	1830		µg/kg wet	66.0	1650		111	40-140		
Benzoic acid	256	QC6, J	µg/kg wet	327	1650		16	30-130		
Benzyl alcohol	291	QC6, J	µg/kg wet	327	1650		18	40-140		
Bis(2-chloroethoxy)methane	888		µg/kg wet	327	1650		54	40-140		
Bis(2-chloroethyl)ether	993		µg/kg wet	165	1650		60	40-140		
Bis(2-chloroisopropyl)ether	1010		µg/kg wet	165	1650		61	40-140		
Bis(2-ethylhexyl)phthalate	1670		µg/kg wet	165	1650		101	40-140		
4-Bromophenyl phenyl ether	1010		µg/kg wet	327	1650		61	40-140		
Butyl benzyl phthalate	1660		µg/kg wet	327	1650		100	40-140		
Carbazole	2310		µg/kg wet	165	1650		140	40-140		
4-Chloro-3-methylphenol	1070		µg/kg wet	327	1650		65	30-130		
4-Chloroaniline	885		µg/kg wet	165	1650		54	40-140		
2-Chloronaphthalene	1340		µg/kg wet	327	1650		81	40-140		
2-Chlorophenol	1010		µg/kg wet	165	1650		61	30-130		
4-Chlorophenyl phenyl ether	1190		µg/kg wet	327	1650		72	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
LCS (1813548-BS1)	Prepared: 11-Oct-18 Analyzed: 12-Oct-18									
Chrysene	1810		µg/kg wet	66.0	1650		110	40-140		
Dibenzo (a,h) anthracene	1830		µg/kg wet	66.0	1650		111	40-140		
Dibenzofuran	1180		µg/kg wet	165	1650		71	40-140		
1,2-Dichlorobenzene	1190		µg/kg wet	327	1650		72	40-140		
1,3-Dichlorobenzene	1190		µg/kg wet	327	1650		72	40-140		
1,4-Dichlorobenzene	1260		µg/kg wet	327	1650		76	40-140		
3,3'-Dichlorobenzidine	2500	QC2	µg/kg wet	327	1650		152	40-140		
2,4-Dichlorophenol	953		µg/kg wet	165	1650		58	30-130		
Diethyl phthalate	1280		µg/kg wet	327	1650		78	40-140		
Dimethyl phthalate	1200		µg/kg wet	327	1650		72	40-140		
2,4-Dimethylphenol	914		µg/kg wet	327	1650		55	30-130		
Di-n-butyl phthalate	1120		µg/kg wet	327	1650		68	40-140		
4,6-Dinitro-2-methylphenol	735		µg/kg wet	327	1650		45	30-130		
2,4-Dinitrophenol	357	QC6	µg/kg wet	327	1650		22	30-130		
2,4-Dinitrotoluene	1430		µg/kg wet	165	1650		87	40-140		
2,6-Dinitrotoluene	1400		µg/kg wet	165	1650		85	40-140		
Di-n-octyl phthalate	1900		µg/kg wet	327	1650		115	40-140		
Fluoranthene	1110		µg/kg wet	66.0	1650		67	40-140		
Fluorene	1170		µg/kg wet	66.0	1650		71	40-140		
Hexachlorobenzene	1260		µg/kg wet	165	1650		76	40-140		
Hexachlorobutadiene	1130		µg/kg wet	165	1650		69	40-140		
Hexachlorocyclopentadiene	1070		µg/kg wet	165	1650		65	40-140		
Hexachloroethane	1340		µg/kg wet	165	1650		81	40-140		
Indeno (1,2,3-cd) pyrene	1650		µg/kg wet	66.0	1650		100	40-140		
Isophorone	1030		µg/kg wet	165	1650		62	40-140		
2-Methylnaphthalene	1290		µg/kg wet	66.0	1650		78	40-140		
2-Methylphenol	1020		µg/kg wet	327	1650		62	30-130		
3 & 4-Methylphenol	1110		µg/kg wet	327	1650		67	30-130		
Naphthalene	1110		µg/kg wet	66.0	1650		67	40-140		
2-Nitroaniline	1160		µg/kg wet	327	1650		70	40-140		
3-Nitroaniline	1780		µg/kg wet	327	1650		108	40-140		
4-Nitroaniline	1400		µg/kg wet	165	1650		85	40-140		
Nitrobenzene	1460		µg/kg wet	165	1650		89	40-140		
2-Nitrophenol	1030		µg/kg wet	165	1650		62	30-130		
4-Nitrophenol	719	J	µg/kg wet	1310	1650		44	30-130		
N-Nitrosodimethylamine	1180		µg/kg wet	165	1650		72	40-140		
N-Nitrosodi-n-propylamine	1160		µg/kg wet	165	1650		71	40-140		
N-Nitrosodiphenylamine	1280		µg/kg wet	327	1650		77	40-140		
Pentachlorophenol	184	QC6, J	µg/kg wet	327	1650		11	30-130		
Phenanthrene	1220		µg/kg wet	66.0	1650		74	40-140		
Phenol	1060		µg/kg wet	327	1650		64	30-130		
Pyrene	1690		µg/kg wet	66.0	1650		102	40-140		
Pyridine	1080		µg/kg wet	327	1650		66	40-140		
1,2,4-Trichlorobenzene	1200		µg/kg wet	327	1650		73	40-140		
1-Methylnaphthalene	1130		µg/kg wet	66.0	1650		69	40-140		
2,4,5-Trichlorophenol	1070		µg/kg wet	327	1650		65	30-130		
2,4,6-Trichlorophenol	925		µg/kg wet	165	1650		56	30-130		
Pentachloronitrobenzene	1320		µg/kg wet	327	1650		80	40-140		
1,2,4,5-Tetrachlorobenzene	1120		µg/kg wet	327	1650		68	40-140		
Surrogate: 2-Fluorobiphenyl	1260		µg/kg wet		1650		77	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
LCS (1813548-BS1)					Prepared: 11-Oct-18 Analyzed: 12-Oct-18					
Surrogate: 2-Fluorophenol	1110		µg/kg wet		1650		67	30-130		
Surrogate: Nitrobenzene-d5	1330		µg/kg wet		1650		81	30-130		
Surrogate: Phenol-d5	1340		µg/kg wet		1650		81	30-130		
Surrogate: Terphenyl-d14	1960		µg/kg wet		1650		119	30-130		
Surrogate: 2,4,6-Tribromophenol	997		µg/kg wet		1650		60	30-130		
LCS Dup (1813548-BSD1)					Prepared: 11-Oct-18 Analyzed: 12-Oct-18					
Acenaphthene	1250		µg/kg wet	66.2	1650		75	40-140	5	30
Acenaphthylene	1300		µg/kg wet	66.2	1650		79	40-140	5	30
Aniline	704		µg/kg wet	328	1650		43	40-140	6	30
Anthracene	1110		µg/kg wet	66.2	1650		67	40-140	3	30
Azobenzene/Diphenyldiazene	1300		µg/kg wet	328	1650		79	40-140	9	30
Benzidine	2730	QC2, E	µg/kg wet	655	1650		165	40-140	15	30
Benzo (a) anthracene	1630		µg/kg wet	66.2	1650		99	40-140	2	30
Benzo (a) pyrene	1810		µg/kg wet	66.2	1650		110	40-140	0.1	30
Benzo (b) fluoranthene	1680		µg/kg wet	66.2	1650		101	40-140	9	30
Benzo (g,h,i) perylene	1750		µg/kg wet	66.2	1650		106	40-140	2	30
Benzo (k) fluoranthene	1740		µg/kg wet	66.2	1650		105	40-140	5	30
Benzoic acid	280	QC6, J	µg/kg wet	328	1650		17	30-130	9	30
Benzyl alcohol	211	QC6, QR5, J	µg/kg wet	328	1650		13	40-140	32	30
Bis(2-chloroethoxy)methane	879		µg/kg wet	328	1650		53	40-140	1	30
Bis(2-chloroethyl)ether	1030		µg/kg wet	166	1650		62	40-140	3	30
Bis(2-chloroisopropyl)ether	995		µg/kg wet	166	1650		60	40-140	1	30
Bis(2-ethylhexyl)phthalate	1660		µg/kg wet	166	1650		100	40-140	0.7	30
4-Bromophenyl phenyl ether	1040		µg/kg wet	328	1650		63	40-140	3	30
Butyl benzyl phthalate	1660		µg/kg wet	328	1650		100	40-140	0.2	30
Carbazole	2300		µg/kg wet	166	1650		139	40-140	0.4	30
4-Chloro-3-methylphenol	1060		µg/kg wet	328	1650		64	30-130	0.9	30
4-Chloroaniline	839		µg/kg wet	166	1650		51	40-140	5	30
2-Chloronaphthalene	1410		µg/kg wet	328	1650		85	40-140	5	30
2-Chlorophenol	1010		µg/kg wet	166	1650		61	30-130	0.2	30
4-Chlorophenyl phenyl ether	1220		µg/kg wet	328	1650		74	40-140	3	30
Chrysene	1800		µg/kg wet	66.2	1650		109	40-140	0.7	30
Dibenzo (a,h) anthracene	1840		µg/kg wet	66.2	1650		111	40-140	0.4	30
Dibenzofuran	1290		µg/kg wet	166	1650		78	40-140	9	30
1,2-Dichlorobenzene	1200		µg/kg wet	328	1650		73	40-140	1	30
1,3-Dichlorobenzene	1190		µg/kg wet	328	1650		72	40-140	0.6	30
1,4-Dichlorobenzene	1270		µg/kg wet	328	1650		77	40-140	1	30
3,3'-Dichlorobenzidine	2570	QC2	µg/kg wet	328	1650		155	40-140	3	30
2,4-Dichlorophenol	956		µg/kg wet	166	1650		58	30-130	0.3	30
Diethyl phthalate	1310		µg/kg wet	328	1650		79	40-140	2	30
Dimethyl phthalate	1230		µg/kg wet	328	1650		74	40-140	3	30
2,4-Dimethylphenol	955		µg/kg wet	328	1650		58	30-130	4	30
Di-n-butyl phthalate	1100		µg/kg wet	328	1650		66	40-140	2	30
4,6-Dinitro-2-methylphenol	857		µg/kg wet	328	1650		52	30-130	15	30
2,4-Dinitrophenol	468	QC6	µg/kg wet	328	1650		28	30-130	27	30
2,4-Dinitrotoluene	1440		µg/kg wet	166	1650		87	40-140	0.7	30
2,6-Dinitrotoluene	1430		µg/kg wet	166	1650		86	40-140	2	30
Di-n-octyl phthalate	1890		µg/kg wet	328	1650		114	40-140	0.3	30
Fluoranthene	1110		µg/kg wet	66.2	1650		67	40-140	0.5	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
LCS Dup (1813548-BSD1)					Prepared: 11-Oct-18 Analyzed: 12-Oct-18					
Fluorene	1200		µg/kg wet	66.2	1650		72	40-140	2	30
Hexachlorobenzene	1300		µg/kg wet	166	1650		79	40-140	3	30
Hexachlorobutadiene	1140		µg/kg wet	166	1650		69	40-140	0.7	30
Hexachlorocyclopentadiene	1260		µg/kg wet	166	1650		76	40-140	16	30
Hexachloroethane	1350		µg/kg wet	166	1650		82	40-140	0.7	30
Indeno (1,2,3-cd) pyrene	1670		µg/kg wet	66.2	1650		101	40-140	0.9	30
Isophorone	1020		µg/kg wet	166	1650		62	40-140	0.4	30
2-Methylnaphthalene	1240		µg/kg wet	66.2	1650		75	40-140	4	30
2-Methylphenol	1040		µg/kg wet	328	1650		63	30-130	2	30
3 & 4-Methylphenol	1090		µg/kg wet	328	1650		66	30-130	1	30
Naphthalene	1130		µg/kg wet	66.2	1650		68	40-140	2	30
2-Nitroaniline	1230		µg/kg wet	328	1650		74	40-140	6	30
3-Nitroaniline	1830		µg/kg wet	328	1650		110	40-140	2	30
4-Nitroaniline	1400		µg/kg wet	166	1650		85	40-140	0.2	30
Nitrobenzene	1490		µg/kg wet	166	1650		90	40-140	2	30
2-Nitrophenol	1030		µg/kg wet	166	1650		62	30-130	0.07	30
4-Nitrophenol	711	J	µg/kg wet	1310	1650		43	30-130	1	30
N-Nitrosodimethylamine	1250		µg/kg wet	166	1650		75	40-140	6	30
N-Nitrosodi-n-propylamine	1180		µg/kg wet	166	1650		71	40-140	1	30
N-Nitrosodiphenylamine	1410		µg/kg wet	328	1650		85	40-140	10	30
Pentachlorophenol	221	QC2, J	µg/kg wet	328	1650		13	30-130	18	30
Phenanthrene	1240		µg/kg wet	66.2	1650		75	40-140	2	30
Phenol	1070		µg/kg wet	328	1650		64	30-130	0.5	30
Pyrene	1680		µg/kg wet	66.2	1650		102	40-140	0.02	30
Pyridine	1120		µg/kg wet	328	1650		68	40-140	3	30
1,2,4-Trichlorobenzene	1200		µg/kg wet	328	1650		72	40-140	0.4	30
1-Methylnaphthalene	1160		µg/kg wet	66.2	1650		70	40-140	3	30
2,4,5-Trichlorophenol	1130		µg/kg wet	328	1650		68	30-130	6	30
2,4,6-Trichlorophenol	960		µg/kg wet	166	1650		58	30-130	4	30
Pentachloronitrobenzene	1340		µg/kg wet	328	1650		81	40-140	2	30
1,2,4,5-Tetrachlorobenzene	1160		µg/kg wet	328	1650		70	40-140	3	30
Surrogate: 2-Fluorobiphenyl	1300		µg/kg wet		1650		79	30-130		
Surrogate: 2-Fluorophenol	1200		µg/kg wet		1650		72	30-130		
Surrogate: Nitrobenzene-d5	1350		µg/kg wet		1650		82	30-130		
Surrogate: Phenol-d5	1360		µg/kg wet		1650		82	30-130		
Surrogate: Terphenyl-dl4	1950		µg/kg wet		1650		118	30-130		
Surrogate: 2,4,6-Tribromophenol	1090		µg/kg wet		1650		66	30-130		
Duplicate (1813548-DUP1)					Source: SC50873-07		Prepared: 11-Oct-18 Analyzed: 14-Oct-18			
Acenaphthene	< 727	U, D	µg/kg dry	727		BRL				30
Acenaphthylene	< 727	U, D	µg/kg dry	727		BRL				30
Aniline	< 3600	U, D	µg/kg dry	3600		BRL				30
Anthracene	1020	QR5, D	µg/kg dry	727		717			35	30
Azobenzene/Diphenyldiazene	< 3600	U, D	µg/kg dry	3600		BRL				30
Benzidine	< 7190	U, D	µg/kg dry	7190		BRL				30
Benzo (a) anthracene	4780	D	µg/kg dry	727		4640			3	30
Benzo (a) pyrene	3590	D	µg/kg dry	727		4440			21	30
Benzo (b) fluoranthene	4220	D	µg/kg dry	727		4510			7	30
Benzo (g,h,i) perylene	1980	QR5, D	µg/kg dry	727		3150			45	30
Benzo (k) fluoranthene	3020	D	µg/kg dry	727		3180			5	30
Benzoic acid	< 3600	U, D	µg/kg dry	3600		BRL				30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Duplicate (1813548-DUP1)				Source: SC50873-07		Prepared: 11-Oct-18 Analyzed: 14-Oct-18				
Benzyl alcohol	< 3600	U, D	µg/kg dry	3600		BRL				30
Bis(2-chloroethoxy)methane	< 3600	U, D	µg/kg dry	3600		BRL				30
Bis(2-chloroethyl)ether	< 1820	U, D	µg/kg dry	1820		BRL				30
Bis(2-chloroisopropyl)ether	< 1820	U, D	µg/kg dry	1820		BRL				30
Bis(2-ethylhexyl)phthalate	< 1820	U, D	µg/kg dry	1820		BRL				30
4-Bromophenyl phenyl ether	< 3600	U, D	µg/kg dry	3600		BRL				30
Butyl benzyl phthalate	< 3600	U, D	µg/kg dry	3600		BRL				30
Carbazole	< 1820	U, D	µg/kg dry	1820		BRL				30
4-Chloro-3-methylphenol	< 3600	U, D	µg/kg dry	3600		BRL				30
4-Chloroaniline	< 1820	U, D	µg/kg dry	1820		BRL				30
2-Chloronaphthalene	< 3600	U, D	µg/kg dry	3600		BRL				30
2-Chlorophenol	< 1820	U, D	µg/kg dry	1820		BRL				30
4-Chlorophenyl phenyl ether	< 3600	U, D	µg/kg dry	3600		BRL				30
Chrysene	4790	D	µg/kg dry	727		4560			5	30
Dibenzo (a,h) anthracene	581	QR5, J, D	µg/kg dry	727		1100			61	30
Dibenzofuran	< 1820	U, D	µg/kg dry	1820		BRL				30
1,2-Dichlorobenzene	< 3600	U, D	µg/kg dry	3600		BRL				30
1,3-Dichlorobenzene	< 3600	U, D	µg/kg dry	3600		BRL				30
1,4-Dichlorobenzene	< 3600	U, D	µg/kg dry	3600		BRL				30
3,3'-Dichlorobenzidine	< 3600	U, D	µg/kg dry	3600		BRL				30
2,4-Dichlorophenol	< 1820	U, D	µg/kg dry	1820		BRL				30
Diethyl phthalate	< 3600	U, D	µg/kg dry	3600		BRL				30
Dimethyl phthalate	< 3600	U, D	µg/kg dry	3600		BRL				30
2,4-Dimethylphenol	< 3600	U, D	µg/kg dry	3600		BRL				30
Di-n-butyl phthalate	< 3600	U, D	µg/kg dry	3600		BRL				30
4,6-Dinitro-2-methylphenol	< 3600	U, D	µg/kg dry	3600		BRL				30
2,4-Dinitrophenol	< 3600	U, D	µg/kg dry	3600		BRL				30
2,4-Dinitrotoluene	< 1820	U, D	µg/kg dry	1820		BRL				30
2,6-Dinitrotoluene	< 1820	U, D	µg/kg dry	1820		BRL				30
Di-n-octyl phthalate	< 3600	U, D	µg/kg dry	3600		BRL				30
Fluoranthene	9270	QR5, D	µg/kg dry	727		6190			40	30
Fluorene	< 727	U, D	µg/kg dry	727		BRL				30
Hexachlorobenzene	< 1820	U, D	µg/kg dry	1820		BRL				30
Hexachlorobutadiene	< 1820	U, D	µg/kg dry	1820		BRL				30
Hexachlorocyclopentadiene	< 1820	U, D	µg/kg dry	1820		BRL				30
Hexachloroethane	< 1820	U, D	µg/kg dry	1820		BRL				30
Indeno (1,2,3-cd) pyrene	2100	QR5, D	µg/kg dry	727		3310			45	30
Isophorone	< 1820	U, D	µg/kg dry	1820		BRL				30
2-Methylnaphthalene	< 727	U, D	µg/kg dry	727		BRL				30
2-Methylphenol	< 3600	U, D	µg/kg dry	3600		BRL				30
3 & 4-Methylphenol	< 3600	U, D	µg/kg dry	3600		BRL				30
Naphthalene	< 727	U, D	µg/kg dry	727		BRL				30
2-Nitroaniline	< 3600	U, D	µg/kg dry	3600		BRL				30
3-Nitroaniline	< 3600	U, D	µg/kg dry	3600		BRL				30
4-Nitroaniline	< 1820	U, D	µg/kg dry	1820		BRL				30
Nitrobenzene	< 1820	U, D	µg/kg dry	1820		BRL				30
2-Nitrophenol	< 1820	U, D	µg/kg dry	1820		BRL				30
4-Nitrophenol	< 14400	U, D	µg/kg dry	14400		BRL				30
N-Nitrosodimethylamine	< 1820	U, D	µg/kg dry	1820		BRL				30
N-Nitrosodi-n-propylamine	< 1820	U, D	µg/kg dry	1820		BRL				30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813548 - SW846 3546										
<u>Duplicate (1813548-DUP1)</u>	<u>Source: SC50873-07</u>				<u>Prepared: 11-Oct-18 Analyzed: 14-Oct-18</u>					
N-Nitrosodiphenylamine	< 3600	U, D	µg/kg dry	3600		BRL				30
Pentachlorophenol	< 3600	U, D	µg/kg dry	3600		BRL				30
Phenanthrene	4620	QR5, D	µg/kg dry	727		3110			39	30
Phenol	< 3600	U, D	µg/kg dry	3600		BRL				30
Pyrene	5080	D	µg/kg dry	727		6370			22	30
Pyridine	< 3600	U, D	µg/kg dry	3600		BRL				30
1,2,4-Trichlorobenzene	< 3600	U, D	µg/kg dry	3600		BRL				30
1-Methylnaphthalene	< 727	U, D	µg/kg dry	727		BRL				30
2,4,5-Trichlorophenol	< 3600	U, D	µg/kg dry	3600		BRL				30
2,4,6-Trichlorophenol	< 1820	U, D	µg/kg dry	1820		BRL				30
Pentachloronitrobenzene	< 3600	U, D	µg/kg dry	3600		BRL				30
1,2,4,5-Tetrachlorobenzene	< 3600	U, D	µg/kg dry	3600		BRL				30
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1720</i>		µg/kg dry		<i>1820</i>		<i>95</i>	<i>30-130</i>		
<i>Surrogate: 2-Fluorophenol</i>	<i>1080</i>		µg/kg dry		<i>1820</i>		<i>59</i>	<i>30-130</i>		
<i>Surrogate: Nitrobenzene-d5</i>	<i>1130</i>		µg/kg dry		<i>1820</i>		<i>62</i>	<i>30-130</i>		
<i>Surrogate: Phenol-d5</i>	<i>970</i>		µg/kg dry		<i>1820</i>		<i>53</i>	<i>30-130</i>		
<i>Surrogate: Terphenyl-dl4</i>	<i>1120</i>		µg/kg dry		<i>1820</i>		<i>62</i>	<i>30-130</i>		
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>570</i>		µg/kg dry		<i>1820</i>		<i>31</i>	<i>30-130</i>		
<u>Matrix Spike (1813548-MS1)</u>	<u>Source: SC50873-04</u>				<u>Prepared: 11-Oct-18 Analyzed: 13-Oct-18</u>					
Acenaphthene	951	J, D	µg/kg dry	1470	1840	BRL	52	40-140		
Acenaphthylene	980	J, D	µg/kg dry	1470	1840	BRL	53	40-140		
Aniline	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		
Anthracene	1020	J, D	µg/kg dry	1470	1840	BRL	55	40-140		
Azobenzene/Diphenyldiazene	744	J, D	µg/kg dry	7300	1840	BRL	40	40-140		
Benzidine	< 14600	QC6, U, D	µg/kg dry	14600	1840	BRL	<1	40-140		
Benzo (a) anthracene	1890	D	µg/kg dry	1470	1840	843	57	40-140		
Benzo (a) pyrene	2520	D	µg/kg dry	1470	1840	1060	79	40-140		
Benzo (b) fluoranthene	2110	D	µg/kg dry	1470	1840	858	68	40-140		
Benzo (g,h,i) perylene	2450	D	µg/kg dry	1470	1840	998	79	40-140		
Benzo (k) fluoranthene	1880	D	µg/kg dry	1470	1840	BRL	102	40-140		
Benzoic acid	< 7300	QC6, U, D	µg/kg dry	7300	1840	BRL	<1	30-130		
Benzyl alcohol	781	J, D	µg/kg dry	7300	1840	BRL	42	40-140		
Bis(2-chloroethoxy)methane	656	QM7, J, D	µg/kg dry	7300	1840	BRL	36	40-140		
Bis(2-chloroethyl)ether	744	J, D	µg/kg dry	3690	1840	BRL	40	40-140		
Bis(2-chloroisopropyl)ether	663	QM7, J, D	µg/kg dry	3690	1840	BRL	36	40-140		
Bis(2-ethylhexyl)phthalate	1110	J, D	µg/kg dry	3690	1840	BRL	60	40-140		
4-Bromophenyl phenyl ether	870	J, D	µg/kg dry	7300	1840	BRL	47	40-140		
Butyl benzyl phthalate	1000	J, D	µg/kg dry	7300	1840	BRL	54	40-140		
Carbazole	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	40-140		
4-Chloro-3-methylphenol	1070	J, D	µg/kg dry	7300	1840	BRL	58	30-130		
4-Chloroaniline	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	40-140		
2-Chloronaphthalene	1170	J, D	µg/kg dry	7300	1840	BRL	64	40-140		
2-Chlorophenol	870	J, D	µg/kg dry	3690	1840	BRL	47	30-130		
4-Chlorophenyl phenyl ether	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		
Chrysene	1850	D	µg/kg dry	1470	1840	939	49	40-140		
Dibenzo (a,h) anthracene	1530	D	µg/kg dry	1470	1840	BRL	83	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Matrix Spike (1813548-MS1)				Source: SC50873-04				Prepared: 11-Oct-18 Analyzed: 13-Oct-18		
Dibenzofuran	1040	J, D	µg/kg dry	3690	1840	BRL	56	40-140		
1,2-Dichlorobenzene	1090	J, D	µg/kg dry	7300	1840	BRL	59	40-140		
1,3-Dichlorobenzene	1160	J, D	µg/kg dry	7300	1840	BRL	63	40-140		
1,4-Dichlorobenzene	1190	J, D	µg/kg dry	7300	1840	BRL	65	40-140		
3,3'-Dichlorobenzidine	< 7300	QC6, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		
2,4-Dichlorophenol	811	J, D	µg/kg dry	3690	1840	BRL	44	30-130		
Diethyl phthalate	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		
Dimethyl phthalate	1000	J, D	µg/kg dry	7300	1840	BRL	54	40-140		
2,4-Dimethylphenol	700	J, D	µg/kg dry	7300	1840	BRL	38	30-130		
Di-n-butyl phthalate	951	J, D	µg/kg dry	7300	1840	BRL	52	40-140		
4,6-Dinitro-2-methylphenol	1440	J, D	µg/kg dry	7300	1840	BRL	78	30-130		
2,4-Dinitrophenol	3060	QC6, J, D	µg/kg dry	7300	1840	BRL	166	30-130		
2,4-Dinitrotoluene	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	40-140		
2,6-Dinitrotoluene	870	J, D	µg/kg dry	3690	1840	BRL	47	40-140		
Di-n-octyl phthalate	1100	J, D	µg/kg dry	7300	1840	BRL	60	40-140		
Fluoranthene	1620	QM7, D	µg/kg dry	1470	1840	1560	3	40-140		
Fluorene	781	J, D	µg/kg dry	1470	1840	BRL	42	40-140		
Hexachlorobenzene	966	J, D	µg/kg dry	3690	1840	BRL	52	40-140		
Hexachlorobutadiene	1080	J, D	µg/kg dry	3690	1840	BRL	58	40-140		
Hexachlorocyclopentadiene	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	40-140		
Hexachloroethane	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	40-140		
Indeno (1,2,3-cd) pyrene	1820	D	µg/kg dry	1470	1840	636	64	40-140		
Isophorone	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	30-130		
2-Methylnaphthalene	1200	J, D	µg/kg dry	1470	1840	BRL	65	40-140		
2-Methylphenol	833	J, D	µg/kg dry	7300	1840	BRL	45	30-130		
3 & 4-Methylphenol	774	J, D	µg/kg dry	7300	1840	BRL	42	30-130		
Naphthalene	921	J, D	µg/kg dry	1470	1840	BRL	50	40-140		
2-Nitroaniline	899	J, D	µg/kg dry	7300	1840	BRL	49	40-140		
3-Nitroaniline	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		
4-Nitroaniline	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	40-140		
Nitrobenzene	1640	J, D	µg/kg dry	3690	1840	BRL	89	40-140		
2-Nitrophenol	< 3690	QM7, U, D	µg/kg dry	3690	1840	BRL	<1	30-130		
4-Nitrophenol	< 29200	QM7, U, D	µg/kg dry	29200	1840	BRL	<1	30-130		
N-Nitrosodimethylamine	752	J, D	µg/kg dry	3690	1840	BRL	41	40-140		
N-Nitrosodi-n-propylamine	1060	J, D	µg/kg dry	3690	1840	BRL	58	40-140		
N-Nitrosodiphenylamine	943	J, D	µg/kg dry	7300	1840	BRL	51	40-140		
Pentachlorophenol	1050	J, D	µg/kg dry	7300	1840	BRL	57	30-130		
Phenanthrene	1280	QM7, J, D	µg/kg dry	1470	1840	858	23	40-140		
Phenol	803	J, D	µg/kg dry	7300	1840	BRL	44	30-130		
Pyrene	2160	QM7, D	µg/kg dry	1470	1840	1780	21	40-140		
Pyridine	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		
1,2,4-Trichlorobenzene	1090	J, D	µg/kg dry	7300	1840	BRL	59	40-140		
1-Methylnaphthalene	1080	J, D	µg/kg dry	1470	1840	BRL	58	40-140		
2,4,5-Trichlorophenol	929	J, D	µg/kg dry	7300	1840	BRL	50	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Matrix Spike (1813548-MS1)			Source: SC50873-04		Prepared: 11-Oct-18 Analyzed: 13-Oct-18					
2,4,6-Trichlorophenol	767	J, D	µg/kg dry	3690	1840	BRL	42	30-130		
Pentachloronitrobenzene	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		
1,2,4,5-Tetrachlorobenzene	1010	J, D	µg/kg dry	7300	1840	BRL	55	40-140		
Surrogate: 2-Fluorobiphenyl	1070		µg/kg dry		1840		58	30-130		
Surrogate: 2-Fluorophenol	722		µg/kg dry		1840		39	30-130		
Surrogate: Nitrobenzene-d5	973		µg/kg dry		1840		53	30-130		
Surrogate: Phenol-d5	1020		µg/kg dry		1840		55	30-130		
Surrogate: Terphenyl-dl4	1550		µg/kg dry		1840		84	30-130		
Surrogate: 2,4,6-Tribromophenol	641		µg/kg dry		1840		35	30-130		
Matrix Spike Dup (1813548-MSD1)			Source: SC50873-04		Prepared: 11-Oct-18 Analyzed: 13-Oct-18					
Acenaphthene	848	J, D	µg/kg dry	1480	1840	BRL	46	40-140	11	30
Acenaphthylene	< 1480	QM7, U, D	µg/kg dry	1480	1840	BRL	<1	40-140		30
Aniline	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Anthracene	833	J, D	µg/kg dry	1480	1840	BRL	45	40-140	20	30
Azobenzene/Diphenyldiazene	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Benzidine	< 14600	QC6, U, D	µg/kg dry	14600	1840	BRL	<1	40-140		30
Benzo (a) anthracene	1670	D	µg/kg dry	1480	1840	843	45	40-140	12	30
Benzo (a) pyrene	1860	D	µg/kg dry	1480	1840	1060	43	40-140	30	30
Benzo (b) fluoranthene	1230	QM7, QR9, J, D	µg/kg dry	1480	1840	858	20	40-140	52	30
Benzo (g,h,i) perylene	1840	D	µg/kg dry	1480	1840	998	46	40-140	28	30
Benzo (k) fluoranthene	1380	QR9, J, D	µg/kg dry	1480	1840	BRL	75	40-140	31	30
Benzoic acid	< 7300	QC6, U, D	µg/kg dry	7300	1840	BRL	<1	30-130		30
Benzyl alcohol	< 7300	QC6, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Bis(2-chloroethoxy)methane	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Bis(2-chloroethyl)ether	634	QM7, J, D	µg/kg dry	3700	1840	BRL	34	40-140	16	30
Bis(2-chloroisopropyl)ether	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
Bis(2-ethylhexyl)phthalate	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
4-Bromophenyl phenyl ether	686	QM7, J, D	µg/kg dry	7300	1840	BRL	37	40-140	24	30
Butyl benzyl phthalate	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Carbazole	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
4-Chloro-3-methylphenol	715	QR9, J, D	µg/kg dry	7300	1840	BRL	39	30-130	40	30
4-Chloroaniline	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
2-Chloronaphthalene	892	J, D	µg/kg dry	7300	1840	BRL	48	40-140	27	30
2-Chlorophenol	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	30-130		30
4-Chlorophenyl phenyl ether	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Chrysene	1780	D	µg/kg dry	1480	1840	939	46	40-140	4	30
Dibenzo (a,h) anthracene	1210	J, D	µg/kg dry	1480	1840	BRL	66	40-140	23	30
Dibenzofuran	892	J, D	µg/kg dry	3700	1840	BRL	48	40-140	15	30
1,2-Dichlorobenzene	841	J, D	µg/kg dry	7300	1840	BRL	46	40-140	26	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Matrix Spike Dup (1813548-MSD1)				Source: SC50873-04				Prepared: 11-Oct-18 Analyzed: 13-Oct-18		
1,3-Dichlorobenzene	863	J, D	µg/kg dry	7300	1840	BRL	47	40-140	29	30
1,4-Dichlorobenzene	959	J, D	µg/kg dry	7300	1840	BRL	52	40-140	22	30
3,3'-Dichlorobenzidine	< 7300	QC6, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
2,4-Dichlorophenol	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	30-130		30
Diethyl phthalate	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Dimethyl phthalate	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
2,4-Dimethylphenol	597	J, D	µg/kg dry	7300	1840	BRL	32	30-130	16	30
Di-n-butyl phthalate	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
4,6-Dinitro-2-methylphenol	1440	J, D	µg/kg dry	7300	1840	BRL	78	30-130	0.5	30
2,4-Dinitrophenol	< 7300	QC6, U, D	µg/kg dry	7300	1840	BRL	<1	30-130		30
2,4-Dinitrotoluene	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
2,6-Dinitrotoluene	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
Di-n-octyl phthalate	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Fluoranthene	1640	QM7, D	µg/kg dry	1480	1840	1560	4	40-140	1	30
Fluorene	782	J, D	µg/kg dry	1480	1840	BRL	42	40-140	0.06	30
Hexachlorobenzene	767	J, D	µg/kg dry	3700	1840	BRL	42	40-140	23	30
Hexachlorobutadiene	996	J, D	µg/kg dry	3700	1840	BRL	54	40-140	8	30
Hexachlorocyclopentadiene	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
Hexachloroethane	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
Indeno (1,2,3-cd) pyrene	1590	D	µg/kg dry	1480	1840	636	52	40-140	14	30
Isophorone	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	30-130		30
2-Methylnaphthalene	< 1480	QM7, U, D	µg/kg dry	1480	1840	BRL	<1	40-140		30
2-Methylphenol	679	J, D	µg/kg dry	7300	1840	BRL	37	30-130	20	30
3 & 4-Methylphenol	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	30-130		30
Naphthalene	738	J, D	µg/kg dry	1480	1840	BRL	40	40-140	22	30
2-Nitroaniline	686	QM7, J, D	µg/kg dry	7300	1840	BRL	37	40-140	27	30
3-Nitroaniline	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
4-Nitroaniline	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
Nitrobenzene	1200	QR9, J, D	µg/kg dry	3700	1840	BRL	65	40-140	31	30
2-Nitrophenol	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	30-130		30
4-Nitrophenol	< 29200	QM7, U, D	µg/kg dry	29200	1840	BRL	<1	30-130		30
N-Nitrosodimethylamine	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	40-140		30
N-Nitrosodi-n-propylamine	789	J, D	µg/kg dry	3700	1840	BRL	43	40-140	29	30
N-Nitrosodiphenylamine	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
Pentachlorophenol	974	J, D	µg/kg dry	7300	1840	BRL	53	30-130	7	30
Phenanthrene	1430	QM7, J, D	µg/kg dry	1480	1840	858	31	40-140	12	30
Phenol	671	J, D	µg/kg dry	7300	1840	BRL	36	30-130	18	30
Pyrene	1980	QM7, D	µg/kg dry	1480	1840	1780	11	40-140	8	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813548 - SW846 3546										
Matrix Spike Dup (1813548-MSD1)	Source: SC50873-04				Prepared: 11-Oct-18 Analyzed: 13-Oct-18					
Pyridine	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
1,2,4-Trichlorobenzene	833	J, D	µg/kg dry	7300	1840	BRL	45	40-140	27	30
1-Methylnaphthalene	760	QR9, J, D	µg/kg dry	1480	1840	BRL	41	40-140	34	30
2,4,5-Trichlorophenol	701	J, D	µg/kg dry	7300	1840	BRL	38	30-130	28	30
2,4,6-Trichlorophenol	< 3700	QM7, U, D	µg/kg dry	3700	1840	BRL	<1	30-130		30
Pentachloronitrobenzene	< 7300	QM7, U, D	µg/kg dry	7300	1840	BRL	<1	40-140		30
1,2,4,5-Tetrachlorobenzene	774	J, D	µg/kg dry	7300	1840	BRL	42	40-140	26	30
Surrogate: 2-Fluorobiphenyl	826		µg/kg dry		1840		45	30-130		
Surrogate: 2-Fluorophenol	494	S01	µg/kg dry		1840		27	30-130		
Surrogate: Nitrobenzene-d5	738		µg/kg dry		1840		40	30-130		
Surrogate: Phenol-d5	752		µg/kg dry		1840		41	30-130		
Surrogate: Terphenyl-d14	1200		µg/kg dry		1840		65	30-130		
Surrogate: 2,4,6-Tribromophenol	531	S01	µg/kg dry		1840		29	30-130		
Batch 1813793 - SW846 3546										
Blank (1813793-BLK1)	Prepared: 17-Oct-18 Analyzed: 18-Oct-18									
Acenaphthene	< 66.4	U	µg/kg wet	66.4						
Acenaphthylene	< 66.4	U	µg/kg wet	66.4						
Aniline	< 329	U	µg/kg wet	329						
Anthracene	< 66.4	U	µg/kg wet	66.4						
Azobenzene/Diphenyldiazene	< 329	U	µg/kg wet	329						
Benzidine	< 657	U	µg/kg wet	657						
Benzo (a) anthracene	< 66.4	U	µg/kg wet	66.4						
Benzo (a) pyrene	< 66.4	U	µg/kg wet	66.4						
Benzo (b) fluoranthene	< 66.4	U	µg/kg wet	66.4						
Benzo (g,h,i) perylene	< 66.4	U	µg/kg wet	66.4						
Benzo (k) fluoranthene	< 66.4	U	µg/kg wet	66.4						
Benzoic acid	< 329	U	µg/kg wet	329						
Benzyl alcohol	< 329	U	µg/kg wet	329						
Bis(2-chloroethoxy)methane	< 329	U	µg/kg wet	329						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 329	U	µg/kg wet	329						
Butyl benzyl phthalate	< 329	U	µg/kg wet	329						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 329	U	µg/kg wet	329						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 329	U	µg/kg wet	329						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 329	U	µg/kg wet	329						
Chrysene	< 66.4	U	µg/kg wet	66.4						
Dibenzo (a,h) anthracene	< 66.4	U	µg/kg wet	66.4						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,3-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,4-Dichlorobenzene	< 329	U	µg/kg wet	329						
3,3'-Dichlorobenzidine	< 329	U	µg/kg wet	329						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813793 - SW846 3546										
<u>Blank (1813793-BLK1)</u>	<u>Prepared: 17-Oct-18 Analyzed: 18-Oct-18</u>									
Diethyl phthalate	< 329	U	µg/kg wet	329						
Dimethyl phthalate	< 329	U	µg/kg wet	329						
2,4-Dimethylphenol	< 329	U	µg/kg wet	329						
Di-n-butyl phthalate	< 329	U	µg/kg wet	329						
4,6-Dinitro-2-methylphenol	< 329	U	µg/kg wet	329						
2,4-Dinitrophenol	< 329	U	µg/kg wet	329						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 329	U	µg/kg wet	329						
Fluoranthene	< 66.4	U	µg/kg wet	66.4						
Fluorene	< 66.4	U	µg/kg wet	66.4						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.4	U	µg/kg wet	66.4						
Isophorone	< 166	U	µg/kg wet	166						
2-Methylnaphthalene	< 66.4	U	µg/kg wet	66.4						
2-Methylphenol	< 329	U	µg/kg wet	329						
3 & 4-Methylphenol	< 329	U	µg/kg wet	329						
Naphthalene	< 66.4	U	µg/kg wet	66.4						
2-Nitroaniline	< 329	U	µg/kg wet	329						
3-Nitroaniline	< 329	U	µg/kg wet	329						
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 329	U	µg/kg wet	329						
Pentachlorophenol	< 329	U	µg/kg wet	329						
Phenanthrene	< 66.4	U	µg/kg wet	66.4						
Phenol	< 329	U	µg/kg wet	329						
Pyrene	< 66.4	U	µg/kg wet	66.4						
Pyridine	< 329	U	µg/kg wet	329						
1,2,4-Trichlorobenzene	< 329	U	µg/kg wet	329						
1-Methylnaphthalene	< 66.4	U	µg/kg wet	66.4						
2,4,5-Trichlorophenol	< 329	U	µg/kg wet	329						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 329	U	µg/kg wet	329						
1,2,4,5-Tetrachlorobenzene	< 329	U	µg/kg wet	329						
Surrogate: 2-Fluorobiphenyl	1220		µg/kg wet		1660		74	30-130		
Surrogate: 2-Fluorophenol	1160		µg/kg wet		1660		70	30-130		
Surrogate: Nitrobenzene-d5	1270		µg/kg wet		1660		76	30-130		
Surrogate: Phenol-d5	1180		µg/kg wet		1660		71	30-130		
Surrogate: Terphenyl-dl4	1380		µg/kg wet		1660		83	30-130		
Surrogate: 2,4,6-Tribromophenol	853		µg/kg wet		1660		51	30-130		
<u>LCS (1813793-BS1)</u>	<u>Prepared: 17-Oct-18 Analyzed: 18-Oct-18</u>									
Acenaphthene	1540		µg/kg wet	66.3	1660		93	40-140		
Acenaphthylene	1680		µg/kg wet	66.3	1660		102	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813793 - SW846 3546										
LCS (1813793-BS1)					Prepared: 17-Oct-18 Analyzed: 18-Oct-18					
Aniline	908		µg/kg wet	328	1660		55	40-140		
Anthracene	1390		µg/kg wet	66.3	1660		84	40-140		
Azobenzene/Diphenyldiazene	1560		µg/kg wet	328	1660		94	40-140		
Benzidine	3060	QC2, E	µg/kg wet	656	1660		185	40-140		
Benzo (a) anthracene	1400		µg/kg wet	66.3	1660		84	40-140		
Benzo (a) pyrene	1340		µg/kg wet	66.3	1660		81	40-140		
Benzo (b) fluoranthene	1360		µg/kg wet	66.3	1660		82	40-140		
Benzo (g,h,i) perylene	1320		µg/kg wet	66.3	1660		80	40-140		
Benzo (k) fluoranthene	1100		µg/kg wet	66.3	1660		67	40-140		
Benzoic acid	334	QC6	µg/kg wet	328	1660		20	30-130		
Benzyl alcohol	818		µg/kg wet	328	1660		49	40-140		
Bis(2-chloroethoxy)methane	1140		µg/kg wet	328	1660		69	40-140		
Bis(2-chloroethyl)ether	1410		µg/kg wet	166	1660		85	40-140		
Bis(2-chloroisopropyl)ether	1160		µg/kg wet	166	1660		70	40-140		
Bis(2-ethylhexyl)phthalate	1560		µg/kg wet	166	1660		94	40-140		
4-Bromophenyl phenyl ether	1240		µg/kg wet	328	1660		75	40-140		
Butyl benzyl phthalate	1670		µg/kg wet	328	1660		101	40-140		
Carbazole	2500	QC2	µg/kg wet	166	1660		151	40-140		
4-Chloro-3-methylphenol	1660		µg/kg wet	328	1660		100	30-130		
4-Chloroaniline	1180		µg/kg wet	166	1660		71	40-140		
2-Chloronaphthalene	1710		µg/kg wet	328	1660		103	40-140		
2-Chlorophenol	1330		µg/kg wet	166	1660		80	30-130		
4-Chlorophenyl phenyl ether	1600		µg/kg wet	328	1660		97	40-140		
Chrysene	1560		µg/kg wet	66.3	1660		94	40-140		
Dibenzo (a,h) anthracene	1400		µg/kg wet	66.3	1660		85	40-140		
Dibenzofuran	1680		µg/kg wet	166	1660		102	40-140		
1,2-Dichlorobenzene	1400		µg/kg wet	328	1660		84	40-140		
1,3-Dichlorobenzene	1380		µg/kg wet	328	1660		83	40-140		
1,4-Dichlorobenzene	1440		µg/kg wet	328	1660		87	40-140		
3,3'-Dichlorobenzidine	2140		µg/kg wet	328	1660		129	40-140		
2,4-Dichlorophenol	1330		µg/kg wet	166	1660		80	30-130		
Diethyl phthalate	1720		µg/kg wet	328	1660		104	40-140		
Dimethyl phthalate	1650		µg/kg wet	328	1660		99	40-140		
2,4-Dimethylphenol	1290		µg/kg wet	328	1660		78	30-130		
Di-n-butyl phthalate	1370		µg/kg wet	328	1660		83	40-140		
4,6-Dinitro-2-methylphenol	1360		µg/kg wet	328	1660		82	30-130		
2,4-Dinitrophenol	874		µg/kg wet	328	1660		53	30-130		
2,4-Dinitrotoluene	1800		µg/kg wet	166	1660		109	40-140		
2,6-Dinitrotoluene	1830		µg/kg wet	166	1660		110	40-140		
Di-n-octyl phthalate	1440		µg/kg wet	328	1660		87	40-140		
Fluoranthene	1330		µg/kg wet	66.3	1660		80	40-140		
Fluorene	1540		µg/kg wet	66.3	1660		93	40-140		
Hexachlorobenzene	1540		µg/kg wet	166	1660		93	40-140		
Hexachlorobutadiene	1440		µg/kg wet	166	1660		87	40-140		
Hexachlorocyclopentadiene	2110		µg/kg wet	166	1660		127	40-140		
Hexachloroethane	1610		µg/kg wet	166	1660		97	40-140		
Indeno (1,2,3-cd) pyrene	1310		µg/kg wet	66.3	1660		79	40-140		
Isophorone	1320		µg/kg wet	166	1660		80	40-140		
2-Methylnaphthalene	2010		µg/kg wet	66.3	1660		121	40-140		
2-Methylphenol	1190		µg/kg wet	328	1660		72	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813793 - SW846 3546										
LCS (1813793-BS1)					Prepared: 17-Oct-18 Analyzed: 18-Oct-18					
3 & 4-Methylphenol	1350		µg/kg wet	328	1660		82	30-130		
Naphthalene	1390		µg/kg wet	66.3	1660		84	40-140		
2-Nitroaniline	1500		µg/kg wet	328	1660		90	40-140		
3-Nitroaniline	2030		µg/kg wet	328	1660		123	40-140		
4-Nitroaniline	1850		µg/kg wet	166	1660		111	40-140		
Nitrobenzene	1850		µg/kg wet	166	1660		112	40-140		
2-Nitrophenol	1310		µg/kg wet	166	1660		79	30-130		
4-Nitrophenol	1320		µg/kg wet	1310	1660		80	30-130		
N-Nitrosodimethylamine	1650		µg/kg wet	166	1660		100	40-140		
N-Nitrosodi-n-propylamine	1410		µg/kg wet	166	1660		85	40-140		
N-Nitrosodiphenylamine	1710		µg/kg wet	328	1660		103	40-140		
Pentachlorophenol	533		µg/kg wet	328	1660		32	30-130		
Phenanthrene	1690		µg/kg wet	66.3	1660		102	40-140		
Phenol	1510		µg/kg wet	328	1660		91	30-130		
Pyrene	1480		µg/kg wet	66.3	1660		89	40-140		
Pyridine	1450		µg/kg wet	328	1660		88	40-140		
1,2,4-Trichlorobenzene	1520		µg/kg wet	328	1660		92	40-140		
1-Methylnaphthalene	1650		µg/kg wet	66.3	1660		100	40-140		
2,4,5-Trichlorophenol	1560		µg/kg wet	328	1660		94	30-130		
2,4,6-Trichlorophenol	1330		µg/kg wet	166	1660		80	30-130		
Pentachloronitrobenzene	1580		µg/kg wet	328	1660		95	40-140		
1,2,4,5-Tetrachlorobenzene	1550		µg/kg wet	328	1660		94	40-140		
Surrogate: 2-Fluorobiphenyl	1670		µg/kg wet		1660		101	30-130		
Surrogate: 2-Fluorophenol	1520		µg/kg wet		1660		92	30-130		
Surrogate: Nitrobenzene-d5	1690		µg/kg wet		1660		102	30-130		
Surrogate: Phenol-d5	1830		µg/kg wet		1660		110	30-130		
Surrogate: Terphenyl-d14	1750		µg/kg wet		1660		106	30-130		
Surrogate: 2,4,6-Tribromophenol	1480		µg/kg wet		1660		90	30-130		
LCS Dup (1813793-BSD1)					Prepared: 17-Oct-18 Analyzed: 18-Oct-18					
Acenaphthene	1520		µg/kg wet	65.8	1650		92	40-140	1	30
Acenaphthylene	1460		µg/kg wet	65.8	1650		89	40-140	14	30
Aniline	978		µg/kg wet	326	1650		59	40-140	7	30
Anthracene	1440		µg/kg wet	65.8	1650		88	40-140	4	30
Azobenzene/Diphenyldiazene	1730		µg/kg wet	326	1650		105	40-140	10	30
Benzidine	1860	QR9	µg/kg wet	651	1650		113	40-140	49	30
Benzo (a) anthracene	1440		µg/kg wet	65.8	1650		88	40-140	3	30
Benzo (a) pyrene	1260		µg/kg wet	65.8	1650		76	40-140	6	30
Benzo (b) fluoranthene	1240		µg/kg wet	65.8	1650		76	40-140	9	30
Benzo (g,h,i) perylene	1220		µg/kg wet	65.8	1650		74	40-140	8	30
Benzo (k) fluoranthene	1380		µg/kg wet	65.8	1650		84	40-140	23	30
Benzoic acid	336	QC6	µg/kg wet	326	1650		20	30-130	0.7	30
Benzyl alcohol	761		µg/kg wet	326	1650		46	40-140	7	30
Bis(2-chloroethoxy)methane	1060		µg/kg wet	326	1650		65	40-140	7	30
Bis(2-chloroethyl)ether	1200		µg/kg wet	165	1650		73	40-140	16	30
Bis(2-chloroisopropyl)ether	1210		µg/kg wet	165	1650		74	40-140	4	30
Bis(2-ethylhexyl)phthalate	1560		µg/kg wet	165	1650		95	40-140	0.1	30
4-Bromophenyl phenyl ether	1330		µg/kg wet	326	1650		81	40-140	7	30
Butyl benzyl phthalate	1540		µg/kg wet	326	1650		94	40-140	8	30
Carbazole	3100	QC2	µg/kg wet	165	1650		189	40-140	21	30
4-Chloro-3-methylphenol	1580		µg/kg wet	326	1650		96	30-130	5	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813793 - SW846 3546										
LCS Dup (1813793-BSD1)	Prepared: 17-Oct-18 Analyzed: 18-Oct-18									
4-Chloroaniline	1000		µg/kg wet	165	1650		61	40-140	16	30
2-Chloronaphthalene	1640		µg/kg wet	326	1650		100	40-140	4	30
2-Chlorophenol	1220		µg/kg wet	165	1650		74	30-130	9	30
4-Chlorophenyl phenyl ether	1500		µg/kg wet	326	1650		91	40-140	6	30
Chrysene	1580		µg/kg wet	65.8	1650		96	40-140	1	30
Dibenzo (a,h) anthracene	1410		µg/kg wet	65.8	1650		86	40-140	0.4	30
Dibenzofuran	1540		µg/kg wet	165	1650		93	40-140	9	30
1,2-Dichlorobenzene	1600		µg/kg wet	326	1650		97	40-140	14	30
1,3-Dichlorobenzene	1370		µg/kg wet	326	1650		84	40-140	0.7	30
1,4-Dichlorobenzene	1450		µg/kg wet	326	1650		88	40-140	0.8	30
3,3'-Dichlorobenzidine	1910		µg/kg wet	326	1650		116	40-140	12	30
2,4-Dichlorophenol	1190		µg/kg wet	165	1650		72	30-130	11	30
Diethyl phthalate	1630		µg/kg wet	326	1650		99	40-140	5	30
Dimethyl phthalate	1510		µg/kg wet	326	1650		92	40-140	9	30
2,4-Dimethylphenol	1210		µg/kg wet	326	1650		74	30-130	7	30
Di-n-butyl phthalate	1720		µg/kg wet	326	1650		105	40-140	22	30
4,6-Dinitro-2-methylphenol	1420		µg/kg wet	326	1650		86	30-130	4	30
2,4-Dinitrophenol	750		µg/kg wet	326	1650		46	30-130	15	30
2,4-Dinitrotoluene	1700		µg/kg wet	165	1650		103	40-140	6	30
2,6-Dinitrotoluene	1770		µg/kg wet	165	1650		108	40-140	3	30
Di-n-octyl phthalate	1420		µg/kg wet	326	1650		86	40-140	1	30
Fluoranthene	1470		µg/kg wet	65.8	1650		89	40-140	10	30
Fluorene	1450		µg/kg wet	65.8	1650		88	40-140	6	30
Hexachlorobenzene	1780		µg/kg wet	165	1650		108	40-140	14	30
Hexachlorobutadiene	1410		µg/kg wet	165	1650		86	40-140	2	30
Hexachlorocyclopentadiene	1860		µg/kg wet	165	1650		113	40-140	13	30
Hexachloroethane	1570		µg/kg wet	165	1650		95	40-140	3	30
Indeno (1,2,3-cd) pyrene	1210		µg/kg wet	65.8	1650		74	40-140	8	30
Isophorone	1240		µg/kg wet	165	1650		76	40-140	6	30
2-Methylnaphthalene	1860		µg/kg wet	65.8	1650		113	40-140	8	30
2-Methylphenol	1200		µg/kg wet	326	1650		73	30-130	1	30
3 & 4-Methylphenol	1500		µg/kg wet	326	1650		91	30-130	10	30
Naphthalene	1370		µg/kg wet	65.8	1650		84	40-140	1	30
2-Nitroaniline	1440		µg/kg wet	326	1650		88	40-140	4	30
3-Nitroaniline	1800		µg/kg wet	326	1650		110	40-140	12	30
4-Nitroaniline	1820		µg/kg wet	165	1650		111	40-140	2	30
Nitrobenzene	1760		µg/kg wet	165	1650		107	40-140	5	30
2-Nitrophenol	1220		µg/kg wet	165	1650		74	30-130	7	30
4-Nitrophenol	1180	J	µg/kg wet	1300	1650		72	30-130	11	30
N-Nitrosodimethylamine	1510		µg/kg wet	165	1650		92	40-140	9	30
N-Nitrosodi-n-propylamine	1440		µg/kg wet	165	1650		88	40-140	2	30
N-Nitrosodiphenylamine	1850		µg/kg wet	326	1650		112	40-140	8	30
Pentachlorophenol	582		µg/kg wet	326	1650		35	30-130	9	30
Phenanthrene	1570		µg/kg wet	65.8	1650		95	40-140	7	30
Phenol	1350		µg/kg wet	326	1650		82	30-130	11	30
Pyrene	1440		µg/kg wet	65.8	1650		88	40-140	3	30
Pyridine	1370		µg/kg wet	326	1650		83	40-140	6	30
1,2,4-Trichlorobenzene	1510		µg/kg wet	326	1650		92	40-140	0.7	30
1-Methylnaphthalene	1560		µg/kg wet	65.8	1650		95	40-140	6	30
2,4,5-Trichlorophenol	1470		µg/kg wet	326	1650		89	30-130	6	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813793 - SW846 3546										
<u>LCS Dup (1813793-BSD1)</u>					<u>Prepared: 17-Oct-18 Analyzed: 18-Oct-18</u>					
2,4,6-Trichlorophenol	1240		µg/kg wet	165	1650		75	30-130	7	30
Pentachloronitrobenzene	1690		µg/kg wet	326	1650		103	40-140	7	30
1,2,4,5-Tetrachlorobenzene	1390		µg/kg wet	326	1650		84	40-140	11	30
Surrogate: 2-Fluorobiphenyl	1630		µg/kg wet		1650		99	30-130		
Surrogate: 2-Fluorophenol	1290		µg/kg wet		1650		79	30-130		
Surrogate: Nitrobenzene-d5	1580		µg/kg wet		1650		96	30-130		
Surrogate: Phenol-d5	1560		µg/kg wet		1650		95	30-130		
Surrogate: Terphenyl-d14	1680		µg/kg wet		1650		102	30-130		
Surrogate: 2,4,6-Tribromophenol	1450		µg/kg wet		1650		88	30-130		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SM2540 G (11) Mod.</u>										
Batch 1813385 - General Preparation										
<u>Duplicate (1813385-DUP1)</u>						<u>Source: SC50873-07</u>		<u>Prepared & Analyzed: 05-Oct-18</u>		
% Solids	89.8		%			90.6			0.9	5
<u>Duplicate (1813385-DUP2)</u>						<u>Source: SC50873-08</u>		<u>Prepared & Analyzed: 05-Oct-18</u>		
% Solids	88.9		%			87.6			1	5

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450906A - SW8260C										
BLK (CB66976-BLK)	Prepared: Analyzed: 07-Oct-18									
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
Acetone	ND		ug/kg	10			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450906A - SW8260C										
BLK (CB66976-BLK)	Prepared: Analyzed: 07-Oct-18									
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Surrogate: % Bromofluorobenzene	97		ug/kg		50		97	70-130		
Surrogate: % Toluene-d8	95		ug/kg		50		95	70-130		
Surrogate: % Dibromofluoromethane	101		ug/kg		50		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	97		ug/kg		50		97	70-130		
LCS (CB66976-LCS)	Prepared: Analyzed: 07-Oct-18									
2-Isopropyltoluene	53.18		ug/kg	5.0	50		106	70-130		30
n-Butylbenzene	55.83		ug/kg	1.0	50		112	70-130		30
n-Propylbenzene	56.38		ug/kg	1.0	50		113	70-130		30
Methylene chloride	50.50		ug/kg	5.0	50		101	70-130		30
Methyl t-butyl ether (MTBE)	58.03		ug/kg	1.0	50		116	70-130		30
Methyl Ethyl Ketone	46.00		ug/kg	5.0	50		92	70-130		30
Naphthalene	59.23		ug/kg	5.0	50		118	70-130		30
m&p-Xylene	109.2		ug/kg	2.0	100		109	70-130		30
Isopropylbenzene	57.89		ug/kg	1.0	50		116	70-130		30
Hexachlorobutadiene	56.17		ug/kg	5.0	50		112	70-130		30
Ethylbenzene	56.01		ug/kg	1.0	50		112	70-130		30
Dibromomethane	57.30		ug/kg	5.0	50		115	70-130		30
Dibromochloromethane	64.39		ug/kg	3.0	50		129	70-130		30
o-Xylene	57.75		ug/kg	2.0	50		115	70-130		30
Trichlorotrifluoroethane	54.13		ug/kg	5.0	50		108	70-130		30
Dichlorodifluoromethane	49.35		ug/kg	5.0	50		99	70-130		30
p-Isopropyltoluene	56.97		ug/kg	1.0	50		114	70-130		30
sec-Butylbenzene	58.55		ug/kg	1.0	50		117	70-130		30
Styrene	56.01		ug/kg	5.0	50		112	70-130		30
tert-Butylbenzene	57.32		ug/kg	1.0	50		115	70-130		30
Tetrachloroethene	55.97		ug/kg	5.0	50		112	70-130		30
Tetrahydrofuran (THF)	124.5		ug/kg	5.0	125		100	70-130		30
1,3,5-Trimethylbenzene	55.00		ug/kg	1.0	50		110	70-130		30
cis-1,3-Dichloropropene	58.06		ug/kg	5.0	50		116	70-130		30
Toluene	56.48		ug/kg	1.0	50		113	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8260C</u>										
Batch 450906A - SW8260C										
<u>LCS (CB66976-LCS)</u>	Prepared: Analyzed: 07-Oct-18									
trans-1,2-Dichloroethene	54.23		ug/kg	5.0	50		108	70-130		30
trans-1,3-Dichloropropene	56.82		ug/kg	5.0	50		114	70-130		30
trans-1,4-dichloro-2-butene	293.3		ug/kg	5.0	250		117	70-130		30
Trichlorofluoromethane	49.49		ug/kg	5.0	50		99	70-130		30
Vinyl chloride	50.63		ug/kg	5.0	50		101	70-130		30
Trichloroethene	58.55		ug/kg	5.0	50		117	70-130		30
1,2,3-Trichlorobenzene	54.82		ug/kg	5.0	50		110	70-130		30
1,3-Dichlorobenzene	53.99		ug/kg	5.0	50		108	70-130		30
1,2-Dichloropropane	56.73		ug/kg	5.0	50		113	70-130		30
1,2-Dichloroethane	55.60		ug/kg	5.0	50		111	70-130		30
1,2-Dichlorobenzene	54.22		ug/kg	5.0	50		108	70-130		30
1,2-Dibromoethane	57.80		ug/kg	5.0	50		116	70-130		30
1,2-Dibromo-3-chloropropane	61.57		ug/kg	5.0	50		123	70-130		30
1,2,4-Trimethylbenzene	55.34		ug/kg	1.0	50		111	70-130		30
1,4-Dichlorobenzene	52.94		ug/kg	5.0	50		106	70-130		30
1,2,3-Trichloropropane	50.90		ug/kg	5.0	50		102	70-130		30
1,1,1-Trichloroethane	57.92		ug/kg	5.0	50		116	70-130		30
1,1-Dichloropropene	58.20		ug/kg	5.0	50		116	70-130		30
1,1-Dichloroethene	58.49		ug/kg	5.0	50		117	70-130		30
1,1-Dichloroethane	59.24		ug/kg	5.0	50		118	70-130		30
1,1,2-Trichloroethane	56.10		ug/kg	5.0	50		112	70-130		30
1,1,2,2-Tetrachloroethane	56.53		ug/kg	3.0	50		113	70-130		30
1,1,1,2-Tetrachloroethane	59.16		ug/kg	5.0	50		118	70-130		30
1,3-Dichloropropane	54.81		ug/kg	5.0	50		110	70-130		30
cis-1,2-Dichloroethene	57.41		ug/kg	5.0	50		115	70-130		30
1,2,4-Trichlorobenzene	52.18		ug/kg	5.0	50		104	70-130		30
Chloroform	56.50		ug/kg	5.0	50		113	70-130		30
Chloromethane	46.63		ug/kg	5.0	50		93	70-130		30
2,2-Dichloropropane	60.54		ug/kg	5.0	50		121	70-130		30
Chloroethane	50.96		ug/kg	5.0	50		102	70-130		30
Chlorobenzene	55.58		ug/kg	5.0	50		111	70-130		30
Carbon tetrachloride	60.48		ug/kg	5.0	50		121	70-130		30
Carbon Disulfide	57.67		ug/kg	5.0	50		115	70-130		30
Bromomethane	46.81		ug/kg	5.0	50		94	70-130		30
Bromoform	62.26		ug/kg	5.0	50		125	70-130		30
Bromodichloromethane	60.18		ug/kg	5.0	50		120	70-130		30
Bromochloromethane	57.51		ug/kg	5.0	50		115	70-130		30
Benzene	56.27		ug/kg	1.0	50		113	70-130		30
Acrylonitrile	51.52		ug/kg	5.0	50		103	70-130		30
Acetone	35.76		ug/kg	10	50		72	70-130		30
4-Methyl-2-pentanone	48.83		ug/kg	25	50		98	70-130		30
4-Chlorotoluene	53.72		ug/kg	5.0	50		107	70-130		30
2-Hexanone	45.82		ug/kg	25	50		92	70-130		30
2-Chlorotoluene	55.90		ug/kg	5.0	50		112	70-130		30
Bromobenzene	55.86		ug/kg	5.0	50		112	70-130		30
Surrogate: % Dibromofluoromethane	50.16		ug/kg		50		100	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	51.11		ug/kg		50		102	70-130		
Surrogate: % Toluene-d8	50.71		ug/kg		50		101	70-130		
Surrogate: % Bromofluorobenzene	50.04		ug/kg		50		100	70-130		
<u>LCSD (CB66976-LCSD)</u>	Prepared: Analyzed: 07-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450906A - SW8260C										
LCSD (CB66976-LCSD)	Prepared: Analyzed: 07-Oct-18									
2-Isopropyltoluene	51.82		ug/kg	5.0	50		104	70-130	1.9	30
1,3,5-Trimethylbenzene	53.68		ug/kg	1.0	50		107	70-130	2.8	30
4-Chlorotoluene	52.85		ug/kg	5.0	50		106	70-130	0.9	30
Acetone	35.74		ug/kg	10	50		71	70-130	1.4	30
2-Hexanone	44.90		ug/kg	25	50		90	70-130	2.2	30
Acrylonitrile	51.40		ug/kg	5.0	50		103	70-130	0.0	30
2-Chlorotoluene	53.92		ug/kg	5.0	50		108	70-130	3.6	30
4-Methyl-2-pentanone	48.04		ug/kg	25	50		96	70-130	2.1	30
2,2-Dichloropropane	57.30		ug/kg	5.0	50		115	70-130	5.1	30
1,4-Dichlorobenzene	52.08		ug/kg	5.0	50		104	70-130	1.9	30
Benzene	54.40		ug/kg	1.0	50		109	70-130	3.6	30
1,3-Dichlorobenzene	52.91		ug/kg	5.0	50		106	70-130	1.9	30
Carbon tetrachloride	57.61		ug/kg	5.0	50		115	70-130	5.1	30
1,2-Dichloropropane	54.96		ug/kg	5.0	50		110	70-130	2.7	30
1,2-Dichloroethane	54.44		ug/kg	5.0	50		109	70-130	1.8	30
1,2-Dichlorobenzene	53.02		ug/kg	5.0	50		106	70-130	1.9	30
1,2-Dibromoethane	55.96		ug/kg	5.0	50		112	70-130	3.5	30
1,3-Dichloropropane	53.16		ug/kg	5.0	50		106	70-130	3.7	30
Chloroform	54.31		ug/kg	5.0	50		109	70-130	3.6	30
p-Isopropyltoluene	55.23		ug/kg	1.0	50		110	70-130	3.6	30
Dichlorodifluoromethane	46.55		ug/kg	5.0	50		93	70-130	6.3	30
1,2-Dibromo-3-chloropropane	63.60		ug/kg	5.0	50		127	70-130	3.2	30
Dibromomethane	56.23		ug/kg	5.0	50		112	70-130	2.6	30
Dibromochloromethane	62.28		ug/kg	3.0	50		125	70-130	3.1	30
cis-1,3-Dichloropropene	56.77		ug/kg	5.0	50		114	70-130	1.7	30
Bromomethane	44.09		ug/kg	5.0	50		88	70-130	6.6	30
Ethylbenzene	54.00		ug/kg	1.0	50		108	70-130	3.6	30
Bromobenzene	54.00		ug/kg	5.0	50		108	70-130	3.6	30
Chloroethane	47.22		ug/kg	5.0	50		94	70-130	8.2	30
Chlorobenzene	53.53		ug/kg	5.0	50		107	70-130	3.7	30
Carbon Disulfide	56.39		ug/kg	5.0	50		113	70-130	1.8	30
Chloromethane	44.24		ug/kg	5.0	50		88	70-130	5.5	30
Bromoform	60.41		ug/kg	5.0	50		121	70-130	3.3	30
Bromodichloromethane	58.57		ug/kg	5.0	50		117	70-130	2.5	30
Bromochloromethane	55.59		ug/kg	5.0	50		111	70-130	3.5	30
cis-1,2-Dichloroethene	55.02		ug/kg	5.0	50		110	70-130	4.4	30
Toluene	54.14		ug/kg	1.0	50		108	70-130	4.5	30
Hexachlorobutadiene	55.56		ug/kg	5.0	50		111	70-130	0.9	30
n-Propylbenzene	55.15		ug/kg	1.0	50		110	70-130	2.7	30
1,1-Dichloroethene	58.52		ug/kg	5.0	50		117	70-130	0.0	30
sec-Butylbenzene	56.92		ug/kg	1.0	50		114	70-130	2.6	30
Styrene	53.89		ug/kg	5.0	50		108	70-130	3.6	30
tert-Butylbenzene	55.18		ug/kg	1.0	50		110	70-130	4.4	30
1,2,4-Trimethylbenzene	53.57		ug/kg	1.0	50		107	70-130	3.7	30
Tetrahydrofuran (THF)	124.0		ug/kg	5.0	125		99	70-130	1.0	30
n-Butylbenzene	54.51		ug/kg	1.0	50		109	70-130	2.7	30
trans-1,2-Dichloroethene	50.28		ug/kg	5.0	50		101	70-130	6.7	30
trans-1,3-Dichloropropene	55.83		ug/kg	5.0	50		112	70-130	1.8	30
trans-1,4-dichloro-2-butene	294.4		ug/kg	5.0	250		118	70-130	0.9	30
Vinyl chloride	49.23		ug/kg	5.0	50		98	70-130	3.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450906A - SW8260C										
LCSD (CB66976-LCSD)					Prepared: Analyzed: 07-Oct-18					
Trichlorotrifluoroethane	52.70		ug/kg	5.0	50		105	70-130	2.8	30
Trichlorofluoromethane	46.47		ug/kg	5.0	50		93	70-130	6.3	30
Tetrachloroethene	55.27		ug/kg	5.0	50		111	70-130	0.9	30
Methyl Ethyl Ketone	46.25		ug/kg	5.0	50		93	70-130	1.1	30
1,2,4-Trichlorobenzene	51.35		ug/kg	5.0	50		103	70-130	1.0	30
1,2,3-Trichloropropane	51.37		ug/kg	5.0	50		103	70-130	1.0	30
1,2,3-Trichlorobenzene	55.09		ug/kg	5.0	50		110	70-130	0.0	30
1,1-Dichloropropene	55.96		ug/kg	5.0	50		112	70-130	3.5	30
Trichloroethene	56.65		ug/kg	5.0	50		113	70-130	3.5	30
o-Xylene	55.57		ug/kg	2.0	50		111	70-130	3.5	30
m&p-Xylene	105.8		ug/kg	2.0	100		106	70-130	2.8	30
Naphthalene	61.37		ug/kg	5.0	50		123	70-130	4.1	30
1,1-Dichloroethane	56.51		ug/kg	5.0	50		113	70-130	4.3	30
1,1,2-Trichloroethane	55.47		ug/kg	5.0	50		111	70-130	0.9	30
1,1,2,2-Tetrachloroethane	55.62		ug/kg	3.0	50		111	70-130	1.8	30
1,1,1-Trichloroethane	56.94		ug/kg	5.0	50		114	70-130	1.7	30
1,1,1,2-Tetrachloroethane	57.22		ug/kg	5.0	50		114	70-130	3.4	30
Methyl t-butyl ether (MTBE)	54.96		ug/kg	1.0	50		110	70-130	5.3	30
Methylene chloride	49.24		ug/kg	5.0	50		98	70-130	3.0	30
Isopropylbenzene	56.73		ug/kg	1.0	50		113	70-130	2.6	30
Surrogate: % Toluene-d8	51.57		ug/kg		50		103	70-130		
Surrogate: % Dibromofluoromethane	50.64		ug/kg		50		101	70-130		
Surrogate: % Bromofluorobenzene	50.54		ug/kg		50		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	51.18		ug/kg		50		102	70-130		
MS (CB66976-MS)					Source: SC50873-04 Prepared: Analyzed: 07-Oct-18					
2-Isopropyltoluene	50.94		ug/kg	5.0	50		102	70-130		30
1,2,3-Trichloropropane	56.73		ug/kg	5.0	50	BRL	113	70-130		30
1,1,1,2-Tetrachloroethane	49.52		ug/kg	5.0	50	BRL	99	70-130		30
1,1,1-Trichloroethane	55.88		ug/kg	5.0	50		109	70-130		30
1,1,2,2-Tetrachloroethane	57.41		ug/kg	3.0	50	BRL	115	70-130		30
1,1,2-Trichloroethane	46.22		ug/kg	5.0	50	BRL	92	70-130		30
1,1-Dichloroethane	51.92		ug/kg	5.0	50	BRL	104	70-130		30
1,1-Dichloroethene	53.07		ug/kg	5.0	50	BRL	106	70-130		30
1,3-Dichlorobenzene	53.59		ug/kg	5.0	50	BRL	107	70-130		30
1,2,3-Trichlorobenzene	57.24		ug/kg	5.0	50	BRL	114	70-130		30
1,3-Dichloropropane	43.18		ug/kg	5.0	50	BRL	86	70-130		30
1,2,4-Trichlorobenzene	53.76		ug/kg	5.0	50	BRL	108	70-130		30
1,2-Dichloropropane	48.94		ug/kg	5.0	50	BRL	98	70-130		30
1,2-Dibromo-3-chloropropane	60.19		ug/kg	5.0	50	BRL	120	70-130		30
1,2-Dibromoethane	40.78		ug/kg	5.0	50	BRL	82	70-130		30
1,2-Dichlorobenzene	54.08		ug/kg	5.0	50	BRL	108	70-130		30
1,2-Dichloroethane	46.73		ug/kg	5.0	50	BRL	93	70-130		30
1,2,4-Trimethylbenzene	53.73		ug/kg	1.0	50	BRL	107	70-130		30
1,1-Dichloropropene	49.71		ug/kg	5.0	50	BRL	99	70-130		30
1,3,5-Trimethylbenzene	53.40		ug/kg	1.0	50	BRL	107	70-130		30
Styrene	36.62		ug/kg	5.0	50	BRL	73	70-130		30
Hexachlorobutadiene	56.28		ug/kg	5.0	50	BRL	113	70-130		30
Isopropylbenzene	54.46		ug/kg	1.0	50	BRL	109	70-130		30
m&p-Xylene	86.42		ug/kg	2.0	100	BRL	86	70-130		30
Methyl Ethyl Ketone	45.13		ug/kg	5.0	50	BRL	90	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450906A - SW8260C										
MS (CB66976-MS)				Source: SC50873-04		Prepared: Analyzed: 07-Oct-18				
Methyl t-butyl ether (MTBE)	55.58		ug/kg	1.0	50	BRL	111	70-130		30
Methylene chloride	41.43		ug/kg	5.0	50	BRL	83	70-130		30
Naphthalene	61.29		ug/kg	5.0	50	BRL	123	70-130		30
n-Butylbenzene	54.84		ug/kg	1.0	50	BRL	110	70-130		30
n-Propylbenzene	53.90		ug/kg	1.0	50	BRL	108	70-130		30
o-Xylene	45.10		ug/kg	2.0	50	BRL	90	70-130		30
Ethylbenzene	45.24		ug/kg	1.0	50	BRL	90	70-130		30
sec-Butylbenzene	55.84		ug/kg	1.0	50	BRL	112	70-130		30
Trichloroethene	71.67	m	ug/kg	5.0	50	BRL	143	70-130		30
tert-Butylbenzene	54.30		ug/kg	1.0	50	BRL	109	70-130		30
Tetrachloroethene	47.45		ug/kg	5.0	50	BRL	95	70-130		30
Tetrahydrofuran (THF)	121.5		ug/kg	5.0	125	BRL	97	70-130		30
Toluene	46.06		ug/kg	1.0	50	BRL	92	70-130		30
trans-1,2-Dichloroethene	41.88		ug/kg	5.0	50	BRL	84	70-130		30
trans-1,3-Dichloropropene	35.52		ug/kg	5.0	50	BRL	71	70-130		30
trans-1,4-dichloro-2-butene	255.5		ug/kg	5.0	250	BRL	102	70-130		30
Trichlorofluoromethane	47.54		ug/kg	5.0	50	BRL	95	70-130		30
Vinyl chloride	43.62		ug/kg	5.0	50	BRL	87	70-130		30
1,4-Dichlorobenzene	52.55		ug/kg	5.0	50	BRL	105	70-130		30
p-Isopropyltoluene	54.89		ug/kg	1.0	50	BRL	110	70-130		30
Acrylonitrile	46.87		ug/kg	5.0	50	BRL	94	70-130		30
Dichlorodifluoromethane	43.44		ug/kg	5.0	50	BRL	87	70-130		30
2,2-Dichloropropane	53.67		ug/kg	5.0	50	BRL	107	70-130		30
2-Hexanone	38.38		ug/kg	25	50	BRL	77	70-130		30
4-Chlorotoluene	52.95		ug/kg	5.0	50	BRL	106	70-130		30
Trichlorotrifluoroethane	51.41		ug/kg	5.0	50	BRL	103	70-130		30
Acetone	38.85		ug/kg	10	50	BRL	78	70-130		30
2-Chlorotoluene	53.96		ug/kg	5.0	50	BRL	108	70-130		30
Benzene	48.28		ug/kg	1.0	50	BRL	97	70-130		30
Bromobenzene	53.52		ug/kg	5.0	50	BRL	107	70-130		30
Bromochloromethane	45.63		ug/kg	5.0	50	BRL	91	70-130		30
Bromodichloromethane	50.28		ug/kg	5.0	50	BRL	101	70-130		30
Chloromethane	41.49		ug/kg	5.0	50	BRL	83	70-130		30
Dibromochloromethane	48.56		ug/kg	3.0	50	BRL	97	70-130		30
4-Methyl-2-pentanone	46.63		ug/kg	25	50	BRL	93	70-130		30
Bromoform	43.17		ug/kg	5.0	50	BRL	86	70-130		30
cis-1,3-Dichloropropene	41.04		ug/kg	5.0	50	BRL	82	70-130		30
cis-1,2-Dichloroethene	45.48		ug/kg	5.0	50	BRL	91	70-130		30
Chloroform	48.76		ug/kg	5.0	50	BRL	98	70-130		30
Chloroethane	44.11		ug/kg	5.0	50	BRL	88	70-130		30
Chlorobenzene	40.28		ug/kg	5.0	50	BRL	81	70-130		30
Carbon tetrachloride	53.27		ug/kg	5.0	50	BRL	107	70-130		30
Carbon Disulfide	44.56		ug/kg	5.0	50	BRL	89	70-130		30
Bromomethane	41.79		ug/kg	5.0	50	BRL	84	70-130		30
Dibromomethane	42.55		ug/kg	5.0	50	BRL	85	70-130		30
Surrogate: % 1,2-dichlorobenzene-d4	52.54		ug/kg		50		105	70-130		
Surrogate: % Bromofluorobenzene	47.76		ug/kg		50		96	70-130		
Surrogate: % Toluene-d8	50.54		ug/kg		50		101	70-130		
Surrogate: % Dibromofluoromethane	50.20		ug/kg		50		100	70-130		
MSD (CB66976-MSD)				Source: SC50873-04		Prepared: Analyzed: 07-Oct-18				

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450906A - SW8260C										
MSD (CB66976-MSD)				Source: SC50873-04		Prepared: Analyzed: 07-Oct-18				
2-Isopropyltoluene	52.90		ug/kg	5.0	50		106	70-130	3.8	30
Bromoform	42.54		ug/kg	5.0	50	BRL	85	70-130	1.2	30
Carbon Disulfide	44.72		ug/kg	5.0	50	BRL	89	70-130	0.0	30
Bromomethane	43.23		ug/kg	5.0	50	BRL	86	70-130	2.4	30
Bromodichloromethane	50.13		ug/kg	5.0	50	BRL	100	70-130	1.0	30
Bromochloromethane	45.82		ug/kg	5.0	50	BRL	92	70-130	1.1	30
Bromobenzene	54.94		ug/kg	5.0	50	BRL	110	70-130	2.8	30
Benzene	47.93		ug/kg	1.0	50	BRL	96	70-130	1.0	30
Acetone	44.01		ug/kg	10	50	BRL	88	70-130	12.0	30
4-Methyl-2-pentanone	46.34		ug/kg	25	50	BRL	93	70-130	0.0	30
Acrylonitrile	46.83		ug/kg	5.0	50	BRL	94	70-130	0.0	30
Carbon tetrachloride	54.42		ug/kg	5.0	50	BRL	109	70-130	1.9	30
Chlorobenzene	39.14		ug/kg	5.0	50	BRL	78	70-130	3.8	30
Chloroethane	46.02		ug/kg	5.0	50	BRL	92	70-130	4.4	30
Chloroform	49.91		ug/kg	5.0	50	BRL	100	70-130	2.0	30
Chloromethane	42.30		ug/kg	5.0	50	BRL	85	70-130	2.4	30
cis-1,2-Dichloroethene	45.73		ug/kg	5.0	50	BRL	91	70-130	0.0	30
cis-1,3-Dichloropropene	39.77		ug/kg	5.0	50	BRL	80	70-130	2.5	30
Dibromochloromethane	49.15		ug/kg	3.0	50	BRL	98	70-130	1.0	30
Dichlorodifluoromethane	44.71		ug/kg	5.0	50	BRL	89	70-130	2.3	30
1,2,4-Trimethylbenzene	55.30		ug/kg	1.0	50	BRL	111	70-130	3.7	30
Ethylbenzene	44.86		ug/kg	1.0	50	BRL	90	70-130	0.0	30
Dibromomethane	42.09		ug/kg	5.0	50	BRL	84	70-130	1.2	30
1,2-Dichlorobenzene	54.64		ug/kg	5.0	50	BRL	109	70-130	0.9	30
1,2,3-Trichloropropane	58.11		ug/kg	5.0	50	BRL	116	70-130	2.6	30
Hexachlorobutadiene	57.87		ug/kg	5.0	50	BRL	116	70-130	2.6	30
1,1,1,2-Tetrachloroethane	49.87		ug/kg	5.0	50	BRL	100	70-130	1.0	30
1,1,1-Trichloroethane	56.56		ug/kg	5.0	50		110	70-130	0.9	30
1,1,2,2-Tetrachloroethane	59.09		ug/kg	3.0	50	BRL	118	70-130	2.6	30
1,1,2-Trichloroethane	46.34		ug/kg	5.0	50	BRL	93	70-130	1.1	30
1,1-Dichloroethane	53.18		ug/kg	5.0	50	BRL	106	70-130	1.9	30
1,1-Dichloroethene	52.86		ug/kg	5.0	50	BRL	106	70-130	0.0	30
1,2,3-Trichlorobenzene	58.28		ug/kg	5.0	50	BRL	117	70-130	2.6	30
1,2-Dibromoethane	39.36		ug/kg	5.0	50	BRL	79	70-130	3.7	30
1,2-Dibromo-3-chloropropane	61.08		ug/kg	5.0	50	BRL	122	70-130	1.7	30
4-Chlorotoluene	53.68		ug/kg	5.0	50	BRL	107	70-130	0.9	30
1,2-Dichloroethane	45.75		ug/kg	5.0	50	BRL	92	70-130	1.1	30
1,2-Dichloropropane	49.83		ug/kg	5.0	50	BRL	100	70-130	2.0	30
1,3,5-Trimethylbenzene	54.77		ug/kg	1.0	50	BRL	110	70-130	2.8	30
1,3-Dichlorobenzene	55.17		ug/kg	5.0	50	BRL	110	70-130	2.8	30
1,3-Dichloropropane	43.29		ug/kg	5.0	50	BRL	87	70-130	1.2	30
1,4-Dichlorobenzene	53.60		ug/kg	5.0	50	BRL	107	70-130	1.9	30
2,2-Dichloropropane	54.87		ug/kg	5.0	50	BRL	110	70-130	2.8	30
2-Chlorotoluene	55.17		ug/kg	5.0	50	BRL	110	70-130	1.8	30
2-Hexanone	39.02		ug/kg	25	50	BRL	78	70-130	1.3	30
1,2,4-Trichlorobenzene	56.09		ug/kg	5.0	50	BRL	112	70-130	3.6	30
trans-1,3-Dichloropropene	33.65	m	ug/kg	5.0	50	BRL	67	70-130	5.8	30
Isopropylbenzene	56.56		ug/kg	1.0	50	BRL	113	70-130	3.6	30
Vinyl chloride	44.82		ug/kg	5.0	50	BRL	90	70-130	3.4	30
Trichlorotrifluoroethane	51.17		ug/kg	5.0	50	BRL	102	70-130	1.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 450906A - SW8260C										
MSD (CB66976-MSD)						Source: SC50873-04		Prepared: Analyzed: 07-Oct-18		
Trichlorofluoromethane	48.52		ug/kg	5.0	50	BRL	97	70-130	2.1	30
1,1-Dichloropropene	49.32		ug/kg	5.0	50	BRL	99	70-130	0.0	30
trans-1,4-dichloro-2-butene	264.5		ug/kg	5.0	250	BRL	106	70-130	3.8	30
trans-1,2-Dichloroethene	43.74		ug/kg	5.0	50	BRL	87	70-130	3.5	30
Toluene	45.47		ug/kg	1.0	50	BRL	91	70-130	1.1	30
Tetrahydrofuran (THF)	125.5		ug/kg	5.0	125	BRL	100	70-130	3.0	30
Tetrachloroethene	46.87		ug/kg	5.0	50	BRL	94	70-130	1.1	30
tert-Butylbenzene	56.58		ug/kg	1.0	50	BRL	113	70-130	3.6	30
sec-Butylbenzene	58.19		ug/kg	1.0	50	BRL	116	70-130	3.5	30
p-Isopropyltoluene	56.62		ug/kg	1.0	50	BRL	113	70-130	2.7	30
o-Xylene	44.76		ug/kg	2.0	50	BRL	90	70-130	0.0	30
n-Propylbenzene	55.71		ug/kg	1.0	50	BRL	111	70-130	2.7	30
m&p-Xylene	86.30		ug/kg	2.0	100	BRL	86	70-130	0.0	30
n-Butylbenzene	56.64		ug/kg	1.0	50	BRL	113	70-130	2.7	30
Naphthalene	64.23		ug/kg	5.0	50	BRL	128	70-130	4.0	30
Methylene chloride	42.85		ug/kg	5.0	50	BRL	86	70-130	3.6	30
Methyl t-butyl ether (MTBE)	56.79		ug/kg	1.0	50	BRL	114	70-130	2.7	30
Methyl Ethyl Ketone	46.00		ug/kg	5.0	50	BRL	92	70-130	2.2	30
Styrene	35.50		ug/kg	5.0	50	BRL	71	70-130	2.8	30
Trichloroethene	68.74	m	ug/kg	5.0	50	BRL	137	70-130	4.3	30
Surrogate: % Dibromofluoromethane	51.99		ug/kg		50		104	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	51.40		ug/kg		50		103	70-130		
Surrogate: % Bromofluorobenzene	49.76		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	50.78		ug/kg		50		102	70-130		
Batch 451011A - SW8260C										
BLK (CB66880-BLK)								Prepared: Analyzed: 08-Oct-18		
2-Isopropyltoluene	ND		ug/l	1.0			ND	-		
2-Chlorotoluene	ND		ug/l	1.0			ND	-		
2,2-Dichloropropane	ND		ug/l	1.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/l	0.40			ND	-		
1,2,3-Trichloropropane	ND		ug/l	1.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50			ND	-		
p-Isopropyltoluene	ND		ug/l	1.0			ND	-		
o-Xylene	ND		ug/l	1.0			ND	-		
n-Propylbenzene	ND		ug/l	1.0			ND	-		
n-Butylbenzene	ND		ug/l	1.0			ND	-		
Naphthalene	ND		ug/l	1.0			ND	-		
Styrene	ND		ug/l	1.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/l	1.0			ND	-		
tert-Butylbenzene	ND		ug/l	1.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/l	1.0			ND	-		
Methyl ethyl ketone	ND		ug/l	5.0			ND	-		
m&p-Xylene	ND		ug/l	1.0			ND	-		
Isopropylbenzene	ND		ug/l	1.0			ND	-		
1,2-Dichloroethane	ND		ug/l	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0			ND	-		
Methylene chloride	ND		ug/l	1.0			ND	-		
Trichloroethene	ND		ug/l	1.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/l	1.0			ND	-		
1,1-Dichloropropene	ND		ug/l	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
BLK (CB66880-BLK)	Prepared: Analyzed: 08-Oct-18									
1,1-Dichloroethene	ND		ug/l	1.0			ND	-		
1,1-Dichloroethane	ND		ug/l	1.0			ND	-		
1,1,2-Trichloroethane	ND		ug/l	1.0			ND	-		
Vinyl chloride	ND		ug/l	1.0			ND	-		
sec-Butylbenzene	ND		ug/l	1.0			ND	-		
Trichlorofluoromethane	ND		ug/l	1.0			ND	-		
1,2-Dibromoethane	ND		ug/l	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/l	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/l	0.40			ND	-		
trans-1,2-Dichloroethene	ND		ug/l	1.0			ND	-		
Toluene	ND		ug/l	1.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/l	2.5			ND	-		
Tetrachloroethene	ND		ug/l	1.0			ND	-		
Trichlorotrifluoroethane	ND		ug/l	1.0			ND	-		
Acrylonitrile	ND		ug/l	5.0			ND	-		
Bromoform	ND		ug/l	1.0			ND	-		
1,2-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,4-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/l	1.0			ND	-		
Bromochloromethane	ND		ug/l	1.0			ND	-		
Bromomethane	ND		ug/l	1.0			ND	-		
Benzene	ND		ug/l	0.70			ND	-		
1,3-Dichloropropane	ND		ug/l	1.0			ND	-		
Acetone	ND		ug/l	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/l	5.0			ND	-		
4-Chlorotoluene	ND		ug/l	1.0			ND	-		
2-Hexanone	ND		ug/l	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0			ND	-		
1,1,1-Trichloroethane	ND		ug/l	1.0			ND	-		
Bromobenzene	ND		ug/l	1.0			ND	-		
Dibromochloromethane	ND		ug/l	0.50			ND	-		
Hexachlorobutadiene	ND		ug/l	0.40			ND	-		
Ethylbenzene	ND		ug/l	1.0			ND	-		
Bromodichloromethane	ND		ug/l	0.50			ND	-		
Dibromomethane	ND		ug/l	1.0			ND	-		
Carbon Disulfide	ND		ug/l	1.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/l	1.0			ND	-		
1,2-Dichloropropane	ND		ug/l	1.0			ND	-		
Chloromethane	ND		ug/l	1.0			ND	-		
Chloroform	ND		ug/l	1.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/l	1.0			ND	-		
1,3-Dichlorobenzene	ND		ug/l	1.0			ND	-		
Chloroethane	ND		ug/l	1.0			ND	-		
Chlorobenzene	ND		ug/l	1.0			ND	-		
Carbon tetrachloride	ND		ug/l	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/l	1.0			ND	-		
Surrogate: % Dibromofluoromethane	104		ug/l		10		104	70-130		
Surrogate: % Toluene-d8	100		ug/l		10		100	70-130		
Surrogate: % Bromofluorobenzene	95		ug/l		10		95	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	103		ug/l		10		103	70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
LCS (CB66880-LCS)					Prepared: Analyzed: 08-Oct-18					
2-Isopropyltoluene	9.886		ug/l	1.0	10		99	70-130		30
Hexachlorobutadiene	10.67		ug/l	0.40	10		107	70-130		30
cis-1,3-Dichloropropene	11.08		ug/l	0.40	10		111	70-130		30
Methyl t-butyl ether (MTBE)	10.47		ug/l	1.0	10		105	70-130		30
m&p-Xylene	21.84		ug/l	1.0	20		109	70-130		30
Isopropylbenzene	11.13		ug/l	1.0	10		111	70-130		30
Ethylbenzene	10.97		ug/l	1.0	10		110	70-130		30
Dichlorodifluoromethane	9.638		ug/l	1.0	10		96	70-130		30
Vinyl chloride	11.45		ug/l	1.0	10		114	70-130		30
Dibromochloromethane	11.62		ug/l	0.50	10		116	70-130		30
n-Propylbenzene	11.16		ug/l	1.0	10		112	70-130		30
cis-1,2-Dichloroethene	11.27		ug/l	1.0	10		113	70-130		30
Chloromethane	10.26		ug/l	1.0	10		103	70-130		30
Chloroform	11.19		ug/l	1.0	10		112	70-130		30
Chloroethane	10.41		ug/l	1.0	10		104	70-130		30
Chlorobenzene	10.95		ug/l	1.0	10		109	70-130		30
Carbon tetrachloride	11.05		ug/l	1.0	10		111	70-130		30
Dibromomethane	11.03		ug/l	1.0	10		110	70-130		30
Tetrachloroethene	10.88		ug/l	1.0	10		109	70-130		30
Trichlorotrifluoroethane	9.328		ug/l	1.0	10		93	70-130		30
Trichlorofluoromethane	9.943		ug/l	1.0	10		99	70-130		30
Trichloroethene	11.19		ug/l	1.0	10		112	70-130		30
trans-1,4-dichloro-2-butene	52.28		ug/l	5.0	50		105	70-130		30
trans-1,3-Dichloropropene	10.51		ug/l	0.40	10		105	70-130		30
trans-1,2-Dichloroethene	11.54		ug/l	1.0	10		115	70-130		30
Naphthalene	10.43		ug/l	1.0	10		104	70-130		30
Tetrahydrofuran (THF)	25.23		ug/l	2.5	25		101	70-130		30
n-Butylbenzene	11.07		ug/l	1.0	10		111	70-130		30
tert-Butylbenzene	11.04		ug/l	1.0	10		110	70-130		30
Styrene	11.39		ug/l	1.0	10		114	70-130		30
sec-Butylbenzene	11.58		ug/l	1.0	10		116	70-130		30
p-Isopropyltoluene	11.16		ug/l	1.0	10		112	70-130		30
o-Xylene	11.20		ug/l	1.0	10		112	70-130		30
Bromoform	11.46		ug/l	1.0	10		115	70-130		30
Toluene	11.19		ug/l	1.0	10		112	70-130		30
1,1-Dichloropropene	11.04		ug/l	1.0	10		110	70-130		30
Carbon Disulfide	9.547		ug/l	1.0	10		95	70-130		30
1,2-Dichlorobenzene	10.70		ug/l	1.0	10		107	70-130		30
1,2-Dibromoethane	11.15		ug/l	1.0	10		112	70-130		30
1,2-Dibromo-3-chloropropane	10.90		ug/l	1.0	10		109	70-130		30
1,2,4-Trimethylbenzene	10.94		ug/l	1.0	10		109	70-130		30
1,2,4-Trichlorobenzene	10.21		ug/l	1.0	10		102	70-130		30
1,2-Dichloropropane	11.34		ug/l	1.0	10		113	70-130		30
1,2,3-Trichlorobenzene	9.900		ug/l	1.0	10		99	70-130		30
1,3,5-Trimethylbenzene	11.00		ug/l	1.0	10		110	70-130		30
1,1-Dichloroethene	11.24		ug/l	1.0	10		112	70-130		30
1,1-Dichloroethane	11.38		ug/l	1.0	10		114	70-130		30
1,1,2-Trichloroethane	11.27		ug/l	1.0	10		113	70-130		30
1,1,2,2-Tetrachloroethane	11.79		ug/l	0.50	10		118	70-130		30
1,1,1-Trichloroethane	11.07		ug/l	1.0	10		111	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
LCS (CB66880-LCS)	Prepared: Analyzed: 08-Oct-18									
1,1,1,2-Tetrachloroethane	11.02		ug/l	1.0	10		110	70-130		30
1,2,3-Trichloropropane	10.99		ug/l	1.0	10		110	70-130		30
4-Chlorotoluene	10.82		ug/l	1.0	10		108	70-130		30
Methylene chloride	10.94		ug/l	1.0	10		109	70-130		30
Bromodichloromethane	11.21		ug/l	0.50	10		112	70-130		30
Bromochloromethane	11.67		ug/l	1.0	10		117	70-130		30
Bromobenzene	11.01		ug/l	1.0	10		110	70-130		30
Benzene	11.20		ug/l	0.70	10		112	70-130		30
Acrylonitrile	10.93		ug/l	5.0	10		109	70-130		30
1,2-Dichloroethane	10.62		ug/l	1.0	10		106	70-130		30
4-Methyl-2-pentanone	10.38		ug/l	5.0	10		104	70-130		30
Bromomethane	11.96		ug/l	1.0	10		120	70-130		30
2-Hexanone	9.915		ug/l	5.0	10		99	70-130		30
2-Chlorotoluene	11.14		ug/l	1.0	10		111	70-130		30
2,2-Dichloropropane	10.96		ug/l	1.0	10		110	70-130		30
1,4-Dichlorobenzene	10.82		ug/l	1.0	10		108	70-130		30
1,3-Dichloropropane	10.82		ug/l	1.0	10		108	70-130		30
1,3-Dichlorobenzene	10.84		ug/l	1.0	10		108	70-130		30
Acetone	10.38		ug/l	5.0	10		104	70-130		30
Methyl ethyl ketone	10.83		ug/l	5.0	10		108	70-130		30
Surrogate: % Toluene-d8	10.19		ug/l		10		102	70-130		
Surrogate: % Dibromofluoromethane	9.705		ug/l		10		97	70-130		
Surrogate: % Bromofluorobenzene	9.961		ug/l		10		100	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	9.992		ug/l		10		100	70-130		
LCSD (CB66880-LCSD)	Prepared: Analyzed: 08-Oct-18									
2-Isopropyltoluene	10.58		ug/l	1.0	10		106	70-130	6.8	30
Toluene	11.78		ug/l	1.0	10		118	70-130	5.2	30
1,1-Dichloroethane	12.66		ug/l	1.0	10		127	70-130	10.8	30
1,1,2-Trichloroethane	11.97		ug/l	1.0	10		120	70-130	6.0	30
1,1,1,2-Tetrachloroethane	12.42		ug/l	0.50	10		124	70-130	5.0	30
1,1,1-Trichloroethane	11.96		ug/l	1.0	10		120	70-130	7.8	30
2-Hexanone	10.81		ug/l	5.0	10		108	70-130	8.7	30
trans-1,2-Dichloroethene	12.47		ug/l	1.0	10		125	70-130	8.3	30
Tetrahydrofuran (THF)	29.49		ug/l	2.5	25		118	70-130	15.5	30
Tetrachloroethene	11.70		ug/l	1.0	10		117	70-130	7.1	30
tert-Butylbenzene	11.84		ug/l	1.0	10		118	70-130	7.0	30
Styrene	12.16		ug/l	1.0	10		122	70-130	6.8	30
sec-Butylbenzene	12.43		ug/l	1.0	10		124	70-130	6.7	30
p-Isopropyltoluene	11.84		ug/l	1.0	10		118	70-130	5.2	30
o-Xylene	12.23		ug/l	1.0	10		122	70-130	8.5	30
1,1,1,2-Tetrachloroethane	11.99		ug/l	1.0	10		120	70-130	8.7	30
1,2-Dichloroethane	11.41		ug/l	1.0	10		114	70-130	7.3	30
1,1-Dichloropropene	11.89		ug/l	1.0	10		119	70-130	7.9	30
1,2,3-Trichlorobenzene	11.02		ug/l	1.0	10		110	70-130	10.5	30
1,2,3-Trichloropropane	11.78		ug/l	1.0	10		118	70-130	7.0	30
1,2,4-Trichlorobenzene	11.07		ug/l	1.0	10		111	70-130	8.5	30
1,2,4-Trimethylbenzene	11.69		ug/l	1.0	10		117	70-130	7.1	30
1,2-Dibromo-3-chloropropane	12.68		ug/l	1.0	10		127	70-130	15.3	30
Trichloroethene	11.86		ug/l	1.0	10		119	70-130	6.1	30
1,2-Dichlorobenzene	11.53		ug/l	1.0	10		115	70-130	7.2	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451011A - SW8260C										
LCSD (CB66880-LCSD)	Prepared: Analyzed: 08-Oct-18									
trans-1,3-Dichloropropene	11.46		ug/l	0.40	10		115	70-130	9.1	30
1,2-Dichloropropane	11.96		ug/l	1.0	10		120	70-130	6.0	30
Vinyl chloride	12.37		ug/l	1.0	10		124	70-130	8.4	30
Trichlorotrifluoroethane	9.985		ug/l	1.0	10		100	70-130	7.3	30
1,1-Dichloroethene	12.11		ug/l	1.0	10		121	70-130	7.7	30
Trichlorofluoromethane	10.69		ug/l	1.0	10		107	70-130	7.8	30
n-Propylbenzene	11.87		ug/l	1.0	10		119	70-130	6.1	30
1,2-Dibromoethane	11.78		ug/l	1.0	10		118	70-130	5.2	30
4-Methyl-2-pentanone	10.64		ug/l	5.0	10		106	70-130	1.9	30
Carbon Disulfide	10.35		ug/l	1.0	10		104	70-130	9.0	30
Bromomethane	13.42	I	ug/l	1.0	10		134	70-130	11.0	30
Bromoform	12.35		ug/l	1.0	10		124	70-130	7.5	30
2,2-Dichloropropane	11.56		ug/l	1.0	10		116	70-130	5.3	30
1,4-Dichlorobenzene	11.62		ug/l	1.0	10		116	70-130	7.1	30
1,3-Dichloropropane	11.72		ug/l	1.0	10		117	70-130	8.0	30
1,3-Dichlorobenzene	11.64		ug/l	1.0	10		116	70-130	7.1	30
Chlorobenzene	11.93		ug/l	1.0	10		119	70-130	8.8	30
4-Chlorotoluene	11.66		ug/l	1.0	10		117	70-130	8.0	30
Chloroethane	11.41		ug/l	1.0	10		114	70-130	9.2	30
Acetone	11.89		ug/l	5.0	10		119	70-130	13.5	30
Acrylonitrile	10.77		ug/l	5.0	10		108	70-130	0.9	30
Benzene	11.92		ug/l	0.70	10		119	70-130	6.1	30
Bromobenzene	11.67		ug/l	1.0	10		117	70-130	6.2	30
Bromochloromethane	12.28		ug/l	1.0	10		123	70-130	5.0	30
n-Butylbenzene	11.94		ug/l	1.0	10		119	70-130	7.0	30
Bromodichloromethane	11.86		ug/l	0.50	10		119	70-130	6.1	30
trans-1,4-dichloro-2-butene	57.11		ug/l	5.0	50		114	70-130	8.2	30
1,3,5-Trimethylbenzene	11.73		ug/l	1.0	10		117	70-130	6.2	30
Dibromomethane	11.60		ug/l	1.0	10		116	70-130	5.3	30
Naphthalene	11.46		ug/l	1.0	10		115	70-130	10.0	30
Methylene chloride	12.02		ug/l	1.0	10		120	70-130	9.6	30
Methyl t-butyl ether (MTBE)	11.42		ug/l	1.0	10		114	70-130	8.2	30
Methyl ethyl ketone	11.59		ug/l	5.0	10		116	70-130	7.1	30
m&p-Xylene	23.95		ug/l	1.0	20		120	70-130	9.6	30
Isopropylbenzene	11.87		ug/l	1.0	10		119	70-130	7.0	30
Hexachlorobutadiene	11.68		ug/l	0.40	10		117	70-130	8.9	30
Ethylbenzene	11.81		ug/l	1.0	10		118	70-130	7.0	30
Carbon tetrachloride	11.91		ug/l	1.0	10		119	70-130	7.0	30
Dichlorodifluoromethane	10.45		ug/l	1.0	10		104	70-130	8.0	30
Chloroform	12.01		ug/l	1.0	10		120	70-130	6.9	30
Dibromochloromethane	12.39		ug/l	0.50	10		124	70-130	6.7	30
cis-1,3-Dichloropropene	11.70		ug/l	0.40	10		117	70-130	5.3	30
2-Chlorotoluene	12.10		ug/l	1.0	10		121	70-130	8.6	30
cis-1,2-Dichloroethene	12.33		ug/l	1.0	10		123	70-130	8.5	30
Chloromethane	11.07		ug/l	1.0	10		111	70-130	7.5	30
Surrogate: % Bromofluorobenzene	10.12		ug/l		10		101	70-130		
Surrogate: % Dibromofluoromethane	9.986		ug/l		10		100	70-130		
Surrogate: % Toluene-d8	10.14		ug/l		10		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	10.10		ug/l		10		101	70-130		

Batch 451157A - SW8260C

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
BLK (CB66981-BLK)	Prepared: Analyzed: 09-Oct-18									
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
BLK (CB66981-BLK)	Prepared: Analyzed: 09-Oct-18									
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
Surrogate: % Toluene-d8	94		ug/kg		50		94	70-130		
Surrogate: % Bromofluorobenzene	99		ug/kg		50		99	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	98		ug/kg		50		98	70-130		
Surrogate: % Dibromofluoromethane	99		ug/kg		50		99	70-130		
LCS (CB66981-LCS)	Prepared: Analyzed: 09-Oct-18									
2-Isopropyltoluene	48.57		ug/kg	5.0	50		97	70-130		30
Styrene	45.92		ug/kg	5.0	50		92	70-130		30
Tetrachloroethene	46.55		ug/kg	5.0	50		93	70-130		30
m&p-Xylene	89.44		ug/kg	2.0	100		89	70-130		30
Methyl Ethyl Ketone	44.67		ug/kg	5.0	50		89	70-130		30
Methyl t-butyl ether (MTBE)	49.88		ug/kg	1.0	50		100	70-130		30
Methylene chloride	39.27		ug/kg	5.0	50		79	70-130		30
Naphthalene	50.00		ug/kg	5.0	50		100	70-130		30
n-Butylbenzene	47.22		ug/kg	1.0	50		94	70-130		30
n-Propylbenzene	46.87		ug/kg	1.0	50		94	70-130		30
o-Xylene	46.23		ug/kg	2.0	50		92	70-130		30
sec-Butylbenzene	47.22		ug/kg	1.0	50		94	70-130		30
tert-Butylbenzene	46.04		ug/kg	1.0	50		92	70-130		30
Dibromomethane	46.32		ug/kg	5.0	50		93	70-130		30
p-Isopropyltoluene	46.63		ug/kg	1.0	50		93	70-130		30
Chloroform	44.82		ug/kg	5.0	50		90	70-130		30
Isopropylbenzene	46.72		ug/kg	1.0	50		93	70-130		30
Hexachlorobutadiene	47.51		ug/kg	5.0	50		95	70-130		30
Ethylbenzene	45.33		ug/kg	1.0	50		91	70-130		30
Dichlorodifluoromethane	44.24		ug/kg	5.0	50		88	70-130		30
trans-1,4-dichloro-2-butene	269.4		ug/kg	5.0	250		108	70-130		30
Dibromochloromethane	50.54		ug/kg	3.0	50		101	70-130		30
Tetrahydrofuran (THF)	110.9		ug/kg	5.0	125		89	70-130		30
cis-1,3-Dichloropropene	46.48		ug/kg	5.0	50		93	70-130		30
Chloromethane	42.08		ug/kg	5.0	50		84	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
LCS (CB66981-LCS)					Prepared: Analyzed: 09-Oct-18					
Bromobenzene	45.62		ug/kg	5.0	50		91	70-130		30
Chloroethane	47.30		ug/kg	5.0	50		95	70-130		30
Chlorobenzene	45.56		ug/kg	5.0	50		91	70-130		30
Carbon tetrachloride	46.74		ug/kg	5.0	50		93	70-130		30
Carbon Disulfide	50.45		ug/kg	5.0	50		101	70-130		30
Bromomethane	43.49		ug/kg	5.0	50		87	70-130		30
Bromoform	48.22		ug/kg	5.0	50		96	70-130		30
Bromodichloromethane	48.25		ug/kg	5.0	50		96	70-130		30
Bromochloromethane	45.65		ug/kg	5.0	50		91	70-130		30
cis-1,2-Dichloroethene	45.91		ug/kg	5.0	50		92	70-130		30
1,1-Dichloropropene	47.02		ug/kg	5.0	50		94	70-130		30
1,2-Dichloroethane	45.91		ug/kg	5.0	50		92	70-130		30
1,2-Dichlorobenzene	45.14		ug/kg	5.0	50		90	70-130		30
1,2-Dibromoethane	46.17		ug/kg	5.0	50		92	70-130		30
1,2-Dibromo-3-chloropropane	47.05		ug/kg	5.0	50		94	70-130		30
1,2,4-Trimethylbenzene	45.82		ug/kg	1.0	50		92	70-130		30
1,2,4-Trichlorobenzene	48.11		ug/kg	5.0	50		96	70-130		30
1,2-Dichloropropane	45.10		ug/kg	5.0	50		90	70-130		30
1,2,3-Trichlorobenzene	47.63		ug/kg	5.0	50		95	70-130		30
1,1,2-Trichloroethane	46.29		ug/kg	5.0	50		93	70-130		30
1,1-Dichloroethene	45.92		ug/kg	5.0	50		92	70-130		30
1,1-Dichloroethane	46.25		ug/kg	5.0	50		93	70-130		30
Toluene	45.39		ug/kg	1.0	50		91	70-130		30
1,1,2,2-Tetrachloroethane	47.03		ug/kg	3.0	50		94	70-130		30
trans-1,2-Dichloroethene	57.37		ug/kg	5.0	50		115	70-130		30
1,1,1,2-Tetrachloroethane	46.77		ug/kg	5.0	50		94	70-130		30
Benzene	45.19		ug/kg	1.0	50		90	70-130		30
1,2,3-Trichloropropane	41.05		ug/kg	5.0	50		82	70-130		30
4-Methyl-2-pentanone	44.40		ug/kg	25	50		89	70-130		30
1,3,5-Trimethylbenzene	44.87		ug/kg	1.0	50		90	70-130		30
1,1,1-Trichloroethane	46.66		ug/kg	5.0	50		93	70-130		30
Trichloroethene	45.90		ug/kg	5.0	50		92	70-130		30
Trichlorofluoromethane	47.20		ug/kg	5.0	50		94	70-130		30
Trichlorotrifluoroethane	47.44		ug/kg	5.0	50		95	70-130		30
Vinyl chloride	45.80		ug/kg	5.0	50		92	70-130		30
Acetone	38.04		ug/kg	10	50		76	70-130		30
trans-1,3-Dichloropropene	46.47		ug/kg	5.0	50		93	70-130		30
4-Chlorotoluene	45.70		ug/kg	5.0	50		91	70-130		30
2-Hexanone	41.71		ug/kg	25	50		83	70-130		30
2-Chlorotoluene	45.97		ug/kg	5.0	50		92	70-130		30
2,2-Dichloropropane	48.38		ug/kg	5.0	50		97	70-130		30
1,4-Dichlorobenzene	45.02		ug/kg	5.0	50		90	70-130		30
1,3-Dichloropropane	43.79		ug/kg	5.0	50		88	70-130		30
1,3-Dichlorobenzene	45.93		ug/kg	5.0	50		92	70-130		30
Acrylonitrile	46.38		ug/kg	5.0	50		93	70-130		30
Surrogate: % Bromofluorobenzene	49.59		ug/kg		50		99	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.24		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	51.23		ug/kg		50		102	70-130		
Surrogate: % Dibromofluoromethane	51.10		ug/kg		50		102	70-130		
LCSD (CB66981-LCSD)					Prepared: Analyzed: 09-Oct-18					

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
LCSD (CB66981-LCSD)	Prepared: Analyzed: 09-Oct-18									
2-Isopropyltoluene	52.53		ug/kg	5.0	50		105	70-130	7.9	30
Styrene	49.13		ug/kg	5.0	50		98	70-130	6.3	30
m&p-Xylene	96.50		ug/kg	2.0	100		97	70-130	8.6	30
Methyl Ethyl Ketone	44.27		ug/kg	5.0	50		89	70-130	0.0	30
Isopropylbenzene	50.04		ug/kg	1.0	50		100	70-130	7.3	30
Methyl t-butyl ether (MTBE)	53.64		ug/kg	1.0	50		107	70-130	6.8	30
Methylene chloride	42.22		ug/kg	5.0	50		84	70-130	6.1	30
Naphthalene	53.69		ug/kg	5.0	50		107	70-130	6.8	30
n-Butylbenzene	51.52		ug/kg	1.0	50		103	70-130	9.1	30
n-Propylbenzene	50.41		ug/kg	1.0	50		101	70-130	7.2	30
o-Xylene	49.05		ug/kg	2.0	50		98	70-130	6.3	30
p-Isopropyltoluene	50.80		ug/kg	1.0	50		102	70-130	9.2	30
sec-Butylbenzene	51.81		ug/kg	1.0	50		104	70-130	10.1	30
tert-Butylbenzene	49.72		ug/kg	1.0	50		99	70-130	7.3	30
Tetrachloroethene	51.11		ug/kg	5.0	50		102	70-130	9.2	30
Tetrahydrofuran (THF)	118.7		ug/kg	5.0	125		95	70-130	6.5	30
Toluene	49.46		ug/kg	1.0	50		99	70-130	8.4	30
trans-1,2-Dichloroethene	63.47		ug/kg	5.0	50		127	70-130	9.9	30
trans-1,3-Dichloropropene	50.30		ug/kg	5.0	50		101	70-130	8.2	30
trans-1,4-dichloro-2-butene	292.9		ug/kg	5.0	250		117	70-130	8.0	30
Trichloroethene	50.04		ug/kg	5.0	50		100	70-130	8.3	30
Trichlorofluoromethane	51.59		ug/kg	5.0	50		103	70-130	9.1	30
Vinyl chloride	49.43		ug/kg	5.0	50		99	70-130	7.3	30
Hexachlorobutadiene	49.31		ug/kg	5.0	50		99	70-130	4.1	30
1,1,2,2-Tetrachloroethane	50.44		ug/kg	3.0	50		101	70-130	7.2	30
Trichlorotrifluoroethane	51.98		ug/kg	5.0	50		104	70-130	9.0	30
1,2-Dibromo-3-chloropropane	51.61		ug/kg	5.0	50		103	70-130	9.1	30
Ethylbenzene	49.12		ug/kg	1.0	50		98	70-130	7.4	30
2,2-Dichloropropane	52.80		ug/kg	5.0	50		106	70-130	8.9	30
1,1-Dichloroethane	50.38		ug/kg	5.0	50		101	70-130	8.2	30
1,3-Dichloropropane	46.79		ug/kg	5.0	50		94	70-130	6.6	30
1,3-Dichlorobenzene	49.91		ug/kg	5.0	50		100	70-130	8.3	30
1,3,5-Trimethylbenzene	49.09		ug/kg	1.0	50		98	70-130	8.5	30
1,2-Dichloropropane	48.48		ug/kg	5.0	50		97	70-130	7.5	30
1,2-Dichloroethane	49.31		ug/kg	5.0	50		99	70-130	7.3	30
2-Hexanone	43.21		ug/kg	25	50		86	70-130	3.6	30
1,2-Dibromoethane	48.87		ug/kg	5.0	50		98	70-130	6.3	30
2-Chlorotoluene	50.12		ug/kg	5.0	50		100	70-130	8.3	30
1,2,4-Trimethylbenzene	49.78		ug/kg	1.0	50		100	70-130	8.3	30
1,2,4-Trichlorobenzene	51.38		ug/kg	5.0	50		103	70-130	7.0	30
1,2,3-Trichloropropane	43.86		ug/kg	5.0	50		88	70-130	7.1	30
1,2,3-Trichlorobenzene	51.82		ug/kg	5.0	50		104	70-130	9.0	30
1,1-Dichloropropene	50.93		ug/kg	5.0	50		102	70-130	8.2	30
1,1-Dichloroethene	50.69		ug/kg	5.0	50		101	70-130	9.3	30
1,1,2-Trichloroethane	49.59		ug/kg	5.0	50		99	70-130	6.3	30
1,1,1-Trichloroethane	50.72		ug/kg	5.0	50		101	70-130	8.2	30
1,1,1,2-Tetrachloroethane	49.83		ug/kg	5.0	50		100	70-130	6.2	30
1,2-Dichlorobenzene	48.73		ug/kg	5.0	50		97	70-130	7.5	30
Chlorobenzene	48.87		ug/kg	5.0	50		98	70-130	7.4	30
Dichlorodifluoromethane	48.78		ug/kg	5.0	50		98	70-130	10.8	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
LCSD (CB66981-LCSD)					Prepared: Analyzed: 09-Oct-18					
Dibromomethane	49.15		ug/kg	5.0	50		98	70-130	5.2	30
Dibromochloromethane	53.71		ug/kg	3.0	50		107	70-130	5.8	30
cis-1,3-Dichloropropene	50.37		ug/kg	5.0	50		101	70-130	8.2	30
cis-1,2-Dichloroethene	49.89		ug/kg	5.0	50		100	70-130	8.3	30
Chloromethane	46.36		ug/kg	5.0	50		93	70-130	10.2	30
1,4-Dichlorobenzene	49.60		ug/kg	5.0	50		99	70-130	9.5	30
Chloroethane	51.61		ug/kg	5.0	50		103	70-130	8.1	30
4-Chlorotoluene	49.05		ug/kg	5.0	50		98	70-130	7.4	30
Carbon tetrachloride	51.99		ug/kg	5.0	50		104	70-130	11.2	30
Carbon Disulfide	54.83		ug/kg	5.0	50		110	70-130	8.5	30
Bromomethane	49.62		ug/kg	5.0	50		99	70-130	12.9	30
Bromoform	51.39		ug/kg	5.0	50		103	70-130	7.0	30
Bromodichloromethane	51.57		ug/kg	5.0	50		103	70-130	7.0	30
Bromochloromethane	49.38		ug/kg	5.0	50		99	70-130	8.4	30
Bromobenzene	49.35		ug/kg	5.0	50		99	70-130	8.4	30
Benzene	48.64		ug/kg	1.0	50		97	70-130	7.5	30
Acrylonitrile	49.80		ug/kg	5.0	50		100	70-130	7.3	30
Acetone	37.52		ug/kg	10	50		75	70-130	1.3	30
4-Methyl-2-pentanone	47.37		ug/kg	25	50		95	70-130	6.5	30
Chloroform	48.41		ug/kg	5.0	50		97	70-130	7.5	30
Surrogate: % Toluene-d8	50.71		ug/kg		50		101	70-130		
Surrogate: % Dibromofluoromethane	51.14		ug/kg		50		102	70-130		
Surrogate: % Bromofluorobenzene	49.06		ug/kg		50		98	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.98		ug/kg		50		100	70-130		
MS (CB66981-MS)					Source: SC50873-09 Prepared: Analyzed: 09-Oct-18					
2-Isopropyltoluene	43.95		ug/kg	5.0	50		88	70-130		30
4-Chlorotoluene	40.61		ug/kg	5.0	50	BRL	81	70-130		30
4-Methyl-2-pentanone	37.02		ug/kg	25	50	BRL	74	70-130		30
Acetone	55.06	r	ug/kg	10	50		110	70-130		30
Acrylonitrile	39.97		ug/kg	5.0	50	BRL	80	70-130		30
Benzene	40.88		ug/kg	1.0	50	BRL	82	70-130		30
Bromobenzene	40.82		ug/kg	5.0	50	BRL	82	70-130		30
Bromochloromethane	40.18		ug/kg	5.0	50	BRL	80	70-130		30
Dichlorodifluoromethane	36.39		ug/kg	5.0	50	BRL	73	70-130		30
Bromoform	37.50		ug/kg	5.0	50	BRL	75	70-130		30
Carbon Disulfide	34.51	m	ug/kg	5.0	50	BRL	69	70-130		30
Carbon tetrachloride	39.22		ug/kg	5.0	50	BRL	78	70-130		30
Chlorobenzene	40.38		ug/kg	5.0	50	BRL	81	70-130		30
Chloroethane	45.25	r	ug/kg	5.0	50	BRL	91	70-130		30
Chloroform	39.48		ug/kg	5.0	50	BRL	79	70-130		30
Chloromethane	36.12		ug/kg	5.0	50	BRL	72	70-130		30
cis-1,2-Dichloroethene	40.05		ug/kg	5.0	50	BRL	80	70-130		30
cis-1,3-Dichloropropene	39.66		ug/kg	5.0	50	BRL	79	70-130		30
Dibromomethane	40.08		ug/kg	5.0	50	BRL	80	70-130		30
1,2-Dichlorobenzene	40.39		ug/kg	5.0	50	BRL	81	70-130		30
Ethylbenzene	41.13		ug/kg	1.0	50	BRL	82	70-130		30
Dibromochloromethane	41.80		ug/kg	3.0	50	BRL	84	70-130		30
1,2-Dibromo-3-chloropropane	39.33		ug/kg	5.0	50	BRL	79	70-130		30
1,1,1,2-Tetrachloroethane	40.96		ug/kg	5.0	50	BRL	82	70-130		30
1,1,1-Trichloroethane	40.34		ug/kg	5.0	50	BRL	81	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
MS (CB66981-MS)	Source: SC50873-09				Prepared: Analyzed: 09-Oct-18					
1,1,2,2-Tetrachloroethane	29.15	m	ug/kg	3.0	50	BRL	58	70-130		30
1,1,2-Trichloroethane	40.54		ug/kg	5.0	50	BRL	81	70-130		30
1,1-Dichloroethane	40.03		ug/kg	5.0	50	BRL	80	70-130		30
1,1-Dichloroethene	36.39		ug/kg	5.0	50	BRL	73	70-130		30
1,1-Dichloropropene	41.87		ug/kg	5.0	50	BRL	84	70-130		30
1,2,3-Trichlorobenzene	41.26		ug/kg	5.0	50	BRL	83	70-130		30
1,2,3-Trichloropropane	40.84		ug/kg	5.0	50	BRL	82	70-130		30
1,2-Dichloropropane	40.57		ug/kg	5.0	50	BRL	81	70-130		30
1,2,4-Trimethylbenzene	41.60		ug/kg	1.0	50	BRL	83	70-130		30
2-Hexanone	33.07	m	ug/kg	25	50	BRL	66	70-130		30
1,2-Dibromoethane	40.80		ug/kg	5.0	50	BRL	82	70-130		30
Bromomethane	38.95	r	ug/kg	5.0	50	BRL	78	70-130		30
1,2-Dichloroethane	40.53		ug/kg	5.0	50	BRL	81	70-130		30
Hexachlorobutadiene	40.88		ug/kg	5.0	50	BRL	82	70-130		30
1,3,5-Trimethylbenzene	41.02		ug/kg	1.0	50	BRL	82	70-130		30
1,3-Dichlorobenzene	40.62		ug/kg	5.0	50	BRL	81	70-130		30
1,3-Dichloropropane	39.57		ug/kg	5.0	50	BRL	79	70-130		30
1,4-Dichlorobenzene	39.58		ug/kg	5.0	50	BRL	79	70-130		30
2,2-Dichloropropane	38.87		ug/kg	5.0	50	BRL	78	70-130		30
2-Chlorotoluene	41.66		ug/kg	5.0	50	BRL	83	70-130		30
1,2,4-Trichlorobenzene	40.93		ug/kg	5.0	50	BRL	82	70-130		30
Trichlorotrifluoroethane	39.07		ug/kg	5.0	50	BRL	78	70-130		30
Isopropylbenzene	42.59		ug/kg	1.0	50	BRL	85	70-130		30
Bromodichloromethane	41.22		ug/kg	5.0	50	BRL	82	70-130		30
Vinyl chloride	39.16		ug/kg	5.0	50	BRL	78	70-130		30
Trichlorofluoromethane	33.79	m, r	ug/kg	5.0	50	BRL	68	70-130		30
Trichloroethene	51.58		ug/kg	5.0	50	BRL	103	70-130		30
trans-1,4-dichloro-2-butene	200.5		ug/kg	5.0	250	BRL	80	70-130		30
trans-1,3-Dichloropropene	38.74		ug/kg	5.0	50	BRL	77	70-130		30
trans-1,2-Dichloroethene	42.81		ug/kg	5.0	50	BRL	86	70-130		30
Toluene	41.69		ug/kg	1.0	50	BRL	83	70-130		30
Tetrahydrofuran (THF)	95.25		ug/kg	5.0	125	BRL	76	70-130		30
Tetrachloroethene	43.11		ug/kg	5.0	50	BRL	86	70-130		30
Methyl t-butyl ether (MTBE)	44.50		ug/kg	1.0	50	BRL	89	70-130		30
Styrene	40.98		ug/kg	5.0	50	BRL	82	70-130		30
sec-Butylbenzene	42.84		ug/kg	1.0	50	BRL	86	70-130		30
p-Isopropyltoluene	41.86		ug/kg	1.0	50	BRL	84	70-130		30
o-Xylene	41.71		ug/kg	2.0	50	BRL	83	70-130		30
n-Propylbenzene	42.13		ug/kg	1.0	50	BRL	84	70-130		30
n-Butylbenzene	41.21		ug/kg	1.0	50	BRL	82	70-130		30
Naphthalene	43.83		ug/kg	5.0	50	BRL	88	70-130		30
Methylene chloride	35.29		ug/kg	5.0	50	BRL	71	70-130		30
Methyl Ethyl Ketone	33.55	m	ug/kg	5.0	50	BRL	67	70-130		30
m&p-Xylene	81.22		ug/kg	2.0	100	BRL	81	70-130		30
tert-Butylbenzene	41.76		ug/kg	1.0	50	BRL	84	70-130		30
Surrogate: % 1,2-dichlorobenzene-d4	50.48		ug/kg		50		101	70-130		
Surrogate: % Bromofluorobenzene	48.94		ug/kg		50		98	70-130		
Surrogate: % Dibromofluoromethane	48.64		ug/kg		50		97	70-130		
Surrogate: % Toluene-d8	51.02		ug/kg		50		102	70-130		
MSD (CB66981-MSD)	Source: SC50873-09				Prepared: Analyzed: 09-Oct-18					

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
MSD (CB66981-MSD)				Source: SC50873-09		Prepared:	Analyzed: 09-Oct-18			
2-Isopropyltoluene	48.01		ug/kg	5.0	50		96	70-130	8.7	30
Dibromomethane	43.93		ug/kg	5.0	50	BRL	88	70-130	9.5	30
Dichlorodifluoromethane	39.80		ug/kg	5.0	50	BRL	80	70-130	9.2	30
Chloroform	42.26		ug/kg	5.0	50	BRL	85	70-130	7.3	30
Hexachlorobutadiene	45.18		ug/kg	5.0	50	BRL	90	70-130	9.3	30
Ethylbenzene	44.47		ug/kg	1.0	50	BRL	89	70-130	8.2	30
Dibromochloromethane	44.75		ug/kg	3.0	50	BRL	89	70-130	5.8	30
cis-1,3-Dichloropropene	42.96		ug/kg	5.0	50	BRL	86	70-130	8.5	30
Carbon Disulfide	39.30		ug/kg	5.0	50	BRL	79	70-130	13.5	30
Chloromethane	38.29		ug/kg	5.0	50	BRL	77	70-130	6.7	30
Chloroethane	38.36	m, r	ug/kg	5.0	20	BRL	192	70-130	71.4	30
Chlorobenzene	44.09		ug/kg	5.0	50	BRL	88	70-130	8.3	30
Carbon tetrachloride	42.53		ug/kg	5.0	50	BRL	85	70-130	8.6	30
Isopropylbenzene	46.10		ug/kg	1.0	50	BRL	92	70-130	7.9	30
Tetrachloroethene	45.59		ug/kg	5.0	50	BRL	91	70-130	5.6	30
cis-1,2-Dichloroethene	43.88		ug/kg	5.0	50	BRL	88	70-130	9.5	30
sec-Butylbenzene	46.92		ug/kg	1.0	50	BRL	94	70-130	8.9	30
Trichlorotrifluoroethane	44.79		ug/kg	5.0	50	BRL	90	70-130	14.3	30
Trichlorofluoromethane	20.87	r	ug/kg	5.0	20	BRL	104	70-130	41.9	30
Trichloroethene	57.03		ug/kg	5.0	50	BRL	114	70-130	10.1	30
trans-1,4-dichloro-2-butene	236.0		ug/kg	5.0	250	BRL	94	70-130	16.1	30
trans-1,3-Dichloropropene	42.52		ug/kg	5.0	50	BRL	85	70-130	9.9	30
trans-1,2-Dichloroethene	40.35		ug/kg	5.0	50	BRL	81	70-130	6.0	30
Toluene	44.25		ug/kg	1.0	50	BRL	89	70-130	7.0	30
Tetrahydrofuran (THF)	102.9		ug/kg	5.0	125	BRL	82	70-130	7.6	30
Styrene	44.37		ug/kg	5.0	50	BRL	89	70-130	8.2	30
Bromomethane	36.81	m, r	ug/kg	5.0	20	BRL	184	70-130	80.9	30
m&p-Xylene	87.40		ug/kg	2.0	100	BRL	87	70-130	7.1	30
p-Isopropyltoluene	45.89		ug/kg	1.0	50	BRL	92	70-130	9.1	30
o-Xylene	45.11		ug/kg	2.0	50	BRL	90	70-130	8.1	30
n-Propylbenzene	45.26		ug/kg	1.0	50	BRL	91	70-130	8.0	30
n-Butylbenzene	44.84		ug/kg	1.0	50	BRL	90	70-130	9.3	30
Naphthalene	50.73		ug/kg	5.0	50	BRL	101	70-130	13.8	30
Methylene chloride	39.29		ug/kg	5.0	50	BRL	79	70-130	10.7	30
Methyl t-butyl ether (MTBE)	47.82		ug/kg	1.0	50	BRL	96	70-130	7.6	30
Methyl Ethyl Ketone	37.37		ug/kg	5.0	50	BRL	75	70-130	11.3	30
tert-Butylbenzene	45.65		ug/kg	1.0	50	BRL	91	70-130	8.0	30
1,2-Dibromo-3-chloropropane	43.71		ug/kg	5.0	50	BRL	87	70-130	9.6	30
1,1-Dichloroethane	43.15		ug/kg	5.0	50	BRL	86	70-130	7.2	30
1,1-Dichloroethene	39.77		ug/kg	5.0	50	BRL	80	70-130	9.2	30
1,1-Dichloropropene	44.74		ug/kg	5.0	50	BRL	89	70-130	5.8	30
1,2,3-Trichlorobenzene	47.33		ug/kg	5.0	50	BRL	95	70-130	13.5	30
1,2,3-Trichloropropane	40.05		ug/kg	5.0	50	BRL	80	70-130	2.5	30
1,2,4-Trichlorobenzene	45.37		ug/kg	5.0	50	BRL	91	70-130	10.4	30
2,2-Dichloropropane	43.37		ug/kg	5.0	50	BRL	87	70-130	10.9	30
Vinyl chloride	42.11		ug/kg	5.0	50	BRL	84	70-130	7.4	30
1,1,1-Trichloroethane	43.28		ug/kg	5.0	50	BRL	87	70-130	7.1	30
1,2-Dibromoethane	44.05		ug/kg	5.0	50	BRL	88	70-130	7.1	30
1,2-Dichlorobenzene	43.98		ug/kg	5.0	50	BRL	88	70-130	8.3	30
1,2-Dichloroethane	43.24		ug/kg	5.0	50	BRL	86	70-130	6.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451157A - SW8260C										
MSD (CB66981-MSD)				Source: SC50873-09		Prepared:	Analyzed: 09-Oct-18			
1,2-Dichloropropane	42.54		ug/kg	5.0	50	BRL	85	70-130	4.8	30
1,3,5-Trimethylbenzene	44.75		ug/kg	1.0	50	BRL	90	70-130	9.3	30
1,3-Dichlorobenzene	44.39		ug/kg	5.0	50	BRL	89	70-130	9.4	30
1,3-Dichloropropane	42.10		ug/kg	5.0	50	BRL	84	70-130	6.1	30
1,2,4-Trimethylbenzene	44.14		ug/kg	1.0	50	BRL	88	70-130	5.8	30
2-Chlorotoluene	45.17		ug/kg	5.0	50	BRL	90	70-130	8.1	30
Bromodichloromethane	44.78		ug/kg	5.0	50	BRL	90	70-130	9.3	30
Bromochloromethane	44.04		ug/kg	5.0	50	BRL	88	70-130	9.5	30
Bromobenzene	44.54		ug/kg	5.0	50	BRL	89	70-130	8.2	30
Benzene	43.43		ug/kg	1.0	50	BRL	87	70-130	5.9	30
Acrylonitrile	43.89		ug/kg	5.0	50	BRL	88	70-130	9.5	30
Acetone	29.53	m, r	ug/kg	10	50		59	70-130	60.4	30
4-Methyl-2-pentanone	39.55		ug/kg	25	50	BRL	79	70-130	6.5	30
1,1,2-Trichloroethane	44.27		ug/kg	5.0	50	BRL	89	70-130	9.4	30
2-Hexanone	36.64		ug/kg	25	50	BRL	73	70-130	10.1	30
1,1,2,2-Tetrachloroethane	28.49	m	ug/kg	3.0	50	BRL	57	70-130	1.7	30
1,4-Dichlorobenzene	43.34		ug/kg	5.0	50	BRL	87	70-130	9.6	30
1,1,1,2-Tetrachloroethane	44.80		ug/kg	5.0	50	BRL	90	70-130	9.3	30
Bromoform	41.12		ug/kg	5.0	50	BRL	82	70-130	8.9	30
4-Chlorotoluene	43.15		ug/kg	5.0	50	BRL	86	70-130	6.0	30
Surrogate: % 1,2-dichlorobenzene-d4	51.12		ug/kg		50		102	70-130		
Surrogate: % Bromofluorobenzene	49.66		ug/kg		50		99	70-130		
Surrogate: % Dibromofluoromethane	49.43		ug/kg		50		99	70-130		
Surrogate: % Toluene-d8	49.89		ug/kg		50		100	70-130		

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J.	Estimated Below RL
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
m	This parameter is outside laboratory ms/msd specified recovery limits.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR5	RPD out of acceptance range.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
r	This parameter is outside laboratory rpd specified recovery limits.
R01	The Reporting Limit has been raised to account for matrix interference.
S	Laboratory solvent, contamination is possible.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
SAC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
SBN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
SDUP	Duplicate analysis confirmed surrogate failure due to matrix effects.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

☒ Standard TAT - 7 to 10 business days☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To:

Invoice To:

Project No:

Site Name:

South Norwalk Water Treatment

Location:

Brooklyn NY

Sample(s):

Jard Cases

Telephone #: 342-803-8122

P.O. No. 60558115

Quote #: 44902

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= 12=

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may applyDW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= X2= X3=

G= Grab

C=Composite

Type Matrix

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Containers

Analysis

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
Standard ☐ No QC
☐ DSP A* ☐ DSP B*
☐ ND Reduced* ☐ ND Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards: _____

Lab ID:

Sample ID:

Date:

Time:

Type Matrix

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
Standard ☐ No QC
☐ DSP A* ☐ DSP B*
☐ ND Reduced* ☐ ND Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards: _____

SC500309

B-9 (0-2)

10/2/18

14:31

6

50

3

1

X

X

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X

X

X

10

B-9 (5-7)

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14:10

6

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14:10

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14:10

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X

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Do Not Lift Using This Tag

SVC: PRIORITY OVERN.

ORIGIN ID:EHTA (000) 000-0000
ATTN: JOHN CRESPO
RECOM ENVIRONMENT
4 DASKAMS LANE, UNIT 304

NORWALK, CT 06851
UNITED STATES US

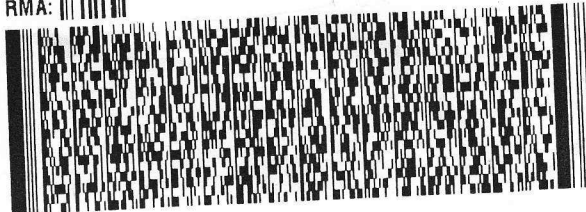
SHIP DATE: 25SEP18
ACTWGT: 40.00 LB MAN
CAD: 0654830/CAFE3210

TO **ROBERT BRISTOL**
EUROFINS SPECTRUM ANALYTICAL, INC.
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018
REF: # 45558

RMA: 111111



FedEx
Express



J18111804200104

TRK# 4457 6111 5882
0221

RETURNS MON-SAT
PRIORITY OVERNIGHT

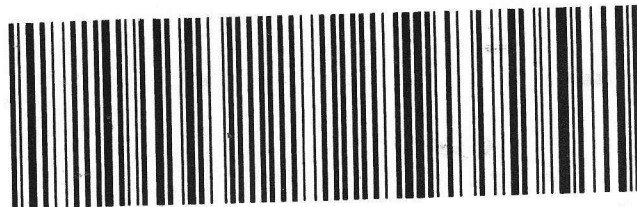
01001

FedEx
TRK# 4457 6111 5882
0221

FRI - 05 OCT 10:30A
PRIORITY OVERNIGHT

EB EHTA

01001
MA-US BDL



Batch Summary

'Inonel'

Subcontracted Analyses

SC50873-01 (B-12 (0-2))
SC50873-02 (B-12 (7-9))
SC50873-04 (B-6 (0-2))
SC50873-05 (B-6 (5-7))
SC50873-07 (B-7 (0-2))
SC50873-08 (B-7 (5-7))
SC50873-09 (B-9 (0-2))
SC50873-10 (B-9 (5-7))

1813382

General Chemistry Parameters

SC50873-01 (B-12 (0-2))
SC50873-02 (B-12 (7-9))
SC50873-04 (B-6 (0-2))
SC50873-05 (B-6 (5-7))

1813385

General Chemistry Parameters

1813385-DUP1
1813385-DUP2
SC50873-07 (B-7 (0-2))
SC50873-08 (B-7 (5-7))
SC50873-09 (B-9 (0-2))
SC50873-10 (B-9 (5-7))

1813400

Semivolatile Organic Compounds by GCMS

1813400-BLK1
1813400-BS1
1813400-BSD1
SC50873-03 (GW-6)
SC50873-06 (GW-3)

1813548

Semivolatile Organic Compounds by GCMS

1813548-BLK1
1813548-BS1
1813548-BSD1
1813548-DUP1
1813548-MS1
1813548-MSD1
SC50873-01 (B-12 (0-2))
SC50873-02 (B-12 (7-9))
SC50873-04 (B-6 (0-2))
SC50873-05 (B-6 (5-7))
SC50873-07 (B-7 (0-2))
SC50873-08 (B-7 (5-7))
SC50873-09 (B-9 (0-2))
SC50873-10 (B-9 (5-7))

1813793

Semivolatile Organic Compounds by GCMS

1813793-BLK1
1813793-BS1
1813793-BSD1
SC50873-08RE1 (B-7 (5-7))
SC50873-09RE1 (B-9 (0-2))

450906A

Subcontracted Analyses

CB66976-BLK
CB66976-LCS
CB66976-LCSD
CB66976-MS
CB66976-MSD
SC50873-01 (B-12 (0-2))
SC50873-02 (B-12 (7-9))
SC50873-04 (B-6 (0-2))
SC50873-05 (B-6 (5-7))
SC50873-07 (B-7 (0-2))
SC50873-08 (B-7 (5-7))
SC50873-10 (B-9 (5-7))
SC50873-11 (Trip Blank-S)

451011A

Subcontracted Analyses

CB66880-BLK
CB66880-LCS
CB66880-LCSD
SC50873-03 (GW-6)
SC50873-06 (GW-3)
SC50873-12 (Trip Blank-W)

451157A

Subcontracted Analyses

CB66981-BLK
CB66981-LCS
CB66981-LCSD
CB66981-MS
CB66981-MSD
SC50873-09 (B-9 (0-2))

S820940**Semivolatile Organic Compounds by GCMS**

S820940-CAL1
S820940-CAL2
S820940-CAL3
S820940-CAL4
S820940-CAL5
S820940-CAL6
S820940-CAL7
S820940-CAL8
S820940-CAL9
S820940-CALA
S820940-ICV1
S820940-LCV1
S820940-LCV2
S820940-TUN1

S821565**Semivolatile Organic Compounds by GCMS**

S821565-CAL1
S821565-CAL2
S821565-CAL3
S821565-CAL4
S821565-CAL5
S821565-CAL6
S821565-CAL7
S821565-CAL8
S821565-CAL9
S821565-CALA
S821565-ICV1
S821565-LCV1
S821565-LCV2
S821565-TUN1

S822584**Semivolatile Organic Compounds by GCMS**

S822584-CCV1
S822584-TUN1

S822615**Semivolatile Organic Compounds by GCMS**

S822615-CCV1
S822615-TUN1

S822638**Semivolatile Organic Compounds by GCMS**

S822638-CCV1
S822638-TUN1

S822649**Semivolatile Organic Compounds by GCMS**

S822649-CCV1
S822649-TUN1

S822677**Semivolatile Organic Compounds by GCMS**

S822677-CCV1
S822677-TUN1

S822683**Semivolatile Organic Compounds by GCMS**

S822683-CCV1
S822683-TUN1

S822724**Semivolatile Organic Compounds by GCMS**

S822724-CCV1
S822724-TUN1

S822731**Semivolatile Organic Compounds by GCMS**

S822731-CCV1
S822731-TUN1

S822753**Semivolatile Organic Compounds by GCMS**

S822753-CCV1
S822753-TUN1

Report Date:
23-Oct-18 16:38

Laboratory Report SC50907

AECOM Environment
125 Broad St
, 15th Floor
New York, NY 10005

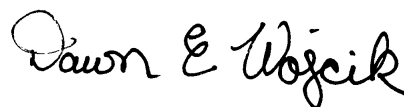
Project: South Brooklyn Terminal - Brooklyn, NY
Project #: 60558675

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 94 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC50907
Project: South Brooklyn Terminal - Brooklyn, NY
Project Number: 60558675

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC50907-01	B-10 (0-2)	Soil	05-Oct-18 09:26	06-Oct-18 10:30
SC50907-02	B-10 (4-6)	Soil	05-Oct-18 09:45	06-Oct-18 10:30
SC50907-03	GW-4	Ground Water	05-Oct-18 10:45	06-Oct-18 10:30
SC50907-04	B-8 (0-2)	Soil	05-Oct-18 11:30	06-Oct-18 10:30
SC50907-05	B-8 (4-6)	Soil	05-Oct-18 11:40	06-Oct-18 10:30
SC50907-06	FB20181005	Ground Water	05-Oct-18 09:55	06-Oct-18 10:30
SC50907-07	B-13 (0-2)	Soil	05-Oct-18 13:20	06-Oct-18 10:30
SC50907-08	B-13 (2 1/2-4 1/2)	Soil	05-Oct-18 13:40	06-Oct-18 10:30
SC50907-09	GW-7	Ground Water	05-Oct-18 14:20	06-Oct-18 10:30
SC50907-10	TB-W	Trip Blank	05-Oct-18 14:20	06-Oct-18 10:30
SC50907-11	TB-S	Trip Blank	05-Oct-18 00:00	06-Oct-18 10:30

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 0.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8260C

Samples:

SC50907-03	GW-4

Estimated Below RL

1,1-Dichloroethane
Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50907-04	B-8 (0-2)

Estimated Below RL

Acetone
Naphthalene

Laboratory solvent, contamination is possible.

Acetone

SC50907-05	B-8 (4-6)

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50907-06	FB20181005

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50907-07	B-13 (0-2)

SW8260C

Samples:

SC50907-07 *B-13 (0-2)*

Estimated Below RL

Acetone
Methyl Ethyl Ketone

Laboratory solvent, contamination is possible.

Acetone

SC50907-08 *B-13 (2 1/2-4 1/2)*

Estimated Below RL

Acetone

Laboratory solvent, contamination is possible.

Acetone

SC50907-09 *GW-7*

Estimated Below RL

Acetone
Chlorobenzene

Laboratory solvent, contamination is possible.

Acetone

CB68033-MS

This parameter is outside laboratory ms/msd specified recovery limits.

2-Hexanone
Acrylonitrile
Methyl Ethyl Ketone

CB68033-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

1,2,3-Trichlorobenzene
2-Hexanone
Acrylonitrile

CB68179-LCSD

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Bromomethane

CB68179-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Vinyl chloride

CB68179-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

Vinyl chloride

SW846 8270D

Calibration:

SW846 8270D

Calibration:

1808015

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Aniline
Benzidine
Benzoic acid
Carbazole
Hexachlorocyclopentadiene

This affected the following samples:

1813545-BLK1
1813545-BS1
1813545-BSD1
1813545-MS1
1813545-MSD1
FB20181005
GW-4
GW-7
S821565-ICV1
S822642-CCV1
S822677-CCV1
S822705-CCV1
S822740-CCV1

Laboratory Control Samples:

1813545 BSD

Benzidine RPD 25% (20%) is outside individual acceptance criteria.

1813545-BSD1

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzidine

1813739 BS/BSD

Benzoic acid percent recoveries (149/159) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-10 (0-2)
B-10 (4-6)
B-13 (0-2)
B-13 (2 1/2-4 1/2)
B-8 (0-2)
B-8 (4-6)

Benzoic acid percent recoveries (25/21) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-10 (0-2)
B-10 (4-6)
B-13 (0-2)
B-13 (2 1/2-4 1/2)
B-8 (0-2)
B-8 (4-6)

SW846 8270D

Laboratory Control Samples:

1813739 BS/BSD

Carbazole percent recoveries (174/160) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-10 (0-2)
B-10 (4-6)
B-13 (0-2)
B-13 (2 1/2-4 1/2)
B-8 (0-2)
B-8 (4-6)

1813739-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

1813739-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

Spikes:

1813545-MS1 *Source: SC50907-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

4-Nitrophenol
Benzidine
Benzoic acid
Carbazole
Phenol

1813545-MSD1 *Source: SC50907-03*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

3,3'-Dichlorobenzidine
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzoic acid
Chrysene
Di-n-octyl phthalate

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

4-Nitrophenol
Aniline
Benzidine
Benzoic acid
Carbazole
Phenol

Samples:

S822642-CCV1

SW846 8270D

Samples:

S822642-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (26.3%)
4-Chlorophenyl phenyl ether (21.5%)
Azobenzene/Diphenyldiazene (20.3%)
Benzo (b) fluoranthene (31.5%)
Benzyl alcohol (-32.5%)
N-Nitrosodimethylamine (31.5%)
Pyridine (25.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (27.1%)
Benzidine (37.5%)
Hexachlorocyclopentadiene (28.7%)

This affected the following samples:

1813545-BLK1
1813545-BS1
1813545-BSD1

S822677-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (26.3%)
4-Chlorophenyl phenyl ether (21.5%)
Azobenzene/Diphenyldiazene (20.3%)
Benzo (b) fluoranthene (31.5%)
Benzyl alcohol (-32.5%)
N-Nitrosodimethylamine (31.5%)
Pyridine (25.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (27.1%)
Benzidine (37.5%)
Hexachlorocyclopentadiene (28.7%)

This affected the following samples:

1813545-MS1
1813545-MSD1

S822705-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Chlorophenyl phenyl ether (20.2%)
Azobenzene/Diphenyldiazene (25.8%)
Benzyl alcohol (-21.2%)
Dibenzo (a,h) anthracene (33.7%)
Diethyl phthalate (24.4%)
Di-n-octyl phthalate (25.6%)
Indeno (1,2,3-cd) pyrene (20.5%)
N-Nitrosodiphenylamine (20.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (28.5%)
Benzoic acid (-32.3%)
Carbazole (31.9%)

SW846 8270D

Samples:

S822705-CCV1

This affected the following samples:

FB20181005
GW-4

S822724-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (23.2%)
2-Chloronaphthalene (24.9%)
3,3'-Dichlorobenzidine (43.2%)
4-Chlorophenyl phenyl ether (29.2%)
Azobenzene/Diphenyldiazene (20.1%)
Benzo (b) fluoranthene (28.1%)
Benzyl alcohol (-28.5%)
Diethyl phthalate (32.9%)
Di-n-octyl phthalate (26.8%)
Fluorene (22.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (33.7%)
Benzoic acid (-23.3%)
Carbazole (39.5%)

This affected the following samples:

1813739-BLK1
1813739-BS1
1813739-BSD1

S822740-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3,3'-Dichlorobenzidine (54.5%)
Acenaphthene (20.7%)
Azobenzene/Diphenyldiazene (22.3%)
Bis(2-ethylhexyl)phthalate (33.1%)
Di-n-octyl phthalate (23.3%)
Pyridine (29.3%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (44.9%)
Benzidine (53.8%)
Benzoic acid (-22.8%)
Carbazole (50.6%)

This affected the following samples:

GW-7

S822752-CCV1

SW846 8270D

Samples:

S822752-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (29.7%)
3,3'-Dichlorobenzidine (54.6%)
4-Chlorophenyl phenyl ether (20.2%)
Acenaphthylene (27.8%)
Azobenzene/Diphenyldiazene (25.3%)
Benzo (b) fluoranthene (37.7%)
Benzyl alcohol (-25.7%)
Dibenzo (a,h) anthracene (24.7%)
Diethyl phthalate (24.9%)
Di-n-octyl phthalate (39.0%)
N-Nitrosodiphenylamine (24.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (43.0%)
Carbazole (72.8%)
Hexachlorocyclopentadiene (22.1%)

This affected the following samples:

B-10 (0-2)
B-10 (4-6)
B-8 (0-2)

S822753-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3,3'-Dichlorobenzidine (54.1%)
Acenaphthylene (20.7%)
Pyridine (20.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (39.9%)
Benzidine (72.6%)
Benzoic acid (-25.0%)
Carbazole (49.7%)

This affected the following samples:

1813739-DUP1
B-13 (0-2)
B-13 (2 1/2-4 1/2)
B-8 (4-6)

SC50907-01 *B-10 (0-2)*

The Reporting Limit has been raised to account for matrix interference.

SC50907-04 *B-8 (0-2)*

The Reporting Limit has been raised to account for matrix interference.

SC50907-07 *B-13 (0-2)*

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2,4,6-Tribromophenol

SW846 8270D

Samples:

SC50907-07

B-13 (0-2)

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client: AECOM Environment - NY, NY
Project: South Brooklyn Terminal - Brooklyn, NY / 60558675
Work Order: SC50907
Sample(s) received on: 10/6/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☒	☐	☐
Were custody seals intact?	☒	☐	☐
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC50907-02

Client ID: B-10 (4-6)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Bis(2-ethylhexyl)phthalate	188		178	µg/kg	SW846 8270D

Lab ID: SC50907-03

Client ID: GW-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethane	0.31	J.	1.0	ug/l	SW8260C
Acetone	2.8	J., S	25	ug/l	SW8260C

Lab ID: SC50907-04

Client ID: B-8 (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	18	J., S	28	ug/kg	SW8260C
Naphthalene	1.4	J.	5.5	ug/kg	SW8260C
Benzo (a) pyrene	1350	J, D	3380	µg/kg	SW846 8270D
Fluoranthene	2820	J, D	3380	µg/kg	SW846 8270D
Phenanthrene	1690	J, D	3380	µg/kg	SW846 8270D
Pyrene	2800	J, D	3380	µg/kg	SW846 8270D

Lab ID: SC50907-05

Client ID: B-8 (4-6)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	6.0	J., S	22	ug/kg	SW8260C
Benzo (a) anthracene	66.7	J	75.0	µg/kg	SW846 8270D
Benzo (a) pyrene	50.2	J	75.0	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	31.9	J	75.0	µg/kg	SW846 8270D
Benzo (k) fluoranthene	42.4	J	75.0	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	72.4	J	188	µg/kg	SW846 8270D
Chrysene	64.5	J	75.0	µg/kg	SW846 8270D
Fluoranthene	152		75.0	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	30.4	J	75.0	µg/kg	SW846 8270D
Phenanthrene	135		75.0	µg/kg	SW846 8270D
Pyrene	123		75.0	µg/kg	SW846 8270D

Lab ID: SC50907-06

Client ID: FB20181005

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	2.9	J., S	25	ug/l	SW8260C

Lab ID: SC50907-07

Client ID: B-13 (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	25	J., S	26	ug/kg	SW8260C
Methyl Ethyl Ketone	8.4	J.	26	ug/kg	SW8260C

Lab ID: SC50907-08**Client ID:** B-13 (2 1/2-4 1/2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	15	J, S	24	ug/kg	SW8260C
Benzo (a) anthracene	49.0	J	72.2	µg/kg	SW846 8270D
Benzo (a) pyrene	36.4	J	72.2	µg/kg	SW846 8270D
Benzo (k) fluoranthene	34.6	J	72.2	µg/kg	SW846 8270D
Chrysene	43.6	J	72.2	µg/kg	SW846 8270D
Fluoranthene	77.2		72.2	µg/kg	SW846 8270D
Pyrene	67.8	J	72.2	µg/kg	SW846 8270D

Lab ID: SC50907-09**Client ID:** GW-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	3.1	J, S	25	ug/l	SW8260C
Chlorobenzene	0.30	J.	1.0	ug/l	SW8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

B-10 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50907-01	60558675	Soil	05-Oct-18 09:26	06-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 1940	U, D	µg/kg dry	1940	965	5	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 1940	U, D	µg/kg dry	1940	956	5	"	"	"	"	"	X
62-53-3	Aniline	< 9590	U, D	µg/kg dry	9590	689	5	"	"	"	"	"	X
120-12-7	Anthracene	< 1940	U, D	µg/kg dry	1940	927	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 9590	U, D	µg/kg dry	9590	943	5	"	"	"	"	"	
92-87-5	Benzidine	< 19200	U, D	µg/kg dry	19200	1930	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1940	U, D	µg/kg dry	1940	1020	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 1940	U, D	µg/kg dry	1940	722	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 1940	U, D	µg/kg dry	1940	939	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1940	U, D	µg/kg dry	1940	779	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1940	U, D	µg/kg dry	1940	759	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 9590	U, D	µg/kg dry	9590	2010	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 9590	U, D	µg/kg dry	9590	785	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 9590	U, D	µg/kg dry	9590	852	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4850	U, D	µg/kg dry	4850	695	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4850	U, D	µg/kg dry	4850	747	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4850	U, D	µg/kg dry	4850	1200	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 9590	U, D	µg/kg dry	9590	898	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 9590	U, D	µg/kg dry	9590	1120	5	"	"	"	"	"	X
86-74-8	Carbazole	< 4850	U, D	µg/kg dry	4850	2710	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 9590	U, D	µg/kg dry	9590	915	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4850	U, D	µg/kg dry	4850	1050	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 9590	U, D	µg/kg dry	9590	886	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4850	U, D	µg/kg dry	4850	863	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 9590	U, D	µg/kg dry	9590	1140	5	"	"	"	"	"	X
218-01-9	Chrysene	< 1940	U, D	µg/kg dry	1940	968	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1940	U, D	µg/kg dry	1940	744	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4850	U, D	µg/kg dry	4850	738	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 9590	U, D	µg/kg dry	9590	837	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 9590	U, D	µg/kg dry	9590	837	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 9590	U, D	µg/kg dry	9590	889	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 9590	U, D	µg/kg dry	9590	1460	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4850	U, D	µg/kg dry	4850	907	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 9590	U, D	µg/kg dry	9590	1190	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 9590	U, D	µg/kg dry	9590	1050	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 9590	U, D	µg/kg dry	9590	686	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 9590	U, D	µg/kg dry	9590	1020	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 9590	U, D	µg/kg dry	9590	1230	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 9590	U, D	µg/kg dry	9590	976	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4850	U, D	µg/kg dry	4850	1880	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4850	U, D	µg/kg dry	4850	1090	5	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

B-10 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50907-01	60558675	Soil	05-Oct-18 09:26	06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 9590	U, D	µg/kg dry	9590	1080	5	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	< 1940	U, D	µg/kg dry	1940	1020	5	"	"	"	"	"	X
86-73-7	Fluorene	< 1940	U, D	µg/kg dry	1940	985	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4850	U, D	µg/kg dry	4850	955	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4850	U, D	µg/kg dry	4850	1160	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4850	U, D	µg/kg dry	4850	660	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4850	U, D	µg/kg dry	4850	1050	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1940	U, D	µg/kg dry	1940	697	5	"	"	"	"	"	X
78-59-1	Isophorone	< 4850	U, D	µg/kg dry	4850	910	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1940	U, D	µg/kg dry	1940	1170	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 9590	U, D	µg/kg dry	9590	815	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9590	U, D	µg/kg dry	9590	927	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 1940	U, D	µg/kg dry	1940	904	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 9590	U, D	µg/kg dry	9590	814	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 9590	U, D	µg/kg dry	9590	1310	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4850	U, D	µg/kg dry	4850	1490	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4850	U, D	µg/kg dry	4850	883	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4850	U, D	µg/kg dry	4850	805	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 38400	U, D	µg/kg dry	38400	1550	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4850	U, D	µg/kg dry	4850	901	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4850	U, D	µg/kg dry	4850	945	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 9590	U, D	µg/kg dry	9590	1040	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 9590	U, D	µg/kg dry	9590	1020	5	"	"	"	"	"	X
85-01-8	Phenanthrene	< 1940	U, D	µg/kg dry	1940	902	5	"	"	"	"	"	X
108-95-2	Phenol	< 9590	U, D	µg/kg dry	9590	631	5	"	"	"	"	"	X
129-00-0	Pyrene	< 1940	U, D	µg/kg dry	1940	1080	5	"	"	"	"	"	X
110-86-1	Pyridine	< 9590	U, D	µg/kg dry	9590	1430	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 9590	U, D	µg/kg dry	9590	950	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1940	U, D	µg/kg dry	1940	953	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 9590	U, D	µg/kg dry	9590	863	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4850	U, D	µg/kg dry	4850	866	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 9590	U, D	µg/kg dry	9590	1510	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 9590	U, D	µg/kg dry	9590	930	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	65		30-130 %		"	"	"	"	"
367-12-4	2-Fluorophenol	60		30-130 %		"	"	"	"	"
4165-60-0	Nitrobenzene-d5	60		30-130 %		"	"	"	"	"
4165-62-2	Phenol-d5	57		30-130 %		"	"	"	"	"
1718-51-0	Terphenyl-dl4	80		30-130 %		"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	40		30-130 %		"	"	"	"	"

General Chemistry Parameters

% Solids	85.7	%	1	SM2540 G (11) Mod.	08-Oct-18	08-Oct-18	BD	1813423

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-10 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50907-01	60558675	Soil	05-Oct-18 09:26	06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 6.1		ug/kg	6.1	1.2	1	SW8260C	05-Oct-18 09:26	09-Oct-18 23:54	M-CT0	451220A	
71-55-6	1,1,1-Trichloroethane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 31		ug/kg	31	6.1	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 31		ug/kg	31	6.1	1	"	"	"	"	"	
67-64-1	Acetone	< 31		ug/kg	31	6.1	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 12		ug/kg	12	0.61	1	"	"	"	"	"	
71-43-2	Benzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
75-25-2	Bromoform	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
74-83-9	Bromomethane	< 6.1		ug/kg	6.1	2.5	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
75-00-3	Chloroethane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
67-66-3	Chloroform	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
74-87-3	Chloromethane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification**B-10 (0-2)**

SC50907-01

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 09:26

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 6.1		ug/kg	6.1	1.2	1	SW8260C	05-Oct-18 09:26	09-Oct-18 23:54	M-CT0	451220A	
75-71-8	Dichlorodifluoromethane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 31		ug/kg	31	6.1	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 12		ug/kg	12	1.2	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 12		ug/kg	12	6.1	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
91-20-3	Naphthalene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
95-47-6	o-Xylene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
100-42-5	Styrene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 12		ug/kg	12	3.1	1	"	"	"	"	"	
108-88-3	Toluene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 6.1		ug/kg	6.1	6.1	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 12		ug/kg	12	3.1	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 6.1		ug/kg	6.1	1.2	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 6.1		ug/kg	6.1	0.61	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	86			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	99			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	91			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	83	%					1	SW846-%Solid	"	09-Oct-18 20:08	M-CT0	'[none]'	

Sample Identification

B-10 (4-6)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50907-02	60558675	Soil	05-Oct-18 09:45	06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 71.2	U	µg/kg dry	71.2	35.5	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 71.2	U	µg/kg dry	71.2	35.1	1	"	"	"	"	"	X
62-53-3	Aniline	< 353	U	µg/kg dry	353	25.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 71.2	U	µg/kg dry	71.2	34.1	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 353	U	µg/kg dry	353	34.7	1	"	"	"	"	"	
92-87-5	Benzidine	< 705	U	µg/kg dry	705	70.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 71.2	U	µg/kg dry	71.2	37.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 71.2	U	µg/kg dry	71.2	26.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 71.2	U	µg/kg dry	71.2	34.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 71.2	U	µg/kg dry	71.2	28.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 71.2	U	µg/kg dry	71.2	27.9	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 353	U	µg/kg dry	353	74.0	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 353	U	µg/kg dry	353	28.9	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 353	U	µg/kg dry	353	31.3	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 178	U	µg/kg dry	178	25.6	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 178	U	µg/kg dry	178	27.5	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	188		µg/kg dry	178	44.0	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 353	U	µg/kg dry	353	33.0	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 353	U	µg/kg dry	353	41.1	1	"	"	"	"	"	X
86-74-8	Carbazole	< 178	U	µg/kg dry	178	99.5	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 353	U	µg/kg dry	353	33.6	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 178	U	µg/kg dry	178	38.6	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 353	U	µg/kg dry	353	32.6	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 178	U	µg/kg dry	178	31.7	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 353	U	µg/kg dry	353	41.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 71.2	U	µg/kg dry	71.2	35.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 71.2	U	µg/kg dry	71.2	27.3	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 178	U	µg/kg dry	178	27.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 353	U	µg/kg dry	353	30.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 353	U	µg/kg dry	353	30.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 353	U	µg/kg dry	353	32.7	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 353	U	µg/kg dry	353	53.6	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 178	U	µg/kg dry	178	33.3	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 353	U	µg/kg dry	353	43.6	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 353	U	µg/kg dry	353	38.6	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 353	U	µg/kg dry	353	25.2	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 353	U	µg/kg dry	353	37.4	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 353	U	µg/kg dry	353	45.3	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 353	U	µg/kg dry	353	35.9	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 178	U	µg/kg dry	178	69.0	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 178	U	µg/kg dry	178	40.2	1	"	"	"	"	"	X

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Sample Identification

B-10 (4-6)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50907-02	60558675	Soil	05-Oct-18 09:45	06-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 353	U	µg/kg dry	353	39.8	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	< 71.2	U	µg/kg dry	71.2	37.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 71.2	U	µg/kg dry	71.2	36.2	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 178	U	µg/kg dry	178	35.1	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 178	U	µg/kg dry	178	42.6	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 178	U	µg/kg dry	178	24.2	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 178	U	µg/kg dry	178	38.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 71.2	U	µg/kg dry	71.2	25.6	1	"	"	"	"	"	X
78-59-1	Isophorone	< 178	U	µg/kg dry	178	33.4	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 71.2	U	µg/kg dry	71.2	43.0	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 353	U	µg/kg dry	353	30.0	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 353	U	µg/kg dry	353	34.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 71.2	U	µg/kg dry	71.2	33.2	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 353	U	µg/kg dry	353	29.9	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 353	U	µg/kg dry	353	48.2	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 178	U	µg/kg dry	178	54.9	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 178	U	µg/kg dry	178	32.5	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 178	U	µg/kg dry	178	29.6	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1410	U	µg/kg dry	1410	57.0	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 178	U	µg/kg dry	178	33.1	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 178	U	µg/kg dry	178	34.7	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 353	U	µg/kg dry	353	38.2	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 353	U	µg/kg dry	353	37.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 71.2	U	µg/kg dry	71.2	33.2	1	"	"	"	"	"	X
108-95-2	Phenol	< 353	U	µg/kg dry	353	23.2	1	"	"	"	"	"	X
129-00-0	Pyrene	< 71.2	U	µg/kg dry	71.2	39.7	1	"	"	"	"	"	X
110-86-1	Pyridine	< 353	U	µg/kg dry	353	52.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 353	U	µg/kg dry	353	34.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 71.2	U	µg/kg dry	71.2	35.0	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 353	U	µg/kg dry	353	31.7	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 178	U	µg/kg dry	178	31.8	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 353	U	µg/kg dry	353	55.7	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 353	U	µg/kg dry	353	34.2	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	74		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	77		30-130 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	75		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	74		30-130 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	95		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	83		30-130 %	"	"	"	"	"

General Chemistry Parameters

% Solids	92.5	%	1	SM2540 G (11) Mod.	08-Oct-18	08-Oct-18	BD	1813423

Subcontracted Analyses

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification**B-10 (4-6)**

SC50907-02

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 09:45

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.6		ug/kg	4.6	0.91	1	SW8260C	05-Oct-18 09:26	10-Oct-18 00:15	M-CT0	451220A	
71-55-6	1,1,1-Trichloroethane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 23		ug/kg	23	4.6	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 23		ug/kg	23	4.6	1	"	"	"	"	"	
67-64-1	Acetone	< 23		ug/kg	23	4.6	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.1		ug/kg	9.1	0.46	1	"	"	"	"	"	
71-43-2	Benzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.6		ug/kg	4.6	1.8	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	

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Sample Identification

B-10 (4-6)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50907-02	60558675	Soil	05-Oct-18 09:45	06-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

74-95-3	Dibromomethane	< 4.6		ug/kg	4.6	0.91	1	SW8260C	05-Oct-18 09:26	10-Oct-18 00:15	M-CT0	451220A	
75-71-8	Dichlorodifluoromethane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 23		ug/kg	23	4.6	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.1		ug/kg	9.1	0.91	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.1		ug/kg	9.1	4.6	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
100-42-5	Styrene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.1		ug/kg	9.1	2.3	1	"	"	"	"	"	
108-88-3	Toluene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.6		ug/kg	4.6	4.6	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.1		ug/kg	9.1	2.3	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.6		ug/kg	4.6	0.91	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.6		ug/kg	4.6	0.46	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	93			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	95			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	95			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	93	%				1	SW846-%Solid	"	09-Oct-18 20:08	M-CT0	'[none]'

Sample Identification

GW-4

SC50907-03

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 10:45

Received

06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	1.06	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	1.12	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	0.480	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.85	U	µg/l	4.85	0.939	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	4.44	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.844	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.697	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.650	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.680	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.953	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	1.02	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.85	U	µg/l	4.85	0.849	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.85	U	µg/l	4.85	0.703	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.910	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.453	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.809	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	1.31	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.483	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.909	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.658	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	1.18	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.65	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.53	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.47	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.85	U	µg/l	4.85	0.822	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.913	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	1.76	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.85	U	µg/l	4.85	0.603	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85	1.05	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.85	U	µg/l	4.85	1.17	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.16	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X

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Sample Identification

GW-4

SC50907-03

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 10:45

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.85	U	µg/l	4.85	1.22	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.990	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.945	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	1.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	1.48	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.85	U	µg/l	4.85	1.62	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.564	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.793	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.60	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	1.10	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.85	U	µg/l	4.85	1.32	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.487	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.617	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.611	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.85	U	µg/l	4.85	1.25	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.696	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.4	U	µg/l	19.4	0.756	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.582	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85	1.00	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.754	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.959	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.395	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	1.52	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.15	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.758	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.679	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.780	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	1.07	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	34		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	29		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	46		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	21		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	38		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	38		15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

GW-4

SC50907-03

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 10:45

Received

06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 12:58	M-CT0	451374A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	0.31	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	2.8	J., S	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

GW-4

SC50907-03

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 10:45

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 12:58	M-CT0	451374A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	102			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	100			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	100			70-130 %		"	"	"	"	"	

Sample Identification**B-8 (0-2)**

SC50907-04

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:30

Received

06-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 3380	U, D	µg/kg dry	3380	1680	10	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 3380	U, D	µg/kg dry	3380	1670	10	"	"	"	"	"	X
62-53-3	Aniline	< 16700	U, D	µg/kg dry	16700	1200	10	"	"	"	"	"	X
120-12-7	Anthracene	< 3380	U, D	µg/kg dry	3380	1610	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 16700	U, D	µg/kg dry	16700	1640	10	"	"	"	"	"	
92-87-5	Benzidine	< 33400	U, D	µg/kg dry	33400	3360	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 3380	U, D	µg/kg dry	3380	1780	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,350	J, D	µg/kg dry	3380	1260	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 3380	U, D	µg/kg dry	3380	1630	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 3380	U, D	µg/kg dry	3380	1360	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 3380	U, D	µg/kg dry	3380	1320	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 16700	U, D	µg/kg dry	16700	3510	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 16700	U, D	µg/kg dry	16700	1370	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 16700	U, D	µg/kg dry	16700	1480	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 8450	U, D	µg/kg dry	8450	1210	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 8450	U, D	µg/kg dry	8450	1300	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 8450	U, D	µg/kg dry	8450	2090	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 16700	U, D	µg/kg dry	16700	1560	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 16700	U, D	µg/kg dry	16700	1950	10	"	"	"	"	"	X
86-74-8	Carbazole	< 8450	U, D	µg/kg dry	8450	4720	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 16700	U, D	µg/kg dry	16700	1590	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 8450	U, D	µg/kg dry	8450	1830	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 16700	U, D	µg/kg dry	16700	1540	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 8450	U, D	µg/kg dry	8450	1500	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 16700	U, D	µg/kg dry	16700	1980	10	"	"	"	"	"	X
218-01-9	Chrysene	< 3380	U, D	µg/kg dry	3380	1690	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 3380	U, D	µg/kg dry	3380	1300	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 8450	U, D	µg/kg dry	8450	1290	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 16700	U, D	µg/kg dry	16700	1460	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 16700	U, D	µg/kg dry	16700	1460	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 16700	U, D	µg/kg dry	16700	1550	10	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 16700	U, D	µg/kg dry	16700	2540	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 8450	U, D	µg/kg dry	8450	1580	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 16700	U, D	µg/kg dry	16700	2070	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 16700	U, D	µg/kg dry	16700	1830	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 16700	U, D	µg/kg dry	16700	1190	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 16700	U, D	µg/kg dry	16700	1770	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 16700	U, D	µg/kg dry	16700	2140	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 16700	U, D	µg/kg dry	16700	1700	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 8450	U, D	µg/kg dry	8450	3270	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 8450	U, D	µg/kg dry	8450	1900	10	"	"	"	"	"	X

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Sample Identification**B-8 (0-2)**

SC50907-04

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:30

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 16700	U, D	µg/kg dry	16700	1890	10	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	2,820	J, D	µg/kg dry	3380	1780	10	"	"	"	"	"	X
86-73-7	Fluorene	< 3380	U, D	µg/kg dry	3380	1720	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 8450	U, D	µg/kg dry	8450	1660	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 8450	U, D	µg/kg dry	8450	2020	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 8450	U, D	µg/kg dry	8450	1150	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 8450	U, D	µg/kg dry	8450	1820	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 3380	U, D	µg/kg dry	3380	1210	10	"	"	"	"	"	X
78-59-1	Isophorone	< 8450	U, D	µg/kg dry	8450	1580	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 3380	U, D	µg/kg dry	3380	2040	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 16700	U, D	µg/kg dry	16700	1420	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 16700	U, D	µg/kg dry	16700	1610	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 3380	U, D	µg/kg dry	3380	1570	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 16700	U, D	µg/kg dry	16700	1420	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 16700	U, D	µg/kg dry	16700	2280	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 8450	U, D	µg/kg dry	8450	2600	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 8450	U, D	µg/kg dry	8450	1540	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 8450	U, D	µg/kg dry	8450	1400	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 66800	U, D	µg/kg dry	66800	2700	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 8450	U, D	µg/kg dry	8450	1570	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 8450	U, D	µg/kg dry	8450	1650	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 16700	U, D	µg/kg dry	16700	1810	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 16700	U, D	µg/kg dry	16700	1780	10	"	"	"	"	"	X
85-01-8	Phenanthrene	1,690	J, D	µg/kg dry	3380	1570	10	"	"	"	"	"	X
108-95-2	Phenol	< 16700	U, D	µg/kg dry	16700	1100	10	"	"	"	"	"	X
129-00-0	Pyrene	2,800	J, D	µg/kg dry	3380	1880	10	"	"	"	"	"	X
110-86-1	Pyridine	< 16700	U, D	µg/kg dry	16700	2490	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 16700	U, D	µg/kg dry	16700	1660	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 3380	U, D	µg/kg dry	3380	1660	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 16700	U, D	µg/kg dry	16700	1500	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 8450	U, D	µg/kg dry	8450	1510	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 16700	U, D	µg/kg dry	16700	2640	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 16700	U, D	µg/kg dry	16700	1620	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	53			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	50			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	62			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	43			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	69			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	32			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	98.2	%					1	SM2540 G (11) Mod.	08-Oct-18	08-Oct-18	BD	1813423	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-8 (0-2)**

SC50907-04

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:30

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Subcontracted Analyses													
Subcontracted Analyses													
Prepared by method SW8260C													
Analysis performed by Phoenix Environmental Labs, Inc. * - CT007													
630-20-6	1,1,1,2-Tetrachloroethane	< 5.5		ug/kg	5.5	1.1	1	SW8260C	05-Oct-18 09:26	10-Oct-18 00:36	M-CT0	451220A	
71-55-6	1,1,1-Trichloroethane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 28		ug/kg	28	5.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 28		ug/kg	28	5.5	1	"	"	"	"	"	
67-64-1	Acetone	18	J., S	ug/kg	28	5.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 11		ug/kg	11	0.55	1	"	"	"	"	"	
71-43-2	Benzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.5		ug/kg	5.5	2.2	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	

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Sample Identification**B-8 (0-2)**

SC50907-04

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:30

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 5.5		ug/kg	5.5	1.1	1	SW8260C	05-Oct-18 09:26	10-Oct-18 00:36	M-CT0	451220A	
75-71-8	Dichlorodifluoromethane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 28		ug/kg	28	5.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 11		ug/kg	11	1.1	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 11		ug/kg	11	5.5	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
91-20-3	Naphthalene	1.4	J.	ug/kg	5.5	1.1	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
100-42-5	Styrene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 11		ug/kg	11	2.8	1	"	"	"	"	"	
108-88-3	Toluene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.5		ug/kg	5.5	5.5	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 11		ug/kg	11	2.8	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.5		ug/kg	5.5	1.1	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.5		ug/kg	5.5	0.55	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	"	
460-00-4	% Bromofluorobenzene	92			70-130 %		"	"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	96			70-130 %		"	"	"	"	"	"	
2037-26-5	% Toluene-d8	93			70-130 %		"	"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	99	%					1	SW846-%Solid	"	09-Oct-18 20:08	M-CT0	'[none]'	

Sample Identification**B-8 (4-6)**

SC50907-05

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 75.0	U	µg/kg dry	75.0	37.3	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 75.0	U	µg/kg dry	75.0	37.0	1	"	"	"	"	"	X
62-53-3	Aniline	< 371	U	µg/kg dry	371	26.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 75.0	U	µg/kg dry	75.0	35.9	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 371	U	µg/kg dry	371	36.5	1	"	"	"	"	"	
92-87-5	Benzidine	< 742	U	µg/kg dry	742	74.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	66.7	J	µg/kg dry	75.0	39.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	50.2	J	µg/kg dry	75.0	27.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 75.0	U	µg/kg dry	75.0	36.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	31.9	J	µg/kg dry	75.0	30.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	42.4	J	µg/kg dry	75.0	29.4	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 371	U	µg/kg dry	371	77.9	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 371	U	µg/kg dry	371	30.4	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 371	U	µg/kg dry	371	33.0	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 188	U	µg/kg dry	188	26.9	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 188	U	µg/kg dry	188	28.9	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	72.4	J	µg/kg dry	188	46.3	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 371	U	µg/kg dry	371	34.8	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 371	U	µg/kg dry	371	43.3	1	"	"	"	"	"	X
86-74-8	Carbazole	< 188	U	µg/kg dry	188	105	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 371	U	µg/kg dry	371	35.4	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 188	U	µg/kg dry	188	40.6	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 371	U	µg/kg dry	371	34.3	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 188	U	µg/kg dry	188	33.4	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 371	U	µg/kg dry	371	44.1	1	"	"	"	"	"	X
218-01-9	Chrysene	64.5	J	µg/kg dry	75.0	37.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 75.0	U	µg/kg dry	75.0	28.8	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 188	U	µg/kg dry	188	28.6	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 371	U	µg/kg dry	371	32.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 371	U	µg/kg dry	371	32.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 371	U	µg/kg dry	371	34.4	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 371	U	µg/kg dry	371	56.5	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 188	U	µg/kg dry	188	35.1	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 371	U	µg/kg dry	371	45.9	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 371	U	µg/kg dry	371	40.6	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 371	U	µg/kg dry	371	26.5	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 371	U	µg/kg dry	371	39.4	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 371	U	µg/kg dry	371	47.7	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 371	U	µg/kg dry	371	37.8	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 188	U	µg/kg dry	188	72.7	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 188	U	µg/kg dry	188	42.3	1	"	"	"	"	"	X

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Sample Identification**B-8 (4-6)**

SC50907-05

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 371	U	µg/kg dry	371	41.9	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	152		µg/kg dry	75.0	39.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 75.0	U	µg/kg dry	75.0	38.1	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 188	U	µg/kg dry	188	37.0	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 188	U	µg/kg dry	188	44.9	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 188	U	µg/kg dry	188	25.5	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 188	U	µg/kg dry	188	40.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	30.4	J	µg/kg dry	75.0	27.0	1	"	"	"	"	"	X
78-59-1	Isophorone	< 188	U	µg/kg dry	188	35.2	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 75.0	U	µg/kg dry	75.0	45.3	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 371	U	µg/kg dry	371	31.6	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 371	U	µg/kg dry	371	35.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 75.0	U	µg/kg dry	75.0	35.0	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 371	U	µg/kg dry	371	31.5	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 371	U	µg/kg dry	371	50.7	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 188	U	µg/kg dry	188	57.8	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 188	U	µg/kg dry	188	34.2	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 188	U	µg/kg dry	188	31.2	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1480	U	µg/kg dry	1480	60.0	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 188	U	µg/kg dry	188	34.9	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 188	U	µg/kg dry	188	36.6	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 371	U	µg/kg dry	371	40.3	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 371	U	µg/kg dry	371	39.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	135		µg/kg dry	75.0	34.9	1	"	"	"	"	"	X
108-95-2	Phenol	< 371	U	µg/kg dry	371	24.4	1	"	"	"	"	"	X
129-00-0	Pyrene	123		µg/kg dry	75.0	41.8	1	"	"	"	"	"	X
110-86-1	Pyridine	< 371	U	µg/kg dry	371	55.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 371	U	µg/kg dry	371	36.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 75.0	U	µg/kg dry	75.0	36.9	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 371	U	µg/kg dry	371	33.4	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 188	U	µg/kg dry	188	33.5	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 371	U	µg/kg dry	371	58.6	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 371	U	µg/kg dry	371	36.0	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	81			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	89			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	87			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	87			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	100			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	88			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.3	%					1	SM2540 G (11) Mod.	08-Oct-18	08-Oct-18	BD	1813423	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-8 (4-6)**

SC50907-05

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.88	1	SW8260C	05-Oct-18 09:26	10-Oct-18 12:24	M-CT0	451350A	
71-55-6	1,1,1-Trichloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
67-64-1	Acetone	6.0	J., S	ug/kg	22	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 8.8		ug/kg	8.8	0.44	1	"	"	"	"	"	
71-43-2	Benzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.4		ug/kg	4.4	1.8	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	

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Sample Identification**B-8 (4-6)**

SC50907-05

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 11:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 4.4		ug/kg	4.4	0.88	1	SW8260C	05-Oct-18 09:26	10-Oct-18 12:24	M-CT0	451350A	
75-71-8	Dichlorodifluoromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 8.8		ug/kg	8.8	0.88	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 8.8		ug/kg	8.8	4.4	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-42-5	Styrene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 8.8		ug/kg	8.8	2.2	1	"	"	"	"	"	
108-88-3	Toluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.4		ug/kg	4.4	4.4	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 8.8		ug/kg	8.8	2.2	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	93			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	88	%					1	SW846-%Solid	"	09-Oct-18 20:08	M-CT0	'[none]'	

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Sample Identification

FB20181005

SC50907-06

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 09:55

Received

06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	1.06	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	1.12	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	0.480	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 4.85	U	µg/l	4.85	0.939	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	4.44	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.844	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.697	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.650	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.680	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.953	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	1.02	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 4.85	U	µg/l	4.85	0.849	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.85	U	µg/l	4.85	0.703	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.910	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.453	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.809	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	1.31	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.483	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.909	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.658	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	1.18	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.65	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.53	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.47	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.85	U	µg/l	4.85	0.822	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.913	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	1.76	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.85	U	µg/l	4.85	0.603	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85	1.05	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.85	U	µg/l	4.85	1.17	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.16	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X

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Sample Identification

FB20181005

SC50907-06

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 09:55

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.85	U	µg/l	4.85	1.22	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.990	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.945	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	1.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	1.48	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.85	U	µg/l	4.85	1.62	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.564	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.793	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.60	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	1.10	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.85	U	µg/l	4.85	1.32	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.487	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.617	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.611	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.85	U	µg/l	4.85	1.25	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.696	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.4	U	µg/l	19.4	0.756	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.582	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85	1.00	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.754	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.959	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.395	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	1.52	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.15	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.758	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.679	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.780	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	1.07	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	35		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	26		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	40		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	20		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	31		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	32		15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

FB20181005

SC50907-06

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 09:55

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 13:21	M-CT0	451374A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	2.9	J., S	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

FB20181005

SC50907-06

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 09:55

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 13:21	M-CT0	451374A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	103			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	101			70-130 %		"	"	"	"	"	

Sample Identification**B-13 (0-2)**

SC50907-07

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 13:20

Received

06-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 3350	U, D	µg/kg dry	3350	1670	10	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 3350	U, D	µg/kg dry	3350	1650	10	"	"	"	"	"	X
62-53-3	Aniline	< 16600	U, D	µg/kg dry	16600	1190	10	"	"	"	"	"	X
120-12-7	Anthracene	< 3350	U, D	µg/kg dry	3350	1600	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 16600	U, D	µg/kg dry	16600	1630	10	"	"	"	"	"	
92-87-5	Benzidine	< 33100	U, D	µg/kg dry	33100	3330	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 3350	U, D	µg/kg dry	3350	1770	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 3350	U, D	µg/kg dry	3350	1250	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 3350	U, D	µg/kg dry	3350	1620	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 3350	U, D	µg/kg dry	3350	1340	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 3350	U, D	µg/kg dry	3350	1310	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 16600	U, D	µg/kg dry	16600	3480	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 16600	U, D	µg/kg dry	16600	1360	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 16600	U, D	µg/kg dry	16600	1470	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 8380	U, D	µg/kg dry	8380	1200	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 8380	U, D	µg/kg dry	8380	1290	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 8380	U, D	µg/kg dry	8380	2070	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 16600	U, D	µg/kg dry	16600	1550	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 16600	U, D	µg/kg dry	16600	1930	10	"	"	"	"	"	X
86-74-8	Carbazole	< 8380	U, D	µg/kg dry	8380	4670	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 16600	U, D	µg/kg dry	16600	1580	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 8380	U, D	µg/kg dry	8380	1810	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 16600	U, D	µg/kg dry	16600	1530	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 8380	U, D	µg/kg dry	8380	1490	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 16600	U, D	µg/kg dry	16600	1970	10	"	"	"	"	"	X
218-01-9	Chrysene	< 3350	U, D	µg/kg dry	3350	1670	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 3350	U, D	µg/kg dry	3350	1280	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 8380	U, D	µg/kg dry	8380	1270	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 16600	U, D	µg/kg dry	16600	1440	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 16600	U, D	µg/kg dry	16600	1440	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 16600	U, D	µg/kg dry	16600	1540	10	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 16600	U, D	µg/kg dry	16600	2520	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 8380	U, D	µg/kg dry	8380	1570	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 16600	U, D	µg/kg dry	16600	2050	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 16600	U, D	µg/kg dry	16600	1810	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 16600	U, D	µg/kg dry	16600	1180	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 16600	U, D	µg/kg dry	16600	1760	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 16600	U, D	µg/kg dry	16600	2130	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 16600	U, D	µg/kg dry	16600	1690	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 8380	U, D	µg/kg dry	8380	3240	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 8380	U, D	µg/kg dry	8380	1890	10	"	"	"	"	"	X

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Sample Identification**B-13 (0-2)**

SC50907-07

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 13:20

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 16600	U, D	µg/kg dry	16600	1870	10	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	< 3350	U, D	µg/kg dry	3350	1770	10	"	"	"	"	"	X
86-73-7	Fluorene	< 3350	U, D	µg/kg dry	3350	1700	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 8380	U, D	µg/kg dry	8380	1650	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 8380	U, D	µg/kg dry	8380	2000	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 8380	U, D	µg/kg dry	8380	1140	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 8380	U, D	µg/kg dry	8380	1810	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 3350	U, D	µg/kg dry	3350	1200	10	"	"	"	"	"	X
78-59-1	Isophorone	< 8380	U, D	µg/kg dry	8380	1570	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 3350	U, D	µg/kg dry	3350	2020	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 16600	U, D	µg/kg dry	16600	1410	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 16600	U, D	µg/kg dry	16600	1600	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 3350	U, D	µg/kg dry	3350	1560	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 16600	U, D	µg/kg dry	16600	1400	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 16600	U, D	µg/kg dry	16600	2260	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 8380	U, D	µg/kg dry	8380	2580	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 8380	U, D	µg/kg dry	8380	1530	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 8380	U, D	µg/kg dry	8380	1390	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 66200	U, D	µg/kg dry	66200	2670	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 8380	U, D	µg/kg dry	8380	1560	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 8380	U, D	µg/kg dry	8380	1630	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 16600	U, D	µg/kg dry	16600	1800	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 16600	U, D	µg/kg dry	16600	1770	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 3350	U, D	µg/kg dry	3350	1560	10	"	"	"	"	"	X
108-95-2	Phenol	< 16600	U, D	µg/kg dry	16600	1090	10	"	"	"	"	"	X
129-00-0	Pyrene	< 3350	U, D	µg/kg dry	3350	1870	10	"	"	"	"	"	X
110-86-1	Pyridine	< 16600	U, D	µg/kg dry	16600	2470	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 16600	U, D	µg/kg dry	16600	1640	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 3350	U, D	µg/kg dry	3350	1650	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 16600	U, D	µg/kg dry	16600	1490	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 8380	U, D	µg/kg dry	8380	1490	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 16600	U, D	µg/kg dry	16600	2610	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 16600	U, D	µg/kg dry	16600	1610	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	67			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	38			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	71			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	54			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	74			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	16	SAC		30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	98.8	%					1	SM2540 G (11) Mod.	08-Oct-18	08-Oct-18	BD	1813423	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

B-13 (0-2) Client Project # Matrix Collection Date/Time Received
 SC50907-07 60558675 Soil 05-Oct-18 13:20 06-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.1		ug/kg	5.1	1.0	1	SW8260C	05-Oct-18 09:26	10-Oct-18 01:19	M-CT0	451220A	
71-55-6	1,1,1-Trichloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 26		ug/kg	26	5.1	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 26		ug/kg	26	5.1	1	"	"	"	"	"	
67-64-1	Acetone	25	J., S	ug/kg	26	5.1	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.51	1	"	"	"	"	"	
71-43-2	Benzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.1		ug/kg	5.1	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	

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Sample Identification

B-13 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50907-07	60558675	Soil	05-Oct-18 13:20	06-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

74-95-3	Dibromomethane	< 5.1		ug/kg	5.1	1.0	1	SW8260C	05-Oct-18 09:26	10-Oct-18 01:19	M-CT0	451220A	
75-71-8	Dichlorodifluoromethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	8.4	J.	ug/kg	26	5.1	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.1	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
100-42-5	Styrene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.6	1	"	"	"	"	"	
108-88-3	Toluene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.1		ug/kg	5.1	5.1	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 10		ug/kg	10	2.6	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.1		ug/kg	5.1	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.1		ug/kg	5.1	0.51	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	87			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	102			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	90			70-130 %		"	"	"	"	"	

Prepared by method SW846-%Solid

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

Percent Solid	99	%					1	SW846-%Solid	"	09-Oct-18 20:08	M-CT0	'[none]'

Sample Identification**B-13 (2 1/2-4 1/2)**

SC50907-08

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 13:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 72.2	U	µg/kg dry	72.2	35.9	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 72.2	U	µg/kg dry	72.2	35.6	1	"	"	"	"	"	X
62-53-3	Aniline	< 357	U	µg/kg dry	357	25.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 72.2	U	µg/kg dry	72.2	34.5	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 357	U	µg/kg dry	357	35.1	1	"	"	"	"	"	
92-87-5	Benzidine	< 714	U	µg/kg dry	714	71.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	49.0	J	µg/kg dry	72.2	38.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	36.4	J	µg/kg dry	72.2	26.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 72.2	U	µg/kg dry	72.2	34.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 72.2	U	µg/kg dry	72.2	29.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	34.6	J	µg/kg dry	72.2	28.2	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 357	U	µg/kg dry	357	75.0	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 357	U	µg/kg dry	357	29.2	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 357	U	µg/kg dry	357	31.7	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 181	U	µg/kg dry	181	25.9	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 181	U	µg/kg dry	181	27.8	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 181	U	µg/kg dry	181	44.6	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 357	U	µg/kg dry	357	33.4	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 357	U	µg/kg dry	357	41.6	1	"	"	"	"	"	X
86-74-8	Carbazole	< 181	U	µg/kg dry	181	101	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 357	U	µg/kg dry	357	34.1	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 181	U	µg/kg dry	181	39.1	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 357	U	µg/kg dry	357	33.0	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 181	U	µg/kg dry	181	32.1	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 357	U	µg/kg dry	357	42.4	1	"	"	"	"	"	X
218-01-9	Chrysene	43.6	J	µg/kg dry	72.2	36.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 72.2	U	µg/kg dry	72.2	27.7	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 181	U	µg/kg dry	181	27.5	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 357	U	µg/kg dry	357	31.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 357	U	µg/kg dry	357	31.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 357	U	µg/kg dry	357	33.1	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 357	U	µg/kg dry	357	54.3	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 181	U	µg/kg dry	181	33.8	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 357	U	µg/kg dry	357	44.1	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 357	U	µg/kg dry	357	39.1	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 357	U	µg/kg dry	357	25.5	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 357	U	µg/kg dry	357	37.9	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 357	U	µg/kg dry	357	45.8	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 357	U	µg/kg dry	357	36.3	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 181	U	µg/kg dry	181	69.9	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 181	U	µg/kg dry	181	40.7	1	"	"	"	"	"	X

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Sample Identification**B-13 (2 1/2-4 1/2)**

SC50907-08

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 13:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 357	U	µg/kg dry	357	40.3	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	77.2		µg/kg dry	72.2	38.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 72.2	U	µg/kg dry	72.2	36.7	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 181	U	µg/kg dry	181	35.6	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 181	U	µg/kg dry	181	43.2	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 181	U	µg/kg dry	181	24.6	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 181	U	µg/kg dry	181	38.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 72.2	U	µg/kg dry	72.2	26.0	1	"	"	"	"	"	X
78-59-1	Isophorone	< 181	U	µg/kg dry	181	33.9	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 72.2	U	µg/kg dry	72.2	43.6	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 357	U	µg/kg dry	357	30.3	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 357	U	µg/kg dry	357	34.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 72.2	U	µg/kg dry	72.2	33.6	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 357	U	µg/kg dry	357	30.3	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 357	U	µg/kg dry	357	48.8	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 181	U	µg/kg dry	181	55.6	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 181	U	µg/kg dry	181	32.9	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 181	U	µg/kg dry	181	30.0	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1430	U	µg/kg dry	1430	57.7	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 181	U	µg/kg dry	181	33.5	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 181	U	µg/kg dry	181	35.2	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 357	U	µg/kg dry	357	38.7	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 357	U	µg/kg dry	357	38.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 72.2	U	µg/kg dry	72.2	33.6	1	"	"	"	"	"	X
108-95-2	Phenol	< 357	U	µg/kg dry	357	23.5	1	"	"	"	"	"	X
129-00-0	Pyrene	67.8	J	µg/kg dry	72.2	40.2	1	"	"	"	"	"	X
110-86-1	Pyridine	< 357	U	µg/kg dry	357	53.2	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 357	U	µg/kg dry	357	35.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 72.2	U	µg/kg dry	72.2	35.5	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 357	U	µg/kg dry	357	32.1	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 181	U	µg/kg dry	181	32.2	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 357	U	µg/kg dry	357	56.4	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 357	U	µg/kg dry	357	34.6	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	78			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	81			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	84			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	80			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	95			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	86			30-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.3	%					1	SM2540 G (11) Mod.	08-Oct-18	08-Oct-18	BD	1813423	

Subcontracted Analyses*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification**B-13 (2 1/2-4 1/2)**

SC50907-08

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 13:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.9		ug/kg	4.9	0.98	1	SW8260C	05-Oct-18 09:26	10-Oct-18 01:40	M-CT0	451220A	
71-55-6	1,1,1-Trichloroethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 24		ug/kg	24	4.9	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 24		ug/kg	24	4.9	1	"	"	"	"	"	
67-64-1	Acetone	15	J., S	ug/kg	24	4.9	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.8		ug/kg	9.8	0.49	1	"	"	"	"	"	
71-43-2	Benzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.9		ug/kg	4.9	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	

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Sample Identification**B-13 (2 1/2-4 1/2)**

SC50907-08

Client Project #

60558675

Matrix

Soil

Collection Date/Time

05-Oct-18 13:40

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 4.9		ug/kg	4.9	0.98	1	SW8260C	05-Oct-18 09:26	10-Oct-18 01:40	M-CT0	451220A	
75-71-8	Dichlorodifluoromethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 24		ug/kg	24	4.9	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.8		ug/kg	9.8	0.98	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.8		ug/kg	9.8	4.9	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
100-42-5	Styrene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.8		ug/kg	9.8	2.4	1	"	"	"	"	"	
108-88-3	Toluene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.9		ug/kg	4.9	4.9	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.8		ug/kg	9.8	2.4	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.9		ug/kg	4.9	0.98	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.9		ug/kg	4.9	0.49	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	93			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	97			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	95			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	92	%					1	SW846-%Solid	"	09-Oct-18 20:08	M-CT0	'[none]'	

Sample Identification

GW-7

SC50907-09

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 14:20

Received

06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	1.06	1	SW846 8270D	11-Oct-18	19-Oct-18	MSL	1813545	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	1.12	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	0.480	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.85	U	µg/l	4.85	0.939	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	4.44	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.844	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.697	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.650	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.680	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.953	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	1.02	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.85	U	µg/l	4.85	0.849	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.85	U	µg/l	4.85	0.703	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.910	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.453	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.809	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	1.31	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.483	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.909	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.658	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	1.18	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.65	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.53	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.47	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.85	U	µg/l	4.85	0.822	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.913	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	1.76	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.85	U	µg/l	4.85	0.603	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85	1.05	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.85	U	µg/l	4.85	1.17	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.16	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X

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Sample Identification

GW-7

SC50907-09

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 14:20

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
117-84-0	Di-n-octyl phthalate	< 4.85	U	µg/l	4.85	1.22	1	SW846 8270D	11-Oct-18	19-Oct-18	MSL	1813545	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.990	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.945	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	1.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	1.48	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.85	U	µg/l	4.85	1.62	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.564	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.793	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.60	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	1.10	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.85	U	µg/l	4.85	1.32	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.487	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.617	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.611	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.85	U	µg/l	4.85	1.25	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.696	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.4	U	µg/l	19.4	0.756	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.582	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85	1.00	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.754	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.959	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.395	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	1.52	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.15	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.758	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.679	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.780	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	1.07	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	43		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	30		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	49		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	24		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	41		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	37		15-110 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted Analyses

Prepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

GW-7

SC50907-09

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 14:20

Received

06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
Subcontracted Analyses													
Prepared by method SW8260C													
Analysis performed by Phoenix Environmental Labs, Inc. * - CT007													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 13:43	M-CT0	451374A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	3.1	J., S	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	0.30	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

GW-7

SC50907-09

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

05-Oct-18 14:20

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 13:43	M-CT0	451374A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	103			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	104			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	101			70-130 %		"	"	"	"	"	

Sample Identification

TB-W

SC50907-10

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

05-Oct-18 14:20

Received

06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 10:43	M-CT0	451374A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TB-W

SC50907-10

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

05-Oct-18 14:20

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	05-Oct-18 09:26	10-Oct-18 10:43	M-CT0	451374A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	100			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	100			70-130 %		"	"	"	"	"	

Sample Identification

TB-S

SC50907-11

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

05-Oct-18 00:00

Received

06-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 250		ug/kg	250	50	50	SW8260C	05-Oct-18 09:26	09-Oct-18 23:33	M-CT0	451220A	
71-55-6	1,1,1-Trichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 250		ug/kg	250	50	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
67-64-1	Acetone	< 5000		ug/kg	5000	250	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 500		ug/kg	500	25	50	"	"	"	"	"	
71-43-2	Benzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-25-2	Bromoform	< 250		ug/kg	250	50	50	"	"	"	"	"	
74-83-9	Bromomethane	< 250		ug/kg	250	100	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 250		ug/kg	250	50	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-00-3	Chloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
67-66-3	Chloroform	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-87-3	Chloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	

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Sample Identification

TB-S

SC50907-11

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

05-Oct-18 00:00

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 250		ug/kg	250	50	50	SW8260C	05-Oct-18 09:26	09-Oct-18 23:33	M-CT0	451220A	
75-71-8	Dichlorodifluoromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 3000		ug/kg	3000	250	50	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 500		ug/kg	500	250	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
91-20-3	Naphthalene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-47-6	o-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-42-5	Styrene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 250		ug/kg	250	50	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 500		ug/kg	500	130	50	"	"	"	"	"	
108-88-3	Toluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
1330-20-7	Total Xylenes	< 250		ug/kg	250	250	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 500		ug/kg	500	130	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 250		ug/kg	250	25	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	94			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	95			70-130 %			"	"	"	"	"	

Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	SW8260C LOW	"	09-Oct-18 23:12	M-CT0	"	
71-55-6	1,1,1-Trichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

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Sample Identification

TB-S

SC50907-11

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

05-Oct-18 00:00

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	SW8260C LOW	05-Oct-18 09:26	09-Oct-18 23:12	M-CT0	451220A	
96-18-4	1,2,3-Trichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.50	1	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/kg	5.0	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	

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Sample Identification

TB-S

SC50907-11

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

05-Oct-18 00:00

Received

06-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	SW8260C LOW	05-Oct-18 09:26	09-Oct-18 23:12	M-CT0	451220A	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.0		ug/kg	5.0	5.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-butene	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %		"	"	"	"	"	"	
460-00-4	% Bromofluorobenzene	94			70-130 %		"	"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	95			70-130 %		"	"	"	"	"	"	
2037-26-5	% Toluene-d8	94			70-130 %		"	"	"	"	"	"	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Blank (1813545-BLK1)	Prepared: 11-Oct-18 Analyzed: 15-Oct-18									
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3'-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Blank (1813545-BLK1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	25.9		µg/l		50.0		52	30-130		
Surrogate: 2-Fluorophenol	21.1		µg/l		50.0		42	15-110		
Surrogate: Nitrobenzene-d5	29.3		µg/l		50.0		59	30-130		
Surrogate: Phenol-d5	13.1		µg/l		50.0		26	15-110		
Surrogate: Terphenyl-dl4	48.3		µg/l		50.0		97	30-130		
Surrogate: 2,4,6-Tribromophenol	26.5		µg/l		50.0		53	15-110		
LCS (1813545-BS1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
Acenaphthene	35.5		µg/l	5.00	50.0		71	40-140		
Acenaphthylene	36.4		µg/l	5.00	50.0		73	40-140		
Aniline	24.8		µg/l	5.00	50.0		50	40-140		
Anthracene	31.6		µg/l	5.00	50.0		63	40-140		
Azobenzene/Diphenyldiazene	38.8		µg/l	5.00	50.0		78	40-140		
Benzidine	24.9		µg/l	10.0	50.0		50	40-140		
Benzo (a) anthracene	36.3		µg/l	5.00	50.0		73	40-140		
Benzo (a) pyrene	37.5		µg/l	5.00	50.0		75	40-140		
Benzo (b) fluoranthene	40.9		µg/l	5.00	50.0		82	40-140		
Benzo (g,h,i) perylene	40.9		µg/l	5.00	50.0		82	40-140		
Benzo (k) fluoranthene	35.5		µg/l	5.00	50.0		71	40-140		
Benzoic acid	22.0		µg/l	5.00	50.0		44	30-130		
Benzyl alcohol	21.5		µg/l	5.00	50.0		43	40-140		
Bis(2-chloroethoxy)methane	26.2		µg/l	5.00	50.0		52	40-140		
Bis(2-chloroethyl)ether	30.4		µg/l	5.00	50.0		61	40-140		
Bis(2-chloroisopropyl)ether	29.1		µg/l	5.00	50.0		58	40-140		
Bis(2-ethylhexyl)phthalate	43.4		µg/l	5.00	50.0		87	40-140		
4-Bromophenyl phenyl ether	31.3		µg/l	5.00	50.0		63	40-140		
Butyl benzyl phthalate	37.7		µg/l	5.00	50.0		75	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
LCS (1813545-BS1)	Prepared: 11-Oct-18 Analyzed: 15-Oct-18									
Carbazole	67.5		µg/l	5.00	50.0		135	40-140		
4-Chloro-3-methylphenol	35.7		µg/l	5.00	50.0		71	30-130		
4-Chloroaniline	31.3		µg/l	5.00	50.0		63	40-140		
2-Chloronaphthalene	39.7		µg/l	5.00	50.0		79	40-140		
2-Chlorophenol	30.4		µg/l	5.00	50.0		61	30-130		
4-Chlorophenyl phenyl ether	35.5		µg/l	5.00	50.0		71	40-140		
Chrysene	39.3		µg/l	5.00	50.0		79	40-140		
Dibenzo (a,h) anthracene	40.2		µg/l	5.00	50.0		80	40-140		
Dibenzofuran	36.7		µg/l	5.00	50.0		73	40-140		
1,2-Dichlorobenzene	32.7		µg/l	5.00	50.0		65	40-140		
1,3-Dichlorobenzene	31.6		µg/l	5.00	50.0		63	40-140		
1,4-Dichlorobenzene	34.1		µg/l	5.00	50.0		68	40-140		
3,3'-Dichlorobenzidine	55.5		µg/l	5.00	50.0		111	40-140		
2,4-Dichlorophenol	30.0		µg/l	5.00	50.0		60	30-130		
Diethyl phthalate	38.0		µg/l	5.00	50.0		76	40-140		
Dimethyl phthalate	36.3		µg/l	5.00	50.0		73	40-140		
2,4-Dimethylphenol	27.9		µg/l	5.00	50.0		56	30-130		
Di-n-butyl phthalate	36.9		µg/l	5.00	50.0		74	40-140		
4,6-Dinitro-2-methylphenol	36.0		µg/l	5.00	50.0		72	30-130		
2,4-Dinitrophenol	25.9		µg/l	5.00	50.0		52	30-130		
2,4-Dinitrotoluene	42.2		µg/l	5.00	50.0		84	40-140		
2,6-Dinitrotoluene	39.9		µg/l	5.00	50.0		80	40-140		
Di-n-octyl phthalate	40.7		µg/l	5.00	50.0		81	40-140		
Fluoranthene	33.2		µg/l	5.00	50.0		66	40-140		
Fluorene	33.3		µg/l	5.00	50.0		67	40-140		
Hexachlorobenzene	38.4		µg/l	5.00	50.0		77	40-140		
Hexachlorobutadiene	31.0		µg/l	5.00	50.0		62	40-140		
Hexachlorocyclopentadiene	40.3		µg/l	5.00	50.0		81	40-140		
Hexachloroethane	35.1		µg/l	5.00	50.0		70	40-140		
Indeno (1,2,3-cd) pyrene	38.0		µg/l	5.00	50.0		76	40-140		
Isophorone	30.6		µg/l	5.00	50.0		61	40-140		
2-Methylnaphthalene	40.8		µg/l	5.00	50.0		82	40-140		
2-Methylphenol	30.7		µg/l	5.00	50.0		61	30-130		
3 & 4-Methylphenol	30.5		µg/l	10.0	50.0		61	30-130		
Naphthalene	32.1		µg/l	5.00	50.0		64	40-140		
2-Nitroaniline	35.4		µg/l	5.00	50.0		71	40-140		
3-Nitroaniline	57.4		µg/l	5.00	50.0		115	40-140		
4-Nitroaniline	43.6		µg/l	5.00	50.0		87	40-140		
Nitrobenzene	39.7		µg/l	5.00	50.0		79	40-140		
2-Nitrophenol	30.5		µg/l	5.00	50.0		61	30-130		
4-Nitrophenol	19.1	J	µg/l	20.0	50.0		38	30-130		
N-Nitrosodimethylamine	29.7		µg/l	5.00	50.0		59	40-140		
N-Nitrosodi-n-propylamine	35.3		µg/l	5.00	50.0		71	40-140		
N-Nitrosodiphenylamine	40.9		µg/l	5.00	50.0		82	40-140		
Pentachlorophenol	19.9	J	µg/l	20.0	50.0		40	30-130		
Phenanthrene	37.5		µg/l	5.00	50.0		75	40-140		
Phenol	19.1		µg/l	5.00	50.0		38	30-130		
Pyrene	36.2		µg/l	5.00	50.0		72	40-140		
Pyridine	27.8		µg/l	5.00	50.0		56	40-140		
1,2,4-Trichlorobenzene	33.1		µg/l	5.00	50.0		66	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
LCS (1813545-BS1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
1-Methylnaphthalene	32.5		µg/l	5.00	50.0		65	40-140		
2,4,5-Trichlorophenol	37.3		µg/l	5.00	50.0		75	30-130		
2,4,6-Trichlorophenol	33.2		µg/l	5.00	50.0		66	30-130		
Pentachloronitrobenzene	39.1		µg/l	5.00	50.0		78	40-140		
1,2,4,5-Tetrachlorobenzene	32.4		µg/l	5.00	50.0		65	40-140		
Surrogate: 2-Fluorobiphenyl	38.3		µg/l		50.0		77	30-130		
Surrogate: 2-Fluorophenol	25.6		µg/l		50.0		51	15-110		
Surrogate: Nitrobenzene-d5	36.5		µg/l		50.0		73	30-130		
Surrogate: Phenol-d5	19.8		µg/l		50.0		40	15-110		
Surrogate: Terphenyl-d14	46.1		µg/l		50.0		92	30-130		
Surrogate: 2,4,6-Tribromophenol	35.9		µg/l		50.0		72	15-110		
LCS Dup (1813545-BSD1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
Acenaphthene	34.5		µg/l	5.00	50.0		69	40-140	3	20
Acenaphthylene	34.5		µg/l	5.00	50.0		69	40-140	5	20
Aniline	28.6		µg/l	5.00	50.0		57	40-140	14	20
Anthracene	32.8		µg/l	5.00	50.0		66	40-140	4	20
Azobenzene/Diphenyldiazene	36.4		µg/l	5.00	50.0		73	40-140	6	20
Benzidine	32.0	QR9	µg/l	10.0	50.0		64	40-140	25	20
Benzo (a) anthracene	34.9		µg/l	5.00	50.0		70	40-140	4	20
Benzo (a) pyrene	36.8		µg/l	5.00	50.0		74	40-140	2	20
Benzo (b) fluoranthene	39.3		µg/l	5.00	50.0		79	40-140	4	20
Benzo (g,h,i) perylene	37.1		µg/l	5.00	50.0		74	40-140	10	20
Benzo (k) fluoranthene	34.6		µg/l	5.00	50.0		69	40-140	3	20
Benzoic acid	21.8		µg/l	5.00	50.0		44	30-130	1	20
Benzyl alcohol	23.0		µg/l	5.00	50.0		46	40-140	7	20
Bis(2-chloroethoxy)methane	26.2		µg/l	5.00	50.0		52	40-140	0.04	20
Bis(2-chloroethyl)ether	28.2		µg/l	5.00	50.0		56	40-140	7	20
Bis(2-chloroisopropyl)ether	30.5		µg/l	5.00	50.0		61	40-140	5	20
Bis(2-ethylhexyl)phthalate	39.1		µg/l	5.00	50.0		78	40-140	11	20
4-Bromophenyl phenyl ether	30.8		µg/l	5.00	50.0		62	40-140	1	20
Butyl benzyl phthalate	36.8		µg/l	5.00	50.0		74	40-140	3	20
Carbazole	69.0		µg/l	5.00	50.0		138	40-140	2	20
4-Chloro-3-methylphenol	37.6		µg/l	5.00	50.0		75	30-130	5	20
4-Chloroaniline	35.4		µg/l	5.00	50.0		71	40-140	12	20
2-Chloronaphthalene	35.1		µg/l	5.00	50.0		70	40-140	12	20
2-Chlorophenol	29.6		µg/l	5.00	50.0		59	30-130	3	20
4-Chlorophenyl phenyl ether	35.2		µg/l	5.00	50.0		70	40-140	1	20
Chrysene	39.9		µg/l	5.00	50.0		80	40-140	1	20
Dibenzo (a,h) anthracene	39.5		µg/l	5.00	50.0		79	40-140	2	20
Dibenzofuran	36.2		µg/l	5.00	50.0		72	40-140	1	20
1,2-Dichlorobenzene	33.4		µg/l	5.00	50.0		67	40-140	2	20
1,3-Dichlorobenzene	30.2		µg/l	5.00	50.0		60	40-140	4	20
1,4-Dichlorobenzene	33.1		µg/l	5.00	50.0		66	40-140	3	20
3,3'-Dichlorobenzidine	55.2		µg/l	5.00	50.0		110	40-140	0.6	20
2,4-Dichlorophenol	29.4		µg/l	5.00	50.0		59	30-130	2	20
Diethyl phthalate	38.4		µg/l	5.00	50.0		77	40-140	1	20
Dimethyl phthalate	34.6		µg/l	5.00	50.0		69	40-140	5	20
2,4-Dimethylphenol	27.4		µg/l	5.00	50.0		55	30-130	2	20
Di-n-butyl phthalate	36.7		µg/l	5.00	50.0		73	40-140	0.5	20
4,6-Dinitro-2-methylphenol	34.0		µg/l	5.00	50.0		68	30-130	6	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
LCS Dup (1813545-BSD1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
2,4-Dinitrophenol	24.8		µg/l	5.00	50.0		50	30-130	5	20
2,4-Dinitrotoluene	41.4		µg/l	5.00	50.0		83	40-140	2	20
2,6-Dinitrotoluene	41.3		µg/l	5.00	50.0		83	40-140	3	20
Di-n-octyl phthalate	40.1		µg/l	5.00	50.0		80	40-140	2	20
Fluoranthene	33.2		µg/l	5.00	50.0		66	40-140	0.2	20
Fluorene	33.2		µg/l	5.00	50.0		66	40-140	0.4	20
Hexachlorobenzene	37.4		µg/l	5.00	50.0		75	40-140	3	20
Hexachlorobutadiene	30.3		µg/l	5.00	50.0		61	40-140	3	20
Hexachlorocyclopentadiene	33.9		µg/l	5.00	50.0		68	40-140	17	20
Hexachloroethane	36.1		µg/l	5.00	50.0		72	40-140	3	20
Indeno (1,2,3-cd) pyrene	36.4		µg/l	5.00	50.0		73	40-140	5	20
Isophorone	30.9		µg/l	5.00	50.0		62	40-140	1	20
2-Methylnaphthalene	44.8		µg/l	5.00	50.0		90	40-140	9	20
2-Methylphenol	32.0		µg/l	5.00	50.0		64	30-130	4	20
3 & 4-Methylphenol	31.4		µg/l	10.0	50.0		63	30-130	3	20
Naphthalene	30.9		µg/l	5.00	50.0		62	40-140	4	20
2-Nitroaniline	35.1		µg/l	5.00	50.0		70	40-140	0.8	20
3-Nitroaniline	59.6		µg/l	5.00	50.0		119	40-140	4	20
4-Nitroaniline	45.7		µg/l	5.00	50.0		91	40-140	5	20
Nitrobenzene	41.2		µg/l	5.00	50.0		82	40-140	4	20
2-Nitrophenol	30.2		µg/l	5.00	50.0		60	30-130	1	20
4-Nitrophenol	19.0	J	µg/l	20.0	50.0		38	30-130	0.8	20
N-Nitrosodimethylamine	28.5		µg/l	5.00	50.0		57	40-140	4	20
N-Nitrosodi-n-propylamine	36.5		µg/l	5.00	50.0		73	40-140	3	20
N-Nitrosodiphenylamine	38.6		µg/l	5.00	50.0		77	40-140	6	20
Pentachlorophenol	19.0	J	µg/l	20.0	50.0		38	30-130	5	20
Phenanthrene	35.6		µg/l	5.00	50.0		71	40-140	5	20
Phenol	18.1		µg/l	5.00	50.0		36	30-130	5	20
Pyrene	34.7		µg/l	5.00	50.0		69	40-140	4	20
Pyridine	26.4		µg/l	5.00	50.0		53	40-140	5	20
1,2,4-Trichlorobenzene	31.6		µg/l	5.00	50.0		63	40-140	5	20
1-Methylnaphthalene	29.6		µg/l	5.00	50.0		59	40-140	9	20
2,4,5-Trichlorophenol	32.6		µg/l	5.00	50.0		65	30-130	13	20
2,4,6-Trichlorophenol	29.4		µg/l	5.00	50.0		59	30-130	12	20
Pentachloronitrobenzene	39.8		µg/l	5.00	50.0		80	40-140	2	20
1,2,4,5-Tetrachlorobenzene	30.9		µg/l	5.00	50.0		62	40-140	5	20
Surrogate: 2-Fluorobiphenyl	32.9		µg/l		50.0		66	30-130		
Surrogate: 2-Fluorophenol	24.0		µg/l		50.0		48	15-110		
Surrogate: Nitrobenzene-d5	37.3		µg/l		50.0		75	30-130		
Surrogate: Phenol-d5	19.1		µg/l		50.0		38	15-110		
Surrogate: Terphenyl-dl4	41.8		µg/l		50.0		84	30-130		
Surrogate: 2,4,6-Tribromophenol	35.2		µg/l		50.0		70	15-110		
Matrix Spike (1813545-MS1)				Source: SC50907-03		Prepared: 11-Oct-18 Analyzed: 15-Oct-18				
Acenaphthene	38.5		µg/l	4.72	47.2	BRL	82	40-140		
Acenaphthylene	36.0		µg/l	4.72	47.2	BRL	76	40-140		
Aniline	20.3		µg/l	4.72	47.2	BRL	43	40-140		
Anthracene	35.0		µg/l	4.72	47.2	BRL	74	40-140		
Azobenzene/Diphenyldiazene	41.6		µg/l	4.72	47.2	BRL	88	40-140		
Benzidine	< 9.43	QM7, U	µg/l	9.43	47.2	BRL	<1	40-140		
Benzo (a) anthracene	29.8		µg/l	4.72	47.2	BRL	63	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Matrix Spike (1813545-MS1)				Source: SC50907-03			Prepared: 11-Oct-18	Analyzed: 15-Oct-18		
Benzo (a) pyrene	24.9		µg/l	4.72	47.2	BRL	53	40-140		
Benzo (b) fluoranthene	21.2		µg/l	4.72	47.2	BRL	45	40-140		
Benzo (g,h,i) perylene	21.6		µg/l	4.72	47.2	BRL	46	40-140		
Benzo (k) fluoranthene	26.6		µg/l	4.72	47.2	BRL	56	40-140		
Benzoic acid	10.5	QM7	µg/l	4.72	47.2	BRL	22	30-130		
Benzyl alcohol	25.6		µg/l	4.72	47.2	BRL	54	40-140		
Bis(2-chloroethoxy)methane	29.7		µg/l	4.72	47.2	BRL	63	40-140		
Bis(2-chloroethyl)ether	28.4		µg/l	4.72	47.2	BRL	60	40-140		
Bis(2-chloroisopropyl)ether	29.6		µg/l	4.72	47.2	BRL	63	40-140		
Bis(2-ethylhexyl)phthalate	29.0		µg/l	4.72	47.2	BRL	61	40-140		
4-Bromophenyl phenyl ether	34.4		µg/l	4.72	47.2	BRL	73	40-140		
Butyl benzyl phthalate	35.9		µg/l	4.72	47.2	BRL	76	40-140		
Carbazole	73.4	QM7	µg/l	4.72	47.2	BRL	156	40-140		
4-Chloro-3-methylphenol	40.5		µg/l	4.72	47.2	BRL	86	30-130		
4-Chloroaniline	29.5		µg/l	4.72	47.2	BRL	63	40-140		
2-Chloronaphthalene	42.0		µg/l	4.72	47.2	BRL	89	40-140		
2-Chlorophenol	29.0		µg/l	4.72	47.2	BRL	62	30-130		
4-Chlorophenyl phenyl ether	39.8		µg/l	4.72	47.2	BRL	84	40-140		
Chrysene	32.3		µg/l	4.72	47.2	BRL	68	40-140		
Dibenzo (a,h) anthracene	23.9		µg/l	4.72	47.2	BRL	51	40-140		
Dibenzofuran	39.2		µg/l	4.72	47.2	BRL	83	40-140		
1,2-Dichlorobenzene	38.0		µg/l	4.72	47.2	BRL	81	40-140		
1,3-Dichlorobenzene	36.8		µg/l	4.72	47.2	BRL	78	40-140		
1,4-Dichlorobenzene	38.8		µg/l	4.72	47.2	BRL	82	40-140		
3,3'-Dichlorobenzidine	36.6		µg/l	4.72	47.2	BRL	78	40-140		
2,4-Dichlorophenol	34.1		µg/l	4.72	47.2	BRL	72	30-130		
Diethyl phthalate	43.3		µg/l	4.72	47.2	BRL	92	40-140		
Dimethyl phthalate	39.9		µg/l	4.72	47.2	BRL	85	40-140		
2,4-Dimethylphenol	32.1		µg/l	4.72	47.2	BRL	68	30-130		
Di-n-butyl phthalate	34.5		µg/l	4.72	47.2	BRL	73	40-140		
4,6-Dinitro-2-methylphenol	36.5		µg/l	4.72	47.2	BRL	77	30-130		
2,4-Dinitrophenol	20.5		µg/l	4.72	47.2	BRL	44	30-130		
2,4-Dinitrotoluene	44.9		µg/l	4.72	47.2	BRL	95	40-140		
2,6-Dinitrotoluene	47.6		µg/l	4.72	47.2	BRL	101	40-140		
Di-n-octyl phthalate	24.8		µg/l	4.72	47.2	BRL	53	40-140		
Fluoranthene	34.1		µg/l	4.72	47.2	BRL	72	40-140		
Fluorene	37.9		µg/l	4.72	47.2	BRL	80	40-140		
Hexachlorobenzene	39.4		µg/l	4.72	47.2	BRL	84	40-140		
Hexachlorobutadiene	38.1		µg/l	4.72	47.2	BRL	81	40-140		
Hexachlorocyclopentadiene	45.4		µg/l	4.72	47.2	BRL	96	40-140		
Hexachloroethane	41.2		µg/l	4.72	47.2	BRL	87	40-140		
Indeno (1,2,3-cd) pyrene	22.9		µg/l	4.72	47.2	BRL	49	40-140		
Isophorone	32.2		µg/l	4.72	47.2	BRL	68	30-130		
2-Methylnaphthalene	54.4		µg/l	4.72	47.2	BRL	115	40-140		
2-Methylphenol	25.4		µg/l	4.72	47.2	BRL	54	30-130		
3 & 4-Methylphenol	22.5		µg/l	9.43	47.2	BRL	48	30-130		
Naphthalene	36.1		µg/l	4.72	47.2	BRL	76	40-140		
2-Nitroaniline	37.2		µg/l	4.72	47.2	BRL	79	40-140		
3-Nitroaniline	53.8		µg/l	4.72	47.2	BRL	114	40-140		
4-Nitroaniline	41.8		µg/l	4.72	47.2	BRL	89	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Matrix Spike (1813545-MS1)				Source: SC50907-03			Prepared: 11-Oct-18	Analyzed: 15-Oct-18		
Nitrobenzene	48.1		µg/l	4.72	47.2	BRL	102	40-140		
2-Nitrophenol	33.8		µg/l	4.72	47.2	BRL	72	30-130		
4-Nitrophenol	12.7	QM7, J	µg/l	18.9	47.2	BRL	27	30-130		
N-Nitrosodimethylamine	22.9		µg/l	4.72	47.2	BRL	49	40-140		
N-Nitrosodi-n-propylamine	36.9		µg/l	4.72	47.2	BRL	78	40-140		
N-Nitrosodiphenylamine	46.7		µg/l	4.72	47.2	BRL	99	40-140		
Pentachlorophenol	19.0		µg/l	18.9	47.2	BRL	40	30-130		
Phenanthrene	37.1		µg/l	4.72	47.2	BRL	79	40-140		
Phenol	11.1	QM7	µg/l	4.72	47.2	BRL	24	30-130		
Pyrene	35.9		µg/l	4.72	47.2	BRL	76	40-140		
Pyridine	21.2		µg/l	4.72	47.2	BRL	45	40-140		
1,2,4-Trichlorobenzene	41.0		µg/l	4.72	47.2	BRL	87	40-140		
1-Methylnaphthalene	37.5		µg/l	4.72	47.2	BRL	79	40-140		
2,4,5-Trichlorophenol	37.9		µg/l	4.72	47.2	BRL	80	30-130		
2,4,6-Trichlorophenol	34.1		µg/l	4.72	47.2	BRL	72	30-130		
Pentachloronitrobenzene	43.3		µg/l	4.72	47.2	BRL	92	40-140		
1,2,4,5-Tetrachlorobenzene	36.6		µg/l	4.72	47.2	BRL	78	40-140		
Surrogate: 2-Fluorobiphenyl	40.6		µg/l		47.2		86	30-130		
Surrogate: 2-Fluorophenol	18.0		µg/l		47.2		38	15-110		
Surrogate: Nitrobenzene-d5	41.2		µg/l		47.2		87	30-130		
Surrogate: Phenol-d5	11.4		µg/l		47.2		24	15-110		
Surrogate: Terphenyl-dl4	34.7		µg/l		47.2		74	30-130		
Surrogate: 2,4,6-Tribromophenol	42.9		µg/l		47.2		91	15-110		
Matrix Spike Dup (1813545-MSD1)				Source: SC50907-03			Prepared: 11-Oct-18	Analyzed: 15-Oct-18		
Acenaphthene	39.9		µg/l	4.76	47.6	BRL	84	40-140	4	20
Acenaphthylene	38.7		µg/l	4.76	47.6	BRL	81	40-140	7	20
Aniline	18.6	QM7	µg/l	4.76	47.6	BRL	39	40-140	9	20
Anthracene	38.5		µg/l	4.76	47.6	BRL	81	40-140	9	20
Azobenzene/Diphenyldiazene	43.7		µg/l	4.76	47.6	BRL	92	40-140	5	20
Benzidine	11.5	QM7	µg/l	9.52	47.6	BRL	24	40-140		20
Benzo (a) anthracene	31.9		µg/l	4.76	47.6	BRL	67	40-140	7	20
Benzo (a) pyrene	29.3		µg/l	4.76	47.6	BRL	62	40-140	16	20
Benzo (b) fluoranthene	27.0	QR9	µg/l	4.76	47.6	BRL	57	40-140	24	20
Benzo (g,h,i) perylene	27.4	QR9	µg/l	4.76	47.6	BRL	58	40-140	24	20
Benzo (k) fluoranthene	29.6		µg/l	4.76	47.6	BRL	62	40-140	10	20
Benzoic acid	8.22	QM7, QR9	µg/l	4.76	47.6	BRL	17	30-130	25	20
Benzyl alcohol	25.6		µg/l	4.76	47.6	BRL	54	40-140	0.1	20
Bis(2-chloroethoxy)methane	30.0		µg/l	4.76	47.6	BRL	63	40-140	1	20
Bis(2-chloroethyl)ether	27.6		µg/l	4.76	47.6	BRL	58	40-140	3	20
Bis(2-chloroisopropyl)ether	29.4		µg/l	4.76	47.6	BRL	62	40-140	0.8	20
Bis(2-ethylhexyl)phthalate	34.6		µg/l	4.76	47.6	BRL	73	40-140	18	20
4-Bromophenyl phenyl ether	38.8		µg/l	4.76	47.6	BRL	82	40-140	12	20
Butyl benzyl phthalate	38.9		µg/l	4.76	47.6	BRL	82	40-140	8	20
Carbazole	83.2	QM7	µg/l	4.76	47.6	BRL	175	40-140	12	20
4-Chloro-3-methylphenol	38.7		µg/l	4.76	47.6	BRL	81	30-130	5	20
4-Chloroaniline	31.0		µg/l	4.76	47.6	BRL	65	40-140	5	20
2-Chloronaphthalene	42.4		µg/l	4.76	47.6	BRL	89	40-140	0.9	20
2-Chlorophenol	28.1		µg/l	4.76	47.6	BRL	59	30-130	3	20
4-Chlorophenyl phenyl ether	41.0		µg/l	4.76	47.6	BRL	86	40-140	3	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Matrix Spike Dup (1813545-MSD1)				Source: SC50907-03			Prepared: 11-Oct-18 Analyzed: 15-Oct-18			
Chrysene	39.8	QR9	µg/l	4.76	47.6	BRL	84	40-140	21	20
Dibenzo (a,h) anthracene	29.1		µg/l	4.76	47.6	BRL	61	40-140	20	20
Dibenzofuran	43.5		µg/l	4.76	47.6	BRL	91	40-140	10	20
1,2-Dichlorobenzene	38.2		µg/l	4.76	47.6	BRL	80	40-140	0.5	20
1,3-Dichlorobenzene	40.0		µg/l	4.76	47.6	BRL	84	40-140	8	20
1,4-Dichlorobenzene	41.0		µg/l	4.76	47.6	BRL	86	40-140	6	20
3,3'-Dichlorobenzidine	45.9	QR9	µg/l	4.76	47.6	BRL	96	40-140	23	20
2,4-Dichlorophenol	34.2		µg/l	4.76	47.6	BRL	72	30-130	0.3	20
Diethyl phthalate	44.1		µg/l	4.76	47.6	BRL	93	40-140	2	20
Dimethyl phthalate	40.1		µg/l	4.76	47.6	BRL	84	40-140	0.4	20
2,4-Dimethylphenol	32.4		µg/l	4.76	47.6	BRL	68	30-130	1	20
Di-n-butyl phthalate	41.0		µg/l	4.76	47.6	BRL	86	40-140	17	20
4,6-Dinitro-2-methylphenol	38.4		µg/l	4.76	47.6	BRL	81	30-130	5	20
2,4-Dinitrophenol	22.2		µg/l	4.76	47.6	BRL	47	30-130	8	20
2,4-Dinitrotoluene	47.9		µg/l	4.76	47.6	BRL	101	40-140	6	20
2,6-Dinitrotoluene	46.1		µg/l	4.76	47.6	BRL	97	40-140	3	20
Di-n-octyl phthalate	30.9	QR9	µg/l	4.76	47.6	BRL	65	40-140	22	20
Fluoranthene	39.5		µg/l	4.76	47.6	BRL	83	40-140	15	20
Fluorene	38.5		µg/l	4.76	47.6	BRL	81	40-140	2	20
Hexachlorobenzene	47.2		µg/l	4.76	47.6	BRL	99	40-140	18	20
Hexachlorobutadiene	38.7		µg/l	4.76	47.6	BRL	81	40-140	2	20
Hexachlorocyclopentadiene	45.5		µg/l	4.76	47.6	BRL	96	40-140	0.3	20
Hexachloroethane	42.2		µg/l	4.76	47.6	BRL	89	40-140	2	20
Indeno (1,2,3-cd) pyrene	25.1		µg/l	4.76	47.6	BRL	53	40-140	9	20
Isophorone	33.2		µg/l	4.76	47.6	BRL	70	30-130	3	20
2-Methylnaphthalene	53.4		µg/l	4.76	47.6	BRL	112	40-140	2	20
2-Methylphenol	26.5		µg/l	4.76	47.6	BRL	56	30-130	4	20
3 & 4-Methylphenol	23.2		µg/l	9.52	47.6	BRL	49	30-130	3	20
Naphthalene	37.6		µg/l	4.76	47.6	BRL	79	40-140	4	20
2-Nitroaniline	38.4		µg/l	4.76	47.6	BRL	81	40-140	3	20
3-Nitroaniline	54.5		µg/l	4.76	47.6	BRL	114	40-140	1	20
4-Nitroaniline	43.4		µg/l	4.76	47.6	BRL	91	40-140	4	20
Nitrobenzene	47.9		µg/l	4.76	47.6	BRL	101	40-140	0.4	20
2-Nitrophenol	34.6		µg/l	4.76	47.6	BRL	73	30-130	3	20
4-Nitrophenol	13.5	QM7, J	µg/l	19.0	47.6	BRL	28	30-130	7	20
N-Nitrosodimethylamine	23.9		µg/l	4.76	47.6	BRL	50	40-140	4	20
N-Nitrosodi-n-propylamine	36.8		µg/l	4.76	47.6	BRL	77	40-140	0.2	20
N-Nitrosodiphenylamine	48.9		µg/l	4.76	47.6	BRL	103	40-140	4	20
Pentachlorophenol	19.3		µg/l	19.0	47.6	BRL	40	30-130	2	20
Phenanthrene	41.7		µg/l	4.76	47.6	BRL	88	40-140	12	20
Phenol	10.6	QM7	µg/l	4.76	47.6	BRL	22	30-130	4	20
Pyrene	39.5		µg/l	4.76	47.6	BRL	83	40-140	10	20
Pyridine	22.6		µg/l	4.76	47.6	BRL	47	40-140	6	20
1,2,4-Trichlorobenzene	42.5		µg/l	4.76	47.6	BRL	89	40-140	4	20
1-Methylnaphthalene	37.6		µg/l	4.76	47.6	BRL	79	40-140	0.5	20
2,4,5-Trichlorophenol	37.8		µg/l	4.76	47.6	BRL	79	30-130	0.3	20
2,4,6-Trichlorophenol	33.9		µg/l	4.76	47.6	BRL	71	30-130	0.5	20
Pentachloronitrobenzene	44.9		µg/l	4.76	47.6	BRL	94	40-140	4	20
1,2,4,5-Tetrachlorobenzene	35.8		µg/l	4.76	47.6	BRL	75	40-140	2	20
Surrogate: 2-Fluorobiphenyl	41.6		µg/l		47.6		87	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Matrix Spike Dup (1813545-MSD1)				Source: SC50907-03		Prepared: 11-Oct-18 Analyzed: 15-Oct-18				
Surrogate: 2-Fluorophenol	18.1		µg/l		47.6		38	15-110		
Surrogate: Nitrobenzene-d5	41.7		µg/l		47.6		88	30-130		
Surrogate: Phenol-d5	11.0		µg/l		47.6		23	15-110		
Surrogate: Terphenyl-dl4	40.6		µg/l		47.6		85	30-130		
Surrogate: 2,4,6-Tribromophenol	41.5		µg/l		47.6		87	15-110		
Batch 1813739 - SW846 3546										
Blank (1813739-BLK1)				Prepared: 16-Oct-18 Analyzed: 18-Oct-18						
Acenaphthene	< 66.3	U	µg/kg wet	66.3						
Acenaphthylene	< 66.3	U	µg/kg wet	66.3						
Aniline	< 328	U	µg/kg wet	328						
Anthracene	< 66.3	U	µg/kg wet	66.3						
Azobenzene/Diphenyldiazene	< 328	U	µg/kg wet	328						
Benzidine	< 657	U	µg/kg wet	657						
Benzo (a) anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) pyrene	< 66.3	U	µg/kg wet	66.3						
Benzo (b) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzo (g,h,i) perylene	< 66.3	U	µg/kg wet	66.3						
Benzo (k) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzoic acid	< 328	U	µg/kg wet	328						
Benzyl alcohol	< 328	U	µg/kg wet	328						
Bis(2-chloroethoxy)methane	< 328	U	µg/kg wet	328						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 328	U	µg/kg wet	328						
Butyl benzyl phthalate	< 328	U	µg/kg wet	328						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 328	U	µg/kg wet	328						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 328	U	µg/kg wet	328						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 328	U	µg/kg wet	328						
Chrysene	< 66.3	U	µg/kg wet	66.3						
Dibenzo (a,h) anthracene	< 66.3	U	µg/kg wet	66.3						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,3-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,4-Dichlorobenzene	< 328	U	µg/kg wet	328						
3,3'-Dichlorobenzidine	< 328	U	µg/kg wet	328						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						
Diethyl phthalate	< 328	U	µg/kg wet	328						
Dimethyl phthalate	< 328	U	µg/kg wet	328						
2,4-Dimethylphenol	< 328	U	µg/kg wet	328						
Di-n-butyl phthalate	< 328	U	µg/kg wet	328						
4,6-Dinitro-2-methylphenol	< 328	U	µg/kg wet	328						
2,4-Dinitrophenol	< 328	U	µg/kg wet	328						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 328	U	µg/kg wet	328						
Fluoranthene	< 66.3	U	µg/kg wet	66.3						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813739 - SW846 3546										
<u>Blank (1813739-BLK1)</u>	<u>Prepared: 16-Oct-18 Analyzed: 18-Oct-18</u>									
Fluorene	< 66.3	U	µg/kg wet	66.3						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.3	U	µg/kg wet	66.3						
Isophorone	< 166	U	µg/kg wet	166						
2-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2-Methylphenol	< 328	U	µg/kg wet	328						
3 & 4-Methylphenol	< 328	U	µg/kg wet	328						
Naphthalene	< 66.3	U	µg/kg wet	66.3						
2-Nitroaniline	< 328	U	µg/kg wet	328						
3-Nitroaniline	< 328	U	µg/kg wet	328						
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 328	U	µg/kg wet	328						
Pentachlorophenol	< 328	U	µg/kg wet	328						
Phenanthrene	< 66.3	U	µg/kg wet	66.3						
Phenol	< 328	U	µg/kg wet	328						
Pyrene	< 66.3	U	µg/kg wet	66.3						
Pyridine	< 328	U	µg/kg wet	328						
1,2,4-Trichlorobenzene	< 328	U	µg/kg wet	328						
1-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2,4,5-Trichlorophenol	< 328	U	µg/kg wet	328						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 328	U	µg/kg wet	328						
1,2,4,5-Tetrachlorobenzene	< 328	U	µg/kg wet	328						
<i>Surrogate: 2-Fluorobiphenyl</i>	1320		µg/kg wet		1660		80	30-130		
<i>Surrogate: 2-Fluorophenol</i>	1270		µg/kg wet		1660		76	30-130		
<i>Surrogate: Nitrobenzene-d5</i>	1400		µg/kg wet		1660		85	30-130		
<i>Surrogate: Phenol-d5</i>	1350		µg/kg wet		1660		81	30-130		
<i>Surrogate: Terphenyl-dl4</i>	1560		µg/kg wet		1660		94	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>	962		µg/kg wet		1660		58	30-130		
<u>LCS (1813739-BS1)</u>										
<u>Prepared: 16-Oct-18 Analyzed: 18-Oct-18</u>										
Acenaphthene	1540		µg/kg wet	66.4	1660		93	40-140		
Acenaphthylene	1570		µg/kg wet	66.4	1660		95	40-140		
Aniline	928		µg/kg wet	329	1660		56	40-140		
Anthracene	1390		µg/kg wet	66.4	1660		84	40-140		
Azobenzene/Diphenyldiazene	1620		µg/kg wet	329	1660		98	40-140		
Benzidine	2470	QC2	µg/kg wet	657	1660		149	40-140		
Benzo (a) anthracene	1420		µg/kg wet	66.4	1660		86	40-140		
Benzo (a) pyrene	1310		µg/kg wet	66.4	1660		79	40-140		
Benzo (b) fluoranthene	1510		µg/kg wet	66.4	1660		91	40-140		
Benzo (g,h,i) perylene	1330		µg/kg wet	66.4	1660		80	40-140		
Benzo (k) fluoranthene	1470		µg/kg wet	66.4	1660		88	40-140		
Benzoic acid	422	QC6	µg/kg wet	329	1660		25	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
LCS (1813739-BS1)	Prepared: 16-Oct-18 Analyzed: 18-Oct-18									
Benzyl alcohol	970		µg/kg wet	329	1660		58	40-140		
Bis(2-chloroethoxy)methane	1140		µg/kg wet	329	1660		69	40-140		
Bis(2-chloroethyl)ether	1220		µg/kg wet	166	1660		73	40-140		
Bis(2-chloroisopropyl)ether	1280		µg/kg wet	166	1660		77	40-140		
Bis(2-ethylhexyl)phthalate	1680		µg/kg wet	166	1660		101	40-140		
4-Bromophenyl phenyl ether	1270		µg/kg wet	329	1660		76	40-140		
Butyl benzyl phthalate	1530		µg/kg wet	329	1660		92	40-140		
Carbazole	2900	QC2	µg/kg wet	166	1660		174	40-140		
4-Chloro-3-methylphenol	1490		µg/kg wet	329	1660		90	30-130		
4-Chloroaniline	1080		µg/kg wet	166	1660		65	40-140		
2-Chloronaphthalene	1670		µg/kg wet	329	1660		101	40-140		
2-Chlorophenol	1220		µg/kg wet	166	1660		74	30-130		
4-Chlorophenyl phenyl ether	1580		µg/kg wet	329	1660		95	40-140		
Chrysene	1580		µg/kg wet	66.4	1660		95	40-140		
Dibenzo (a,h) anthracene	1390		µg/kg wet	66.4	1660		84	40-140		
Dibenzofuran	1780		µg/kg wet	166	1660		108	40-140		
1,2-Dichlorobenzene	1390		µg/kg wet	329	1660		84	40-140		
1,3-Dichlorobenzene	1380		µg/kg wet	329	1660		83	40-140		
1,4-Dichlorobenzene	1480		µg/kg wet	329	1660		89	40-140		
3,3'-Dichlorobenzidine	2170		µg/kg wet	329	1660		131	40-140		
2,4-Dichlorophenol	1280		µg/kg wet	166	1660		77	30-130		
Diethyl phthalate	1700		µg/kg wet	329	1660		102	40-140		
Dimethyl phthalate	1600		µg/kg wet	329	1660		96	40-140		
2,4-Dimethylphenol	1330		µg/kg wet	329	1660		80	30-130		
Di-n-butyl phthalate	1410		µg/kg wet	329	1660		85	40-140		
4,6-Dinitro-2-methylphenol	1330		µg/kg wet	329	1660		80	30-130		
2,4-Dinitrophenol	771		µg/kg wet	329	1660		46	30-130		
2,4-Dinitrotoluene	1800		µg/kg wet	166	1660		109	40-140		
2,6-Dinitrotoluene	1870		µg/kg wet	166	1660		112	40-140		
Di-n-octyl phthalate	1680		µg/kg wet	329	1660		101	40-140		
Fluoranthene	1370		µg/kg wet	66.4	1660		83	40-140		
Fluorene	1560		µg/kg wet	66.4	1660		94	40-140		
Hexachlorobenzene	1620		µg/kg wet	166	1660		98	40-140		
Hexachlorobutadiene	1550		µg/kg wet	166	1660		93	40-140		
Hexachlorocyclopentadiene	1870		µg/kg wet	166	1660		113	40-140		
Hexachloroethane	1660		µg/kg wet	166	1660		100	40-140		
Indeno (1,2,3-cd) pyrene	1250		µg/kg wet	66.4	1660		76	40-140		
Isophorone	1300		µg/kg wet	166	1660		78	40-140		
2-Methylnaphthalene	1830		µg/kg wet	66.4	1660		110	40-140		
2-Methylphenol	1180		µg/kg wet	329	1660		71	30-130		
3 & 4-Methylphenol	1360		µg/kg wet	329	1660		82	30-130		
Naphthalene	1370		µg/kg wet	66.4	1660		83	40-140		
2-Nitroaniline	1500		µg/kg wet	329	1660		90	40-140		
3-Nitroaniline	1980		µg/kg wet	329	1660		119	40-140		
4-Nitroaniline	1850		µg/kg wet	166	1660		111	40-140		
Nitrobenzene	1840		µg/kg wet	166	1660		111	40-140		
2-Nitrophenol	1310		µg/kg wet	166	1660		79	30-130		
4-Nitrophenol	1250	J	µg/kg wet	1310	1660		75	30-130		
N-Nitrosodimethylamine	1540		µg/kg wet	166	1660		93	40-140		
N-Nitrosodi-n-propylamine	1420		µg/kg wet	166	1660		86	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
LCS (1813739-BS1)					<u>Prepared: 16-Oct-18 Analyzed: 18-Oct-18</u>					
N-Nitrosodiphenylamine	1730		µg/kg wet	329	1660		104	40-140		
Pentachlorophenol	570		µg/kg wet	329	1660		34	30-130		
Phenanthrene	1550		µg/kg wet	66.4	1660		93	40-140		
Phenol	1310		µg/kg wet	329	1660		79	30-130		
Pyrene	1430		µg/kg wet	66.4	1660		86	40-140		
Pyridine	1420		µg/kg wet	329	1660		86	40-140		
1,2,4-Trichlorobenzene	1500		µg/kg wet	329	1660		91	40-140		
1-Methylnaphthalene	1410		µg/kg wet	66.4	1660		85	40-140		
2,4,5-Trichlorophenol	1580		µg/kg wet	329	1660		95	30-130		
2,4,6-Trichlorophenol	1430		µg/kg wet	166	1660		86	30-130		
Pentachloronitrobenzene	1660		µg/kg wet	329	1660		100	40-140		
1,2,4,5-Tetrachlorobenzene	1450		µg/kg wet	329	1660		87	40-140		
Surrogate: 2-Fluorobiphenyl	1710		µg/kg wet		1660		103	30-130		
Surrogate: 2-Fluorophenol	1350		µg/kg wet		1660		82	30-130		
Surrogate: Nitrobenzene-d5	1650		µg/kg wet		1660		100	30-130		
Surrogate: Phenol-d5	1600		µg/kg wet		1660		96	30-130		
Surrogate: Terphenyl-dl4	1680		µg/kg wet		1660		101	30-130		
Surrogate: 2,4,6-Tribromophenol	1630		µg/kg wet		1660		98	30-130		
LCS Dup (1813739-BSD1)					<u>Prepared: 16-Oct-18 Analyzed: 18-Oct-18</u>					
Acenaphthene	1560		µg/kg wet	66.4	1660		94	40-140	1	30
Acenaphthylene	1630		µg/kg wet	66.4	1660		98	40-140	3	30
Aniline	926		µg/kg wet	328	1660		56	40-140	0.2	30
Anthracene	1460		µg/kg wet	66.4	1660		88	40-140	5	30
Azobenzene/Diphenyldiazene	1680		µg/kg wet	328	1660		101	40-140	3	30
Benzidine	2640	QC2	µg/kg wet	657	1660		159	40-140	7	30
Benzo (a) anthracene	1370		µg/kg wet	66.4	1660		82	40-140	4	30
Benzo (a) pyrene	1390		µg/kg wet	66.4	1660		84	40-140	6	30
Benzo (b) fluoranthene	1350		µg/kg wet	66.4	1660		81	40-140	12	30
Benzo (g,h,i) perylene	1300		µg/kg wet	66.4	1660		78	40-140	2	30
Benzo (k) fluoranthene	1310		µg/kg wet	66.4	1660		79	40-140	12	30
Benzoic acid	341	QC6	µg/kg wet	328	1660		21	30-130	21	30
Benzyl alcohol	842		µg/kg wet	328	1660		51	40-140	14	30
Bis(2-chloroethoxy)methane	1100		µg/kg wet	328	1660		66	40-140	4	30
Bis(2-chloroethyl)ether	1240		µg/kg wet	166	1660		75	40-140	2	30
Bis(2-chloroisopropyl)ether	1100		µg/kg wet	166	1660		66	40-140	15	30
Bis(2-ethylhexyl)phthalate	1490		µg/kg wet	166	1660		90	40-140	12	30
4-Bromophenyl phenyl ether	1330		µg/kg wet	328	1660		80	40-140	5	30
Butyl benzyl phthalate	1550		µg/kg wet	328	1660		93	40-140	0.8	30
Carbazole	2650	QC2	µg/kg wet	166	1660		160	40-140	9	30
4-Chloro-3-methylphenol	1250		µg/kg wet	328	1660		75	30-130	18	30
4-Chloroaniline	1120		µg/kg wet	166	1660		67	40-140	3	30
2-Chloronaphthalene	1740		µg/kg wet	328	1660		105	40-140	4	30
2-Chlorophenol	1240		µg/kg wet	166	1660		75	30-130	1	30
4-Chlorophenyl phenyl ether	1770		µg/kg wet	328	1660		107	40-140	11	30
Chrysene	1580		µg/kg wet	66.4	1660		95	40-140	0.1	30
Dibenzo (a,h) anthracene	1400		µg/kg wet	66.4	1660		84	40-140	0.7	30
Dibenzofuran	1690		µg/kg wet	166	1660		102	40-140	6	30
1,2-Dichlorobenzene	1410		µg/kg wet	328	1660		85	40-140	1	30
1,3-Dichlorobenzene	1400		µg/kg wet	328	1660		84	40-140	0.9	30
1,4-Dichlorobenzene	1500		µg/kg wet	328	1660		90	40-140	1	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
LCS Dup (1813739-BSD1)					Prepared: 16-Oct-18 Analyzed: 18-Oct-18					
3,3'-Dichlorobenzidine	2130		µg/kg wet	328	1660		129	40-140	2	30
2,4-Dichlorophenol	1300		µg/kg wet	166	1660		78	30-130	1	30
Diethyl phthalate	1880		µg/kg wet	328	1660		113	40-140	10	30
Dimethyl phthalate	1600		µg/kg wet	328	1660		96	40-140	0.08	30
2,4-Dimethylphenol	1260		µg/kg wet	328	1660		76	30-130	5	30
Di-n-butyl phthalate	1680		µg/kg wet	328	1660		101	40-140	17	30
4,6-Dinitro-2-methylphenol	1390		µg/kg wet	328	1660		84	30-130	5	30
2,4-Dinitrophenol	758		µg/kg wet	328	1660		46	30-130	2	30
2,4-Dinitrotoluene	1790		µg/kg wet	166	1660		108	40-140	0.7	30
2,6-Dinitrotoluene	1830		µg/kg wet	166	1660		110	40-140	2	30
Di-n-octyl phthalate	1460		µg/kg wet	328	1660		88	40-140	15	30
Fluoranthene	1360		µg/kg wet	66.4	1660		82	40-140	0.8	30
Fluorene	1730		µg/kg wet	66.4	1660		104	40-140	10	30
Hexachlorobenzene	1820		µg/kg wet	166	1660		110	40-140	11	30
Hexachlorobutadiene	1470		µg/kg wet	166	1660		88	40-140	5	30
Hexachlorocyclopentadiene	2090		µg/kg wet	166	1660		126	40-140	11	30
Hexachloroethane	1590		µg/kg wet	166	1660		96	40-140	4	30
Indeno (1,2,3-cd) pyrene	1320		µg/kg wet	66.4	1660		79	40-140	5	30
Isophorone	1300		µg/kg wet	166	1660		78	40-140	0.2	30
2-Methylnaphthalene	1530		µg/kg wet	66.4	1660		92	40-140	18	30
2-Methylphenol	1170		µg/kg wet	328	1660		71	30-130	0.3	30
3 & 4-Methylphenol	1260		µg/kg wet	328	1660		76	30-130	8	30
Naphthalene	1420		µg/kg wet	66.4	1660		86	40-140	3	30
2-Nitroaniline	1660		µg/kg wet	328	1660		100	40-140	10	30
3-Nitroaniline	2070		µg/kg wet	328	1660		125	40-140	5	30
4-Nitroaniline	1860		µg/kg wet	166	1660		112	40-140	0.7	30
Nitrobenzene	1700		µg/kg wet	166	1660		103	40-140	8	30
2-Nitrophenol	1330		µg/kg wet	166	1660		80	30-130	1	30
4-Nitrophenol	1300	J	µg/kg wet	1310	1660		78	30-130	4	30
N-Nitrosodimethylamine	1410		µg/kg wet	166	1660		85	40-140	9	30
N-Nitrosodi-n-propylamine	1390		µg/kg wet	166	1660		84	40-140	3	30
N-Nitrosodiphenylamine	1810		µg/kg wet	328	1660		109	40-140	4	30
Pentachlorophenol	632		µg/kg wet	328	1660		38	30-130	10	30
Phenanthrene	1530		µg/kg wet	66.4	1660		92	40-140	1	30
Phenol	1340		µg/kg wet	328	1660		81	30-130	2	30
Pyrene	1460		µg/kg wet	66.4	1660		88	40-140	2	30
Pyridine	1310		µg/kg wet	328	1660		79	40-140	9	30
1,2,4-Trichlorobenzene	1530		µg/kg wet	328	1660		92	40-140	1	30
1-Methylnaphthalene	1500		µg/kg wet	66.4	1660		91	40-140	6	30
2,4,5-Trichlorophenol	1530		µg/kg wet	328	1660		92	30-130	3	30
2,4,6-Trichlorophenol	1460		µg/kg wet	166	1660		88	30-130	2	30
Pentachloronitrobenzene	1680		µg/kg wet	328	1660		101	40-140	1	30
1,2,4,5-Tetrachlorobenzene	1480		µg/kg wet	328	1660		89	40-140	2	30
Surrogate: 2-Fluorobiphenyl	1640		µg/kg wet		1660		99	30-130		
Surrogate: 2-Fluorophenol	1240		µg/kg wet		1660		75	30-130		
Surrogate: Nitrobenzene-d5	1440		µg/kg wet		1660		87	30-130		
Surrogate: Phenol-d5	1610		µg/kg wet		1660		97	30-130		
Surrogate: Terphenyl-d14	1610		µg/kg wet		1660		97	30-130		
Surrogate: 2,4,6-Tribromophenol	1420		µg/kg wet		1660		86	30-130		
Duplicate (1813739-DUP1)			Source: SC50907-05			Prepared: 16-Oct-18 Analyzed: 19-Oct-18				

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
Duplicate (1813739-DUP1)				Source: SC50907-05		Prepared: 16-Oct-18 Analyzed: 19-Oct-18				
Acenaphthene	< 74.5	U	µg/kg dry	74.5		BRL				30
Acenaphthylene	< 74.5	U	µg/kg dry	74.5		BRL				30
Aniline	< 368	U	µg/kg dry	368		BRL				30
Anthracene	< 74.5	U	µg/kg dry	74.5		BRL				30
Azobenzene/Diphenyldiazene	< 368	U	µg/kg dry	368		BRL				30
Benzidine	< 737	U	µg/kg dry	737		BRL				30
Benzo (a) anthracene	78.5		µg/kg dry	74.5		66.7			16	30
Benzo (a) pyrene	59.2	J	µg/kg dry	74.5		50.2			16	30
Benzo (b) fluoranthene	51.7	J	µg/kg dry	74.5		BRL				30
Benzo (g,h,i) perylene	42.8	J	µg/kg dry	74.5		31.9			29	30
Benzo (k) fluoranthene	39.5	J	µg/kg dry	74.5		42.4			7	30
Benzoic acid	< 368	U	µg/kg dry	368		BRL				30
Benzyl alcohol	< 368	U	µg/kg dry	368		BRL				30
Bis(2-chloroethoxy)methane	< 368	U	µg/kg dry	368		BRL				30
Bis(2-chloroethyl)ether	< 186	U	µg/kg dry	186		BRL				30
Bis(2-chloroisopropyl)ether	< 186	U	µg/kg dry	186		BRL				30
Bis(2-ethylhexyl)phthalate	89.0	J	µg/kg dry	186		72.4			21	30
4-Bromophenyl phenyl ether	< 368	U	µg/kg dry	368		BRL				30
Butyl benzyl phthalate	< 368	U	µg/kg dry	368		BRL				30
Carbazole	< 186	U	µg/kg dry	186		BRL				30
4-Chloro-3-methylphenol	< 368	U	µg/kg dry	368		BRL				30
4-Chloroaniline	< 186	U	µg/kg dry	186		BRL				30
2-Chloronaphthalene	< 368	U	µg/kg dry	368		BRL				30
2-Chlorophenol	< 186	U	µg/kg dry	186		BRL				30
4-Chlorophenyl phenyl ether	< 368	U	µg/kg dry	368		BRL				30
Chrysene	71.8	J	µg/kg dry	74.5		64.5			11	30
Dibenzo (a,h) anthracene	< 74.5	U	µg/kg dry	74.5		BRL				30
Dibenzofuran	< 186	U	µg/kg dry	186		BRL				30
1,2-Dichlorobenzene	< 368	U	µg/kg dry	368		BRL				30
1,3-Dichlorobenzene	< 368	U	µg/kg dry	368		BRL				30
1,4-Dichlorobenzene	< 368	U	µg/kg dry	368		BRL				30
3,3'-Dichlorobenzidine	< 368	U	µg/kg dry	368		BRL				30
2,4-Dichlorophenol	< 186	U	µg/kg dry	186		BRL				30
Diethyl phthalate	< 368	U	µg/kg dry	368		BRL				30
Dimethyl phthalate	< 368	U	µg/kg dry	368		BRL				30
2,4-Dimethylphenol	< 368	U	µg/kg dry	368		BRL				30
Di-n-butyl phthalate	< 368	U	µg/kg dry	368		BRL				30
4,6-Dinitro-2-methylphenol	< 368	U	µg/kg dry	368		BRL				30
2,4-Dinitrophenol	< 368	U	µg/kg dry	368		BRL				30
2,4-Dinitrotoluene	< 186	U	µg/kg dry	186		BRL				30
2,6-Dinitrotoluene	< 186	U	µg/kg dry	186		BRL				30
Di-n-octyl phthalate	< 368	U	µg/kg dry	368		BRL				30
Fluoranthene	153		µg/kg dry	74.5		152			0.7	30
Fluorene	< 74.5	U	µg/kg dry	74.5		BRL				30
Hexachlorobenzene	< 186	U	µg/kg dry	186		BRL				30
Hexachlorobutadiene	< 186	U	µg/kg dry	186		BRL				30
Hexachlorocyclopentadiene	< 186	U	µg/kg dry	186		BRL				30
Hexachloroethane	< 186	U	µg/kg dry	186		BRL				30
Indeno (1,2,3-cd) pyrene	40.6	J	µg/kg dry	74.5		30.4			29	30
Isophorone	< 186	U	µg/kg dry	186		BRL				30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
Duplicate (1813739-DUP1)				Source: SC50907-05				Prepared: 16-Oct-18 Analyzed: 19-Oct-18		
2-Methylnaphthalene	< 74.5	U	µg/kg dry	74.5		BRL				30
2-Methylphenol	< 368	U	µg/kg dry	368		BRL				30
3 & 4-Methylphenol	< 368	U	µg/kg dry	368		BRL				30
Naphthalene	< 74.5	U	µg/kg dry	74.5		BRL				30
2-Nitroaniline	< 368	U	µg/kg dry	368		BRL				30
3-Nitroaniline	< 368	U	µg/kg dry	368		BRL				30
4-Nitroaniline	< 186	U	µg/kg dry	186		BRL				30
Nitrobenzene	< 186	U	µg/kg dry	186		BRL				30
2-Nitrophenol	< 186	U	µg/kg dry	186		BRL				30
4-Nitrophenol	< 1470	U	µg/kg dry	1470		BRL				30
N-Nitrosodimethylamine	< 186	U	µg/kg dry	186		BRL				30
N-Nitrosodi-n-propylamine	< 186	U	µg/kg dry	186		BRL				30
N-Nitrosodiphenylamine	< 368	U	µg/kg dry	368		BRL				30
Pentachlorophenol	< 368	U	µg/kg dry	368		BRL				30
Phenanthrene	146		µg/kg dry	74.5		135			8	30
Phenol	< 368	U	µg/kg dry	368		BRL				30
Pyrene	148		µg/kg dry	74.5		123			19	30
Pyridine	< 368	U	µg/kg dry	368		BRL				30
1,2,4-Trichlorobenzene	< 368	U	µg/kg dry	368		BRL				30
1-Methylnaphthalene	< 74.5	U	µg/kg dry	74.5		BRL				30
2,4,5-Trichlorophenol	< 368	U	µg/kg dry	368		BRL				30
2,4,6-Trichlorophenol	< 186	U	µg/kg dry	186		BRL				30
Pentachloronitrobenzene	< 368	U	µg/kg dry	368		BRL				30
1,2,4,5-Tetrachlorobenzene	< 368	U	µg/kg dry	368		BRL				30
Surrogate: 2-Fluorobiphenyl	1490		µg/kg dry		1860		80	30-130		
Surrogate: 2-Fluorophenol	1750		µg/kg dry		1860		94	30-130		
Surrogate: Nitrobenzene-d5	1680		µg/kg dry		1860		90	30-130		
Surrogate: Phenol-d5	1760		µg/kg dry		1860		95	30-130		
Surrogate: Terphenyl-dl4	2060		µg/kg dry		1860		111	30-130		
Surrogate: 2,4,6-Tribromophenol	1760		µg/kg dry		1860		94	30-130		

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
BLK (CB68033-BLK)	Prepared: Analyzed: 09-Oct-18									
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
BLK (CB68033-BLK)	Prepared: Analyzed: 09-Oct-18									
Bromobenzene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Surrogate: % Toluene-d8	94		ug/kg		50		94	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	100		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	94		ug/kg		50		94	70-130		
Surrogate: % Bromofluorobenzene	93		ug/kg		50		93	70-130		
LCS (CB68033-LCS)	Prepared: Analyzed: 09-Oct-18									
2-Isopropyltoluene	47.39		ug/kg	5.0	50		95	70-130		30
Methylene chloride	48.46		ug/kg	5.0	50		97	70-130		30
2,2-Dichloropropane	52.59		ug/kg	5.0	50		105	70-130		30
1,2-Dichlorobenzene	46.48		ug/kg	5.0	50		93	70-130		30
1,2-Dichloroethane	47.00		ug/kg	5.0	50		94	70-130		30
1,2-Dichloropropane	47.10		ug/kg	5.0	50		94	70-130		30
1,3,5-Trimethylbenzene	47.51		ug/kg	1.0	50		95	70-130		30
1,3-Dichlorobenzene	47.57		ug/kg	5.0	50		95	70-130		30
Trichlorotrifluoroethane	51.18		ug/kg	5.0	50		102	70-130		30
1,4-Dichlorobenzene	46.32		ug/kg	5.0	50		93	70-130		30
1,2,4-Trimethylbenzene	46.88		ug/kg	1.0	50		94	70-130		30
2-Chlorotoluene	47.34		ug/kg	5.0	50		95	70-130		30
2-Hexanone	40.19		ug/kg	25	50		80	70-130		30
4-Chlorotoluene	47.37		ug/kg	5.0	50		95	70-130		30
4-Methyl-2-pentanone	42.73		ug/kg	25	50		85	70-130		30
Acetone	40.15		ug/kg	10	50		80	70-130		30
Acrylonitrile	47.69		ug/kg	5.0	50		95	70-130		30
1,3-Dichloropropane	46.86		ug/kg	5.0	50		94	70-130		30
1,1-Dichloroethane	50.35		ug/kg	5.0	50		101	70-130		30
trans-1,2-Dichloroethene	51.29		ug/kg	5.0	50		103	70-130		30
Trichlorofluoromethane	54.38		ug/kg	5.0	50		109	70-130		30
Trichloroethene	48.22		ug/kg	5.0	50		96	70-130		30
trans-1,4-dichloro-2-butene	251.1		ug/kg	5.0	250		100	70-130		30
1,1,1,2-Tetrachloroethane	49.30		ug/kg	5.0	50		99	70-130		30
1,1,1-Trichloroethane	49.75		ug/kg	5.0	50		99	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
LCS (CB68033-LCS)	Prepared: Analyzed: 09-Oct-18									
1,2-Dibromoethane	47.47		ug/kg	5.0	50		95	70-130		30
1,1,2-Trichloroethane	45.91		ug/kg	5.0	50		92	70-130		30
1,2-Dibromo-3-chloropropane	49.09		ug/kg	5.0	50		98	70-130		30
1,1-Dichloroethene	51.86		ug/kg	5.0	50		104	70-130		30
1,1-Dichloropropene	49.07		ug/kg	5.0	50		98	70-130		30
1,2,3-Trichlorobenzene	47.13		ug/kg	5.0	50		94	70-130		30
1,2,3-Trichloropropane	44.44		ug/kg	5.0	50		89	70-130		30
1,2,4-Trichlorobenzene	46.22		ug/kg	5.0	50		92	70-130		30
Bromochloromethane	49.25		ug/kg	5.0	50		98	70-130		30
1,1,2,2-Tetrachloroethane	48.77		ug/kg	3.0	50		98	70-130		30
p-Isopropyltoluene	47.80		ug/kg	1.0	50		96	70-130		30
Benzene	47.75		ug/kg	1.0	50		96	70-130		30
m&p-Xylene	96.93		ug/kg	2.0	100		97	70-130		30
Methyl t-butyl ether (MTBE)	51.71		ug/kg	1.0	50		103	70-130		30
trans-1,3-Dichloropropene	46.69		ug/kg	5.0	50		93	70-130		30
Naphthalene	47.39		ug/kg	5.0	50		95	70-130		30
n-Butylbenzene	47.54		ug/kg	1.0	50		95	70-130		30
Hexachlorobutadiene	48.86		ug/kg	5.0	50		98	70-130		30
o-Xylene	48.40		ug/kg	2.0	50		97	70-130		30
Ethylbenzene	47.98		ug/kg	1.0	50		96	70-130		30
sec-Butylbenzene	50.27		ug/kg	1.0	50		101	70-130		30
Styrene	47.09		ug/kg	5.0	50		94	70-130		30
tert-Butylbenzene	47.91		ug/kg	1.0	50		96	70-130		30
Tetrachloroethene	47.77		ug/kg	5.0	50		96	70-130		30
Tetrahydrofuran (THF)	110.1		ug/kg	5.0	125		88	70-130		30
Toluene	46.65		ug/kg	1.0	50		93	70-130		30
n-Propylbenzene	47.78		ug/kg	1.0	50		96	70-130		30
Chloroform	48.31		ug/kg	5.0	50		97	70-130		30
Vinyl chloride	51.13		ug/kg	5.0	50		102	70-130		30
Bromodichloromethane	49.32		ug/kg	5.0	50		99	70-130		30
Bromoform	52.33		ug/kg	5.0	50		105	70-130		30
Bromomethane	51.92		ug/kg	5.0	50		104	70-130		30
Carbon Disulfide	57.32		ug/kg	5.0	50		115	70-130		30
Carbon tetrachloride	47.22		ug/kg	5.0	50		94	70-130		30
Isopropylbenzene	47.41		ug/kg	1.0	50		95	70-130		30
Chloroethane	54.08		ug/kg	5.0	50		108	70-130		30
Bromobenzene	47.20		ug/kg	5.0	50		94	70-130		30
Chloromethane	45.30		ug/kg	5.0	50		91	70-130		30
cis-1,2-Dichloroethene	49.27		ug/kg	5.0	50		99	70-130		30
cis-1,3-Dichloropropene	46.95		ug/kg	5.0	50		94	70-130		30
Dibromochloromethane	52.24		ug/kg	3.0	50		104	70-130		30
Dibromomethane	46.95		ug/kg	5.0	50		94	70-130		30
Dichlorodifluoromethane	47.31		ug/kg	5.0	50		95	70-130		30
Chlorobenzene	47.63		ug/kg	5.0	50		95	70-130		30
Methyl Ethyl Ketone	41.37		ug/kg	5.0	50		83	70-130		30
Surrogate: % Dibromofluoromethane	49.47		ug/kg		50		99	70-130		
Surrogate: % Toluene-d8	47.24		ug/kg		50		94	70-130		
Surrogate: % Bromofluorobenzene	47.94		ug/kg		50		96	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.45		ug/kg		50		99	70-130		
LCSD (CB68033-LCSD)	Prepared: Analyzed: 09-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
LCSD (CB68033-LCSD)	Prepared: Analyzed: 09-Oct-18									
2-Isopropyltoluene	49.58		ug/kg	5.0	50		99	70-130	4.1	30
n-Butylbenzene	49.31		ug/kg	1.0	50		99	70-130	4.1	30
Naphthalene	48.37		ug/kg	5.0	50		97	70-130	2.1	30
Methylene chloride	49.59		ug/kg	5.0	50		99	70-130	2.0	30
Methyl t-butyl ether (MTBE)	53.33		ug/kg	1.0	50		107	70-130	3.8	30
Methyl Ethyl Ketone	42.40		ug/kg	5.0	50		85	70-130	2.4	30
m&p-Xylene	100.3		ug/kg	2.0	100		100	70-130	3.0	30
Ethylbenzene	49.90		ug/kg	1.0	50		100	70-130	4.1	30
Hexachlorobutadiene	51.68		ug/kg	5.0	50		103	70-130	5.0	30
Dibromochloromethane	53.69		ug/kg	3.0	50		107	70-130	2.8	30
Chloromethane	46.50		ug/kg	5.0	50		93	70-130	2.2	30
sec-Butylbenzene	52.43		ug/kg	1.0	50		105	70-130	3.9	30
cis-1,2-Dichloroethene	50.33		ug/kg	5.0	50		101	70-130	2.0	30
cis-1,3-Dichloropropene	48.21		ug/kg	5.0	50		96	70-130	2.1	30
Dichlorodifluoromethane	49.09		ug/kg	5.0	50		98	70-130	3.1	30
Dibromomethane	48.50		ug/kg	5.0	50		97	70-130	3.1	30
Isopropylbenzene	49.40		ug/kg	1.0	50		99	70-130	4.1	30
Tetrahydrofuran (THF)	111.7		ug/kg	5.0	125		89	70-130	1.1	30
Vinyl chloride	53.00		ug/kg	5.0	50		106	70-130	3.8	30
Trichlorotrifluoroethane	53.55		ug/kg	5.0	50		107	70-130	4.8	30
Trichlorofluoromethane	56.90		ug/kg	5.0	50		114	70-130	4.5	30
Trichloroethene	50.53		ug/kg	5.0	50		101	70-130	5.1	30
trans-1,4-dichloro-2-butene	249.7		ug/kg	5.0	250		100	70-130	0.0	30
trans-1,3-Dichloropropene	47.91		ug/kg	5.0	50		96	70-130	3.2	30
o-Xylene	49.71		ug/kg	2.0	50		99	70-130	2.0	30
Toluene	48.99		ug/kg	1.0	50		98	70-130	5.2	30
n-Propylbenzene	49.39		ug/kg	1.0	50		99	70-130	3.1	30
Tetrachloroethene	50.51		ug/kg	5.0	50		101	70-130	5.1	30
tert-Butylbenzene	49.89		ug/kg	1.0	50		100	70-130	4.1	30
Styrene	48.49		ug/kg	5.0	50		97	70-130	3.1	30
Carbon Disulfide	59.86		ug/kg	5.0	50		120	70-130	4.3	30
p-Isopropyltoluene	49.95		ug/kg	1.0	50		100	70-130	4.1	30
Chloroform	49.37		ug/kg	5.0	50		99	70-130	2.0	30
trans-1,2-Dichloroethene	53.47		ug/kg	5.0	50		107	70-130	3.8	30
1,2,3-Trichlorobenzene	47.85		ug/kg	5.0	50		96	70-130	2.1	30
1,2-Dichloropropane	48.08		ug/kg	5.0	50		96	70-130	2.1	30
1,2-Dichloroethane	48.43		ug/kg	5.0	50		97	70-130	3.1	30
1,2-Dichlorobenzene	47.82		ug/kg	5.0	50		96	70-130	3.2	30
1,2-Dibromoethane	48.55		ug/kg	5.0	50		97	70-130	2.1	30
1,2-Dibromo-3-chloropropane	49.91		ug/kg	5.0	50		100	70-130	2.0	30
1,2,4-Trimethylbenzene	48.43		ug/kg	1.0	50		97	70-130	3.1	30
Chlorobenzene	48.79		ug/kg	5.0	50		98	70-130	3.1	30
1,2,3-Trichloropropane	45.57		ug/kg	5.0	50		91	70-130	2.2	30
1,3-Dichloropropane	47.58		ug/kg	5.0	50		95	70-130	1.1	30
1,1-Dichloropropene	50.98		ug/kg	5.0	50		102	70-130	4.0	30
1,1-Dichloroethene	54.07		ug/kg	5.0	50		108	70-130	3.8	30
1,1-Dichloroethane	51.45		ug/kg	5.0	50		103	70-130	2.0	30
1,1,2-Trichloroethane	47.49		ug/kg	5.0	50		95	70-130	3.2	30
Bromochloromethane	49.92		ug/kg	5.0	50		100	70-130	2.0	30
1,1,1-Trichloroethane	51.70		ug/kg	5.0	50		103	70-130	4.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
LCSD (CB68033-LCSD)					Prepared: Analyzed: 09-Oct-18					
1,2,4-Trichlorobenzene	47.87		ug/kg	5.0	50		96	70-130	4.3	30
Acetone	41.85		ug/kg	10	50		84	70-130	4.9	30
1,1,1,2-Tetrachloroethane	51.02		ug/kg	5.0	50		102	70-130	3.0	30
Carbon tetrachloride	48.55		ug/kg	5.0	50		97	70-130	3.1	30
1,1,2,2-Tetrachloroethane	49.44		ug/kg	3.0	50		99	70-130	1.0	30
Bromomethane	54.06		ug/kg	5.0	50		108	70-130	3.8	30
Bromodichloromethane	50.87		ug/kg	5.0	50		102	70-130	3.0	30
Bromobenzene	47.83		ug/kg	5.0	50		96	70-130	2.1	30
1,3,5-Trimethylbenzene	49.40		ug/kg	1.0	50		99	70-130	4.1	30
Acrylonitrile	49.12		ug/kg	5.0	50		98	70-130	3.1	30
1,3-Dichlorobenzene	48.55		ug/kg	5.0	50		97	70-130	2.1	30
4-Methyl-2-pentanone	44.20		ug/kg	25	50		88	70-130	3.5	30
4-Chlorotoluene	48.53		ug/kg	5.0	50		97	70-130	2.1	30
2-Hexanone	41.37		ug/kg	25	50		83	70-130	3.7	30
2-Chlorotoluene	48.67		ug/kg	5.0	50		97	70-130	2.1	30
2,2-Dichloropropane	53.09		ug/kg	5.0	50		106	70-130	0.9	30
1,4-Dichlorobenzene	47.00		ug/kg	5.0	50		94	70-130	1.1	30
Chloroethane	55.80		ug/kg	5.0	50		112	70-130	3.6	30
Benzene	49.71		ug/kg	1.0	50		99	70-130	3.1	30
Bromoform	54.44		ug/kg	5.0	50		109	70-130	3.7	30
Surrogate: % Toluene-d8	47.76		ug/kg		50		96	70-130		
Surrogate: % Dibromofluoromethane	48.09		ug/kg		50		96	70-130		
Surrogate: % Bromofluorobenzene	47.64		ug/kg		50		95	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.05		ug/kg		50		98	70-130		
MS (CB68033-MS)					Source: CB68033 Prepared: Analyzed: 10-Oct-18					
2-Isopropyltoluene	47.72		ug/kg	5.0	50		95	70-130		30
Bromobenzene	45.77		ug/kg	5.0	50		92	70-130		30
1,4-Dichlorobenzene	42.56		ug/kg	5.0	50		85	70-130		30
2,2-Dichloropropane	49.31		ug/kg	5.0	50		99	70-130		30
2-Chlorotoluene	46.96		ug/kg	5.0	50		94	70-130		30
2-Hexanone	28.95	m	ug/kg	25	50		58	70-130		30
4-Chlorotoluene	46.09		ug/kg	5.0	50		92	70-130		30
4-Methyl-2-pentanone	35.10		ug/kg	25	50		70	70-130		30
Acetone	35.96		ug/kg	10	50		72	70-130		30
1,3-Dichloropropane	44.93		ug/kg	5.0	50		90	70-130		30
Benzene	47.50		ug/kg	1.0	50		95	70-130		30
1,2-Dibromoethane	44.39		ug/kg	5.0	50		89	70-130		30
Bromochloromethane	46.80		ug/kg	5.0	50		94	70-130		30
Bromodichloromethane	47.49		ug/kg	5.0	50		95	70-130		30
Bromoform	46.55		ug/kg	5.0	50		93	70-130		30
Acrylonitrile	25.74	m	ug/kg	5.0	50		51	70-130		30
1,2,3-Trichloropropane	45.21		ug/kg	5.0	50		90	70-130		30
1,1,1,2-Tetrachloroethane	48.68		ug/kg	5.0	50		97	70-130		30
1,1,1-Trichloroethane	49.66		ug/kg	5.0	50		99	70-130		30
1,1,2,2-Tetrachloroethane	47.35		ug/kg	3.0	50		95	70-130		30
1,1,2-Trichloroethane	44.01		ug/kg	5.0	50		88	70-130		30
1,1-Dichloroethane	49.03		ug/kg	5.0	50		98	70-130		30
1,1-Dichloroethene	52.49		ug/kg	5.0	50		105	70-130		30
1,3,5-Trimethylbenzene	48.52		ug/kg	1.0	50		97	70-130		30
1,2,3-Trichlorobenzene	34.99		ug/kg	5.0	50		70	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
MS (CB68033-MS)				Source: CB68033			Prepared: Analyzed: 10-Oct-18			
1,3-Dichlorobenzene	44.38		ug/kg	5.0	50		89	70-130		30
1,2,4-Trichlorobenzene	36.31		ug/kg	5.0	50		73	70-130		30
1,2,4-Trimethylbenzene	47.27		ug/kg	1.0	50		95	70-130		30
1,2-Dibromo-3-chloropropane	44.67		ug/kg	5.0	50		89	70-130		30
1,2-Dichloropropane	45.72		ug/kg	5.0	50		91	70-130		30
1,2-Dichloroethane	44.93		ug/kg	5.0	50		90	70-130		30
Bromomethane	50.43		ug/kg	5.0	50		101	70-130		30
1,1-Dichloropropene	49.05		ug/kg	5.0	50		98	70-130		30
trans-1,3-Dichloropropene	41.71		ug/kg	5.0	50		83	70-130		30
n-Butylbenzene	45.58		ug/kg	1.0	50		91	70-130		30
n-Propylbenzene	48.64		ug/kg	1.0	50		97	70-130		30
o-Xylene	47.48		ug/kg	2.0	50		95	70-130		30
p-Isopropyltoluene	47.70		ug/kg	1.0	50		95	70-130		30
sec-Butylbenzene	50.80		ug/kg	1.0	50		102	70-130		30
Styrene	43.73		ug/kg	5.0	50		87	70-130		30
Tetrachloroethene	48.61		ug/kg	5.0	50		97	70-130		30
Naphthalene	36.32		ug/kg	5.0	50		73	70-130		30
trans-1,2-Dichloroethene	51.11		ug/kg	5.0	50		102	70-130		30
tert-Butylbenzene	49.71		ug/kg	1.0	50		99	70-130		30
trans-1,4-dichloro-2-butene	207.4		ug/kg	5.0	250		83	70-130		30
Carbon Disulfide	56.78		ug/kg	5.0	50		114	70-130		30
1,2-Dichlorobenzene	42.79		ug/kg	5.0	50		86	70-130		30
Trichloroethene	47.95		ug/kg	5.0	50		96	70-130		30
Trichlorofluoromethane	56.72		ug/kg	5.0	50		113	70-130		30
Trichlorotrifluoroethane	52.82		ug/kg	5.0	50		106	70-130		30
Vinyl chloride	52.94		ug/kg	5.0	50		106	70-130		30
Toluene	46.78		ug/kg	1.0	50		94	70-130		30
cis-1,2-Dichloroethene	47.25		ug/kg	5.0	50		95	70-130		30
Carbon tetrachloride	45.60		ug/kg	5.0	50		91	70-130		30
Chlorobenzene	45.99		ug/kg	5.0	50		92	70-130		30
Chloroethane	57.33		ug/kg	5.0	50		115	70-130		30
Chloroform	47.22		ug/kg	5.0	50		94	70-130		30
Tetrahydrofuran (THF)	99.22		ug/kg	5.0	125		79	70-130		30
Chloromethane	45.45		ug/kg	5.0	50		91	70-130		30
cis-1,3-Dichloropropene	43.52		ug/kg	5.0	50		87	70-130		30
Dibromochloromethane	49.57		ug/kg	3.0	50		99	70-130		30
Dibromomethane	45.03		ug/kg	5.0	50		90	70-130		30
Dichlorodifluoromethane	58.62		ug/kg	5.0	50		117	70-130		30
Methyl Ethyl Ketone	34.25	m	ug/kg	5.0	50		69	70-130		30
Methyl t-butyl ether (MTBE)	50.70		ug/kg	1.0	50		101	70-130		30
m&p-Xylene	95.92		ug/kg	2.0	100		96	70-130		30
Isopropylbenzene	49.44		ug/kg	1.0	50		99	70-130		30
Hexachlorobutadiene	42.34		ug/kg	5.0	50		85	70-130		30
Ethylbenzene	47.49		ug/kg	1.0	50		95	70-130		30
Methylene chloride	48.75		ug/kg	5.0	50		97	70-130		30
Surrogate: % Dibromofluoromethane	47.96		ug/kg		50		96	70-130		
Surrogate: % Bromofluorobenzene	47.10		ug/kg		50		94	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	48.77		ug/kg		50		98	70-130		
Surrogate: % Toluene-d8	47.41		ug/kg		50		95	70-130		
MSD (CB68033-MSD)				Source: CB68033			Prepared: Analyzed: 10-Oct-18			

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
MSD (CB68033-MSD)	Source: CB68033				Prepared: Analyzed: 10-Oct-18					
2-Isopropyltoluene	48.18		ug/kg	5.0	50		96	70-130	1.0	30
Acrylonitrile	29.54	m	ug/kg	5.0	50		59	70-130	14.5	30
1,3,5-Trimethylbenzene	49.15		ug/kg	1.0	50		98	70-130	1.0	30
1,3-Dichlorobenzene	44.72		ug/kg	5.0	50		89	70-130	0.0	30
1,3-Dichloropropane	46.04		ug/kg	5.0	50		92	70-130	2.2	30
1,4-Dichlorobenzene	42.86		ug/kg	5.0	50		86	70-130	1.2	30
2,2-Dichloropropane	51.10		ug/kg	5.0	50		102	70-130	3.0	30
2-Chlorotoluene	48.01		ug/kg	5.0	50		96	70-130	2.1	30
2-Hexanone	30.25	m	ug/kg	25	50		61	70-130	5.0	30
Trichlorotrifluoroethane	54.60		ug/kg	5.0	50		109	70-130	2.8	30
Benzene	48.31		ug/kg	1.0	50		97	70-130	2.1	30
1,2-Dichloropropane	46.50		ug/kg	5.0	50		93	70-130	2.2	30
4-Methyl-2-pentanone	36.74		ug/kg	25	50		73	70-130	4.2	30
Acetone	37.56		ug/kg	10	50		75	70-130	4.1	30
Bromobenzene	46.38		ug/kg	5.0	50		93	70-130	1.1	30
4-Chlorotoluene	46.39		ug/kg	5.0	50		93	70-130	1.1	30
1,1-Dichloropropene	49.65		ug/kg	5.0	50		99	70-130	1.0	30
trans-1,2-Dichloroethene	53.34		ug/kg	5.0	50		107	70-130	4.8	30
Bromochloromethane	47.81		ug/kg	5.0	50		96	70-130	2.1	30
trans-1,4-dichloro-2-butene	220.0		ug/kg	5.0	250		88	70-130	5.8	30
1,1,1-Trichloroethane	50.35		ug/kg	5.0	50		101	70-130	2.0	30
1,1,2,2-Tetrachloroethane	48.24		ug/kg	3.0	50		96	70-130	1.0	30
Trichloroethene	48.41		ug/kg	5.0	50		97	70-130	1.0	30
1,1,2-Trichloroethane	44.87		ug/kg	5.0	50		90	70-130	2.2	30
1,1,1,2-Tetrachloroethane	49.93		ug/kg	5.0	50		100	70-130	3.0	30
1,1-Dichloroethene	54.41		ug/kg	5.0	50		109	70-130	3.7	30
1,2-Dichloroethane	45.61		ug/kg	5.0	50		91	70-130	1.1	30
1,2,3-Trichlorobenzene	33.40	m	ug/kg	5.0	50		67	70-130	4.4	30
1,2,3-Trichloropropane	43.27		ug/kg	5.0	50		87	70-130	3.4	30
1,2,4-Trichlorobenzene	34.80		ug/kg	5.0	50		70	70-130	4.2	30
1,2,4-Trimethylbenzene	47.90		ug/kg	1.0	50		96	70-130	1.0	30
1,2-Dibromo-3-chloropropane	45.35		ug/kg	5.0	50		91	70-130	2.2	30
1,2-Dibromoethane	45.32		ug/kg	5.0	50		91	70-130	2.2	30
1,2-Dichlorobenzene	43.23		ug/kg	5.0	50		86	70-130	0.0	30
1,1-Dichloroethane	50.06		ug/kg	5.0	50		100	70-130	2.0	30
sec-Butylbenzene	51.48		ug/kg	1.0	50		103	70-130	1.0	30
Methyl Ethyl Ketone	36.00		ug/kg	5.0	50		72	70-130	4.3	30
Tetrahydrofuran (THF)	101.9		ug/kg	5.0	125		82	70-130	3.7	30
Methylene chloride	50.42		ug/kg	5.0	50		101	70-130	4.0	30
Naphthalene	35.64		ug/kg	5.0	50		71	70-130	2.8	30
n-Butylbenzene	45.24		ug/kg	1.0	50		90	70-130	1.1	30
n-Propylbenzene	49.10		ug/kg	1.0	50		98	70-130	1.0	30
Isopropylbenzene	50.03		ug/kg	1.0	50		100	70-130	1.0	30
p-Isopropyltoluene	48.18		ug/kg	1.0	50		96	70-130	1.0	30
m&p-Xylene	97.60		ug/kg	2.0	100		98	70-130	2.1	30
Styrene	44.18		ug/kg	5.0	50		88	70-130	1.1	30
tert-Butylbenzene	50.08		ug/kg	1.0	50		100	70-130	1.0	30
Tetrachloroethene	48.52		ug/kg	5.0	50		97	70-130	0.0	30
Trichlorofluoromethane	58.10		ug/kg	5.0	50		116	70-130	2.6	30
Toluene	46.89		ug/kg	1.0	50		94	70-130	0.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451220A - SW8260C										
MSD (CB68033-MSD)						Source: CB68033		Prepared: Analyzed: 10-Oct-18		
trans-1,3-Dichloropropene	42.60		ug/kg	5.0	50		85	70-130	2.4	30
Vinyl chloride	54.42		ug/kg	5.0	50		109	70-130	2.8	30
o-Xylene	48.27		ug/kg	2.0	50		97	70-130	2.1	30
Chloroethane	60.88		ug/kg	5.0	50		122	70-130	5.9	30
Bromodichloromethane	48.49		ug/kg	5.0	50		97	70-130	2.1	30
Bromoform	48.22		ug/kg	5.0	50		96	70-130	3.2	30
Bromomethane	53.59		ug/kg	5.0	50		107	70-130	5.8	30
Carbon Disulfide	59.07		ug/kg	5.0	50		118	70-130	3.4	30
Methyl t-butyl ether (MTBE)	52.56		ug/kg	1.0	50		105	70-130	3.9	30
Chlorobenzene	46.83		ug/kg	5.0	50		94	70-130	2.2	30
Hexachlorobutadiene	39.91		ug/kg	5.0	50		80	70-130	6.1	30
Chloroform	48.07		ug/kg	5.0	50		96	70-130	2.1	30
Chloromethane	47.97		ug/kg	5.0	50		96	70-130	5.3	30
cis-1,2-Dichloroethene	48.56		ug/kg	5.0	50		97	70-130	2.1	30
cis-1,3-Dichloropropene	43.72		ug/kg	5.0	50		87	70-130	0.0	30
Dibromochloromethane	50.58		ug/kg	3.0	50		101	70-130	2.0	30
Dibromomethane	45.03		ug/kg	5.0	50		90	70-130	0.0	30
Dichlorodifluoromethane	59.84		ug/kg	5.0	50		120	70-130	2.5	30
Ethylbenzene	48.78		ug/kg	1.0	50		98	70-130	3.1	30
Carbon tetrachloride	47.10		ug/kg	5.0	50		94	70-130	3.2	30
Surrogate: % Bromofluorobenzene	46.93		ug/kg		50		94	70-130		
Surrogate: % Toluene-d8	47.43		ug/kg		50		95	70-130		
Surrogate: % Dibromofluoromethane	48.14		ug/kg		50		96	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	48.53		ug/kg		50		97	70-130		
Batch 451350A - SW8260C										
BLK (CB68181-BLK)								Prepared: Analyzed: 10-Oct-18		
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451350A - SW8260C										
BLK (CB68181-BLK)	Prepared: Analyzed: 10-Oct-18									
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Surrogate: % 1,2-dichlorobenzene-d4	98		ug/kg		50		98	70-130		
Surrogate: % Bromofluorobenzene	93		ug/kg		50		93	70-130		
Surrogate: % Dibromofluoromethane	96		ug/kg		50		96	70-130		
Surrogate: % Toluene-d8	94		ug/kg		50		94	70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451350A - SW8260C										
LCS (CB68181-LCS)	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	47.36		ug/kg	5.0	50		95	70-130		30
1,3-Dichlorobenzene	47.99		ug/kg	5.0	50		96	70-130		30
1,3-Dichloropropane	46.02		ug/kg	5.0	50		92	70-130		30
1,4-Dichlorobenzene	46.42		ug/kg	5.0	50		93	70-130		30
2,2-Dichloropropane	52.05		ug/kg	5.0	50		104	70-130		30
2-Chlorotoluene	47.06		ug/kg	5.0	50		94	70-130		30
2-Hexanone	40.11		ug/kg	25	50		80	70-130		30
4-Chlorotoluene	47.21		ug/kg	5.0	50		94	70-130		30
4-Methyl-2-pentanone	42.09		ug/kg	25	50		84	70-130		30
Bromobenzene	47.32		ug/kg	5.0	50		95	70-130		30
Acrylonitrile	46.79		ug/kg	5.0	50		94	70-130		30
Benzene	47.19		ug/kg	1.0	50		94	70-130		30
Bromodichloromethane	48.50		ug/kg	5.0	50		97	70-130		30
Bromochloromethane	47.56		ug/kg	5.0	50		95	70-130		30
1,3,5-Trimethylbenzene	47.77		ug/kg	1.0	50		96	70-130		30
Acetone	40.78		ug/kg	10	50		82	70-130		30
1,2,3-Trichlorobenzene	48.15		ug/kg	5.0	50		96	70-130		30
trans-1,4-dichloro-2-butene	254.5		ug/kg	5.0	250		102	70-130		30
Bromoform	52.66		ug/kg	5.0	50		105	70-130		30
1,1,1,2-Tetrachloroethane	48.64		ug/kg	5.0	50		97	70-130		30
1,1,2,2-Tetrachloroethane	49.01		ug/kg	3.0	50		98	70-130		30
1,1,2-Trichloroethane	45.25		ug/kg	5.0	50		90	70-130		30
1,1-Dichloroethane	48.69		ug/kg	5.0	50		97	70-130		30
1,1,1-Trichloroethane	48.66		ug/kg	5.0	50		97	70-130		30
1,1-Dichloropropene	48.02		ug/kg	5.0	50		96	70-130		30
1,2-Dichloropropane	45.69		ug/kg	5.0	50		91	70-130		30
1,2,3-Trichloropropane	43.98		ug/kg	5.0	50		88	70-130		30
1,2,4-Trichlorobenzene	47.99		ug/kg	5.0	50		96	70-130		30
1,2,4-Trimethylbenzene	47.36		ug/kg	1.0	50		95	70-130		30
1,2-Dibromo-3-chloropropane	49.09		ug/kg	5.0	50		98	70-130		30
1,2-Dibromoethane	47.01		ug/kg	5.0	50		94	70-130		30
1,2-Dichlorobenzene	47.09		ug/kg	5.0	50		94	70-130		30
1,2-Dichloroethane	45.94		ug/kg	5.0	50		92	70-130		30
1,1-Dichloroethene	52.19		ug/kg	5.0	50		104	70-130		30
Tetrachloroethene	47.33		ug/kg	5.0	50		95	70-130		30
Naphthalene	48.49		ug/kg	5.0	50		97	70-130		30
Bromomethane	54.03		ug/kg	5.0	50		108	70-130		30
n-Propylbenzene	47.65		ug/kg	1.0	50		95	70-130		30
trans-1,2-Dichloroethene	52.17		ug/kg	5.0	50		104	70-130		30
p-Isopropyltoluene	47.99		ug/kg	1.0	50		96	70-130		30
sec-Butylbenzene	50.07		ug/kg	1.0	50		100	70-130		30
Methylene chloride	49.04		ug/kg	5.0	50		98	70-130		30
tert-Butylbenzene	47.76		ug/kg	1.0	50		96	70-130		30
n-Butylbenzene	47.97		ug/kg	1.0	50		96	70-130		30
Tetrahydrofuran (THF)	107.5		ug/kg	5.0	125		86	70-130		30
Toluene	46.19		ug/kg	1.0	50		92	70-130		30
trans-1,3-Dichloropropene	45.64		ug/kg	5.0	50		91	70-130		30
Trichloroethene	47.95		ug/kg	5.0	50		96	70-130		30
Trichlorofluoromethane	54.22		ug/kg	5.0	50		108	70-130		30
Trichlorotrifluoroethane	50.43		ug/kg	5.0	50		101	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451350A - SW8260C										
<u>LCS (CB68181-LCS)</u>	Prepared: Analyzed: 10-Oct-18									
Vinyl chloride	51.77		ug/kg	5.0	50		104	70-130		30
Styrene	46.79		ug/kg	5.0	50		94	70-130		30
Chloromethane	46.85		ug/kg	5.0	50		94	70-130		30
Carbon Disulfide	58.57		ug/kg	5.0	50		117	70-130		30
Carbon tetrachloride	45.94		ug/kg	5.0	50		92	70-130		30
Chlorobenzene	47.15		ug/kg	5.0	50		94	70-130		30
o-Xylene	47.74		ug/kg	2.0	50		95	70-130		30
Chloroform	46.75		ug/kg	5.0	50		94	70-130		30
Methyl t-butyl ether (MTBE)	52.02		ug/kg	1.0	50		104	70-130		30
cis-1,2-Dichloroethene	47.91		ug/kg	5.0	50		96	70-130		30
cis-1,3-Dichloropropene	46.15		ug/kg	5.0	50		92	70-130		30
Dibromochloromethane	51.28		ug/kg	3.0	50		103	70-130		30
Dibromomethane	46.10		ug/kg	5.0	50		92	70-130		30
Dichlorodifluoromethane	55.23		ug/kg	5.0	50		110	70-130		30
Ethylbenzene	47.77		ug/kg	1.0	50		96	70-130		30
Hexachlorobutadiene	48.13		ug/kg	5.0	50		96	70-130		30
Isopropylbenzene	47.73		ug/kg	1.0	50		95	70-130		30
m&p-Xylene	96.43		ug/kg	2.0	100		96	70-130		30
Methyl Ethyl Ketone	40.44		ug/kg	5.0	50		81	70-130		30
Chloroethane	54.12		ug/kg	5.0	50		108	70-130		30
Surrogate: % Toluene-d8	47.53		ug/kg		50		95	70-130		
Surrogate: % Dibromofluoromethane	48.95		ug/kg		50		98	70-130		
Surrogate: % Bromofluorobenzene	48.05		ug/kg		50		96	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.04		ug/kg		50		100	70-130		
<u>LCSD (CB68181-LCSD)</u>	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	49.20		ug/kg	5.0	50		98	70-130	3.1	30
Acrylonitrile	47.20		ug/kg	5.0	50		94	70-130	0.0	30
Acetone	42.42		ug/kg	10	50		85	70-130	3.6	30
Carbon tetrachloride	46.17		ug/kg	5.0	50		92	70-130	0.0	30
1,3-Dichloropropane	48.60		ug/kg	5.0	50		97	70-130	5.3	30
1,4-Dichlorobenzene	49.16		ug/kg	5.0	50		98	70-130	5.2	30
2,2-Dichloropropane	53.30		ug/kg	5.0	50		107	70-130	2.8	30
2-Chlorotoluene	48.98		ug/kg	5.0	50		98	70-130	4.2	30
2-Hexanone	41.66		ug/kg	25	50		83	70-130	3.7	30
1,3,5-Trimethylbenzene	49.93		ug/kg	1.0	50		100	70-130	4.1	30
4-Methyl-2-pentanone	43.41		ug/kg	25	50		87	70-130	3.5	30
1,2-Dichloropropane	47.81		ug/kg	5.0	50		96	70-130	5.3	30
Benzene	49.00		ug/kg	1.0	50		98	70-130	4.2	30
Bromochloromethane	49.05		ug/kg	5.0	50		98	70-130	3.1	30
Bromodichloromethane	50.37		ug/kg	5.0	50		101	70-130	4.0	30
Bromoform	55.05		ug/kg	5.0	50		110	70-130	4.7	30
Bromomethane	56.25		ug/kg	5.0	50		113	70-130	4.5	30
Bromobenzene	49.13		ug/kg	5.0	50		98	70-130	3.1	30
4-Chlorotoluene	49.78		ug/kg	5.0	50		100	70-130	6.2	30
1,2,3-Trichloropropane	44.47		ug/kg	5.0	50		89	70-130	1.1	30
1,1,1,2-Tetrachloroethane	51.46		ug/kg	5.0	50		103	70-130	6.0	30
1,1,1-Trichloroethane	49.40		ug/kg	5.0	50		99	70-130	2.0	30
1,1,2,2-Tetrachloroethane	50.36		ug/kg	3.0	50		101	70-130	3.0	30
1,1,2-Trichloroethane	47.37		ug/kg	5.0	50		95	70-130	5.4	30
1,1-Dichloroethane	50.21		ug/kg	5.0	50		100	70-130	3.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451350A - SW8260C										
LCSD (CB68181-LCSD)					Prepared: Analyzed: 10-Oct-18					
1,1-Dichloroethene	52.78		ug/kg	5.0	50		106	70-130	1.9	30
1,3-Dichlorobenzene	50.36		ug/kg	5.0	50		101	70-130	5.1	30
1,2,3-Trichlorobenzene	50.77		ug/kg	5.0	50		102	70-130	6.1	30
Chlorobenzene	49.31		ug/kg	5.0	50		99	70-130	5.2	30
1,2,4-Trichlorobenzene	51.98		ug/kg	5.0	50		104	70-130	8.0	30
1,2,4-Trimethylbenzene	49.61		ug/kg	1.0	50		99	70-130	4.1	30
1,2-Dibromo-3-chloropropane	50.55		ug/kg	5.0	50		101	70-130	3.0	30
1,2-Dibromoethane	48.97		ug/kg	5.0	50		98	70-130	4.2	30
1,2-Dichlorobenzene	48.94		ug/kg	5.0	50		98	70-130	4.2	30
1,2-Dichloroethane	47.70		ug/kg	5.0	50		95	70-130	3.2	30
1,1-Dichloropropene	49.58		ug/kg	5.0	50		99	70-130	3.1	30
Toluene	48.31		ug/kg	1.0	50		97	70-130	5.3	30
Carbon Disulfide	59.14		ug/kg	5.0	50		118	70-130	0.9	30
o-Xylene	50.16		ug/kg	2.0	50		100	70-130	5.1	30
p-Isopropyltoluene	49.90		ug/kg	1.0	50		100	70-130	4.1	30
sec-Butylbenzene	51.69		ug/kg	1.0	50		103	70-130	3.0	30
Styrene	49.57		ug/kg	5.0	50		99	70-130	5.2	30
tert-Butylbenzene	49.66		ug/kg	1.0	50		99	70-130	3.1	30
n-Butylbenzene	49.92		ug/kg	1.0	50		100	70-130	4.1	30
Tetrahydrofuran (THF)	109.0		ug/kg	5.0	125		87	70-130	1.2	30
Naphthalene	49.57		ug/kg	5.0	50		99	70-130	2.0	30
trans-1,2-Dichloroethene	52.88		ug/kg	5.0	50		106	70-130	1.9	30
trans-1,3-Dichloropropene	48.05		ug/kg	5.0	50		96	70-130	5.3	30
trans-1,4-dichloro-2-butene	264.3		ug/kg	5.0	250		106	70-130	3.8	30
Trichloroethene	49.11		ug/kg	5.0	50		98	70-130	2.1	30
Trichlorofluoromethane	54.11		ug/kg	5.0	50		108	70-130	0.0	30
Trichlorotrifluoroethane	51.09		ug/kg	5.0	50		102	70-130	1.0	30
Tetrachloroethene	49.36		ug/kg	5.0	50		99	70-130	4.1	30
Dichlorodifluoromethane	55.09		ug/kg	5.0	50		110	70-130	0.0	30
Chloroethane	55.37		ug/kg	5.0	50		111	70-130	2.7	30
Chloroform	48.16		ug/kg	5.0	50		96	70-130	2.1	30
Chloromethane	47.09		ug/kg	5.0	50		94	70-130	0.0	30
cis-1,2-Dichloroethene	49.26		ug/kg	5.0	50		99	70-130	3.1	30
cis-1,3-Dichloropropene	48.36		ug/kg	5.0	50		97	70-130	5.3	30
n-Propylbenzene	49.11		ug/kg	1.0	50		98	70-130	3.1	30
Dibromomethane	47.68		ug/kg	5.0	50		95	70-130	3.2	30
Vinyl chloride	51.85		ug/kg	5.0	50		104	70-130	0.0	30
Ethylbenzene	49.82		ug/kg	1.0	50		100	70-130	4.1	30
Hexachlorobutadiene	50.46		ug/kg	5.0	50		101	70-130	5.1	30
Isopropylbenzene	49.12		ug/kg	1.0	50		98	70-130	3.1	30
m&p-Xylene	100.7		ug/kg	2.0	100		101	70-130	5.1	30
Methyl Ethyl Ketone	41.37		ug/kg	5.0	50		83	70-130	2.4	30
Methyl t-butyl ether (MTBE)	53.33		ug/kg	1.0	50		107	70-130	2.8	30
Methylene chloride	49.97		ug/kg	5.0	50		100	70-130	2.0	30
Dibromochloromethane	54.62		ug/kg	3.0	50		109	70-130	5.7	30
Surrogate: % 1,2-dichlorobenzene-d4	48.99		ug/kg		50		98	70-130		
Surrogate: % Bromofluorobenzene	48.38		ug/kg		50		97	70-130		
Surrogate: % Toluene-d8	47.86		ug/kg		50		96	70-130		
Surrogate: % Dibromofluoromethane	49.21		ug/kg		50		98	70-130		
MS (CB68181-MS)				Source: SC50907-05		Prepared: Analyzed: 10-Oct-18				

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451350A - SW8260C										
MS (CB68181-MS)				Source: SC50907-05			Prepared: Analyzed: 10-Oct-18			
2-Isopropyltoluene	47.72		ug/kg	5.0	50		95	70-130		30
Acetone	43.99		ug/kg	10	50		77	70-130		30
1,3-Dichlorobenzene	47.92		ug/kg	5.0	50	BRL	96	70-130		30
1,3-Dichloropropane	46.40		ug/kg	5.0	50	BRL	93	70-130		30
1,4-Dichlorobenzene	46.76		ug/kg	5.0	50	BRL	94	70-130		30
2,2-Dichloropropane	47.57		ug/kg	5.0	50	BRL	95	70-130		30
2-Chlorotoluene	46.36		ug/kg	5.0	50	BRL	93	70-130		30
2-Hexanone	37.92		ug/kg	25	50	BRL	76	70-130		30
Bromoform	47.80		ug/kg	5.0	50	BRL	96	70-130		30
4-Methyl-2-pentanone	40.42		ug/kg	25	50	BRL	81	70-130		30
1,2-Dichloroethane	45.63		ug/kg	5.0	50	BRL	91	70-130		30
Acrylonitrile	43.64		ug/kg	5.0	50	BRL	87	70-130		30
Benzene	46.26		ug/kg	1.0	50	BRL	93	70-130		30
Bromochloromethane	47.64		ug/kg	5.0	50	BRL	95	70-130		30
Trichloroethene	47.39		ug/kg	5.0	50	BRL	95	70-130		30
4-Chlorotoluene	46.73		ug/kg	5.0	50	BRL	93	70-130		30
1,2,3-Trichloropropane	42.69		ug/kg	5.0	50	BRL	85	70-130		30
1,1,1,2-Tetrachloroethane	48.42		ug/kg	5.0	50	BRL	97	70-130		30
1,1,1-Trichloroethane	45.86		ug/kg	5.0	50	BRL	92	70-130		30
1,1,2,2-Tetrachloroethane	47.23		ug/kg	3.0	50	BRL	94	70-130		30
1,1,2-Trichloroethane	46.61		ug/kg	5.0	50	BRL	93	70-130		30
1,1-Dichloroethane	44.10		ug/kg	5.0	50	BRL	88	70-130		30
1,1-Dichloroethene	44.64		ug/kg	5.0	50	BRL	89	70-130		30
1,3,5-Trimethylbenzene	46.77		ug/kg	1.0	50	BRL	94	70-130		30
1,2,3-Trichlorobenzene	46.04		ug/kg	5.0	50	BRL	92	70-130		30
1,2-Dichloropropane	45.73		ug/kg	5.0	50	BRL	91	70-130		30
1,2,4-Trichlorobenzene	47.05		ug/kg	5.0	50	BRL	94	70-130		30
1,2,4-Trimethylbenzene	47.14		ug/kg	1.0	50	BRL	94	70-130		30
1,2-Dibromo-3-chloropropane	45.30		ug/kg	5.0	50	BRL	91	70-130		30
1,2-Dibromoethane	47.06		ug/kg	5.0	50	BRL	94	70-130		30
1,2-Dichlorobenzene	47.47		ug/kg	5.0	50	BRL	95	70-130		30
Bromodichloromethane	46.19		ug/kg	5.0	50	BRL	92	70-130		30
1,1-Dichloropropene	46.50		ug/kg	5.0	50	BRL	93	70-130		30
Tetrahydrofuran (THF)	102.9		ug/kg	5.0	125	BRL	82	70-130		30
Bromomethane	47.02		ug/kg	5.0	50	BRL	94	70-130		30
n-Propylbenzene	46.47		ug/kg	1.0	50	BRL	93	70-130		30
Bromobenzene	47.05		ug/kg	5.0	50	BRL	94	70-130		30
p-Isopropyltoluene	48.03		ug/kg	1.0	50	BRL	96	70-130		30
sec-Butylbenzene	49.76		ug/kg	1.0	50	BRL	100	70-130		30
Styrene	47.46		ug/kg	5.0	50	BRL	95	70-130		30
Naphthalene	43.93		ug/kg	5.0	50	BRL	88	70-130		30
Tetrachloroethene	49.14		ug/kg	5.0	50	BRL	98	70-130		30
n-Butylbenzene	47.40		ug/kg	1.0	50	BRL	95	70-130		30
Toluene	46.21		ug/kg	1.0	50	BRL	92	70-130		30
trans-1,2-Dichloroethene	46.43		ug/kg	5.0	50	BRL	93	70-130		30
trans-1,3-Dichloropropene	45.17		ug/kg	5.0	50	BRL	90	70-130		30
trans-1,4-dichloro-2-butene	228.5		ug/kg	5.0	250	BRL	91	70-130		30
Vinyl chloride	51.97		ug/kg	5.0	50	BRL	104	70-130		30
Trichlorotrifluoroethane	46.44		ug/kg	5.0	50	BRL	93	70-130		30
Trichlorofluoromethane	43.92		ug/kg	5.0	50	BRL	88	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451350A - SW8260C										
MS (CB68181-MS)				Source: SC50907-05		Prepared: Analyzed: 10-Oct-18				
tert-Butylbenzene	47.39		ug/kg	1.0	50	BRL	95	70-130		30
cis-1,2-Dichloroethene	45.95		ug/kg	5.0	50	BRL	92	70-130		30
Carbon Disulfide	43.57		ug/kg	5.0	50	BRL	87	70-130		30
Carbon tetrachloride	40.58		ug/kg	5.0	50	BRL	81	70-130		30
Chlorobenzene	47.67		ug/kg	5.0	50	BRL	95	70-130		30
Chloroethane	43.98		ug/kg	5.0	50	BRL	88	70-130		30
o-Xylene	48.59		ug/kg	2.0	50	BRL	97	70-130		30
Chloromethane	43.72		ug/kg	5.0	50	BRL	87	70-130		30
Methylene chloride	45.44		ug/kg	5.0	50	BRL	91	70-130		30
cis-1,3-Dichloropropene	45.32		ug/kg	5.0	50	BRL	91	70-130		30
Dibromomethane	45.94		ug/kg	5.0	50	BRL	92	70-130		30
Dichlorodifluoromethane	52.84		ug/kg	5.0	50	BRL	106	70-130		30
Ethylbenzene	47.64		ug/kg	1.0	50	BRL	95	70-130		30
Hexachlorobutadiene	52.40		ug/kg	5.0	50	BRL	105	70-130		30
Isopropylbenzene	45.97		ug/kg	1.0	50	BRL	92	70-130		30
m&p-Xylene	96.48		ug/kg	2.0	100	BRL	96	70-130		30
Dibromochloromethane	49.03		ug/kg	3.0	50	BRL	98	70-130		30
Methyl t-butyl ether (MTBE)	48.71		ug/kg	1.0	50	BRL	97	70-130		30
Chloroform	45.02		ug/kg	5.0	50	BRL	90	70-130		30
Methyl Ethyl Ketone	37.09		ug/kg	5.0	50	BRL	74	70-130		30
Surrogate: % Toluene-d8	48.00		ug/kg		50		96	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	49.56		ug/kg		50		99	70-130		
Surrogate: % Dibromofluoromethane	49.27		ug/kg		50		99	70-130		
Surrogate: % Bromofluorobenzene	48.36		ug/kg		50		97	70-130		
MSD (CB68181-MSD)				Source: SC50907-05		Prepared: Analyzed: 10-Oct-18				
2-Isopropyltoluene	47.95		ug/kg	5.0	50		96	70-130	1.0	30
Acetone	45.30		ug/kg	10	50		80	70-130	3.8	30
1,3-Dichloropropane	46.41		ug/kg	5.0	50	BRL	93	70-130	0.0	30
1,4-Dichlorobenzene	47.34		ug/kg	5.0	50	BRL	95	70-130	1.1	30
2,2-Dichloropropane	47.81		ug/kg	5.0	50	BRL	96	70-130	1.0	30
2-Chlorotoluene	46.84		ug/kg	5.0	50	BRL	94	70-130	1.1	30
2-Hexanone	38.45		ug/kg	25	50	BRL	77	70-130	1.3	30
Bromomethane	51.52		ug/kg	5.0	50	BRL	103	70-130	9.1	30
4-Methyl-2-pentanone	41.64		ug/kg	25	50	BRL	83	70-130	2.4	30
1,2-Dichloropropane	46.08		ug/kg	5.0	50	BRL	92	70-130	1.1	30
Acrylonitrile	43.42		ug/kg	5.0	50	BRL	87	70-130	0.0	30
Benzene	46.33		ug/kg	1.0	50	BRL	93	70-130	0.0	30
Bromobenzene	47.54		ug/kg	5.0	50	BRL	95	70-130	1.1	30
Bromochloromethane	48.14		ug/kg	5.0	50	BRL	96	70-130	1.0	30
Bromodichloromethane	46.93		ug/kg	5.0	50	BRL	94	70-130	2.2	30
Bromoform	49.87		ug/kg	5.0	50	BRL	100	70-130	4.1	30
4-Chlorotoluene	47.63		ug/kg	5.0	50	BRL	95	70-130	2.1	30
1,2,3-Trichloropropane	43.34		ug/kg	5.0	50	BRL	87	70-130	2.3	30
1,1,1,2-Tetrachloroethane	48.84		ug/kg	5.0	50	BRL	98	70-130	1.0	30
Vinyl chloride	52.21		ug/kg	5.0	50	BRL	104	70-130	0.0	30
1,1,2,2-Tetrachloroethane	47.96		ug/kg	3.0	50	BRL	96	70-130	2.1	30
1,1,2-Trichloroethane	47.45		ug/kg	5.0	50	BRL	95	70-130	2.1	30
1,1-Dichloroethane	43.76		ug/kg	5.0	50	BRL	88	70-130	0.0	30
1,1-Dichloroethene	44.13		ug/kg	5.0	50	BRL	88	70-130	1.1	30
1,3-Dichlorobenzene	48.65		ug/kg	5.0	50	BRL	97	70-130	1.0	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451350A - SW8260C										
MSD (CB68181-MSD)				Source: SC50907-05		Prepared:	Analyzed: 10-Oct-18			
1,2,3-Trichlorobenzene	48.20		ug/kg	5.0	50	BRL	96	70-130	4.3	30
1,3,5-Trimethylbenzene	47.03		ug/kg	1.0	50	BRL	94	70-130	0.0	30
1,2,4-Trichlorobenzene	49.56		ug/kg	5.0	50	BRL	99	70-130	5.2	30
1,2,4-Trimethylbenzene	47.27		ug/kg	1.0	50	BRL	95	70-130	1.1	30
1,2-Dibromo-3-chloropropane	46.30		ug/kg	5.0	50	BRL	93	70-130	2.2	30
1,2-Dibromoethane	47.68		ug/kg	5.0	50	BRL	95	70-130	1.1	30
1,2-Dichlorobenzene	48.55		ug/kg	5.0	50	BRL	97	70-130	2.1	30
1,2-Dichloroethane	45.54		ug/kg	5.0	50	BRL	91	70-130	0.0	30
1,1,1-Trichloroethane	45.86		ug/kg	5.0	50	BRL	92	70-130	0.0	30
1,1-Dichloropropene	46.80		ug/kg	5.0	50	BRL	94	70-130	1.1	30
Toluene	46.53		ug/kg	1.0	50	BRL	93	70-130	1.1	30
n-Propylbenzene	47.07		ug/kg	1.0	50	BRL	94	70-130	1.1	30
o-Xylene	49.20		ug/kg	2.0	50	BRL	98	70-130	1.0	30
p-Isopropyltoluene	48.18		ug/kg	1.0	50	BRL	96	70-130	0.0	30
sec-Butylbenzene	50.17		ug/kg	1.0	50	BRL	100	70-130	0.0	30
Styrene	48.09		ug/kg	5.0	50	BRL	96	70-130	1.0	30
tert-Butylbenzene	47.59		ug/kg	1.0	50	BRL	95	70-130	0.0	30
Naphthalene	47.84		ug/kg	5.0	50	BRL	96	70-130	8.7	30
Tetrahydrofuran (THF)	110.2		ug/kg	5.0	125	BRL	88	70-130	7.1	30
Methylene chloride	45.97		ug/kg	5.0	50	BRL	92	70-130	1.1	30
trans-1,2-Dichloroethene	46.61		ug/kg	5.0	50	BRL	93	70-130	0.0	30
trans-1,3-Dichloropropene	46.19		ug/kg	5.0	50	BRL	92	70-130	2.2	30
trans-1,4-dichloro-2-butene	235.8		ug/kg	5.0	250	BRL	94	70-130	3.2	30
Trichloroethene	47.56		ug/kg	5.0	50	BRL	95	70-130	0.0	30
Trichlorofluoromethane	48.61		ug/kg	5.0	50	BRL	97	70-130	9.7	30
Carbon Disulfide	44.33		ug/kg	5.0	50	BRL	89	70-130	2.3	30
Tetrachloroethene	49.37		ug/kg	5.0	50	BRL	99	70-130	1.0	30
Dibromomethane	47.11		ug/kg	5.0	50	BRL	94	70-130	2.2	30
Carbon tetrachloride	41.47		ug/kg	5.0	50	BRL	83	70-130	2.4	30
Chlorobenzene	48.00		ug/kg	5.0	50	BRL	96	70-130	1.0	30
Chloroethane	50.80		ug/kg	5.0	50	BRL	102	70-130	14.7	30
Chloroform	45.03		ug/kg	5.0	50	BRL	90	70-130	0.0	30
Chloromethane	43.86		ug/kg	5.0	50	BRL	88	70-130	1.1	30
cis-1,2-Dichloroethene	46.46		ug/kg	5.0	50	BRL	93	70-130	1.1	30
n-Butylbenzene	47.89		ug/kg	1.0	50	BRL	96	70-130	1.0	30
Dibromochloromethane	50.08		ug/kg	3.0	50	BRL	100	70-130	2.0	30
Trichlorotrifluoroethane	47.04		ug/kg	5.0	50	BRL	94	70-130	1.1	30
Dichlorodifluoromethane	52.55		ug/kg	5.0	50	BRL	105	70-130	0.9	30
Ethylbenzene	48.08		ug/kg	1.0	50	BRL	96	70-130	1.0	30
Hexachlorobutadiene	53.10		ug/kg	5.0	50	BRL	106	70-130	0.9	30
Isopropylbenzene	46.83		ug/kg	1.0	50	BRL	94	70-130	2.2	30
m&p-Xylene	97.51		ug/kg	2.0	100	BRL	98	70-130	2.1	30
Methyl Ethyl Ketone	37.37		ug/kg	5.0	50	BRL	75	70-130	1.3	30
Methyl t-butyl ether (MTBE)	49.58		ug/kg	1.0	50	BRL	99	70-130	2.0	30
cis-1,3-Dichloropropene	45.93		ug/kg	5.0	50	BRL	92	70-130	1.1	30
Surrogate: % 1,2-dichlorobenzene-d4	49.83		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	48.19		ug/kg		50		96	70-130		
Surrogate: % Bromofluorobenzene	48.61		ug/kg		50		97	70-130		
Surrogate: % Dibromofluoromethane	49.03		ug/kg		50		98	70-130		

Batch 451374A - SW8260C

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
BLK (CB68179-BLK)	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	ND		ug/l	1.0			ND	-		
m&p-Xylene	ND		ug/l	1.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/l	1.0			ND	-		
Methyl ethyl ketone	ND		ug/l	5.0			ND	-		
Hexachlorobutadiene	ND		ug/l	0.40			ND	-		
Isopropylbenzene	ND		ug/l	1.0			ND	-		
Ethylbenzene	ND		ug/l	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/l	1.0			ND	-		
Dibromomethane	ND		ug/l	1.0			ND	-		
Bromomethane	ND		ug/l	1.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/l	0.40			ND	-		
n-Butylbenzene	ND		ug/l	1.0			ND	-		
Chloromethane	ND		ug/l	1.0			ND	-		
Chloroform	ND		ug/l	1.0			ND	-		
Chloroethane	ND		ug/l	1.0			ND	-		
Chlorobenzene	ND		ug/l	1.0			ND	-		
Carbon tetrachloride	ND		ug/l	1.0			ND	-		
Carbon Disulfide	ND		ug/l	1.0			ND	-		
Dibromochloromethane	ND		ug/l	0.50			ND	-		
Tetrahydrofuran (THF)	ND		ug/l	2.5			ND	-		
Vinyl chloride	ND		ug/l	1.0			ND	-		
Trichlorotrifluoroethane	ND		ug/l	1.0			ND	-		
Trichlorofluoromethane	ND		ug/l	1.0			ND	-		
Trichloroethene	ND		ug/l	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/l	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/l	0.40			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/l	1.0			ND	-		
Toluene	ND		ug/l	1.0			ND	-		
Methylene chloride	ND		ug/l	1.0			ND	-		
Tetrachloroethene	ND		ug/l	1.0			ND	-		
tert-Butylbenzene	ND		ug/l	1.0			ND	-		
Styrene	ND		ug/l	1.0			ND	-		
sec-Butylbenzene	ND		ug/l	1.0			ND	-		
p-Isopropyltoluene	ND		ug/l	1.0			ND	-		
o-Xylene	ND		ug/l	1.0			ND	-		
Naphthalene	ND		ug/l	1.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/l	1.0			ND	-		
1,1-Dichloropropene	ND		ug/l	1.0			ND	-		
Bromoform	ND		ug/l	1.0			ND	-		
n-Propylbenzene	ND		ug/l	1.0			ND	-		
1,2-Dibromoethane	ND		ug/l	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/l	1.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/l	1.0			ND	-		
1,2-Dichloroethane	ND		ug/l	1.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/l	1.0			ND	-		
1,2-Dichloropropane	ND		ug/l	1.0			ND	-		
1,1-Dichloroethene	ND		ug/l	1.0			ND	-		
1,1-Dichloroethane	ND		ug/l	1.0			ND	-		
1,1,2-Trichloroethane	ND		ug/l	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
BLK (CB68179-BLK)					Prepared: Analyzed: 10-Oct-18					
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50			ND	-		
1,1,1-Trichloroethane	ND		ug/l	1.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0			ND	-		
1,2,3-Trichloropropane	ND		ug/l	1.0			ND	-		
2-Hexanone	ND		ug/l	5.0			ND	-		
Bromodichloromethane	ND		ug/l	0.50			ND	-		
Bromochloromethane	ND		ug/l	1.0			ND	-		
Bromobenzene	ND		ug/l	1.0			ND	-		
Benzene	ND		ug/l	0.70			ND	-		
Acrylonitrile	ND		ug/l	5.0			ND	-		
Acetone	ND		ug/l	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/l	1.0			ND	-		
4-Chlorotoluene	ND		ug/l	1.0			ND	-		
2-Chlorotoluene	ND		ug/l	1.0			ND	-		
2,2-Dichloropropane	ND		ug/l	1.0			ND	-		
1,4-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,3-Dichloropropane	ND		ug/l	1.0			ND	-		
1,3-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/l	1.0			ND	-		
4-Methyl-2-pentanone	ND		ug/l	5.0			ND	-		
Surrogate: % Bromofluorobenzene	97		ug/l		10		97	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	100		ug/l		10		100	70-130		
Surrogate: % Toluene-d8	99		ug/l		10		99	70-130		
Surrogate: % Dibromofluoromethane	102		ug/l		10		102	70-130		
LCS (CB68179-LCS)					Prepared: Analyzed: 10-Oct-18					
2-Isopropyltoluene	10.00		ug/l	1.0	10		100	70-130		30
Methyl t-butyl ether (MTBE)	10.62		ug/l	1.0	10		106	70-130		30
Methyl ethyl ketone	12.28		ug/l	5.0	10		123	70-130		30
m&p-Xylene	20.40		ug/l	1.0	20		102	70-130		30
Isopropylbenzene	9.970		ug/l	1.0	10		100	70-130		30
Hexachlorobutadiene	9.348		ug/l	0.40	10		93	70-130		30
Ethylbenzene	10.05		ug/l	1.0	10		100	70-130		30
Dichlorodifluoromethane	11.00		ug/l	1.0	10		110	70-130		30
Vinyl chloride	11.86		ug/l	1.0	10		119	70-130		30
Dibromochloromethane	10.56		ug/l	0.50	10		106	70-130		30
n-Butylbenzene	10.05		ug/l	1.0	10		101	70-130		30
cis-1,3-Dichloropropene	10.16		ug/l	0.40	10		102	70-130		30
cis-1,2-Dichloroethene	10.45		ug/l	1.0	10		104	70-130		30
Chloromethane	11.29		ug/l	1.0	10		113	70-130		30
Chloroform	10.17		ug/l	1.0	10		102	70-130		30
Chloroethane	11.09		ug/l	1.0	10		111	70-130		30
Chlorobenzene	9.965		ug/l	1.0	10		100	70-130		30
Carbon tetrachloride	9.417		ug/l	1.0	10		94	70-130		30
Dibromomethane	10.33		ug/l	1.0	10		103	70-130		30
Tetrahydrofuran (THF)	27.44		ug/l	2.5	25		110	70-130		30
Carbon Disulfide	9.593		ug/l	1.0	10		96	70-130		30
1,2-Dichloropropane	10.15		ug/l	1.0	10		101	70-130		30
Trichlorotrifluoroethane	9.270		ug/l	1.0	10		93	70-130		30
Trichlorofluoromethane	10.36		ug/l	1.0	10		104	70-130		30
Trichloroethene	9.753		ug/l	1.0	10		98	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
LCS (CB68179-LCS)	Prepared: Analyzed: 10-Oct-18									
trans-1,4-dichloro-2-butene	52.68		ug/l	5.0	50		105	70-130		30
trans-1,3-Dichloropropene	9.808		ug/l	0.40	10		98	70-130		30
Methylene chloride	10.20		ug/l	1.0	10		102	70-130		30
Toluene	10.02		ug/l	1.0	10		100	70-130		30
Naphthalene	9.625		ug/l	1.0	10		96	70-130		30
Tetrachloroethene	9.527		ug/l	1.0	10		95	70-130		30
tert-Butylbenzene	9.697		ug/l	1.0	10		97	70-130		30
Styrene	10.35		ug/l	1.0	10		103	70-130		30
sec-Butylbenzene	10.31		ug/l	1.0	10		103	70-130		30
p-Isopropyltoluene	9.811		ug/l	1.0	10		98	70-130		30
o-Xylene	10.20		ug/l	1.0	10		102	70-130		30
n-Propylbenzene	9.985		ug/l	1.0	10		100	70-130		30
trans-1,2-Dichloroethene	10.28		ug/l	1.0	10		103	70-130		30
1,1-Dichloroethene	9.726		ug/l	1.0	10		97	70-130		30
1,2-Dichlorobenzene	9.822		ug/l	1.0	10		98	70-130		30
1,2-Dibromoethane	10.22		ug/l	1.0	10		102	70-130		30
1,2-Dibromo-3-chloropropane	10.01		ug/l	1.0	10		100	70-130		30
1,2,4-Trimethylbenzene	9.877		ug/l	1.0	10		99	70-130		30
1,2,4-Trichlorobenzene	9.500		ug/l	1.0	10		95	70-130		30
1,2-Dichloroethane	9.924		ug/l	1.0	10		99	70-130		30
1,2,3-Trichlorobenzene	9.444		ug/l	1.0	10		94	70-130		30
1,1-Dichloropropene	9.762		ug/l	1.0	10		98	70-130		30
1,1,2-Trichloroethane	10.38		ug/l	1.0	10		104	70-130		30
1,1,2,2-Tetrachloroethane	10.72		ug/l	0.50	10		107	70-130		30
1,1,1-Trichloroethane	9.463		ug/l	1.0	10		95	70-130		30
1,1,1,2-Tetrachloroethane	10.02		ug/l	1.0	10		100	70-130		30
Bromomethane	12.48		ug/l	1.0	10		125	70-130		30
1,3-Dichlorobenzene	9.898		ug/l	1.0	10		99	70-130		30
1,2,3-Trichloropropane	10.04		ug/l	1.0	10		100	70-130		30
4-Chlorotoluene	9.846		ug/l	1.0	10		98	70-130		30
Bromochloromethane	10.41		ug/l	1.0	10		104	70-130		30
Bromobenzene	9.875		ug/l	1.0	10		99	70-130		30
Benzene	10.09		ug/l	0.70	10		101	70-130		30
Acrylonitrile	10.37		ug/l	5.0	10		104	70-130		30
Acetone	10.68		ug/l	5.0	10		107	70-130		30
1,3,5-Trimethylbenzene	9.790		ug/l	1.0	10		98	70-130		30
4-Methyl-2-pentanone	10.95		ug/l	5.0	10		110	70-130		30
Bromodichloromethane	10.26		ug/l	0.50	10		103	70-130		30
2-Hexanone	10.91		ug/l	5.0	10		109	70-130		30
2-Chlorotoluene	9.961		ug/l	1.0	10		100	70-130		30
2,2-Dichloropropane	9.777		ug/l	1.0	10		98	70-130		30
1,4-Dichlorobenzene	9.922		ug/l	1.0	10		99	70-130		30
1,3-Dichloropropane	9.875		ug/l	1.0	10		99	70-130		30
Bromoform	10.44		ug/l	1.0	10		104	70-130		30
1,1-Dichloroethane	10.42		ug/l	1.0	10		104	70-130		30
Surrogate: % Dibromofluoromethane	9.819		ug/l		10		98	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	10.12		ug/l		10		101	70-130		
Surrogate: % Toluene-d8	10.02		ug/l		10		100	70-130		
Surrogate: % Bromofluorobenzene	9.989		ug/l		10		100	70-130		
LCSD (CB68179-LCSD)	Prepared: Analyzed: 10-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
LCSD (CB68179-LCSD)					Prepared: Analyzed: 10-Oct-18					
2-Isopropyltoluene	9.758		ug/l	1.0	10		98	70-130	2.0	30
cis-1,3-Dichloropropene	10.40		ug/l	0.40	10		104	70-130	1.9	30
Methyl t-butyl ether (MTBE)	11.08		ug/l	1.0	10		111	70-130	4.6	30
Methyl ethyl ketone	11.79		ug/l	5.0	10		118	70-130	4.1	30
m&p-Xylene	20.00		ug/l	1.0	20		100	70-130	2.0	30
Isopropylbenzene	9.786		ug/l	1.0	10		98	70-130	2.0	30
Hexachlorobutadiene	9.632		ug/l	0.40	10		96	70-130	3.2	30
Ethylbenzene	10.02		ug/l	1.0	10		100	70-130	0.0	30
Dichlorodifluoromethane	11.11		ug/l	1.0	10		111	70-130	0.9	30
Dibromochloromethane	10.69		ug/l	0.50	10		107	70-130	0.9	30
cis-1,2-Dichloroethene	10.68		ug/l	1.0	10		107	70-130	2.8	30
Chloromethane	11.40		ug/l	1.0	10		114	70-130	0.9	30
Chlorobenzene	10.12		ug/l	1.0	10		101	70-130	1.0	30
Chloroform	10.48		ug/l	1.0	10		105	70-130	2.9	30
Carbon tetrachloride	9.584		ug/l	1.0	10		96	70-130	2.1	30
Chloroethane	11.43		ug/l	1.0	10		114	70-130	2.7	30
Trichlorotrifluoroethane	9.160		ug/l	1.0	10		92	70-130	1.1	30
Methylene chloride	10.56		ug/l	1.0	10		106	70-130	3.8	30
Dibromomethane	10.34		ug/l	1.0	10		103	70-130	0.0	30
Tetrachloroethene	9.653		ug/l	1.0	10		97	70-130	2.1	30
Carbon Disulfide	9.879		ug/l	1.0	10		99	70-130	3.1	30
1,1,1,2-Tetrachloroethane	10.16		ug/l	1.0	10		102	70-130	2.0	30
Trichlorofluoromethane	10.51		ug/l	1.0	10		105	70-130	1.0	30
trans-1,4-dichloro-2-butene	53.37		ug/l	5.0	50		107	70-130	1.9	30
trans-1,3-Dichloropropene	9.939		ug/l	0.40	10		99	70-130	1.0	30
Vinyl chloride	11.86		ug/l	1.0	10		119	70-130	0.0	30
trans-1,2-Dichloroethene	10.48		ug/l	1.0	10		105	70-130	1.9	30
Trichloroethene	10.22		ug/l	1.0	10		102	70-130	4.0	30
Tetrahydrofuran (THF)	28.06		ug/l	2.5	25		112	70-130	1.8	30
Naphthalene	10.45		ug/l	1.0	10		105	70-130	9.0	30
tert-Butylbenzene	9.661		ug/l	1.0	10		97	70-130	0.0	30
Styrene	10.48		ug/l	1.0	10		105	70-130	1.9	30
sec-Butylbenzene	10.14		ug/l	1.0	10		101	70-130	2.0	30
p-Isopropyltoluene	9.649		ug/l	1.0	10		96	70-130	2.1	30
o-Xylene	10.23		ug/l	1.0	10		102	70-130	0.0	30
n-Propylbenzene	9.728		ug/l	1.0	10		97	70-130	3.0	30
n-Butylbenzene	9.821		ug/l	1.0	10		98	70-130	3.0	30
Toluene	10.10		ug/l	1.0	10		101	70-130	1.0	30
1,2,3-Trichloropropane	10.20		ug/l	1.0	10		102	70-130	2.0	30
1,2-Dichloropropane	10.79		ug/l	1.0	10		108	70-130	6.7	30
1,2-Dichloroethane	9.773		ug/l	1.0	10		98	70-130	1.0	30
1,2-Dichlorobenzene	9.814		ug/l	1.0	10		98	70-130	0.0	30
1,2-Dibromoethane	10.50		ug/l	1.0	10		105	70-130	2.9	30
1,2-Dibromo-3-chloropropane	9.793		ug/l	1.0	10		98	70-130	2.0	30
1,3,5-Trimethylbenzene	9.631		ug/l	1.0	10		96	70-130	2.1	30
1,2,4-Trichlorobenzene	10.01		ug/l	1.0	10		100	70-130	5.1	30
1,1-Dichloropropene	9.950		ug/l	1.0	10		99	70-130	1.0	30
1,2,3-Trichlorobenzene	9.927		ug/l	1.0	10		99	70-130	5.2	30
1,1-Dichloroethene	10.19		ug/l	1.0	10		102	70-130	5.0	30
1,1,2-Trichloroethane	10.69		ug/l	1.0	10		107	70-130	2.8	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
LCSD (CB68179-LCSD)					Prepared: Analyzed: 10-Oct-18					
1,1,1-Trichloroethane	9.666		ug/l	1.0	10		97	70-130	2.1	30
1,1,2,2-Tetrachloroethane	10.79		ug/l	0.50	10		108	70-130	0.9	30
Bromomethane	13.28	l	ug/l	1.0	10		133	70-130	6.2	30
1,2,4-Trimethylbenzene	9.726		ug/l	1.0	10		97	70-130	2.0	30
Bromobenzene	9.755		ug/l	1.0	10		98	70-130	1.0	30
Bromodichloromethane	10.40		ug/l	0.50	10		104	70-130	1.0	30
Bromoform	10.81		ug/l	1.0	10		108	70-130	3.8	30
1,1-Dichloroethane	10.60		ug/l	1.0	10		106	70-130	1.9	30
1,3-Dichlorobenzene	9.834		ug/l	1.0	10		98	70-130	1.0	30
Bromochloromethane	11.03		ug/l	1.0	10		110	70-130	5.6	30
Benzene	10.39		ug/l	0.70	10		104	70-130	2.9	30
Acrylonitrile	11.09		ug/l	5.0	10		111	70-130	6.5	30
2-Chlorotoluene	9.852		ug/l	1.0	10		99	70-130	1.0	30
4-Methyl-2-pentanone	11.37		ug/l	5.0	10		114	70-130	3.6	30
1,3-Dichloropropane	9.933		ug/l	1.0	10		99	70-130	0.0	30
4-Chlorotoluene	9.845		ug/l	1.0	10		98	70-130	0.0	30
1,4-Dichlorobenzene	9.822		ug/l	1.0	10		98	70-130	1.0	30
2-Hexanone	10.41		ug/l	5.0	10		104	70-130	4.7	30
2,2-Dichloropropane	10.11		ug/l	1.0	10		101	70-130	3.0	30
Acetone	11.46		ug/l	5.0	10		115	70-130	7.2	30
Surrogate: % Dibromofluoromethane	9.832		ug/l		10		98	70-130		
Surrogate: % Toluene-d8	10.06		ug/l		10		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	9.989		ug/l		10		100	70-130		
Surrogate: % Bromofluorobenzene	9.938		ug/l		10		99	70-130		
MS (CB68179-MS)					Source: SC50907-03 Prepared: Analyzed: 10-Oct-18					
2-Isopropyltoluene	10.13		ug/l	1.0	10		101	70-130		30
m&p-Xylene	20.84		ug/l	1.0	20	BRL	104	70-130		30
Isopropylbenzene	10.32		ug/l	1.0	10	BRL	103	70-130		30
Hexachlorobutadiene	9.674		ug/l	0.40	10	BRL	97	70-130		30
Methyl ethyl ketone	12.61		ug/l	5.0	10	BRL	126	70-130		30
Ethylbenzene	10.26		ug/l	1.0	10	BRL	103	70-130		30
Dichlorodifluoromethane	12.65		ug/l	1.0	10	BRL	127	70-130		30
Dibromomethane	10.25		ug/l	1.0	10	BRL	103	70-130		30
Dibromochloromethane	10.64		ug/l	0.50	10	BRL	106	70-130		30
cis-1,3-Dichloropropene	10.17		ug/l	0.40	10	BRL	102	70-130		30
cis-1,2-Dichloroethene	11.06		ug/l	1.0	10	BRL	111	70-130		30
Chloromethane	12.38		ug/l	1.0	10	BRL	124	70-130		30
Chloroform	11.01		ug/l	1.0	10	BRL	110	70-130		30
Chloroethane	12.28		ug/l	1.0	10	BRL	123	70-130		30
Carbon tetrachloride	11.33		ug/l	1.0	10	BRL	113	70-130		30
Methyl t-butyl ether (MTBE)	11.38		ug/l	1.0	10	BRL	114	70-130		30
Trichlorotrifluoroethane	10.79		ug/l	1.0	10	BRL	108	70-130		30
Chlorobenzene	10.22		ug/l	1.0	10	BRL	102	70-130		30
Tetrachloroethene	10.66		ug/l	1.0	10	BRL	107	70-130		30
Vinyl chloride	13.08	m	ug/l	1.0	10	BRL	131	70-130		30
1,3-Dichloropropane	10.06		ug/l	1.0	10	BRL	101	70-130		30
Trichlorofluoromethane	12.62		ug/l	1.0	10	BRL	126	70-130		30
Carbon Disulfide	10.70		ug/l	1.0	10	BRL	107	70-130		30
trans-1,4-dichloro-2-butene	49.78		ug/l	5.0	50	BRL	100	70-130		30
trans-1,3-Dichloropropene	9.708		ug/l	0.40	10	BRL	97	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
MS (CB68179-MS)				Source: SC50907-03		Prepared:	Analyzed: 10-Oct-18			
trans-1,2-Dichloroethene	11.25		ug/l	1.0	10	BRL	112	70-130		30
Trichloroethene	10.64		ug/l	1.0	10	BRL	106	70-130		30
Tetrahydrofuran (THF)	28.67		ug/l	2.5	25	BRL	115	70-130		30
Methylene chloride	10.69		ug/l	1.0	10	BRL	107	70-130		30
tert-Butylbenzene	10.07		ug/l	1.0	10	BRL	101	70-130		30
Styrene	10.35		ug/l	1.0	10	BRL	103	70-130		30
sec-Butylbenzene	10.83		ug/l	1.0	10	BRL	108	70-130		30
p-Isopropyltoluene	10.03		ug/l	1.0	10	BRL	100	70-130		30
o-Xylene	10.54		ug/l	1.0	10	BRL	105	70-130		30
n-Propylbenzene	10.27		ug/l	1.0	10	BRL	103	70-130		30
n-Butylbenzene	10.26		ug/l	1.0	10	BRL	103	70-130		30
Naphthalene	8.709		ug/l	1.0	10	BRL	87	70-130		30
Toluene	10.75		ug/l	1.0	10	BRL	108	70-130		30
1,1-Dichloropropene	11.20		ug/l	1.0	10	BRL	112	70-130		30
1,2-Dichlorobenzene	9.853		ug/l	1.0	10	BRL	99	70-130		30
1,2-Dibromoethane	10.24		ug/l	1.0	10	BRL	102	70-130		30
1,2-Dibromo-3-chloropropane	9.814		ug/l	1.0	10	BRL	98	70-130		30
1,2,4-Trimethylbenzene	9.957		ug/l	1.0	10	BRL	100	70-130		30
Bromomethane	10.52		ug/l	1.0	10	BRL	105	70-130		30
1,2-Dichloroethane	10.17		ug/l	1.0	10	BRL	102	70-130		30
2,2-Dichloropropane	9.886		ug/l	1.0	10	BRL	99	70-130		30
1,2,4-Trichlorobenzene	9.029		ug/l	1.0	10	BRL	90	70-130		30
1,1-Dichloroethene	11.06		ug/l	1.0	10	BRL	111	70-130		30
1,1-Dichloroethane	11.55		ug/l	1.0	10		112	70-130		30
1,1,2-Trichloroethane	10.32		ug/l	1.0	10	BRL	103	70-130		30
1,1,2,2-Tetrachloroethane	10.66		ug/l	0.50	10	BRL	107	70-130		30
1,1,1-Trichloroethane	11.08		ug/l	1.0	10	BRL	111	70-130		30
1,1,1,2-Tetrachloroethane	10.21		ug/l	1.0	10	BRL	102	70-130		30
1,2,3-Trichloropropane	9.925		ug/l	1.0	10	BRL	99	70-130		30
Bromodichloromethane	10.57		ug/l	0.50	10	BRL	106	70-130		30
1,2,3-Trichlorobenzene	8.492		ug/l	1.0	10	BRL	85	70-130		30
Bromoform	10.26		ug/l	1.0	10	BRL	103	70-130		30
1,2-Dichloropropane	10.66		ug/l	1.0	10	BRL	107	70-130		30
Bromochloromethane	10.86		ug/l	1.0	10	BRL	109	70-130		30
Bromobenzene	9.906		ug/l	1.0	10	BRL	99	70-130		30
Benzene	10.74		ug/l	0.70	10	BRL	107	70-130		30
Acrylonitrile	11.01		ug/l	5.0	10	BRL	110	70-130		30
4-Methyl-2-pentanone	11.25		ug/l	5.0	10	BRL	112	70-130		30
4-Chlorotoluene	9.845		ug/l	1.0	10	BRL	98	70-130		30
2-Hexanone	10.84		ug/l	5.0	10	BRL	108	70-130		30
2-Chlorotoluene	10.02		ug/l	1.0	10	BRL	100	70-130		30
1,4-Dichlorobenzene	10.03		ug/l	1.0	10	BRL	100	70-130		30
1,3-Dichlorobenzene	9.939		ug/l	1.0	10	BRL	99	70-130		30
1,3,5-Trimethylbenzene	9.972		ug/l	1.0	10	BRL	100	70-130		30
Acetone	13.50		ug/l	5.0	10		107	70-130		30
Surrogate: % Bromofluorobenzene	9.910		ug/l		10		99	70-130		
Surrogate: % Toluene-d8	10.01		ug/l		10		100	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	10.24		ug/l		10		102	70-130		
Surrogate: % Dibromofluoromethane	10.07		ug/l		10		101	70-130		
MSD (CB68179-MSD)				Source: SC50907-03		Prepared:	Analyzed: 10-Oct-18			

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
MSD (CB68179-MSD)				Source: SC50907-03		Prepared:	Analyzed: 10-Oct-18			
2-Isopropyltoluene	10.12		ug/l	1.0	10		101	70-130	0.0	30
1,1,1,2-Tetrachloroethane	10.32		ug/l	1.0	10	BRL	103	70-130	1.0	30
1,1,1-Trichloroethane	11.07		ug/l	1.0	10	BRL	111	70-130	0.0	30
1,1,2,2-Tetrachloroethane	10.77		ug/l	0.50	10	BRL	108	70-130	0.9	30
1,1,2-Trichloroethane	10.87		ug/l	1.0	10	BRL	109	70-130	5.7	30
1,1-Dichloroethane	11.34		ug/l	1.0	10		110	70-130	1.8	30
Benzene	10.68		ug/l	0.70	10	BRL	107	70-130	0.0	30
2-Hexanone	10.81		ug/l	5.0	10	BRL	108	70-130	0.0	30
4-Chlorotoluene	9.786		ug/l	1.0	10	BRL	98	70-130	0.0	30
4-Methyl-2-pentanone	11.37		ug/l	5.0	10	BRL	114	70-130	1.8	30
1,1-Dichloropropene	11.12		ug/l	1.0	10	BRL	111	70-130	0.9	30
Acrylonitrile	11.18		ug/l	5.0	10	BRL	112	70-130	1.8	30
sec-Butylbenzene	10.94		ug/l	1.0	10	BRL	109	70-130	0.9	30
Bromobenzene	9.785		ug/l	1.0	10	BRL	98	70-130	1.0	30
Bromochloromethane	11.31		ug/l	1.0	10	BRL	113	70-130	3.6	30
Bromodichloromethane	10.52		ug/l	0.50	10	BRL	105	70-130	0.9	30
Bromoform	10.55		ug/l	1.0	10	BRL	106	70-130	2.9	30
Bromomethane	11.55		ug/l	1.0	10	BRL	115	70-130	9.1	30
Carbon Disulfide	10.97		ug/l	1.0	10	BRL	110	70-130	2.8	30
Carbon tetrachloride	11.31		ug/l	1.0	10	BRL	113	70-130	0.0	30
Acetone	13.10		ug/l	5.0	10		103	70-130	3.8	30
1,2-Dichlorobenzene	9.888		ug/l	1.0	10	BRL	99	70-130	0.0	30
Chlorobenzene	10.10		ug/l	1.0	10	BRL	101	70-130	1.0	30
1,2,3-Trichlorobenzene	10.38		ug/l	1.0	10	BRL	104	70-130	20.1	30
1,2,3-Trichloropropane	10.14		ug/l	1.0	10	BRL	101	70-130	2.0	30
1,2,4-Trichlorobenzene	10.17		ug/l	1.0	10	BRL	102	70-130	12.5	30
1,2,4-Trimethylbenzene	9.980		ug/l	1.0	10	BRL	100	70-130	0.0	30
2-Chlorotoluene	9.769		ug/l	1.0	10	BRL	98	70-130	2.0	30
1,2-Dibromoethane	10.19		ug/l	1.0	10	BRL	102	70-130	0.0	30
2,2-Dichloropropane	9.754		ug/l	1.0	10	BRL	98	70-130	1.0	30
1,2-Dichloroethane	10.36		ug/l	1.0	10	BRL	104	70-130	1.9	30
1,2-Dichloropropane	10.54		ug/l	1.0	10	BRL	105	70-130	1.9	30
1,3,5-Trimethylbenzene	9.991		ug/l	1.0	10	BRL	100	70-130	0.0	30
1,3-Dichlorobenzene	10.01		ug/l	1.0	10	BRL	100	70-130	1.0	30
1,3-Dichloropropane	10.10		ug/l	1.0	10	BRL	101	70-130	0.0	30
1,4-Dichlorobenzene	9.986		ug/l	1.0	10	BRL	100	70-130	0.0	30
1,2-Dibromo-3-chloropropane	10.62		ug/l	1.0	10	BRL	106	70-130	7.8	30
trans-1,3-Dichloropropene	9.860		ug/l	0.40	10	BRL	99	70-130	2.0	30
p-Isopropyltoluene	10.14		ug/l	1.0	10	BRL	101	70-130	1.0	30
Styrene	10.44		ug/l	1.0	10	BRL	104	70-130	1.0	30
tert-Butylbenzene	10.09		ug/l	1.0	10	BRL	101	70-130	0.0	30
Tetrachloroethene	10.26		ug/l	1.0	10	BRL	103	70-130	3.8	30
Tetrahydrofuran (THF)	28.65		ug/l	2.5	25	BRL	115	70-130	0.0	30
o-Xylene	10.40		ug/l	1.0	10	BRL	104	70-130	1.0	30
trans-1,2-Dichloroethene	11.51		ug/l	1.0	10	BRL	115	70-130	2.6	30
Naphthalene	10.96		ug/l	1.0	10	BRL	110	70-130	23.4	30
trans-1,4-dichloro-2-butene	51.54		ug/l	5.0	50	BRL	103	70-130	3.0	30
Trichloroethene	10.56		ug/l	1.0	10	BRL	106	70-130	0.0	30
Trichlorofluoromethane	12.38		ug/l	1.0	10	BRL	124	70-130	1.6	30
Trichlorotrifluoroethane	10.92		ug/l	1.0	10	BRL	109	70-130	0.9	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8260C</u>										
Batch 451374A - SW8260C										
<u>MSD (CB68179-MSD)</u>	<u>Source: SC50907-03</u>				<u>Prepared: Analyzed: 10-Oct-18</u>					
Vinyl chloride	13.60	m	ug/l	1.0	10	BRL	136	70-130	3.7	30
1,1-Dichloroethene	11.58		ug/l	1.0	10	BRL	116	70-130	4.4	30
Toluene	10.65		ug/l	1.0	10	BRL	107	70-130	0.9	30
Hexachlorobutadiene	9.824		ug/l	0.40	10	BRL	98	70-130	1.0	30
Chloroform	10.88		ug/l	1.0	10	BRL	109	70-130	0.9	30
Chloromethane	12.55		ug/l	1.0	10	BRL	125	70-130	0.8	30
cis-1,2-Dichloroethene	11.13		ug/l	1.0	10	BRL	111	70-130	0.0	30
cis-1,3-Dichloropropene	10.08		ug/l	0.40	10	BRL	101	70-130	1.0	30
Dibromochloromethane	10.62		ug/l	0.50	10	BRL	106	70-130	0.0	30
Dibromomethane	10.41		ug/l	1.0	10	BRL	104	70-130	1.0	30
n-Propylbenzene	10.27		ug/l	1.0	10	BRL	103	70-130	0.0	30
Ethylbenzene	10.25		ug/l	1.0	10	BRL	103	70-130	0.0	30
n-Butylbenzene	10.37		ug/l	1.0	10	BRL	104	70-130	1.0	30
Isopropylbenzene	10.23		ug/l	1.0	10	BRL	102	70-130	1.0	30
m&p-Xylene	20.88		ug/l	1.0	20	BRL	104	70-130	0.0	30
Methyl ethyl ketone	12.88		ug/l	5.0	10	BRL	129	70-130	2.4	30
Methyl t-butyl ether (MTBE)	11.44		ug/l	1.0	10	BRL	114	70-130	0.0	30
Methylene chloride	10.61		ug/l	1.0	10	BRL	106	70-130	0.9	30
Chloroethane	12.37		ug/l	1.0	10	BRL	124	70-130	0.8	30
Dichlorodifluoromethane	12.60		ug/l	1.0	10	BRL	126	70-130	0.8	30
Surrogate: % 1,2-dichlorobenzene-d4	10.24		ug/l		10		102	70-130		
Surrogate: % Bromofluorobenzene	10.16		ug/l		10		102	70-130		
Surrogate: % Dibromofluoromethane	10.36		ug/l		10		104	70-130		
Surrogate: % Toluene-d8	10.13		ug/l		10		101	70-130		

Notes and Definitions

D	Data reported from a dilution
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J.	Estimated Below RL
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
m	This parameter is outside laboratory ms/msd specified recovery limits.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R01	The Reporting Limit has been raised to account for matrix interference.
S	Laboratory solvent, contamination is possible.
SAC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 2

SC50907

Ben

Special Handling:

☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: <u>Nelson Abrams</u>		Invoice To: <u>Same</u>		Project No: <u>60558675</u>	
<u>125 Broad Street</u>		<u>Brooklyn, NY</u>		Site Name: <u>South Brooklyn Marine Terminal (SBMT)</u>	
<u>AcCom Corporation</u>		<u>347-803-8722</u>		Location: <u>Brooklyn, NY</u>	
Telephone #: <u>Nelson Abrams</u>		P.O. No: <u>60558675</u>		Sampler(s): <u>John Cresso</u>	
Project Mgr: <u>Nelson Abrams</u>		Quote #: <u>44902</u>		State: <u>NY</u>	
F=Field Filtered 1=Na ₂ SO ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid 7=CH ₃ OH 8=NaHSO ₄ 9=Deionized Water 10=H ₂ PO ₄ 11= _____ 12= _____					
DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water					
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas					
X1= _____ X2= _____ X3= _____					
G=Grab C=Composite					
Lab ID:	Sample ID:	Date:	Time:	Type	Matrix
SC50907d1	B-10 (0-2)	10/5/18	9:26	C	SO
	B-10 (4-6)		9:45	C	SO
	CW-4		10:45	C	GW
	GW-4 MS		10:50	C	GW
	EW-4 MS		10:55	C	GW
	B-8 (0-2)		11:30	C	SO
	B-8 (4-6)		11:40	C	SO
	FB20181005		9:55	C	GW
	B-13 (0-2)		13:20	C	SO
	B-13 (2 1/2-4 1/2)		13:40	C	SO
Relinquished by: <u>John Cresso</u> Received by: <u>Federx</u> Date: <u>10-06-18</u> Time: <u>10:30</u>					
Temp °C: <u>0.7</u> Observed: <u>0.7</u> EDD format: _____					
Condition upon receipt: Custody Seals: ☒ Present ☒ Intact ☐ Broken					
☐ Ambient ☒ Ice ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen					



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- ☐ All TATs subject to laboratory approval
- ☐ Min. 24-hr notification needed for rushes
- ☐ Samples disposed after 30 days unless otherwise instructed.

Report To: Nelson Adams

125 Broad St.
N.Y.C. NY
Adams Corporation
347-803-8722

Telephone #: Nelson Adams
Project Mgr: Nelson Adams

Invoice To: State

P.O. No.: 60558675

Quote #: 44902

Project No: 60558675

Site Name: Sonnenbrynn Marine Terminal (SBRM)

Location: Brooklyn, NY State: NY
Sampler(s): Juan Castro

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= X2= X3=

G=Grab C=Composite

Lab ID: Sample ID: Date: Time: Type Matrix

SL50907-09 6W-7 10/15/18 14:20 6 6W 3 2 4

10 TB-W 14:20

11 TB-S

Containers

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

List Preservative Code below:

Analysis

Check if chlorinated

QA/QC Reporting Notes:
*additional changes may apply

- MA DEP MCP CAM Report? ☐ Yes ☐ No
- CT DPH RCP Report? ☐ Yes ☐ No
- Standard ☐ No QC
- DQA* ☐ No
- ASP A* ☐ ASP B* ☐ ASP C* ☐ ASP D* ☐ ASP E* ☐ ASP F* ☐ ASP G* ☐ ASP H* ☐ ASP I* ☐ ASP J* ☐ ASP K* ☐ ASP L* ☐ ASP M* ☐ ASP N* ☐ ASP O* ☐ ASP P* ☐ ASP Q* ☐ ASP R* ☐ ASP S* ☐ ASP T* ☐ ASP U* ☐ ASP V* ☐ ASP W* ☐ ASP X* ☐ ASP Y* ☐ ASP Z* ☐ ASP AA* ☐ ASP AB* ☐ ASP AC* ☐ ASP AD* ☐ ASP AE* ☐ ASP AF* ☐ ASP AG* ☐ ASP AH* ☐ ASP AI* ☐ ASP AJ* ☐ ASP AK* ☐ ASP AL* ☐ ASP AM* ☐ ASP AN* ☐ ASP AO* ☐ ASP AP* ☐ ASP AQ* ☐ ASP AR* ☐ ASP AS* ☐ ASP AT* ☐ ASP AU* ☐ ASP AV* ☐ ASP AW* ☐ ASP AX* ☐ ASP AY* ☐ ASP AZ* ☐ ASP BA* ☐ ASP BB* ☐ ASP BC* ☐ ASP BD* ☐ ASP BE* ☐ ASP BF* ☐ ASP BG* ☐ ASP BH* ☐ ASP BI* ☐ ASP BJ* ☐ ASP BK* ☐ ASP BL* ☐ ASP BM* ☐ ASP BN* ☐ ASP BO* ☐ ASP BP* ☐ ASP BQ* ☐ ASP BR* ☐ ASP BS* ☐ ASP BT* ☐ ASP BU* ☐ ASP BV* ☐ ASP BW* ☐ ASP BX* ☐ ASP BY* ☐ ASP BZ* ☐ ASP CA* ☐ ASP CB* ☐ ASP CC* ☐ ASP CD* ☐ ASP CE* ☐ ASP CF* ☐ ASP CG* ☐ ASP CH* ☐ ASP CI* ☐ ASP CJ* ☐ ASP CK* ☐ ASP CL* ☐ ASP CM* ☐ ASP CN* ☐ ASP CO* ☐ ASP CP* ☐ ASP CQ* ☐ ASP CR* ☐ ASP CS* ☐ ASP CT* ☐ ASP CU* ☐ ASP CV* ☐ ASP CW* ☐ ASP CX* ☐ ASP CY* ☐ ASP CZ* ☐ ASP DA* ☐ ASP DB* ☐ ASP DC* ☐ ASP DD* ☐ ASP DE* ☐ ASP DF* ☐ ASP DG* ☐ ASP DH* ☐ ASP DI* ☐ ASP DJ* ☐ ASP DK* ☐ ASP DL* ☐ ASP DM* ☐ ASP DN* ☐ ASP DO* ☐ ASP DP* ☐ ASP DQ* ☐ ASP DR* ☐ ASP DS* ☐ ASP DT* ☐ ASP DU* ☐ ASP DV* ☐ ASP DW* ☐ ASP DX* ☐ ASP DY* ☐ ASP DZ* ☐ ASP EA* ☐ ASP EB* ☐ ASP EC* ☐ ASP ED* ☐ ASP EE* ☐ ASP EF* ☐ ASP EG* ☐ ASP EH* ☐ ASP EI* ☐ ASP EJ* ☐ ASP EK* ☐ ASP EL* ☐ ASP EM* ☐ ASP EN* ☐ ASP EO* ☐ ASP EP* ☐ ASP EQ* ☐ ASP ER* ☐ ASP ES* ☐ ASP ET* ☐ ASP EU* ☐ ASP EV* ☐ ASP EW* ☐ ASP EX* ☐ ASP EY* ☐ ASP EZ* ☐ ASP FA* ☐ ASP FB* ☐ ASP FC* ☐ ASP FD* ☐ ASP FE* ☐ ASP FF* ☐ ASP FG* ☐ ASP FH* ☐ ASP FI* ☐ ASP FJ* ☐ ASP FK* ☐ ASP FL* ☐ ASP FM* ☐ ASP FN* ☐ ASP FO* ☐ ASP FP* ☐ ASP FQ* ☐ ASP FR* ☐ ASP FS* ☐ ASP FT* ☐ ASP FU* ☐ ASP FV* ☐ ASP FW* ☐ ASP FX* ☐ ASP FY* ☐ ASP FZ* ☐ ASP GA* ☐ ASP GB* ☐ ASP GC* ☐ ASP GD* ☐ ASP GE* ☐ ASP GF* ☐ ASP GH* ☐ ASP GI* ☐ ASP GJ* ☐ ASP GK* ☐ ASP GL* ☐ ASP GM* ☐ ASP GN* ☐ ASP GO* ☐ ASP GP* ☐ ASP GQ* ☐ ASP GR* ☐ ASP GS* ☐ ASP GT* ☐ ASP GU* ☐ ASP GV* ☐ ASP GW* ☐ ASP GX* ☐ ASP GY* ☐ ASP GZ* ☐ ASP HA* ☐ ASP HB* ☐ ASP HC* ☐ ASP HD* ☐ ASP HE* ☐ ASP HF* ☐ ASP HG* ☐ ASP HH* ☐ ASP HI* ☐ ASP HJ* ☐ ASP HK* ☐ ASP HL* ☐ ASP HM* ☐ ASP HN* ☐ ASP HO* ☐ ASP HP* ☐ ASP HQ* ☐ ASP HR* ☐ ASP HS* ☐ ASP HT* ☐ ASP HU* ☐ ASP HV* ☐ ASP HW* ☐ ASP HX* ☐ ASP HY* ☐ ASP HZ* ☐ ASP IA* ☐ ASP IB* ☐ ASP IC* ☐ ASP ID* ☐ ASP IE* ☐ ASP IF* ☐ ASP IG* ☐ ASP IH* ☐ ASP II* ☐ ASP IJ* ☐ ASP IK* ☐ ASP IL* ☐ ASP IM* ☐ ASP IN* ☐ ASP IO* ☐ ASP IP* ☐ ASP IQ* ☐ ASP IR* ☐ ASP IS* ☐ ASP IT* ☐ ASP IU* ☐ ASP IV* ☐ ASP IW* ☐ ASP IX* ☐ ASP IY* ☐ ASP IZ* ☐ ASP JA* ☐ ASP JB* ☐ ASP JC* ☐ ASP JD* ☐ ASP JE* ☐ ASP JF* ☐ ASP JG* ☐ ASP JH* ☐ ASP JI* ☐ ASP JJ* ☐ ASP JK* ☐ ASP JL* ☐ ASP JM* ☐ ASP JN* ☐ ASP JO* ☐ ASP JP* ☐ ASP JQ* ☐ ASP JR* ☐ ASP JS* ☐ ASP JT* ☐ ASP JU* ☐ ASP JV* ☐ ASP JW* ☐ ASP JX* ☐ ASP JY* ☐ ASP JZ* ☐ ASP KA* ☐ ASP KB* ☐ ASP KC* ☐ ASP KD* ☐ ASP KE* ☐ ASP KF* ☐ ASP KG* ☐ ASP KH* ☐ ASP KI* ☐ ASP KJ* ☐ ASP KK* ☐ ASP KL* ☐ ASP KM* ☐ ASP KN* ☐ ASP KO* ☐ ASP KP* ☐ ASP KQ* ☐ ASP KR* ☐ ASP KS* ☐ ASP KT* ☐ ASP KU* ☐ ASP KV* ☐ ASP KW* ☐ ASP KX* ☐ ASP KY* ☐ ASP KZ* ☐ ASP LA* ☐ ASP LB* ☐ ASP LC* ☐ ASP LD* ☐ ASP LE* ☐ ASP LF* ☐ ASP LG* ☐ ASP LH* ☐ ASP LI* ☐ ASP LJ* ☐ ASP LK* ☐ ASP LL* ☐ ASP LM* ☐ ASP LN* ☐ ASP LO* ☐ ASP LP* ☐ ASP LQ* ☐ ASP LR* ☐ ASP LS* ☐ ASP LT* ☐ ASP LU* ☐ ASP LV* ☐ ASP LW* ☐ ASP LX* ☐ ASP LY* ☐ ASP LZ* ☐ ASP MA* ☐ ASP MB* ☐ ASP MC* ☐ ASP MD* ☐ ASP ME* ☐ ASP MF* ☐ ASP MG* ☐ ASP MH* ☐ ASP MI* ☐ ASP MJ* ☐ ASP MK* ☐ ASP ML* ☐ ASP MM* ☐ ASP MN* ☐ ASP MO* ☐ ASP MP* ☐ ASP MQ* ☐ ASP MR* ☐ ASP MS* ☐ ASP MT* ☐ ASP MU* ☐ ASP MV* ☐ ASP MW* ☐ ASP MX* ☐ ASP MY* ☐ ASP MZ* ☐ ASP NA* ☐ ASP NB* ☐ ASP NC* ☐ ASP ND* ☐ ASP NE* ☐ ASP NF* ☐ ASP NG* ☐ ASP NH* ☐ ASP NI* ☐ ASP NJ* ☐ ASP NK* ☐ ASP NL* ☐ ASP NM* ☐ ASP NN* ☐ ASP NO* ☐ ASP NP* ☐ ASP NQ* ☐ ASP NR* ☐ ASP NS* ☐ ASP NT* ☐ ASP NU* ☐ ASP NV* ☐ ASP NW* ☐ ASP NX* ☐ ASP NY* ☐ ASP NZ* ☐ ASP OA* ☐ ASP OB* ☐ ASP OC* ☐ ASP OD* ☐ ASP OE* ☐ ASP OF* ☐ ASP OG* ☐ ASP OH* ☐ ASP OI* ☐ ASP OJ* ☐ ASP OK* ☐ ASP OL* ☐ ASP OM* ☐ ASP ON* ☐ ASP OO* ☐ ASP OP* ☐ ASP OQ* ☐ ASP OR* ☐ ASP OS* ☐ ASP OT* ☐ ASP OU* ☐ ASP OV* ☐ ASP OW* ☐ ASP OX* ☐ ASP OY* ☐ ASP OZ* ☐ ASP PA* ☐ ASP PB* ☐ ASP PC* ☐ ASP PD* ☐ ASP PE* ☐ ASP PF* ☐ ASP PG* ☐ ASP PH* ☐ ASP PI* ☐ ASP PJ* ☐ ASP PK* ☐ ASP PL* ☐ ASP PM* ☐ ASP PN* ☐ ASP PO* ☐ ASP PP* ☐ ASP PQ* ☐ ASP PR* ☐ ASP PS* ☐ ASP PT* ☐ ASP PU* ☐ ASP PV* ☐ ASP PW* ☐ ASP PX* ☐ ASP PY* ☐ ASP PZ* ☐ ASP QA* ☐ ASP QB* ☐ ASP QC* ☐ ASP QD* ☐ ASP QE* ☐ ASP QF* ☐ ASP QG* ☐ ASP QH* ☐ ASP QI* ☐ ASP QJ* ☐ ASP QK* ☐ ASP QL* ☐ ASP QM* ☐ ASP QN* ☐ ASP QO* ☐ ASP QP* ☐ ASP QQ* ☐ ASP QR* ☐ ASP QS* ☐ ASP QT* ☐ ASP QU* ☐ ASP QV* ☐ ASP QW* ☐ ASP QX* ☐ ASP QY* ☐ ASP QZ* ☐ ASP RA* ☐ ASP RB* ☐ ASP RC* ☐ ASP RD* ☐ ASP RE* ☐ ASP RF* ☐ ASP RG* ☐ ASP RH* ☐ ASP RI* ☐ ASP RJ* ☐ ASP RK* ☐ ASP RL* ☐ ASP RM* ☐ ASP RN* ☐ ASP RO* ☐ ASP RP* ☐ ASP RQ* ☐ ASP RR* ☐ ASP RS* ☐ ASP RT* ☐ ASP RU* ☐ ASP RV* ☐ ASP RW* ☐ ASP RX* ☐ ASP RY* ☐ ASP RZ* ☐ ASP SA* ☐ ASP SB* ☐ ASP SC* ☐ ASP SD* ☐ ASP SE* ☐ ASP SF* ☐ ASP SG* ☐ ASP SH* ☐ ASP SI* ☐ ASP SJ* ☐ ASP SK* ☐ ASP SL* ☐ ASP SM* ☐ ASP SN* ☐ ASP SO* ☐ ASP SP* ☐ ASP SQ* ☐ ASP SR* ☐ ASP SS* ☐ ASP ST* ☐ ASP SU* ☐ ASP SV* ☐ ASP SW* ☐ ASP SX* ☐ ASP SY* ☐ ASP SZ* ☐ ASP TA* ☐ ASP TB* ☐ ASP TC* ☐ ASP TD* ☐ ASP TE* ☐ ASP TF* ☐ ASP TG* ☐ ASP TH* ☐ ASP TI* ☐ ASP TJ* ☐ ASP TK* ☐ ASP TL* ☐ ASP TM* ☐ ASP TN* ☐ ASP TO* ☐ ASP TP* ☐ ASP TQ* ☐ ASP TR* ☐ ASP TS* ☐ ASP TT* ☐ ASP TU* ☐ ASP TV* ☐ ASP TW* ☐ ASP TX* ☐ ASP TY* ☐ ASP TZ* ☐ ASP UA* ☐ ASP UB* ☐ ASP UC* ☐ ASP UD* ☐ ASP UE* ☐ ASP UF* ☐ ASP UG* ☐ ASP UH* ☐ ASP UI* ☐ ASP UJ* ☐ ASP UK* ☐ ASP UL* ☐ ASP UM* ☐ ASP UN* ☐ ASP UO* ☐ ASP UP* ☐ ASP UQ* ☐ ASP UR* ☐ ASP US* ☐ ASP UT* ☐ ASP UV* ☐ ASP UW* ☐ ASP UX* ☐ ASP UY* ☐ ASP UZ* ☐ ASP VA* ☐ ASP VB* ☐ ASP VC* ☐ ASP VD* ☐ ASP VE* ☐ ASP VF* ☐ ASP VG* ☐ ASP VH* ☐ ASP VI* ☐ ASP VJ* ☐ ASP VK* ☐ ASP VL* ☐ ASP VM* ☐ ASP VN* ☐ ASP VO* ☐ ASP VP* ☐ ASP VQ* ☐ ASP VR* ☐ ASP VS* ☐ ASP VT* ☐ ASP VU* ☐ ASP VV* ☐ ASP VW* ☐ ASP VX* ☐ ASP VY* ☐ ASP VZ* ☐ ASP WA* ☐ ASP WB* ☐ ASP WC* ☐ ASP WD* ☐ ASP WE* ☐ ASP WF* ☐ ASP WG* ☐ ASP WH* ☐ ASP WI* ☐ ASP WJ* ☐ ASP WK* ☐ ASP WL* ☐ ASP WM* ☐ ASP WN* ☐ ASP WO* ☐ ASP WP* ☐ ASP WQ* ☐ ASP WR* ☐ ASP WS* ☐ ASP WT* ☐ ASP WU* ☐ ASP WV* ☐ ASP WX* ☐ ASP WY* ☐ ASP WZ* ☐ ASP XA* ☐ ASP XB* ☐ ASP XC* ☐ ASP XD* ☐ ASP XE* ☐ ASP XF* ☐ ASP XG* ☐ ASP XH* ☐ ASP XI* ☐ ASP XJ* ☐ ASP XK* ☐ ASP XL* ☐ ASP XM* ☐ ASP XN* ☐ ASP XO* ☐ ASP XP* ☐ ASP XQ* ☐ ASP XR* ☐ ASP XS* ☐ ASP XT* ☐ ASP XU* ☐ ASP XV* ☐ ASP XW* ☐ ASP XX* ☐ ASP XY* ☐ ASP XZ* ☐ ASP YA* ☐ ASP YB* ☐ ASP YC* ☐ ASP YD* ☐ ASP YE* ☐ ASP YF* ☐ ASP YG* ☐ ASP YH* ☐ ASP YI* ☐ ASP YJ* ☐ ASP YK* ☐ ASP YL* ☐ ASP YM* ☐ ASP YN* ☐ ASP YO* ☐ ASP YP* ☐ ASP YQ* ☐ ASP YR* ☐ ASP YS* ☐ ASP YT* ☐ ASP YU* ☐ ASP YV* ☐ ASP YW* ☐ ASP YX* ☐ ASP YY* ☐ ASP YZ* ☐ ASP ZA* ☐ ASP ZB* ☐ ASP ZC* ☐ ASP ZD* ☐ ASP ZE* ☐ ASP ZF* ☐ ASP ZG* ☐ ASP ZH* ☐ ASP ZI* ☐ ASP ZJ* ☐ ASP ZK* ☐ ASP ZL* ☐ ASP ZM* ☐ ASP ZN* ☐ ASP ZO* ☐ ASP ZP* ☐ ASP ZQ* ☐ ASP ZR* ☐ ASP ZS* ☐ ASP ZT* ☐ ASP ZU* ☐ ASP ZV* ☐ ASP ZW* ☐ ASP ZX* ☐ ASP ZY* ☐ ASP ZZ

Relinquished by:

Received by:

Date:

Time:

Temp °C

Observed

Correction Factor

Corrected

IR ID #

10-06-18 10:30

John Wyr
Feedex

Feedex
Staford

Condition upon receipt: Custody Seal: ☒ Present ☒ Intact ☐ Broken

☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

ORIGIN ID:YAKA (631) 624-1989
JOHN CRESPO
4 DASKUM LANE UNIT 304
NOWALK, CT 06851
UNITED STATES US

SHIP DATE: 04OCT18
ACTWGT: 50.00 LB
CAD: 0654830/CAFE3210

TO ROBERT BRISTOL
EUROFINS SPECTRUM ANALYTICAL, INC.
11 ALMGREN DRIVE

552J188FBDCA5

AGAWAM MA 01001

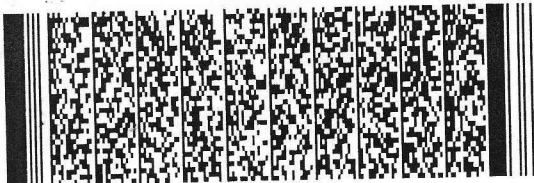
(413) 789-9018

REF:

INV:

DEPT: SALES

RMA:



FedEx
Express



J182188819010Y

RETURNS MON-SAT
PRIORITY OVERNIGHT

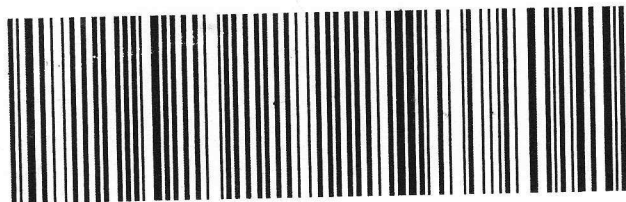
TRK#

0223

4457 6111 6959

01001

MA-US



SVCS: PRIORITY OVERNIGHT

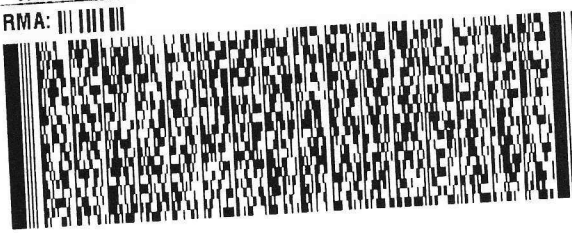
ORIGIN ID: EHTA (000) 000-0000
ATTN: JOHN CRESPO
AECOM ENVIRONMENT
4 DASKAMS LANE, UNIT 304
NORWALK, CT 06851
UNITED STATES US

SHIP DATE: 25SEP18
ACTWGT: 40.00 LB MAN
CAD: 0654830/CAFE3210

TO **ROBERT BRISTOL**
EUROFINS SPECTRUM ANALYTICAL, INC.
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018
REF: # 45558

RMA: 

FedEx
Express



J181118042001UY

TRK# 4457 6111 5871
0221

RETURNS MON-SAT
PRIORITY OVERNIGHT

01001

MA-US

FedEx

TRK# 4457 6111 5871
0221

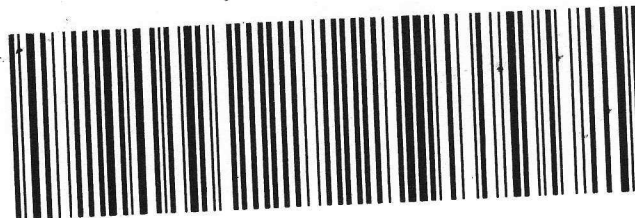
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO EHTA

01001

MA-US

BDL



#513993 10/05 552J1/B8FB/DCAS

Batch Summary

'Inonel'

Subcontracted Analyses

SC50907-01 (B-10 (0-2))
SC50907-02 (B-10 (4-6))
SC50907-04 (B-8 (0-2))
SC50907-05 (B-8 (4-6))
SC50907-07 (B-13 (0-2))
SC50907-08 (B-13 (2 1/2-4 1/2))

1813423

General Chemistry Parameters

SC50907-01 (B-10 (0-2))
SC50907-02 (B-10 (4-6))
SC50907-04 (B-8 (0-2))
SC50907-05 (B-8 (4-6))
SC50907-07 (B-13 (0-2))
SC50907-08 (B-13 (2 1/2-4 1/2))

1813545

Semivolatile Organic Compounds by GCMS

1813545-BLK1
1813545-BS1
1813545-BSD1
1813545-MS1
1813545-MSD1
SC50907-03 (GW-4)
SC50907-06 (FB20181005)
SC50907-09 (GW-7)

1813739

Semivolatile Organic Compounds by GCMS

1813739-BLK1
1813739-BS1
1813739-BSD1
1813739-DUP1
SC50907-01 (B-10 (0-2))
SC50907-02 (B-10 (4-6))
SC50907-04 (B-8 (0-2))
SC50907-05 (B-8 (4-6))
SC50907-07 (B-13 (0-2))
SC50907-08 (B-13 (2 1/2-4 1/2))

451220A

Subcontracted Analyses

CB68033-BLK
CB68033-LCS
CB68033-LCSD
CB68033-MS
CB68033-MSD
SC50907-01 (B-10 (0-2))
SC50907-02 (B-10 (4-6))
SC50907-04 (B-8 (0-2))

SC50907-07 (B-13 (0-2))
SC50907-08 (B-13 (2 1/2-4 1/2))
SC50907-11 (TB-S)

451350A

Subcontracted Analyses

CB68181-BLK
CB68181-LCS
CB68181-LCSD
CB68181-MS
CB68181-MSD
SC50907-05 (B-8 (4-6))

451374A

Subcontracted Analyses

CB68179-BLK
CB68179-LCS
CB68179-LCSD
CB68179-MS
CB68179-MSD
SC50907-03 (GW-4)
SC50907-06 (FB20181005)
SC50907-09 (GW-7)
SC50907-10 (TB-W)

S821565

Semivolatile Organic Compounds by GCMS

S821565-CAL1
S821565-CAL2
S821565-CAL3
S821565-CAL4
S821565-CAL5
S821565-CAL6
S821565-CAL7
S821565-CAL8
S821565-CAL9
S821565-CALA
S821565-ICV1
S821565-LCV1
S821565-LCV2
S821565-TUN1

S822642

Semivolatile Organic Compounds by GCMS

S822642-CCV1
S822642-TUN1

S822677

Semivolatile Organic Compounds by GCMS

S822677-CCV1
S822677-TUN1

S822705

Semivolatile Organic Compounds by GCMS

S822705-CCV1

S822705-TUN1

S822724

Semivolatile Organic Compounds by GCMS

S822724-CCV1

S822724-TUN1

S822740

Semivolatile Organic Compounds by GCMS

S822740-CCV1

S822740-TUN1

S822752

Semivolatile Organic Compounds by GCMS

S822752-CCV1

S822752-TUN1

S822753

Semivolatile Organic Compounds by GCMS

S822753-CCV1

S822753-TUN1

Report Date:
24-Oct-18 13:10**Laboratory Report**
SC50933AECOM Environment
125 Broad St
, 15th Floor
New York, NY 10005Project: South Brooklyn Terminal - Brooklyn, NY
Project #: 60558675

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Dawn Wojcik
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 92 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC50933
Project: South Brooklyn Terminal - Brooklyn, NY
Project Number: 60558675

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC50933-01	FB20181008 Soil	Aqueous	08-Oct-18 08:35	09-Oct-18 10:18
SC50933-02	B-14 (0-2)	Soil	08-Oct-18 09:18	09-Oct-18 10:18
SC50933-03	B-14 (5-7)	Soil	08-Oct-18 09:40	09-Oct-18 10:18
SC50933-04	GW-8	Ground Water	08-Oct-18 11:00	09-Oct-18 10:18
SC50933-05	FB20181008 PCB	Aqueous	08-Oct-18 10:05	09-Oct-18 10:18
SC50933-06	TB-W	Trip Blank	08-Oct-18 00:00	09-Oct-18 10:18
SC50933-07	B-14A (0-2)	Soil	08-Oct-18 14:20	09-Oct-18 10:18
SC50933-08	GW-8A	Ground Water	08-Oct-18 15:25	09-Oct-18 10:18
SC50933-09	TB-S	Trip Blank	08-Oct-18 00:00	09-Oct-18 10:18

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 3.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8260C

Laboratory Control Samples:

CB68795-LCS

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Acetone
Bromomethane
Chloroethane
Hexachlorobutadiene
Methylene chloride

Samples:

SC50933-02 *B-14 (0-2)*

Estimated Below RL

1,3,5-Trimethylbenzene
Carbon Disulfide
Ethylbenzene
Isopropylbenzene
m&p-Xylene
Methyl Ethyl Ketone
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Toluene

S - Laboratory solvent, contamination is possible.

Acetone

SC50933-03 *B-14 (5-7)*

Estimated Below RL

Acetone
Carbon Disulfide

S - Laboratory solvent, contamination is possible.

Acetone

This laboratory report is not valid without an authorized signature on the cover page.

SW8260C

Samples:

SC50933-07 *B-14A (0-2)*

Estimated Below RL

Acetone
Carbon Disulfide

S - Laboratory solvent, contamination is possible.

Acetone

CB68179-LCSD

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Bromomethane

CB68179-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Vinyl chloride

CB68179-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

Vinyl chloride

CB68795-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Acetone
Carbon Disulfide
Chloroethane
Trichlorotrifluoroethane

This parameter is outside laboratory rpd specified recovery limits.

1,1-Dichloroethene
Bromomethane
Chloroethane
Trichlorofluoromethane

CB68795-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

1,1-Dichloroethene
2,2-Dichloropropane
Acetone
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chloroethane
Methylene chloride
Trichlorofluoromethane
Trichlorotrifluoroethane

This parameter is outside laboratory rpd specified recovery limits.

1,1-Dichloroethene
Bromomethane
Chloroethane
Trichlorofluoromethane

SW846 8082A

Samples:

SC50933-07 *B-14A (0-2)*

This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

Aroclor-1254
Aroclor-1254 [2C]

SC50933-07RE1 *B-14A (0-2)*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SW846 8270D

Calibration:

1808015

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Aniline
Benzidine
Benzoic acid
Carbazole
Hexachlorocyclopentadiene

This affected the following samples:

1813545-BLK1
1813545-BS1
1813545-BSD1
1813545-DUP1
FB20181008 Soil
GW-8
GW-8A
S821565-ICV1
S822642-CCV1
S822677-CCV1
S822705-CCV1

Laboratory Control Samples:

1813545 BSD

Benzidine RPD 25% (20%) is outside individual acceptance criteria.

1813545-BSD1

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzidine

1813739 BS/BSD

SW846 8270D

Laboratory Control Samples:

1813739 BS/BSD

Benzidine percent recoveries (149/159) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-14 (0-2)
B-14 (5-7)
B-14A (0-2)

Benzoic acid percent recoveries (25/21) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-14 (0-2)
B-14 (5-7)
B-14A (0-2)

Carbazole percent recoveries (174/160) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-14 (0-2)
B-14 (5-7)
B-14A (0-2)

1813739-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

1813739-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Benzoic acid

Samples:

S822642-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (26.3%)
4-Chlorophenyl phenyl ether (21.5%)
Azobenzene/Diphenyldiazene (20.3%)
Benzo (b) fluoranthene (31.5%)
Benzyl alcohol (-32.5%)
N-Nitrosodimethylamine (31.5%)
Pyridine (25.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (27.1%)
Benzidine (37.5%)
Hexachlorocyclopentadiene (28.7%)

This affected the following samples:

1813545-BLK1
1813545-BS1
1813545-BSD1

S822705-CCV1

SW846 8270D

Samples:

S822705-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Chlorophenyl phenyl ether (20.2%)
Azobenzene/Diphenyldiazene (25.8%)
Benzyl alcohol (-21.2%)
Dibenzo (a,h) anthracene (33.7%)
Diethyl phthalate (24.4%)
Di-n-octyl phthalate (25.6%)
Indeno (1,2,3-cd) pyrene (20.5%)
N-Nitrosodiphenylamine (20.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (28.5%)
Benzoic acid (-32.3%)
Carbazole (31.9%)

This affected the following samples:

1813545-DUP1
FB20181008 Soil
GW-8
GW-8A

S822724-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (23.2%)
2-Chloronaphthalene (24.9%)
3,3'-Dichlorobenzidine (43.2%)
4-Chlorophenyl phenyl ether (29.2%)
Azobenzene/Diphenyldiazene (20.1%)
Benzo (b) fluoranthene (28.1%)
Benzyl alcohol (-28.5%)
Diethyl phthalate (32.9%)
Di-n-octyl phthalate (26.8%)
Fluorene (22.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (33.7%)
Benzoic acid (-23.3%)
Carbazole (39.5%)

This affected the following samples:

1813739-BLK1
1813739-BS1
1813739-BSD1

S822753-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3,3'-Dichlorobenzidine (54.1%)
Acenaphthylene (20.7%)
Pyridine (20.4%)

SW846 8270D

Samples:

S822753-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (39.9%)
Benzidine (72.6%)
Benzoic acid (-25.0%)
Carbazole (49.7%)

This affected the following samples:

B-14 (0-2)
B-14 (5-7)
B-14A (0-2)

S822803-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (31.4%)
2-Chloronaphthalene (21.7%)
3,3'-Dichlorobenzidine (52.0%)
4-Chlorophenyl phenyl ether (34.3%)
Benzo (b) fluoranthene (36.8%)
Benzyl alcohol (-20.9%)
Diethyl phthalate (35.9%)
Pentachlorophenol (-24.3%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (42.4%)
Benzidine (53.5%)
Benzoic acid (-30.2%)
Carbazole (40.2%)
Hexachlorocyclopentadiene (21.7%)

This affected the following samples:

1813949-BLK1
1813949-BS1
1813949-BSD1
B-14 (0-2)

SC50933-02 *B-14 (0-2)*

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

SC50933-02RE1 *B-14 (0-2)*

Duplicate analysis confirmed surrogate failure due to matrix effects.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

SC50933-03 *B-14 (5-7)*

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2,4,6-Tribromophenol

SW846 8270D

Samples:

SC50933-07

B-14A (0-2)

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client: AECOM Environment - NY, NY
Project: South Brooklyn Terminal - Brooklyn, NY / 60558675
Work Order: SC50933
Sample(s) received on: 10/9/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC50933-02

Client ID: B-14 (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	7.0		5.3	ug/kg	SW8260C
1,3,5-Trimethylbenzene	2.1	J.	5.3	ug/kg	SW8260C
Acetone	27	S	26	ug/kg	SW8260C
Carbon Disulfide	1.8	J.	5.3	ug/kg	SW8260C
Ethylbenzene	1.1	J.	5.3	ug/kg	SW8260C
Isopropylbenzene	0.60	J.	5.3	ug/kg	SW8260C
m&p-Xylene	4.3	J.	5.3	ug/kg	SW8260C
Methyl Ethyl Ketone	8.3	J.	26	ug/kg	SW8260C
Naphthalene	6.2		5.3	ug/kg	SW8260C
o-Xylene	2.5	J.	5.3	ug/kg	SW8260C
p-Isopropyltoluene	0.57	J.	5.3	ug/kg	SW8260C
sec-Butylbenzene	0.56	J.	5.3	ug/kg	SW8260C
Toluene	0.61	J.	5.3	ug/kg	SW8260C
Total Xylenes	6.8		5.3	ug/kg	SW8260C

Lab ID: SC50933-03

Client ID: B-14 (5-7)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	10	S, J.	22	ug/kg	SW8260C
Carbon Disulfide	4.4	J.	4.4	ug/kg	SW8260C
Benzo (a) anthracene	55.1	J	77.7	µg/kg	SW846 8270D
Benzo (a) pyrene	53.2	J	77.7	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	35.7	J	77.7	µg/kg	SW846 8270D
Benzo (k) fluoranthene	31.8	J	77.7	µg/kg	SW846 8270D
Bis(2-ethylhexyl)phthalate	139	J	194	µg/kg	SW846 8270D
Chrysene	50.5	J	77.7	µg/kg	SW846 8270D
Fluoranthene	74.5	J	77.7	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	28.3	J	77.7	µg/kg	SW846 8270D
Phenanthrene	43.5	J	77.7	µg/kg	SW846 8270D
Pyrene	79.6		77.7	µg/kg	SW846 8270D

Lab ID: SC50933-07

Client ID: B-14A (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	21	S, J.	24	ug/kg	SW8260C
Carbon Disulfide	1.5	J.	4.8	ug/kg	SW8260C
Aroclor-1242 [2C]	1660		26.7	µg/kg	SW846 8082A
Aroclor-1254	56600	E	26.7	µg/kg	SW846 8082A
Aroclor-1254 [2C]	66500	E	26.7	µg/kg	SW846 8082A

Lab ID: SC50933-07RE1

Client ID: B-14A (0-2)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aroclor-1254 [2C]	61000	D	2670	µg/kg	SW846 8082A

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

FB20181008 Soil

SC50933-01

Client Project #

60558675

Matrix

Aqueous

Collection Date/Time

08-Oct-18 08:35

Received

09-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	1.06	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	1.12	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	0.480	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 4.85	U	µg/l	4.85	0.939	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	4.44	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.844	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.697	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.650	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.680	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.953	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	1.02	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 4.85	U	µg/l	4.85	0.849	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.85	U	µg/l	4.85	0.703	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.910	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.453	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.809	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	1.31	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.483	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.909	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.658	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	1.18	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.65	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.53	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.47	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.85	U	µg/l	4.85	0.822	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.913	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	1.76	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.85	U	µg/l	4.85	0.603	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85	1.05	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.85	U	µg/l	4.85	1.17	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.16	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X

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Sample Identification

FB20181008 Soil

SC50933-01

Client Project #

60558675

Matrix

Aqueous

Collection Date/Time

08-Oct-18 08:35

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 4.85	U	µg/l	4.85	1.22	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.990	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.945	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	1.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	1.48	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.85	U	µg/l	4.85	1.62	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.564	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.793	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.60	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	1.10	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.85	U	µg/l	4.85	1.32	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.487	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.617	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.611	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.85	U	µg/l	4.85	1.25	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.696	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.4	U	µg/l	19.4	0.756	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.582	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85	1.00	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.754	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.959	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.395	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	1.52	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.15	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.758	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.679	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.780	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	1.07	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	64		30-130 %	"	"	"	"	"
367-12-4	2-Fluorophenol	38		15-110 %	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	73		30-130 %	"	"	"	"	"
4165-62-2	Phenol-d5	22		15-110 %	"	"	"	"	"
1718-51-0	Terphenyl-dl4	84		30-130 %	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	61		15-110 %	"	"	"	"	"

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Sample Identification**B-14 (0-2)**

SC50933-02

Client Project #

60558675

Matrix

Soil

Collection Date/Time

08-Oct-18 09:18

Received

09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 735	U, D	µg/kg dry	735	366	10	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 735	U, D	µg/kg dry	735	362	10	"	"	"	"	"	X
62-53-3	Aniline	< 3630	U, D	µg/kg dry	3630	261	10	"	"	"	"	"	X
120-12-7	Anthracene	< 735	U, D	µg/kg dry	735	351	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiaz ene	< 3630	U, D	µg/kg dry	3630	357	10	"	"	"	"	"	
92-87-5	Benzidine	< 7270	U, D	µg/kg dry	7270	731	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 735	U, D	µg/kg dry	735	388	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 735	U, D	µg/kg dry	735	273	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 735	U, D	µg/kg dry	735	356	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 735	U, D	µg/kg dry	735	295	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 735	U, D	µg/kg dry	735	287	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3630	U, D	µg/kg dry	3630	763	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3630	U, D	µg/kg dry	3630	298	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)metha ne	< 3630	U, D	µg/kg dry	3630	323	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1840	U, D	µg/kg dry	1840	263	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ethe r	< 1840	U, D	µg/kg dry	1840	283	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1840	U, D	µg/kg dry	1840	454	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3630	U, D	µg/kg dry	3630	340	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3630	U, D	µg/kg dry	3630	424	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1840	U, D	µg/kg dry	1840	1030	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3630	U, D	µg/kg dry	3630	347	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1840	U, D	µg/kg dry	1840	398	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3630	U, D	µg/kg dry	3630	336	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1840	U, D	µg/kg dry	1840	327	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3630	U, D	µg/kg dry	3630	432	10	"	"	"	"	"	X
218-01-9	Chrysene	< 735	U, D	µg/kg dry	735	367	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 735	U, D	µg/kg dry	735	282	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1840	U, D	µg/kg dry	1840	280	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3630	U, D	µg/kg dry	3630	317	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3630	U, D	µg/kg dry	3630	317	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3630	U, D	µg/kg dry	3630	337	10	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 3630	U, D	µg/kg dry	3630	553	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1840	U, D	µg/kg dry	1840	344	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3630	U, D	µg/kg dry	3630	449	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3630	U, D	µg/kg dry	3630	398	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3630	U, D	µg/kg dry	3630	260	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3630	U, D	µg/kg dry	3630	385	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3630	U, D	µg/kg dry	3630	467	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3630	U, D	µg/kg dry	3630	370	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1840	U, D	µg/kg dry	1840	711	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1840	U, D	µg/kg dry	1840	414	10	"	"	"	"	"	X

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Sample Identification**B-14 (0-2)**

SC50933-02

Client Project #

60558675

Matrix

Soil

Collection Date/Time

08-Oct-18 09:18

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>			R01										
117-84-0	Di-n-octyl phthalate	< 3630	U, D	µg/kg dry	3630	411	10	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	< 735	U, D	µg/kg dry	735	388	10	"	"	"	"	"	X
86-73-7	Fluorene	< 735	U, D	µg/kg dry	735	373	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1840	U, D	µg/kg dry	1840	362	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1840	U, D	µg/kg dry	1840	439	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1840	U, D	µg/kg dry	1840	250	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1840	U, D	µg/kg dry	1840	396	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 735	U, D	µg/kg dry	735	264	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1840	U, D	µg/kg dry	1840	345	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 735	U, D	µg/kg dry	735	444	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3630	U, D	µg/kg dry	3630	309	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3630	U, D	µg/kg dry	3630	351	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 735	U, D	µg/kg dry	735	342	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3630	U, D	µg/kg dry	3630	308	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3630	U, D	µg/kg dry	3630	497	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1840	U, D	µg/kg dry	1840	566	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1840	U, D	µg/kg dry	1840	335	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1840	U, D	µg/kg dry	1840	305	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 14500	U, D	µg/kg dry	14500	587	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1840	U, D	µg/kg dry	1840	341	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1840	U, D	µg/kg dry	1840	358	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3630	U, D	µg/kg dry	3630	394	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3630	U, D	µg/kg dry	3630	388	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 735	U, D	µg/kg dry	735	342	10	"	"	"	"	"	X
108-95-2	Phenol	< 3630	U, D	µg/kg dry	3630	239	10	"	"	"	"	"	X
129-00-0	Pyrene	< 735	U, D	µg/kg dry	735	410	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3630	U, D	µg/kg dry	3630	542	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3630	U, D	µg/kg dry	3630	360	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 735	U, D	µg/kg dry	735	361	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 3630	U, D	µg/kg dry	3630	327	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1840	U, D	µg/kg dry	1840	328	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3630	U, D	µg/kg dry	3630	574	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3630	U, D	µg/kg dry	3630	352	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	59			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	30			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	64			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	57			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	60			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	3	SDUP		30-130 %			"	"	"	"	"	

Re-analysis of Semivolatile Organic CompoundsPrepared by method SW846 3546

83-32-9	Acenaphthene	< 739	U, D	µg/kg dry	739	368	10	SW846 8270D	22-Oct-18	23-Oct-18	MSL	1813949	X

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Sample Identification

B-14 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-02	60558675	Soil	08-Oct-18 09:18	09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Re-analysis of Semivolatile Organic Compounds</u>			R01										
208-96-8	Acenaphthylene	< 739	U, D	µg/kg dry	739	365	10	SW846 8270D	22-Oct-18	23-Oct-18	MSL	1813949	X
62-53-3	Aniline	< 3660	U, D	µg/kg dry	3660	263	10	"	"	"	"	"	X
120-12-7	Anthracene	< 739	U, D	µg/kg dry	739	354	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3660	U, D	µg/kg dry	3660	360	10	"	"	"	"	"	
92-87-5	Benzidine	< 7320	U, D	µg/kg dry	7320	736	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 739	U, D	µg/kg dry	739	390	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 739	U, D	µg/kg dry	739	275	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 739	U, D	µg/kg dry	739	358	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 739	U, D	µg/kg dry	739	297	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 739	U, D	µg/kg dry	739	289	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3660	U, D	µg/kg dry	3660	768	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3660	U, D	µg/kg dry	3660	299	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3660	U, D	µg/kg dry	3660	325	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1850	U, D	µg/kg dry	1850	265	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1850	U, D	µg/kg dry	1850	285	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1850	U, D	µg/kg dry	1850	457	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3660	U, D	µg/kg dry	3660	343	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3660	U, D	µg/kg dry	3660	427	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1850	U, D	µg/kg dry	1850	1030	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3660	U, D	µg/kg dry	3660	349	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1850	U, D	µg/kg dry	1850	400	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3660	U, D	µg/kg dry	3660	338	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1850	U, D	µg/kg dry	1850	329	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3660	U, D	µg/kg dry	3660	434	10	"	"	"	"	"	X
218-01-9	Chrysene	< 739	U, D	µg/kg dry	739	369	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 739	U, D	µg/kg dry	739	284	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1850	U, D	µg/kg dry	1850	282	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3660	U, D	µg/kg dry	3660	319	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3660	U, D	µg/kg dry	3660	319	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3660	U, D	µg/kg dry	3660	339	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3660	U, D	µg/kg dry	3660	556	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1850	U, D	µg/kg dry	1850	346	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3660	U, D	µg/kg dry	3660	452	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3660	U, D	µg/kg dry	3660	400	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3660	U, D	µg/kg dry	3660	262	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3660	U, D	µg/kg dry	3660	388	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3660	U, D	µg/kg dry	3660	470	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3660	U, D	µg/kg dry	3660	372	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1850	U, D	µg/kg dry	1850	716	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1850	U, D	µg/kg dry	1850	417	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3660	U, D	µg/kg dry	3660	413	10	"	"	"	"	"	X

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Sample Identification

B-14 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-02	60558675	Soil	08-Oct-18 09:18	09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCMSRe-analysis of Semivolatile Organic Compounds

R01

206-44-0	Fluoranthene	< 739	U, D	µg/kg dry	739	391	10	SW846 8270D	22-Oct-18	23-Oct-18	MSL	1813949	X
86-73-7	Fluorene	< 739	U, D	µg/kg dry	739	376	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1850	U, D	µg/kg dry	1850	364	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1850	U, D	µg/kg dry	1850	442	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1850	U, D	µg/kg dry	1850	252	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1850	U, D	µg/kg dry	1850	399	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 739	U, D	µg/kg dry	739	266	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1850	U, D	µg/kg dry	1850	347	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 739	U, D	µg/kg dry	739	447	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3660	U, D	µg/kg dry	3660	311	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3660	U, D	µg/kg dry	3660	354	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 739	U, D	µg/kg dry	739	345	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3660	U, D	µg/kg dry	3660	310	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3660	U, D	µg/kg dry	3660	500	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1850	U, D	µg/kg dry	1850	570	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1850	U, D	µg/kg dry	1850	337	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1850	U, D	µg/kg dry	1850	307	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 14600	U, D	µg/kg dry	14600	591	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1850	U, D	µg/kg dry	1850	344	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1850	U, D	µg/kg dry	1850	360	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3660	U, D	µg/kg dry	3660	397	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3660	U, D	µg/kg dry	3660	391	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 739	U, D	µg/kg dry	739	344	10	"	"	"	"	"	X
108-95-2	Phenol	< 3660	U, D	µg/kg dry	3660	241	10	"	"	"	"	"	X
129-00-0	Pyrene	< 739	U, D	µg/kg dry	739	412	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3660	U, D	µg/kg dry	3660	545	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3660	U, D	µg/kg dry	3660	362	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 739	U, D	µg/kg dry	739	364	10	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 3660	U, D	µg/kg dry	3660	329	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1850	U, D	µg/kg dry	1850	330	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3660	U, D	µg/kg dry	3660	577	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3660	U, D	µg/kg dry	3660	355	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	59			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	31			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	62			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	57			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	60			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	2	SDUP		30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 21.7	U	µg/kg dry	21.7	9.74	1	SW846 8082A	16-Oct-18	17-Oct-18	RF	1813738	X

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Sample Identification

B-14 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-02	60558675	Soil	08-Oct-18 09:18	09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCPolychlorinated Biphenyls

11104-28-2	Aroclor-1221	< 21.7	U	µg/kg dry	21.7	11.6	1	SW846 8082A	16-Oct-18	17-Oct-18	RF	1813738	X
11141-16-5	Aroclor-1232	< 21.7	U	µg/kg dry	21.7	10.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7	U	µg/kg dry	21.7	21.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7	U	µg/kg dry	21.7	19.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7	U	µg/kg dry	21.7	14.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7	U	µg/kg dry	21.7	11.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7	U	µg/kg dry	21.7	19.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7	U	µg/kg dry	21.7	9.81	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.8	%				1	SM2540 G (11) Mod.	09-Oct-18	09-Oct-18	BD	1813459

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.3		ug/kg	5.3	1.1	1	SW8260C	08-Oct-18 09:18	10-Oct-18 17:11	11301	451348A
71-55-6	1,1,1-Trichloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	7.0		ug/kg	5.3	0.53	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	2.1	J.	ug/kg	5.3	0.53	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"
591-78-6	2-Hexanone	< 26		ug/kg	26	5.3	1	"	"	"	"	"

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Sample Identification

B-14 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-02	60558675	Soil	08-Oct-18 09:18	09-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

106-43-4	4-Chlorotoluene	< 5.3		ug/kg	5.3	0.53	1	SW8260C	08-Oct-18 09:18	10-Oct-18 17:11	11301	451348A	
108-10-1	4-Methyl-2-pentanone	< 26		ug/kg	26	5.3	1	"	"	"	"	"	
67-64-1	Acetone	27	S	ug/kg	26	5.3	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 11		ug/kg	11	0.53	1	"	"	"	"	"	
71-43-2	Benzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.3		ug/kg	5.3	2.1	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	1.8	J.	ug/kg	5.3	1.1	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
100-41-4	Ethylbenzene	1.1	J.	ug/kg	5.3	0.53	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	0.60	J.	ug/kg	5.3	0.53	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	4.3	J.	ug/kg	5.3	1.1	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	8.3	J.	ug/kg	26	5.3	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 11		ug/kg	11	1.1	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 11		ug/kg	11	5.3	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
91-20-3	Naphthalene	6.2		ug/kg	5.3	1.1	1	"	"	"	"	"	
95-47-6	o-Xylene	2.5	J.	ug/kg	5.3	1.1	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	0.57	J.	ug/kg	5.3	0.53	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	0.56	J.	ug/kg	5.3	0.53	1	"	"	"	"	"	
100-42-5	Styrene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 11		ug/kg	11	2.6	1	"	"	"	"	"	
108-88-3	Toluene	0.61	J.	ug/kg	5.3	0.53	1	"	"	"	"	"	
1330-20-7	Total Xylenes	6.8		ug/kg	5.3	5.3	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	

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Sample Identification

B-14 (0-2)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-02	60558675	Soil	08-Oct-18 09:18	09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

110-57-6	trans-1,4-dichloro-2-buten e	< 11		ug/kg	11	2.6	1	SW8260C	08-Oct-18 09:18	10-Oct-18 17:11	11301	451348A	
79-01-6	Trichloroethene	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.3		ug/kg	5.3	1.1	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.3		ug/kg	5.3	0.53	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	95			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	85			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	84			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	81			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	90	%					1	SW846-%Solid	"	09-Oct-18 20:08	11301	'[none]'	

Sample Identification

B-14 (5-7)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-03	60558675	Soil	08-Oct-18 09:40	09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3546</u>													
83-32-9	Acenaphthene	< 77.7	U	µg/kg dry	77.7	38.7	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 77.7	U	µg/kg dry	77.7	38.3	1	"	"	"	"	"	X
62-53-3	Aniline	< 384	U	µg/kg dry	384	27.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 77.7	U	µg/kg dry	77.7	37.2	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 384	U	µg/kg dry	384	37.8	1	"	"	"	"	"	
92-87-5	Benzidine	< 769	U	µg/kg dry	769	77.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	55.1	J	µg/kg dry	77.7	41.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	53.2	J	µg/kg dry	77.7	28.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 77.7	U	µg/kg dry	77.7	37.6	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	35.7	J	µg/kg dry	77.7	31.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	31.8	J	µg/kg dry	77.7	30.4	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 384	U	µg/kg dry	384	80.7	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 384	U	µg/kg dry	384	31.5	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 384	U	µg/kg dry	384	34.1	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 194	U	µg/kg dry	194	27.9	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 194	U	µg/kg dry	194	29.9	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	139	J	µg/kg dry	194	48.0	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 384	U	µg/kg dry	384	36.0	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 384	U	µg/kg dry	384	44.8	1	"	"	"	"	"	X
86-74-8	Carbazole	< 194	U	µg/kg dry	194	109	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 384	U	µg/kg dry	384	36.7	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 194	U	µg/kg dry	194	42.0	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 384	U	µg/kg dry	384	35.5	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 194	U	µg/kg dry	194	34.6	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 384	U	µg/kg dry	384	45.7	1	"	"	"	"	"	X
218-01-9	Chrysene	50.5	J	µg/kg dry	77.7	38.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 77.7	U	µg/kg dry	77.7	29.8	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 194	U	µg/kg dry	194	29.6	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 384	U	µg/kg dry	384	33.5	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 384	U	µg/kg dry	384	33.5	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 384	U	µg/kg dry	384	35.6	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 384	U	µg/kg dry	384	58.5	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 194	U	µg/kg dry	194	36.4	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 384	U	µg/kg dry	384	47.5	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 384	U	µg/kg dry	384	42.0	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 384	U	µg/kg dry	384	27.5	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 384	U	µg/kg dry	384	40.8	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 384	U	µg/kg dry	384	49.3	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 384	U	µg/kg dry	384	39.1	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 194	U	µg/kg dry	194	75.2	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 194	U	µg/kg dry	194	43.8	1	"	"	"	"	"	X

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Sample Identification

B-14 (5-7)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-03	60558675	Soil	08-Oct-18 09:40	09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 384	U	µg/kg dry	384	43.4	1	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	74.5	J	µg/kg dry	77.7	41.0	1	"	"	"	"	"	X
86-73-7	Fluorene	< 77.7	U	µg/kg dry	77.7	39.5	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 194	U	µg/kg dry	194	38.3	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 194	U	µg/kg dry	194	46.5	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 194	U	µg/kg dry	194	26.4	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 194	U	µg/kg dry	194	41.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	28.3	J	µg/kg dry	77.7	27.9	1	"	"	"	"	"	X
78-59-1	Isophorone	< 194	U	µg/kg dry	194	36.5	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 77.7	U	µg/kg dry	77.7	46.9	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 384	U	µg/kg dry	384	32.7	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 384	U	µg/kg dry	384	37.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 77.7	U	µg/kg dry	77.7	36.2	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 384	U	µg/kg dry	384	32.6	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 384	U	µg/kg dry	384	52.5	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 194	U	µg/kg dry	194	59.9	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 194	U	µg/kg dry	194	35.4	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 194	U	µg/kg dry	194	32.3	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1540	U	µg/kg dry	1540	62.1	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 194	U	µg/kg dry	194	36.1	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 194	U	µg/kg dry	194	37.9	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 384	U	µg/kg dry	384	41.7	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 384	U	µg/kg dry	384	41.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	43.5	J	µg/kg dry	77.7	36.1	1	"	"	"	"	"	X
108-95-2	Phenol	< 384	U	µg/kg dry	384	25.3	1	"	"	"	"	"	X
129-00-0	Pyrene	79.6		µg/kg dry	77.7	43.3	1	"	"	"	"	"	X
110-86-1	Pyridine	< 384	U	µg/kg dry	384	57.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 384	U	µg/kg dry	384	38.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 77.7	U	µg/kg dry	77.7	38.2	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 384	U	µg/kg dry	384	34.6	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 194	U	µg/kg dry	194	34.7	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 384	U	µg/kg dry	384	60.7	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 384	U	µg/kg dry	384	37.3	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	73			30-130 %	"	"	"	"	"	"	"
367-12-4	2-Fluorophenol	56			30-130 %	"	"	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	75			30-130 %	"	"	"	"	"	"	"
4165-62-2	Phenol-d5	80			30-130 %	"	"	"	"	"	"	"
1718-51-0	Terphenyl-dl4	100			30-130 %	"	"	"	"	"	"	"
118-79-6	2,4,6-Tribromophenol	21	SAC		30-130 %	"	"	"	"	"	"	"

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 22.9	U	µg/kg dry	22.9	10.3	1	SW846 8082A	16-Oct-18	17-Oct-18	RF	1813738	X

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Sample Identification

B-14 (5-7)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-03	60558675	Soil	08-Oct-18 09:40	09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCPolychlorinated Biphenyls

11104-28-2	Aroclor-1221	< 22.9	U	µg/kg dry	22.9	12.2	1	SW846 8082A	16-Oct-18	17-Oct-18	RF	1813738	X
11141-16-5	Aroclor-1232	< 22.9	U	µg/kg dry	22.9	11.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.9	U	µg/kg dry	22.9	22.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.9	U	µg/kg dry	22.9	20.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.9	U	µg/kg dry	22.9	15.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.9	U	µg/kg dry	22.9	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.9	U	µg/kg dry	22.9	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.9	U	µg/kg dry	22.9	10.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.0	%				1	SM2540 G (11) Mod.	09-Oct-18	09-Oct-18	BD	1813459

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.88	1	SW8260C	08-Oct-18 09:18	10-Oct-18 17:32	11301	451348A
71-55-6	1,1,1-Trichloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"
591-78-6	2-Hexanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"

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Sample Identification

B-14 (5-7)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-03	60558675	Soil	08-Oct-18 09:40	09-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses

Analysis performed by Phoenix Environmental Labs, Inc. *- CT007

106-43-4	4-Chlorotoluene	< 4.4		ug/kg	4.4	0.44	1	SW8260C	08-Oct-18 09:18	10-Oct-18 17:32	11301	451348A	
108-10-1	4-Methyl-2-pentanone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
67-64-1	Acetone	10	S, J.	ug/kg	22	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 8.8		ug/kg	8.8	0.44	1	"	"	"	"	"	
71-43-2	Benzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.4		ug/kg	4.4	1.8	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	4.4	J.	ug/kg	4.4	0.88	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 22		ug/kg	22	4.4	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 8.8		ug/kg	8.8	0.88	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 8.8		ug/kg	8.8	4.4	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
100-42-5	Styrene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 8.8		ug/kg	8.8	2.2	1	"	"	"	"	"	
108-88-3	Toluene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.4		ug/kg	4.4	4.4	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	

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Sample Identification

B-14 (5-7)	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC50933-03	60558675	Soil	08-Oct-18 09:40	09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

110-57-6	trans-1,4-dichloro-2-buten e	< 8.8		ug/kg	8.8	2.2	1	SW8260C	08-Oct-18 09:18	10-Oct-18 17:32	11301	451348A	
79-01-6	Trichloroethene	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.4		ug/kg	4.4	0.88	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.4		ug/kg	4.4	0.44	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	88			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	87			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	81	%					1	SW846-%Solid	"	09-Oct-18 20:08	11301	'[none]'	

Sample Identification

GW-8

SC50933-04

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

08-Oct-18 11:00

Received

09-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	1.06	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	1.12	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	0.480	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.85	U	µg/l	4.85	0.939	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	4.44	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.844	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.697	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.650	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.680	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.953	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	1.02	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.85	U	µg/l	4.85	0.849	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.85	U	µg/l	4.85	0.703	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.910	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.453	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.809	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	1.31	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	1.08	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.483	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.909	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.658	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	1.18	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.65	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.53	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	1.47	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 4.85	U	µg/l	4.85	0.822	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.913	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	1.76	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	1.69	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.85	U	µg/l	4.85	0.603	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85	1.05	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.85	U	µg/l	4.85	1.17	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.16	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X

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Sample Identification

GW-8

SC50933-04

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

08-Oct-18 11:00

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 4.85	U	µg/l	4.85	1.22	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.990	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.945	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	1.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	1.48	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.85	U	µg/l	4.85	1.62	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.564	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.793	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.60	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	1.03	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	1.10	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.85	U	µg/l	4.85	1.32	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.487	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.617	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.611	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.85	U	µg/l	4.85	1.25	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.696	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.4	U	µg/l	19.4	0.756	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.582	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85	1.00	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.981	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.754	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	1.14	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	1.21	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.959	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.395	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	1.52	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.85	U	µg/l	4.85	1.15	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.758	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.679	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.780	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	1.07	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	60			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	38			15-110 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	79			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	23			15-110 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	81			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	73			15-110 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3510C

12674-11-2	Aroclor-1016	< 0.190	U	µg/l	0.190	0.0990	1	SW846 8082A	15-Oct-18	16-Oct-18	TA	1813679	X

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Sample Identification

GW-8

SC50933-04

Client Project #

60558675

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
11104-28-2	Aroclor-1221	< 0.190	U	µg/l	0.190	0.110	1	SW846 8082A	15-Oct-18	16-Oct-18	TA	1813679	X
11141-16-5	Aroclor-1232	< 0.190	U	µg/l	0.190	0.106	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 0.190	U	µg/l	0.190	0.102	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 0.190	U	µg/l	0.190	0.130	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 0.190	U	µg/l	0.190	0.110	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 0.190	U	µg/l	0.190	0.0810	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 0.190	U	µg/l	0.190	0.0853	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 0.190	U	µg/l	0.190	0.0871	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	08-Oct-18 09:18	10-Oct-18 15:14	11301	451374A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	

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Sample Identification

GW-8

SC50933-04

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

08-Oct-18 11:00

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

67-64-1	Acetone	< 25		ug/l	25	2.5	1	SW8260C	08-Oct-18 09:18	10-Oct-18 15:14	11301	451374A	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

GW-8

SC50933-04

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

08-Oct-18 11:00

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	08-Oct-18 09:18	10-Oct-18 15:14	11301	451374A	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	102			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	103			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	98			70-130 %			"	"	"	"	"	

Sample Identification

FB20181008 PCB

SC50933-05

Client Project #

60558675

Matrix

Aqueous

Collection Date/Time

08-Oct-18 10:05

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3510C

12674-11-2	Aroclor-1016	< 0.189	U	µg/l	0.189	0.0981	1	SW846 8082A	15-Oct-18	16-Oct-18	TA	1813679	X
11104-28-2	Aroclor-1221	< 0.189	U	µg/l	0.189	0.108	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 0.189	U	µg/l	0.189	0.105	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 0.189	U	µg/l	0.189	0.101	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 0.189	U	µg/l	0.189	0.128	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 0.189	U	µg/l	0.189	0.109	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 0.189	U	µg/l	0.189	0.0803	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 0.189	U	µg/l	0.189	0.0845	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 0.189	U	µg/l	0.189	0.0863	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

Sample Identification

TB-W

SC50933-06

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

08-Oct-18 00:00

Received

09-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	08-Oct-18 09:18	10-Oct-18 10:21	11301	451374A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	

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Sample Identification

TB-W

SC50933-06

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

08-Oct-18 00:00

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	08-Oct-18 09:18	10-Oct-18 10:21	11301	451374A	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	93			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	101			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	100			70-130 %		"	"	"	"	"	

Sample Identification**B-14A (0-2)**

SC50933-07

Client Project #

60558675

Matrix

Soil

Collection Date/Time

08-Oct-18 14:20

Received

09-Oct-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 4530	U, D	µg/kg dry	4530	2260	50	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
208-96-8	Acenaphthylene	< 4530	U, D	µg/kg dry	4530	2240	50	"	"	"	"	"	X
62-53-3	Aniline	< 22400	U, D	µg/kg dry	22400	1610	50	"	"	"	"	"	X
120-12-7	Anthracene	< 4530	U, D	µg/kg dry	4530	2170	50	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 22400	U, D	µg/kg dry	22400	2210	50	"	"	"	"	"	
92-87-5	Benzidine	< 44900	U, D	µg/kg dry	44900	4510	50	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4530	U, D	µg/kg dry	4530	2390	50	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4530	U, D	µg/kg dry	4530	1690	50	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4530	U, D	µg/kg dry	4530	2200	50	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4530	U, D	µg/kg dry	4530	1820	50	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4530	U, D	µg/kg dry	4530	1770	50	"	"	"	"	"	X
65-85-0	Benzoic acid	< 22400	U, D	µg/kg dry	22400	4710	50	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 22400	U, D	µg/kg dry	22400	1840	50	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 22400	U, D	µg/kg dry	22400	1990	50	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 11400	U, D	µg/kg dry	11400	1630	50	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 11400	U, D	µg/kg dry	11400	1750	50	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 11400	U, D	µg/kg dry	11400	2800	50	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 22400	U, D	µg/kg dry	22400	2100	50	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 22400	U, D	µg/kg dry	22400	2620	50	"	"	"	"	"	X
86-74-8	Carbazole	< 11400	U, D	µg/kg dry	11400	6330	50	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 22400	U, D	µg/kg dry	22400	2140	50	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 11400	U, D	µg/kg dry	11400	2450	50	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 22400	U, D	µg/kg dry	22400	2070	50	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 11400	U, D	µg/kg dry	11400	2020	50	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 22400	U, D	µg/kg dry	22400	2670	50	"	"	"	"	"	X
218-01-9	Chrysene	< 4530	U, D	µg/kg dry	4530	2260	50	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4530	U, D	µg/kg dry	4530	1740	50	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 11400	U, D	µg/kg dry	11400	1730	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 22400	U, D	µg/kg dry	22400	1960	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 22400	U, D	µg/kg dry	22400	1960	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 22400	U, D	µg/kg dry	22400	2080	50	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 22400	U, D	µg/kg dry	22400	3410	50	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 11400	U, D	µg/kg dry	11400	2120	50	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 22400	U, D	µg/kg dry	22400	2770	50	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 22400	U, D	µg/kg dry	22400	2450	50	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 22400	U, D	µg/kg dry	22400	1600	50	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 22400	U, D	µg/kg dry	22400	2380	50	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 22400	U, D	µg/kg dry	22400	2880	50	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 22400	U, D	µg/kg dry	22400	2280	50	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 11400	U, D	µg/kg dry	11400	4390	50	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 11400	U, D	µg/kg dry	11400	2560	50	"	"	"	"	"	X

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Sample Identification**B-14A (0-2)**

SC50933-07

Client Project #

60558675

Matrix

Soil

Collection Date/Time

08-Oct-18 14:20

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

117-84-0	Di-n-octyl phthalate	< 22400	U, D	µg/kg dry	22400	2540	50	SW846 8270D	16-Oct-18	19-Oct-18	MSL	1813739	X
206-44-0	Fluoranthene	< 4530	U, D	µg/kg dry	4530	2400	50	"	"	"	"	"	X
86-73-7	Fluorene	< 4530	U, D	µg/kg dry	4530	2300	50	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 11400	U, D	µg/kg dry	11400	2230	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 11400	U, D	µg/kg dry	11400	2710	50	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 11400	U, D	µg/kg dry	11400	1540	50	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 11400	U, D	µg/kg dry	11400	2450	50	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4530	U, D	µg/kg dry	4530	1630	50	"	"	"	"	"	X
78-59-1	Isophorone	< 11400	U, D	µg/kg dry	11400	2130	50	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4530	U, D	µg/kg dry	4530	2740	50	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 22400	U, D	µg/kg dry	22400	1910	50	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 22400	U, D	µg/kg dry	22400	2170	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 4530	U, D	µg/kg dry	4530	2110	50	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 22400	U, D	µg/kg dry	22400	1900	50	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 22400	U, D	µg/kg dry	22400	3070	50	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 11400	U, D	µg/kg dry	11400	3490	50	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 11400	U, D	µg/kg dry	11400	2070	50	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 11400	U, D	µg/kg dry	11400	1880	50	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 89700	U, D	µg/kg dry	89700	3630	50	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 11400	U, D	µg/kg dry	11400	2110	50	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 11400	U, D	µg/kg dry	11400	2210	50	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 22400	U, D	µg/kg dry	22400	2430	50	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 22400	U, D	µg/kg dry	22400	2400	50	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4530	U, D	µg/kg dry	4530	2110	50	"	"	"	"	"	X
108-95-2	Phenol	< 22400	U, D	µg/kg dry	22400	1480	50	"	"	"	"	"	X
129-00-0	Pyrene	< 4530	U, D	µg/kg dry	4530	2530	50	"	"	"	"	"	X
110-86-1	Pyridine	< 22400	U, D	µg/kg dry	22400	3350	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 22400	U, D	µg/kg dry	22400	2220	50	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4530	U, D	µg/kg dry	4530	2230	50	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 22400	U, D	µg/kg dry	22400	2020	50	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 11400	U, D	µg/kg dry	11400	2030	50	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 22400	U, D	µg/kg dry	22400	3540	50	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 22400	U, D	µg/kg dry	22400	2180	50	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	55			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	52			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	63			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	53			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	67			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	28	SAC		30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 26.7	U	µg/kg dry	26.7	12.0	1	SW846 8082A	16-Oct-18	17-Oct-18	RF	1813738	X

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Sample Identification**B-14A (0-2)**

SC50933-07

Client Project #

60558675

Matrix

Soil

Collection Date/Time

08-Oct-18 14:20

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCPolychlorinated Biphenyls

11104-28-2	Aroclor-1221	< 26.7	U	µg/kg dry	26.7	14.2	1	SW846 8082A	16-Oct-18	17-Oct-18	RF	1813738	X
11141-16-5	Aroclor-1232	< 26.7	U	µg/kg dry	26.7	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242 [2C]	1,660		µg/kg dry	26.7	24.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 26.7	U	µg/kg dry	26.7	24.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	56,600	E	µg/kg dry	26.7	17.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	66,500	E	µg/kg dry	26.7	26.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 26.7	U	µg/kg dry	26.7	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 26.7	U	µg/kg dry	26.7	23.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 26.7	U	µg/kg dry	26.7	12.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

Re-analysis of Polychlorinated Biphenyls

GS1

Prepared by method SW846 3546

12674-11-2	Aroclor-1016	< 2670	U, D	µg/kg dry	2670	1200	100	SW846 8082A	16-Oct-18	18-Oct-18	RF	1813738	X
11104-28-2	Aroclor-1221	< 2670	U, D	µg/kg dry	2670	1420	100	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 2670	U, D	µg/kg dry	2670	1340	100	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 2670	U, D	µg/kg dry	2670	2640	100	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 2670	U, D	µg/kg dry	2670	2440	100	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	61,000	D	µg/kg dry	2670	2600	100	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 2670	U, D	µg/kg dry	2670	1430	100	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 2670	U, D	µg/kg dry	2670	2330	100	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 2670	U, D	µg/kg dry	2670	1210	100	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)		S01, U		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]		S01, U		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)		S01, U		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]		S01, U		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	72.5			%			1	SM2540 G (11) Mod.	09-Oct-18	09-Oct-18	BD	1813459	

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 4.8		ug/kg	4.8	0.97	1	SW8260C	08-Oct-18 09:18	11-Oct-18 18:14	11301	451561A	
71-55-6	1,1,1-Trichloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	

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Sample Identification**B-14A (0-2)**

SC50933-07

Client Project #

60558675

Matrix

Soil

Collection Date/Time

08-Oct-18 14:20

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

75-34-3	1,1-Dichloroethane	< 4.8		ug/kg	4.8	0.97	1	SW8260C	08-Oct-18 09:18	11-Oct-18 18:14	11301	451561A	
75-35-4	1,1-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
67-64-1	Acetone	21	S, J.	ug/kg	24	4.8	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 9.7		ug/kg	9.7	0.48	1	"	"	"	"	"	
71-43-2	Benzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
75-25-2	Bromoform	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
74-83-9	Bromomethane	< 4.8		ug/kg	4.8	1.9	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	1.5	J.	ug/kg	4.8	0.97	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-00-3	Chloroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
67-66-3	Chloroform	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
74-87-3	Chloromethane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	

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Sample Identification**B-14A (0-2)**

SC50933-07

Client Project #

60558675

Matrix

Soil

Collection Date/Time

08-Oct-18 14:20

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

179601-23-1	m&p-Xylene	< 4.8		ug/kg	4.8	0.97	1	SW8260C	08-Oct-18 09:18	11-Oct-18 18:14	11301	451561A	
78-93-3	Methyl Ethyl Ketone	< 24		ug/kg	24	4.8	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 9.7		ug/kg	9.7	0.97	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 9.7		ug/kg	9.7	4.8	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
91-20-3	Naphthalene	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
95-47-6	o-Xylene	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
100-42-5	Styrene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 9.7		ug/kg	9.7	2.4	1	"	"	"	"	"	
108-88-3	Toluene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 4.8		ug/kg	4.8	4.8	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 9.7		ug/kg	9.7	2.4	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 4.8		ug/kg	4.8	0.97	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 4.8		ug/kg	4.8	0.48	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	93			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	87			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	97			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

Percent Solid	90		%				1	SW846-%Solid	"	09-Oct-18 20:08	11301	'[none]'	

Sample Identification

GW-8A
SC50933-08

Client Project #
60558675

Matrix
Ground Water

Collection Date/Time
08-Oct-18 15:25

Received
09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>													
<u>Prepared by method SW846 3510C</u>													
83-32-9	Acenaphthene	< 6.25	U	µg/l	6.25	1.36	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
208-96-8	Acenaphthylene	< 6.25	U	µg/l	6.25	1.44	1	"	"	"	"	"	X
62-53-3	Aniline	< 6.25	U	µg/l	6.25	0.618	1	"	"	"	"	"	X
120-12-7	Anthracene	< 6.25	U	µg/l	6.25	1.46	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 6.25	U	µg/l	6.25	1.21	1	"	"	"	"	"	
92-87-5	Benzidine	< 12.5	U	µg/l	12.5	5.71	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 6.25	U	µg/l	6.25	1.09	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 6.25	U	µg/l	6.25	0.898	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 6.25	U	µg/l	6.25	0.836	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 6.25	U	µg/l	6.25	0.875	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 6.25	U	µg/l	6.25	1.23	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 6.25	U	µg/l	6.25	2.18	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 6.25	U	µg/l	6.25	1.31	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 6.25	U	µg/l	6.25	1.09	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 6.25	U	µg/l	6.25	1.39	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 6.25	U	µg/l	6.25	1.26	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 6.25	U	µg/l	6.25	0.905	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 6.25	U	µg/l	6.25	1.17	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 6.25	U	µg/l	6.25	0.584	1	"	"	"	"	"	X
86-74-8	Carbazole	< 6.25	U	µg/l	6.25	1.95	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 6.25	U	µg/l	6.25	1.04	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 6.25	U	µg/l	6.25	1.46	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 6.25	U	µg/l	6.25	1.69	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 6.25	U	µg/l	6.25	1.39	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 6.25	U	µg/l	6.25	0.622	1	"	"	"	"	"	X
218-01-9	Chrysene	< 6.25	U	µg/l	6.25	1.17	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 6.25	U	µg/l	6.25	0.848	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 6.25	U	µg/l	6.25	1.52	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.25	U	µg/l	6.25	2.12	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.25	U	µg/l	6.25	1.98	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.25	U	µg/l	6.25	1.89	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 6.25	U	µg/l	6.25	1.06	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 6.25	U	µg/l	6.25	1.18	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 6.25	U	µg/l	6.25	2.26	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 6.25	U	µg/l	6.25	2.18	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 6.25	U	µg/l	6.25	1.32	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 6.25	U	µg/l	6.25	0.776	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 6.25	U	µg/l	6.25	1.35	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 6.25	U	µg/l	6.25	1.51	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 6.25	U	µg/l	6.25	1.49	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 6.25	U	µg/l	6.25	1.56	1	"	"	"	"	"	X

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Sample Identification

GW-8A

SC50933-08

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

08-Oct-18 15:25

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

117-84-0	Di-n-octyl phthalate	< 6.25	U	µg/l	6.25	1.58	1	SW846 8270D	11-Oct-18	17-Oct-18	MSL	1813545	X
206-44-0	Fluoranthene	< 6.25	U	µg/l	6.25	1.28	1	"	"	"	"	"	X
86-73-7	Fluorene	< 6.25	U	µg/l	6.25	1.22	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 6.25	U	µg/l	6.25	1.68	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 6.25	U	µg/l	6.25	1.90	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 6.25	U	µg/l	6.25	1.56	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 6.25	U	µg/l	6.25	2.09	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 6.25	U	µg/l	6.25	0.726	1	"	"	"	"	"	X
78-59-1	Isophorone	< 6.25	U	µg/l	6.25	1.02	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 6.25	U	µg/l	6.25	2.06	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 6.25	U	µg/l	6.25	1.32	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 12.5	U	µg/l	12.5	1.41	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.25	U	µg/l	6.25	1.70	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 6.25	U	µg/l	6.25	0.628	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 6.25	U	µg/l	6.25	0.795	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 6.25	U	µg/l	6.25	0.786	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 6.25	U	µg/l	6.25	1.61	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 6.25	U	µg/l	6.25	0.896	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 25.0	U	µg/l	25.0	0.974	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 6.25	U	µg/l	6.25	0.749	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 6.25	U	µg/l	6.25	1.29	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 6.25	U	µg/l	6.25	1.26	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 25.0	U	µg/l	25.0	0.971	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 6.25	U	µg/l	6.25	1.46	1	"	"	"	"	"	X
108-95-2	Phenol	< 6.25	U	µg/l	6.25	1.56	1	"	"	"	"	"	X
129-00-0	Pyrene	< 6.25	U	µg/l	6.25	1.24	1	"	"	"	"	"	X
110-86-1	Pyridine	< 6.25	U	µg/l	6.25	0.509	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.25	U	µg/l	6.25	1.96	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 6.25	U	µg/l	6.25	1.48	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 6.25	U	µg/l	6.25	0.976	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 6.25	U	µg/l	6.25	0.874	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 6.25	U	µg/l	6.25	1.00	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 6.25	U	µg/l	6.25	1.38	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	66			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	44			15-110 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	72			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	29			15-110 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	63			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	69			15-110 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3510C

12674-11-2	Aroclor-1016	< 0.247	U	µg/l	0.247	0.128	1	SW846 8082A	15-Oct-18	16-Oct-18	TA	1813679	X

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Sample Identification

GW-8A

SC50933-08

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

08-Oct-18 15:25

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
11104-28-2	Aroclor-1221	< 0.247	U	µg/l	0.247	0.142	1	SW846 8082A	15-Oct-18	16-Oct-18	TA	1813679	X
11141-16-5	Aroclor-1232	< 0.247	U	µg/l	0.247	0.137	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 0.247	U	µg/l	0.247	0.132	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 0.247	U	µg/l	0.247	0.168	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 0.247	U	µg/l	0.247	0.143	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 0.247	U	µg/l	0.247	0.105	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 0.247	U	µg/l	0.247	0.111	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 0.247	U	µg/l	0.247	0.113	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

Subcontracted AnalysesSubcontracted AnalysesPrepared by method SW8260C*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	08-Oct-18 09:18	10-Oct-18 15:36	11301	451374A	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60		ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	

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Sample Identification

GW-8A
SC50933-08

Client Project #
60558675

Matrix
Ground Water

Collection Date/Time
08-Oct-18 15:25

Received
09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses

*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

67-64-1	Acetone	< 25		ug/l	25	2.5	1	SW8260C	08-Oct-18 09:18	10-Oct-18 15:36	11301	451374A	
107-13-1	Acrylonitrile	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70		ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		ug/l	0.50	0.25	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5		ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0		ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40		ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0		ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

GW-8A

SC50933-08

Client Project #

60558675

Matrix

Ground Water

Collection Date/Time

08-Oct-18 15:25

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.25	1	SW8260C	08-Oct-18 09:18	10-Oct-18 15:36	11301	451374A	
76-13-1	Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	103			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	100			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	100			70-130 %			"	"	"	"	"	

Sample Identification

TB-S

SC50933-09

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

08-Oct-18 00:00

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
630-20-6	1,1,1,2-Tetrachloroethane	< 250		ug/kg	250	50	50	SW8260C	08-Oct-18 09:18	10-Oct-18 14:42	11301	451348A	
71-55-6	1,1,1-Trichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 250		ug/kg	250	50	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 250		ug/kg	250	25	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 250		ug/kg	250	50	50	"	"	"	"	"	
591-78-6	2-Hexanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 1300		ug/kg	1300	250	50	"	"	"	"	"	
67-64-1	Acetone	< 5000		ug/kg	5000	250	50	"	"	"	"	"	
107-13-1	Acrylonitrile	< 500		ug/kg	500	25	50	"	"	"	"	"	
71-43-2	Benzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
108-86-1	Bromobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-97-5	Bromochloromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-25-2	Bromoform	< 250		ug/kg	250	50	50	"	"	"	"	"	
74-83-9	Bromomethane	< 250		ug/kg	250	100	50	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 250		ug/kg	250	50	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 250		ug/kg	250	50	50	"	"	"	"	"	
108-90-7	Chlorobenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-00-3	Chloroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
67-66-3	Chloroform	< 250		ug/kg	250	25	50	"	"	"	"	"	
74-87-3	Chloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	

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Sample Identification

TB-S

SC50933-09

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

08-Oct-18 00:00

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

74-95-3	Dibromomethane	< 250		ug/kg	250	50	50	SW8260C	08-Oct-18 09:18	10-Oct-18 14:42	11301	451348A	
75-71-8	Dichlorodifluoromethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-41-4	Ethylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 3000		ug/kg	3000	250	50	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 250		ug/kg	250	50	50	"	"	"	"	"	
75-09-2	Methylene chloride	< 500		ug/kg	500	250	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 250		ug/kg	250	50	50	"	"	"	"	"	
91-20-3	Naphthalene	< 250		ug/kg	250	50	50	"	"	"	"	"	
95-47-6	o-Xylene	< 250		ug/kg	250	50	50	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
100-42-5	Styrene	< 250		ug/kg	250	25	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 250		ug/kg	250	25	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 250		ug/kg	250	50	50	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 500		ug/kg	500	130	50	"	"	"	"	"	
108-88-3	Toluene	< 250		ug/kg	250	25	50	"	"	"	"	"	
1330-20-7	Total Xylenes	< 250		ug/kg	250	250	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 250		ug/kg	250	25	50	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 500		ug/kg	500	130	50	"	"	"	"	"	
79-01-6	Trichloroethene	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 250		ug/kg	250	50	50	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 250		ug/kg	250	25	50	"	"	"	"	"	
75-01-4	Vinyl chloride	< 250		ug/kg	250	25	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	94			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	102			70-130 %		"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	102			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	90			70-130 %		"	"	"	"	"	

Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	SW8260C LOW	"	10-Oct-18 15:03	11301	"	
71-55-6	1,1,1-Trichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

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Sample Identification

TB-S

SC50933-09

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

08-Oct-18 00:00

Received

09-Oct-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	SW8260C LOW	08-Oct-18 09:18	10-Oct-18 15:03	11301	451348A	
96-18-4	1,2,3-Trichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/kg	10	0.50	1	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/kg	5.0	2.0	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-00-3	Chloroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
67-66-3	Chloroform	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
78-93-3	Methyl Ethyl Ketone	< 25		ug/kg	25	5.0	1	"	"	"	"	"	

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Sample Identification

TB-S

SC50933-09

Client Project #

60558675

Matrix

Trip Blank

Collection Date/Time

08-Oct-18 00:00

Received

09-Oct-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/kg	10	1.0	1	SW8260C LOW	08-Oct-18 09:18	10-Oct-18 15:03	11301	451348A	
75-09-2	Methylene chloride	< 10		ug/kg	10	5.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 5.0		ug/kg	5.0	5.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-butene	< 10		ug/kg	10	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/kg	5.0	1.0	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/kg	5.0	0.50	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	93			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	98			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	99			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	87			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Blank (1813545-BLK1)	Prepared: 11-Oct-18 Analyzed: 15-Oct-18									
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3'-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Blank (1813545-BLK1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	25.9		µg/l		50.0		52	30-130		
Surrogate: 2-Fluorophenol	21.1		µg/l		50.0		42	15-110		
Surrogate: Nitrobenzene-d5	29.3		µg/l		50.0		59	30-130		
Surrogate: Phenol-d5	13.1		µg/l		50.0		26	15-110		
Surrogate: Terphenyl-dl4	48.3		µg/l		50.0		97	30-130		
Surrogate: 2,4,6-Tribromophenol	26.5		µg/l		50.0		53	15-110		
LCS (1813545-BS1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
Acenaphthene	35.5		µg/l	5.00	50.0		71	40-140		
Acenaphthylene	36.4		µg/l	5.00	50.0		73	40-140		
Aniline	24.8		µg/l	5.00	50.0		50	40-140		
Anthracene	31.6		µg/l	5.00	50.0		63	40-140		
Azobenzene/Diphenyldiazene	38.8		µg/l	5.00	50.0		78	40-140		
Benzidine	24.9		µg/l	10.0	50.0		50	40-140		
Benzo (a) anthracene	36.3		µg/l	5.00	50.0		73	40-140		
Benzo (a) pyrene	37.5		µg/l	5.00	50.0		75	40-140		
Benzo (b) fluoranthene	40.9		µg/l	5.00	50.0		82	40-140		
Benzo (g,h,i) perylene	40.9		µg/l	5.00	50.0		82	40-140		
Benzo (k) fluoranthene	35.5		µg/l	5.00	50.0		71	40-140		
Benzoic acid	22.0		µg/l	5.00	50.0		44	30-130		
Benzyl alcohol	21.5		µg/l	5.00	50.0		43	40-140		
Bis(2-chloroethoxy)methane	26.2		µg/l	5.00	50.0		52	40-140		
Bis(2-chloroethyl)ether	30.4		µg/l	5.00	50.0		61	40-140		
Bis(2-chloroisopropyl)ether	29.1		µg/l	5.00	50.0		58	40-140		
Bis(2-ethylhexyl)phthalate	43.4		µg/l	5.00	50.0		87	40-140		
4-Bromophenyl phenyl ether	31.3		µg/l	5.00	50.0		63	40-140		
Butyl benzyl phthalate	37.7		µg/l	5.00	50.0		75	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
LCS (1813545-BS1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
Carbazole	67.5		µg/l	5.00	50.0		135	40-140		
4-Chloro-3-methylphenol	35.7		µg/l	5.00	50.0		71	30-130		
4-Chloroaniline	31.3		µg/l	5.00	50.0		63	40-140		
2-Chloronaphthalene	39.7		µg/l	5.00	50.0		79	40-140		
2-Chlorophenol	30.4		µg/l	5.00	50.0		61	30-130		
4-Chlorophenyl phenyl ether	35.5		µg/l	5.00	50.0		71	40-140		
Chrysene	39.3		µg/l	5.00	50.0		79	40-140		
Dibenzo (a,h) anthracene	40.2		µg/l	5.00	50.0		80	40-140		
Dibenzofuran	36.7		µg/l	5.00	50.0		73	40-140		
1,2-Dichlorobenzene	32.7		µg/l	5.00	50.0		65	40-140		
1,3-Dichlorobenzene	31.6		µg/l	5.00	50.0		63	40-140		
1,4-Dichlorobenzene	34.1		µg/l	5.00	50.0		68	40-140		
3,3'-Dichlorobenzidine	55.5		µg/l	5.00	50.0		111	40-140		
2,4-Dichlorophenol	30.0		µg/l	5.00	50.0		60	30-130		
Diethyl phthalate	38.0		µg/l	5.00	50.0		76	40-140		
Dimethyl phthalate	36.3		µg/l	5.00	50.0		73	40-140		
2,4-Dimethylphenol	27.9		µg/l	5.00	50.0		56	30-130		
Di-n-butyl phthalate	36.9		µg/l	5.00	50.0		74	40-140		
4,6-Dinitro-2-methylphenol	36.0		µg/l	5.00	50.0		72	30-130		
2,4-Dinitrophenol	25.9		µg/l	5.00	50.0		52	30-130		
2,4-Dinitrotoluene	42.2		µg/l	5.00	50.0		84	40-140		
2,6-Dinitrotoluene	39.9		µg/l	5.00	50.0		80	40-140		
Di-n-octyl phthalate	40.7		µg/l	5.00	50.0		81	40-140		
Fluoranthene	33.2		µg/l	5.00	50.0		66	40-140		
Fluorene	33.3		µg/l	5.00	50.0		67	40-140		
Hexachlorobenzene	38.4		µg/l	5.00	50.0		77	40-140		
Hexachlorobutadiene	31.0		µg/l	5.00	50.0		62	40-140		
Hexachlorocyclopentadiene	40.3		µg/l	5.00	50.0		81	40-140		
Hexachloroethane	35.1		µg/l	5.00	50.0		70	40-140		
Indeno (1,2,3-cd) pyrene	38.0		µg/l	5.00	50.0		76	40-140		
Isophorone	30.6		µg/l	5.00	50.0		61	40-140		
2-Methylnaphthalene	40.8		µg/l	5.00	50.0		82	40-140		
2-Methylphenol	30.7		µg/l	5.00	50.0		61	30-130		
3 & 4-Methylphenol	30.5		µg/l	10.0	50.0		61	30-130		
Naphthalene	32.1		µg/l	5.00	50.0		64	40-140		
2-Nitroaniline	35.4		µg/l	5.00	50.0		71	40-140		
3-Nitroaniline	57.4		µg/l	5.00	50.0		115	40-140		
4-Nitroaniline	43.6		µg/l	5.00	50.0		87	40-140		
Nitrobenzene	39.7		µg/l	5.00	50.0		79	40-140		
2-Nitrophenol	30.5		µg/l	5.00	50.0		61	30-130		
4-Nitrophenol	19.1	J	µg/l	20.0	50.0		38	30-130		
N-Nitrosodimethylamine	29.7		µg/l	5.00	50.0		59	40-140		
N-Nitrosodi-n-propylamine	35.3		µg/l	5.00	50.0		71	40-140		
N-Nitrosodiphenylamine	40.9		µg/l	5.00	50.0		82	40-140		
Pentachlorophenol	19.9	J	µg/l	20.0	50.0		40	30-130		
Phenanthrene	37.5		µg/l	5.00	50.0		75	40-140		
Phenol	19.1		µg/l	5.00	50.0		38	30-130		
Pyrene	36.2		µg/l	5.00	50.0		72	40-140		
Pyridine	27.8		µg/l	5.00	50.0		56	40-140		
1,2,4-Trichlorobenzene	33.1		µg/l	5.00	50.0		66	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
LCS (1813545-BS1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
1-Methylnaphthalene	32.5		µg/l	5.00	50.0		65	40-140		
2,4,5-Trichlorophenol	37.3		µg/l	5.00	50.0		75	30-130		
2,4,6-Trichlorophenol	33.2		µg/l	5.00	50.0		66	30-130		
Pentachloronitrobenzene	39.1		µg/l	5.00	50.0		78	40-140		
1,2,4,5-Tetrachlorobenzene	32.4		µg/l	5.00	50.0		65	40-140		
Surrogate: 2-Fluorobiphenyl	38.3		µg/l		50.0		77	30-130		
Surrogate: 2-Fluorophenol	25.6		µg/l		50.0		51	15-110		
Surrogate: Nitrobenzene-d5	36.5		µg/l		50.0		73	30-130		
Surrogate: Phenol-d5	19.8		µg/l		50.0		40	15-110		
Surrogate: Terphenyl-d14	46.1		µg/l		50.0		92	30-130		
Surrogate: 2,4,6-Tribromophenol	35.9		µg/l		50.0		72	15-110		
LCS Dup (1813545-BSD1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
Acenaphthene	34.5		µg/l	5.00	50.0		69	40-140	3	20
Acenaphthylene	34.5		µg/l	5.00	50.0		69	40-140	5	20
Aniline	28.6		µg/l	5.00	50.0		57	40-140	14	20
Anthracene	32.8		µg/l	5.00	50.0		66	40-140	4	20
Azobenzene/Diphenyldiazene	36.4		µg/l	5.00	50.0		73	40-140	6	20
Benzidine	32.0	QR9	µg/l	10.0	50.0		64	40-140	25	20
Benzo (a) anthracene	34.9		µg/l	5.00	50.0		70	40-140	4	20
Benzo (a) pyrene	36.8		µg/l	5.00	50.0		74	40-140	2	20
Benzo (b) fluoranthene	39.3		µg/l	5.00	50.0		79	40-140	4	20
Benzo (g,h,i) perylene	37.1		µg/l	5.00	50.0		74	40-140	10	20
Benzo (k) fluoranthene	34.6		µg/l	5.00	50.0		69	40-140	3	20
Benzoic acid	21.8		µg/l	5.00	50.0		44	30-130	1	20
Benzyl alcohol	23.0		µg/l	5.00	50.0		46	40-140	7	20
Bis(2-chloroethoxy)methane	26.2		µg/l	5.00	50.0		52	40-140	0.04	20
Bis(2-chloroethyl)ether	28.2		µg/l	5.00	50.0		56	40-140	7	20
Bis(2-chloroisopropyl)ether	30.5		µg/l	5.00	50.0		61	40-140	5	20
Bis(2-ethylhexyl)phthalate	39.1		µg/l	5.00	50.0		78	40-140	11	20
4-Bromophenyl phenyl ether	30.8		µg/l	5.00	50.0		62	40-140	1	20
Butyl benzyl phthalate	36.8		µg/l	5.00	50.0		74	40-140	3	20
Carbazole	69.0		µg/l	5.00	50.0		138	40-140	2	20
4-Chloro-3-methylphenol	37.6		µg/l	5.00	50.0		75	30-130	5	20
4-Chloroaniline	35.4		µg/l	5.00	50.0		71	40-140	12	20
2-Chloronaphthalene	35.1		µg/l	5.00	50.0		70	40-140	12	20
2-Chlorophenol	29.6		µg/l	5.00	50.0		59	30-130	3	20
4-Chlorophenyl phenyl ether	35.2		µg/l	5.00	50.0		70	40-140	1	20
Chrysene	39.9		µg/l	5.00	50.0		80	40-140	1	20
Dibenzo (a,h) anthracene	39.5		µg/l	5.00	50.0		79	40-140	2	20
Dibenzofuran	36.2		µg/l	5.00	50.0		72	40-140	1	20
1,2-Dichlorobenzene	33.4		µg/l	5.00	50.0		67	40-140	2	20
1,3-Dichlorobenzene	30.2		µg/l	5.00	50.0		60	40-140	4	20
1,4-Dichlorobenzene	33.1		µg/l	5.00	50.0		66	40-140	3	20
3,3'-Dichlorobenzidine	55.2		µg/l	5.00	50.0		110	40-140	0.6	20
2,4-Dichlorophenol	29.4		µg/l	5.00	50.0		59	30-130	2	20
Diethyl phthalate	38.4		µg/l	5.00	50.0		77	40-140	1	20
Dimethyl phthalate	34.6		µg/l	5.00	50.0		69	40-140	5	20
2,4-Dimethylphenol	27.4		µg/l	5.00	50.0		55	30-130	2	20
Di-n-butyl phthalate	36.7		µg/l	5.00	50.0		73	40-140	0.5	20
4,6-Dinitro-2-methylphenol	34.0		µg/l	5.00	50.0		68	30-130	6	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
LCS Dup (1813545-BSD1)					Prepared: 11-Oct-18 Analyzed: 15-Oct-18					
2,4-Dinitrophenol	24.8		µg/l	5.00	50.0		50	30-130	5	20
2,4-Dinitrotoluene	41.4		µg/l	5.00	50.0		83	40-140	2	20
2,6-Dinitrotoluene	41.3		µg/l	5.00	50.0		83	40-140	3	20
Di-n-octyl phthalate	40.1		µg/l	5.00	50.0		80	40-140	2	20
Fluoranthene	33.2		µg/l	5.00	50.0		66	40-140	0.2	20
Fluorene	33.2		µg/l	5.00	50.0		66	40-140	0.4	20
Hexachlorobenzene	37.4		µg/l	5.00	50.0		75	40-140	3	20
Hexachlorobutadiene	30.3		µg/l	5.00	50.0		61	40-140	3	20
Hexachlorocyclopentadiene	33.9		µg/l	5.00	50.0		68	40-140	17	20
Hexachloroethane	36.1		µg/l	5.00	50.0		72	40-140	3	20
Indeno (1,2,3-cd) pyrene	36.4		µg/l	5.00	50.0		73	40-140	5	20
Isophorone	30.9		µg/l	5.00	50.0		62	40-140	1	20
2-Methylnaphthalene	44.8		µg/l	5.00	50.0		90	40-140	9	20
2-Methylphenol	32.0		µg/l	5.00	50.0		64	30-130	4	20
3 & 4-Methylphenol	31.4		µg/l	10.0	50.0		63	30-130	3	20
Naphthalene	30.9		µg/l	5.00	50.0		62	40-140	4	20
2-Nitroaniline	35.1		µg/l	5.00	50.0		70	40-140	0.8	20
3-Nitroaniline	59.6		µg/l	5.00	50.0		119	40-140	4	20
4-Nitroaniline	45.7		µg/l	5.00	50.0		91	40-140	5	20
Nitrobenzene	41.2		µg/l	5.00	50.0		82	40-140	4	20
2-Nitrophenol	30.2		µg/l	5.00	50.0		60	30-130	1	20
4-Nitrophenol	19.0	J	µg/l	20.0	50.0		38	30-130	0.8	20
N-Nitrosodimethylamine	28.5		µg/l	5.00	50.0		57	40-140	4	20
N-Nitrosodi-n-propylamine	36.5		µg/l	5.00	50.0		73	40-140	3	20
N-Nitrosodiphenylamine	38.6		µg/l	5.00	50.0		77	40-140	6	20
Pentachlorophenol	19.0	J	µg/l	20.0	50.0		38	30-130	5	20
Phenanthrene	35.6		µg/l	5.00	50.0		71	40-140	5	20
Phenol	18.1		µg/l	5.00	50.0		36	30-130	5	20
Pyrene	34.7		µg/l	5.00	50.0		69	40-140	4	20
Pyridine	26.4		µg/l	5.00	50.0		53	40-140	5	20
1,2,4-Trichlorobenzene	31.6		µg/l	5.00	50.0		63	40-140	5	20
1-Methylnaphthalene	29.6		µg/l	5.00	50.0		59	40-140	9	20
2,4,5-Trichlorophenol	32.6		µg/l	5.00	50.0		65	30-130	13	20
2,4,6-Trichlorophenol	29.4		µg/l	5.00	50.0		59	30-130	12	20
Pentachloronitrobenzene	39.8		µg/l	5.00	50.0		80	40-140	2	20
1,2,4,5-Tetrachlorobenzene	30.9		µg/l	5.00	50.0		62	40-140	5	20
Surrogate: 2-Fluorobiphenyl	32.9		µg/l		50.0		66	30-130		
Surrogate: 2-Fluorophenol	24.0		µg/l		50.0		48	15-110		
Surrogate: Nitrobenzene-d5	37.3		µg/l		50.0		75	30-130		
Surrogate: Phenol-d5	19.1		µg/l		50.0		38	15-110		
Surrogate: Terphenyl-dl4	41.8		µg/l		50.0		84	30-130		
Surrogate: 2,4,6-Tribromophenol	35.2		µg/l		50.0		70	15-110		
Duplicate (1813545-DUP1)				Source: SC50933-04		Prepared: 11-Oct-18 Analyzed: 17-Oct-18				
Acenaphthene	< 4.76	U	µg/l	4.76		BRL				20
Acenaphthylene	< 4.76	U	µg/l	4.76		BRL				20
Aniline	< 4.76	U	µg/l	4.76		BRL				20
Anthracene	< 4.76	U	µg/l	4.76		BRL				20
Azobenzene/Diphenyldiazene	< 4.76	U	µg/l	4.76		BRL				20
Benzidine	< 9.52	U	µg/l	9.52		BRL				20
Benzo (a) anthracene	< 4.76	U	µg/l	4.76		BRL				20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Duplicate (1813545-DUP1)				Source: SC50933-04				Prepared: 11-Oct-18 Analyzed: 17-Oct-18		
Benzo (a) pyrene	< 4.76	U	µg/l	4.76		BRL				20
Benzo (b) fluoranthene	< 4.76	U	µg/l	4.76		BRL				20
Benzo (g,h,i) perylene	< 4.76	U	µg/l	4.76		BRL				20
Benzo (k) fluoranthene	< 4.76	U	µg/l	4.76		BRL				20
Benzoic acid	< 4.76	U	µg/l	4.76		BRL				20
Benzyl alcohol	< 4.76	U	µg/l	4.76		BRL				20
Bis(2-chloroethoxy)methane	< 4.76	U	µg/l	4.76		BRL				20
Bis(2-chloroethyl)ether	< 4.76	U	µg/l	4.76		BRL				20
Bis(2-chloroisopropyl)ether	< 4.76	U	µg/l	4.76		BRL				20
Bis(2-ethylhexyl)phthalate	< 4.76	U	µg/l	4.76		BRL				20
4-Bromophenyl phenyl ether	< 4.76	U	µg/l	4.76		BRL				20
Butyl benzyl phthalate	< 4.76	U	µg/l	4.76		BRL				20
Carbazole	< 4.76	U	µg/l	4.76		BRL				20
4-Chloro-3-methylphenol	< 4.76	U	µg/l	4.76		BRL				20
4-Chloroaniline	< 4.76	U	µg/l	4.76		BRL				20
2-Chloronaphthalene	< 4.76	U	µg/l	4.76		BRL				20
2-Chlorophenol	< 4.76	U	µg/l	4.76		BRL				20
4-Chlorophenyl phenyl ether	< 4.76	U	µg/l	4.76		BRL				20
Chrysene	< 4.76	U	µg/l	4.76		BRL				20
Dibenzo (a,h) anthracene	< 4.76	U	µg/l	4.76		BRL				20
Dibenzofuran	< 4.76	U	µg/l	4.76		BRL				20
1,2-Dichlorobenzene	< 4.76	U	µg/l	4.76		BRL				20
1,3-Dichlorobenzene	< 4.76	U	µg/l	4.76		BRL				20
1,4-Dichlorobenzene	< 4.76	U	µg/l	4.76		BRL				20
3,3'-Dichlorobenzidine	< 4.76	U	µg/l	4.76		BRL				20
2,4-Dichlorophenol	< 4.76	U	µg/l	4.76		BRL				20
Diethyl phthalate	< 4.76	U	µg/l	4.76		BRL				20
Dimethyl phthalate	< 4.76	U	µg/l	4.76		BRL				20
2,4-Dimethylphenol	< 4.76	U	µg/l	4.76		BRL				20
Di-n-butyl phthalate	< 4.76	U	µg/l	4.76		BRL				20
4,6-Dinitro-2-methylphenol	< 4.76	U	µg/l	4.76		BRL				20
2,4-Dinitrophenol	< 4.76	U	µg/l	4.76		BRL				20
2,4-Dinitrotoluene	< 4.76	U	µg/l	4.76		BRL				20
2,6-Dinitrotoluene	< 4.76	U	µg/l	4.76		BRL				20
Di-n-octyl phthalate	< 4.76	U	µg/l	4.76		BRL				20
Fluoranthene	< 4.76	U	µg/l	4.76		BRL				20
Fluorene	< 4.76	U	µg/l	4.76		BRL				20
Hexachlorobenzene	< 4.76	U	µg/l	4.76		BRL				20
Hexachlorobutadiene	< 4.76	U	µg/l	4.76		BRL				20
Hexachlorocyclopentadiene	< 4.76	U	µg/l	4.76		BRL				20
Hexachloroethane	< 4.76	U	µg/l	4.76		BRL				20
Indeno (1,2,3-cd) pyrene	< 4.76	U	µg/l	4.76		BRL				20
Isophorone	< 4.76	U	µg/l	4.76		BRL				20
2-Methylnaphthalene	< 4.76	U	µg/l	4.76		BRL				20
2-Methylphenol	< 4.76	U	µg/l	4.76		BRL				20
3 & 4-Methylphenol	< 9.52	U	µg/l	9.52		BRL				20
Naphthalene	< 4.76	U	µg/l	4.76		BRL				20
2-Nitroaniline	< 4.76	U	µg/l	4.76		BRL				20
3-Nitroaniline	< 4.76	U	µg/l	4.76		BRL				20
4-Nitroaniline	< 4.76	U	µg/l	4.76		BRL				20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813545 - SW846 3510C										
Duplicate (1813545-DUP1)						Source: SC50933-04		Prepared: 11-Oct-18 Analyzed: 17-Oct-18		
Nitrobenzene	< 4.76	U	µg/l	4.76		BRL				20
2-Nitrophenol	< 4.76	U	µg/l	4.76		BRL				20
4-Nitrophenol	< 19.0	U	µg/l	19.0		BRL				20
N-Nitrosodimethylamine	< 4.76	U	µg/l	4.76		BRL				20
N-Nitrosodi-n-propylamine	< 4.76	U	µg/l	4.76		BRL				20
N-Nitrosodiphenylamine	< 4.76	U	µg/l	4.76		BRL				20
Pentachlorophenol	< 19.0	U	µg/l	19.0		BRL				20
Phenanthrene	< 4.76	U	µg/l	4.76		BRL				20
Phenol	< 4.76	U	µg/l	4.76		BRL				20
Pyrene	< 4.76	U	µg/l	4.76		BRL				20
Pyridine	< 4.76	U	µg/l	4.76		BRL				20
1,2,4-Trichlorobenzene	< 4.76	U	µg/l	4.76		BRL				20
1-Methylnaphthalene	< 4.76	U	µg/l	4.76		BRL				20
2,4,5-Trichlorophenol	< 4.76	U	µg/l	4.76		BRL				20
2,4,6-Trichlorophenol	< 4.76	U	µg/l	4.76		BRL				20
Pentachloronitrobenzene	< 4.76	U	µg/l	4.76		BRL				20
1,2,4,5-Tetrachlorobenzene	< 4.76	U	µg/l	4.76		BRL				20
Surrogate: 2-Fluorobiphenyl	32.3		µg/l		47.6		68	30-130		
Surrogate: 2-Fluorophenol	16.8		µg/l		47.6		35	15-110		
Surrogate: Nitrobenzene-d5	37.4		µg/l		47.6		79	30-130		
Surrogate: Phenol-d5	10.1		µg/l		47.6		21	15-110		
Surrogate: Terphenyl-dl4	26.6		µg/l		47.6		56	30-130		
Surrogate: 2,4,6-Tribromophenol	30.9		µg/l		47.6		65	15-110		
Batch 1813739 - SW846 3546										
Blank (1813739-BLK1)								Prepared: 16-Oct-18 Analyzed: 18-Oct-18		
Acenaphthene	< 66.3	U	µg/kg wet	66.3						
Acenaphthylene	< 66.3	U	µg/kg wet	66.3						
Aniline	< 328	U	µg/kg wet	328						
Anthracene	< 66.3	U	µg/kg wet	66.3						
Azobenzene/Diphenyldiazene	< 328	U	µg/kg wet	328						
Benzidine	< 657	U	µg/kg wet	657						
Benzo (a) anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) pyrene	< 66.3	U	µg/kg wet	66.3						
Benzo (b) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzo (g,h,i) perylene	< 66.3	U	µg/kg wet	66.3						
Benzo (k) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzoic acid	< 328	U	µg/kg wet	328						
Benzyl alcohol	< 328	U	µg/kg wet	328						
Bis(2-chloroethoxy)methane	< 328	U	µg/kg wet	328						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 328	U	µg/kg wet	328						
Butyl benzyl phthalate	< 328	U	µg/kg wet	328						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 328	U	µg/kg wet	328						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 328	U	µg/kg wet	328						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 328	U	µg/kg wet	328						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813739 - SW846 3546										
<u>Blank (1813739-BLK1)</u>	<u>Prepared: 16-Oct-18 Analyzed: 18-Oct-18</u>									
Chrysene	< 66.3	U	µg/kg wet	66.3						
Dibenzo (a,h) anthracene	< 66.3	U	µg/kg wet	66.3						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,3-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,4-Dichlorobenzene	< 328	U	µg/kg wet	328						
3,3'-Dichlorobenzidine	< 328	U	µg/kg wet	328						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						
Diethyl phthalate	< 328	U	µg/kg wet	328						
Dimethyl phthalate	< 328	U	µg/kg wet	328						
2,4-Dimethylphenol	< 328	U	µg/kg wet	328						
Di-n-butyl phthalate	< 328	U	µg/kg wet	328						
4,6-Dinitro-2-methylphenol	< 328	U	µg/kg wet	328						
2,4-Dinitrophenol	< 328	U	µg/kg wet	328						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 328	U	µg/kg wet	328						
Fluoranthene	< 66.3	U	µg/kg wet	66.3						
Fluorene	< 66.3	U	µg/kg wet	66.3						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.3	U	µg/kg wet	66.3						
Isophorone	< 166	U	µg/kg wet	166						
2-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2-Methylphenol	< 328	U	µg/kg wet	328						
3 & 4-Methylphenol	< 328	U	µg/kg wet	328						
Naphthalene	< 66.3	U	µg/kg wet	66.3						
2-Nitroaniline	< 328	U	µg/kg wet	328						
3-Nitroaniline	< 328	U	µg/kg wet	328						
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 328	U	µg/kg wet	328						
Pentachlorophenol	< 328	U	µg/kg wet	328						
Phenanthrene	< 66.3	U	µg/kg wet	66.3						
Phenol	< 328	U	µg/kg wet	328						
Pyrene	< 66.3	U	µg/kg wet	66.3						
Pyridine	< 328	U	µg/kg wet	328						
1,2,4-Trichlorobenzene	< 328	U	µg/kg wet	328						
1-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2,4,5-Trichlorophenol	< 328	U	µg/kg wet	328						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 328	U	µg/kg wet	328						
1,2,4,5-Tetrachlorobenzene	< 328	U	µg/kg wet	328						
Surrogate: 2-Fluorobiphenyl	1320		µg/kg wet		1660		80	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
Blank (1813739-BLK1)					Prepared: 16-Oct-18 Analyzed: 18-Oct-18					
Surrogate: 2-Fluorophenol	1270		µg/kg wet		1660		76	30-130		
Surrogate: Nitrobenzene-d5	1400		µg/kg wet		1660		85	30-130		
Surrogate: Phenol-d5	1350		µg/kg wet		1660		81	30-130		
Surrogate: Terphenyl-d14	1560		µg/kg wet		1660		94	30-130		
Surrogate: 2,4,6-Tribromophenol	962		µg/kg wet		1660		58	30-130		
LCS (1813739-BS1)					Prepared: 16-Oct-18 Analyzed: 18-Oct-18					
Acenaphthene	1540		µg/kg wet	66.4	1660		93	40-140		
Acenaphthylene	1570		µg/kg wet	66.4	1660		95	40-140		
Aniline	928		µg/kg wet	329	1660		56	40-140		
Anthracene	1390		µg/kg wet	66.4	1660		84	40-140		
Azobenzene/Diphenyldiazene	1620		µg/kg wet	329	1660		98	40-140		
Benzidine	2470	QC2	µg/kg wet	657	1660		149	40-140		
Benzo (a) anthracene	1420		µg/kg wet	66.4	1660		86	40-140		
Benzo (a) pyrene	1310		µg/kg wet	66.4	1660		79	40-140		
Benzo (b) fluoranthene	1510		µg/kg wet	66.4	1660		91	40-140		
Benzo (g,h,i) perylene	1330		µg/kg wet	66.4	1660		80	40-140		
Benzo (k) fluoranthene	1470		µg/kg wet	66.4	1660		88	40-140		
Benzoic acid	422	QC6	µg/kg wet	329	1660		25	30-130		
Benzyl alcohol	970		µg/kg wet	329	1660		58	40-140		
Bis(2-chloroethoxy)methane	1140		µg/kg wet	329	1660		69	40-140		
Bis(2-chloroethyl)ether	1220		µg/kg wet	166	1660		73	40-140		
Bis(2-chloroisopropyl)ether	1280		µg/kg wet	166	1660		77	40-140		
Bis(2-ethylhexyl)phthalate	1680		µg/kg wet	166	1660		101	40-140		
4-Bromophenyl phenyl ether	1270		µg/kg wet	329	1660		76	40-140		
Butyl benzyl phthalate	1530		µg/kg wet	329	1660		92	40-140		
Carbazole	2900	QC2	µg/kg wet	166	1660		174	40-140		
4-Chloro-3-methylphenol	1490		µg/kg wet	329	1660		90	30-130		
4-Chloroaniline	1080		µg/kg wet	166	1660		65	40-140		
2-Chloronaphthalene	1670		µg/kg wet	329	1660		101	40-140		
2-Chlorophenol	1220		µg/kg wet	166	1660		74	30-130		
4-Chlorophenyl phenyl ether	1580		µg/kg wet	329	1660		95	40-140		
Chrysene	1580		µg/kg wet	66.4	1660		95	40-140		
Dibenzo (a,h) anthracene	1390		µg/kg wet	66.4	1660		84	40-140		
Dibenzofuran	1780		µg/kg wet	166	1660		108	40-140		
1,2-Dichlorobenzene	1390		µg/kg wet	329	1660		84	40-140		
1,3-Dichlorobenzene	1380		µg/kg wet	329	1660		83	40-140		
1,4-Dichlorobenzene	1480		µg/kg wet	329	1660		89	40-140		
3,3'-Dichlorobenzidine	2170		µg/kg wet	329	1660		131	40-140		
2,4-Dichlorophenol	1280		µg/kg wet	166	1660		77	30-130		
Diethyl phthalate	1700		µg/kg wet	329	1660		102	40-140		
Dimethyl phthalate	1600		µg/kg wet	329	1660		96	40-140		
2,4-Dimethylphenol	1330		µg/kg wet	329	1660		80	30-130		
Di-n-butyl phthalate	1410		µg/kg wet	329	1660		85	40-140		
4,6-Dinitro-2-methylphenol	1330		µg/kg wet	329	1660		80	30-130		
2,4-Dinitrophenol	771		µg/kg wet	329	1660		46	30-130		
2,4-Dinitrotoluene	1800		µg/kg wet	166	1660		109	40-140		
2,6-Dinitrotoluene	1870		µg/kg wet	166	1660		112	40-140		
Di-n-octyl phthalate	1680		µg/kg wet	329	1660		101	40-140		
Fluoranthene	1370		µg/kg wet	66.4	1660		83	40-140		
Fluorene	1560		µg/kg wet	66.4	1660		94	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
LCS (1813739-BS1)					Prepared: 16-Oct-18 Analyzed: 18-Oct-18					
Hexachlorobenzene	1620		µg/kg wet	166	1660		98	40-140		
Hexachlorobutadiene	1550		µg/kg wet	166	1660		93	40-140		
Hexachlorocyclopentadiene	1870		µg/kg wet	166	1660		113	40-140		
Hexachloroethane	1660		µg/kg wet	166	1660		100	40-140		
Indeno (1,2,3-cd) pyrene	1250		µg/kg wet	66.4	1660		76	40-140		
Isophorone	1300		µg/kg wet	166	1660		78	40-140		
2-Methylnaphthalene	1830		µg/kg wet	66.4	1660		110	40-140		
2-Methylphenol	1180		µg/kg wet	329	1660		71	30-130		
3 & 4-Methylphenol	1360		µg/kg wet	329	1660		82	30-130		
Naphthalene	1370		µg/kg wet	66.4	1660		83	40-140		
2-Nitroaniline	1500		µg/kg wet	329	1660		90	40-140		
3-Nitroaniline	1980		µg/kg wet	329	1660		119	40-140		
4-Nitroaniline	1850		µg/kg wet	166	1660		111	40-140		
Nitrobenzene	1840		µg/kg wet	166	1660		111	40-140		
2-Nitrophenol	1310		µg/kg wet	166	1660		79	30-130		
4-Nitrophenol	1250	J	µg/kg wet	1310	1660		75	30-130		
N-Nitrosodimethylamine	1540		µg/kg wet	166	1660		93	40-140		
N-Nitrosodi-n-propylamine	1420		µg/kg wet	166	1660		86	40-140		
N-Nitrosodiphenylamine	1730		µg/kg wet	329	1660		104	40-140		
Pentachlorophenol	570		µg/kg wet	329	1660		34	30-130		
Phenanthrene	1550		µg/kg wet	66.4	1660		93	40-140		
Phenol	1310		µg/kg wet	329	1660		79	30-130		
Pyrene	1430		µg/kg wet	66.4	1660		86	40-140		
Pyridine	1420		µg/kg wet	329	1660		86	40-140		
1,2,4-Trichlorobenzene	1500		µg/kg wet	329	1660		91	40-140		
1-Methylnaphthalene	1410		µg/kg wet	66.4	1660		85	40-140		
2,4,5-Trichlorophenol	1580		µg/kg wet	329	1660		95	30-130		
2,4,6-Trichlorophenol	1430		µg/kg wet	166	1660		86	30-130		
Pentachloronitrobenzene	1660		µg/kg wet	329	1660		100	40-140		
1,2,4,5-Tetrachlorobenzene	1450		µg/kg wet	329	1660		87	40-140		
Surrogate: 2-Fluorobiphenyl	1710		µg/kg wet		1660		103	30-130		
Surrogate: 2-Fluorophenol	1350		µg/kg wet		1660		82	30-130		
Surrogate: Nitrobenzene-d5	1650		µg/kg wet		1660		100	30-130		
Surrogate: Phenol-d5	1600		µg/kg wet		1660		96	30-130		
Surrogate: Terphenyl-dl4	1680		µg/kg wet		1660		101	30-130		
Surrogate: 2,4,6-Tribromophenol	1630		µg/kg wet		1660		98	30-130		
LCS Dup (1813739-BSD1)					Prepared: 16-Oct-18 Analyzed: 18-Oct-18					
Acenaphthene	1560		µg/kg wet	66.4	1660		94	40-140	1	30
Acenaphthylene	1630		µg/kg wet	66.4	1660		98	40-140	3	30
Aniline	926		µg/kg wet	328	1660		56	40-140	0.2	30
Anthracene	1460		µg/kg wet	66.4	1660		88	40-140	5	30
Azobenzene/Diphenyldiazene	1680		µg/kg wet	328	1660		101	40-140	3	30
Benzidine	2640	QC2	µg/kg wet	657	1660		159	40-140	7	30
Benzo (a) anthracene	1370		µg/kg wet	66.4	1660		82	40-140	4	30
Benzo (a) pyrene	1390		µg/kg wet	66.4	1660		84	40-140	6	30
Benzo (b) fluoranthene	1350		µg/kg wet	66.4	1660		81	40-140	12	30
Benzo (g,h,i) perylene	1300		µg/kg wet	66.4	1660		78	40-140	2	30
Benzo (k) fluoranthene	1310		µg/kg wet	66.4	1660		79	40-140	12	30
Benzoic acid	341	QC6	µg/kg wet	328	1660		21	30-130	21	30
Benzyl alcohol	842		µg/kg wet	328	1660		51	40-140	14	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813739 - SW846 3546										
LCS Dup (1813739-BSD1)					Prepared: 16-Oct-18 Analyzed: 18-Oct-18					
Bis(2-chloroethoxy)methane	1100		µg/kg wet	328	1660		66	40-140	4	30
Bis(2-chloroethyl)ether	1240		µg/kg wet	166	1660		75	40-140	2	30
Bis(2-chloroisopropyl)ether	1100		µg/kg wet	166	1660		66	40-140	15	30
Bis(2-ethylhexyl)phthalate	1490		µg/kg wet	166	1660		90	40-140	12	30
4-Bromophenyl phenyl ether	1330		µg/kg wet	328	1660		80	40-140	5	30
Butyl benzyl phthalate	1550		µg/kg wet	328	1660		93	40-140	0.8	30
Carbazole	2650	QC2	µg/kg wet	166	1660		160	40-140	9	30
4-Chloro-3-methylphenol	1250		µg/kg wet	328	1660		75	30-130	18	30
4-Chloroaniline	1120		µg/kg wet	166	1660		67	40-140	3	30
2-Chloronaphthalene	1740		µg/kg wet	328	1660		105	40-140	4	30
2-Chlorophenol	1240		µg/kg wet	166	1660		75	30-130	1	30
4-Chlorophenyl phenyl ether	1770		µg/kg wet	328	1660		107	40-140	11	30
Chrysene	1580		µg/kg wet	66.4	1660		95	40-140	0.1	30
Dibenzo (a,h) anthracene	1400		µg/kg wet	66.4	1660		84	40-140	0.7	30
Dibenzofuran	1690		µg/kg wet	166	1660		102	40-140	6	30
1,2-Dichlorobenzene	1410		µg/kg wet	328	1660		85	40-140	1	30
1,3-Dichlorobenzene	1400		µg/kg wet	328	1660		84	40-140	0.9	30
1,4-Dichlorobenzene	1500		µg/kg wet	328	1660		90	40-140	1	30
3,3'-Dichlorobenzidine	2130		µg/kg wet	328	1660		129	40-140	2	30
2,4-Dichlorophenol	1300		µg/kg wet	166	1660		78	30-130	1	30
Diethyl phthalate	1880		µg/kg wet	328	1660		113	40-140	10	30
Dimethyl phthalate	1600		µg/kg wet	328	1660		96	40-140	0.08	30
2,4-Dimethylphenol	1260		µg/kg wet	328	1660		76	30-130	5	30
Di-n-butyl phthalate	1680		µg/kg wet	328	1660		101	40-140	17	30
4,6-Dinitro-2-methylphenol	1390		µg/kg wet	328	1660		84	30-130	5	30
2,4-Dinitrophenol	758		µg/kg wet	328	1660		46	30-130	2	30
2,4-Dinitrotoluene	1790		µg/kg wet	166	1660		108	40-140	0.7	30
2,6-Dinitrotoluene	1830		µg/kg wet	166	1660		110	40-140	2	30
Di-n-octyl phthalate	1460		µg/kg wet	328	1660		88	40-140	15	30
Fluoranthene	1360		µg/kg wet	66.4	1660		82	40-140	0.8	30
Fluorene	1730		µg/kg wet	66.4	1660		104	40-140	10	30
Hexachlorobenzene	1820		µg/kg wet	166	1660		110	40-140	11	30
Hexachlorobutadiene	1470		µg/kg wet	166	1660		88	40-140	5	30
Hexachlorocyclopentadiene	2090		µg/kg wet	166	1660		126	40-140	11	30
Hexachloroethane	1590		µg/kg wet	166	1660		96	40-140	4	30
Indeno (1,2,3-cd) pyrene	1320		µg/kg wet	66.4	1660		79	40-140	5	30
Isophorone	1300		µg/kg wet	166	1660		78	40-140	0.2	30
2-Methylnaphthalene	1530		µg/kg wet	66.4	1660		92	40-140	18	30
2-Methylphenol	1170		µg/kg wet	328	1660		71	30-130	0.3	30
3 & 4-Methylphenol	1260		µg/kg wet	328	1660		76	30-130	8	30
Naphthalene	1420		µg/kg wet	66.4	1660		86	40-140	3	30
2-Nitroaniline	1660		µg/kg wet	328	1660		100	40-140	10	30
3-Nitroaniline	2070		µg/kg wet	328	1660		125	40-140	5	30
4-Nitroaniline	1860		µg/kg wet	166	1660		112	40-140	0.7	30
Nitrobenzene	1700		µg/kg wet	166	1660		103	40-140	8	30
2-Nitrophenol	1330		µg/kg wet	166	1660		80	30-130	1	30
4-Nitrophenol	1300	J	µg/kg wet	1310	1660		78	30-130	4	30
N-Nitrosodimethylamine	1410		µg/kg wet	166	1660		85	40-140	9	30
N-Nitrosodi-n-propylamine	1390		µg/kg wet	166	1660		84	40-140	3	30
N-Nitrosodiphenylamine	1810		µg/kg wet	328	1660		109	40-140	4	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813739 - SW846 3546										
<u>LCS Dup (1813739-BSD1)</u>	<u>Prepared: 16-Oct-18 Analyzed: 18-Oct-18</u>									
Pentachlorophenol	632		µg/kg wet	328	1660		38	30-130	10	30
Phenanthrene	1530		µg/kg wet	66.4	1660		92	40-140	1	30
Phenol	1340		µg/kg wet	328	1660		81	30-130	2	30
Pyrene	1460		µg/kg wet	66.4	1660		88	40-140	2	30
Pyridine	1310		µg/kg wet	328	1660		79	40-140	9	30
1,2,4-Trichlorobenzene	1530		µg/kg wet	328	1660		92	40-140	1	30
1-Methylnaphthalene	1500		µg/kg wet	66.4	1660		91	40-140	6	30
2,4,5-Trichlorophenol	1530		µg/kg wet	328	1660		92	30-130	3	30
2,4,6-Trichlorophenol	1460		µg/kg wet	166	1660		88	30-130	2	30
Pentachloronitrobenzene	1680		µg/kg wet	328	1660		101	40-140	1	30
1,2,4,5-Tetrachlorobenzene	1480		µg/kg wet	328	1660		89	40-140	2	30
Surrogate: 2-Fluorobiphenyl	1640		µg/kg wet		1660		99	30-130		
Surrogate: 2-Fluorophenol	1240		µg/kg wet		1660		75	30-130		
Surrogate: Nitrobenzene-d5	1440		µg/kg wet		1660		87	30-130		
Surrogate: Phenol-d5	1610		µg/kg wet		1660		97	30-130		
Surrogate: Terphenyl-dl4	1610		µg/kg wet		1660		97	30-130		
Surrogate: 2,4,6-Tribromophenol	1420		µg/kg wet		1660		86	30-130		
Batch 1813949 - SW846 3546										
<u>Blank (1813949-BLK1)</u>	<u>Prepared: 22-Oct-18 Analyzed: 23-Oct-18</u>									
Acenaphthene	< 66.3	U	µg/kg wet	66.3						
Acenaphthylene	< 66.3	U	µg/kg wet	66.3						
Aniline	< 328	U	µg/kg wet	328						
Anthracene	< 66.3	U	µg/kg wet	66.3						
Azobenzene/Diphenyldiazene	< 328	U	µg/kg wet	328						
Benzidine	< 656	U	µg/kg wet	656						
Benzo (a) anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) pyrene	< 66.3	U	µg/kg wet	66.3						
Benzo (b) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzo (g,h,i) perylene	< 66.3	U	µg/kg wet	66.3						
Benzo (k) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzoic acid	< 328	U	µg/kg wet	328						
Benzyl alcohol	< 328	U	µg/kg wet	328						
Bis(2-chloroethoxy)methane	< 328	U	µg/kg wet	328						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 328	U	µg/kg wet	328						
Butyl benzyl phthalate	< 328	U	µg/kg wet	328						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 328	U	µg/kg wet	328						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 328	U	µg/kg wet	328						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 328	U	µg/kg wet	328						
Chrysene	< 66.3	U	µg/kg wet	66.3						
Dibenzo (a,h) anthracene	< 66.3	U	µg/kg wet	66.3						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,3-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,4-Dichlorobenzene	< 328	U	µg/kg wet	328						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1813949 - SW846 3546										
<u>Blank (1813949-BLK1)</u>	<u>Prepared: 22-Oct-18 Analyzed: 23-Oct-18</u>									
3,3'-Dichlorobenzidine	< 328	U	µg/kg wet	328						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						
Diethyl phthalate	< 328	U	µg/kg wet	328						
Dimethyl phthalate	< 328	U	µg/kg wet	328						
2,4-Dimethylphenol	< 328	U	µg/kg wet	328						
Di-n-butyl phthalate	< 328	U	µg/kg wet	328						
4,6-Dinitro-2-methylphenol	< 328	U	µg/kg wet	328						
2,4-Dinitrophenol	< 328	U	µg/kg wet	328						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 328	U	µg/kg wet	328						
Fluoranthene	< 66.3	U	µg/kg wet	66.3						
Fluorene	< 66.3	U	µg/kg wet	66.3						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.3	U	µg/kg wet	66.3						
Isophorone	< 166	U	µg/kg wet	166						
2-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2-Methylphenol	< 328	U	µg/kg wet	328						
3 & 4-Methylphenol	< 328	U	µg/kg wet	328						
Naphthalene	< 66.3	U	µg/kg wet	66.3						
2-Nitroaniline	< 328	U	µg/kg wet	328						
3-Nitroaniline	< 328	U	µg/kg wet	328						
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 328	U	µg/kg wet	328						
Pentachlorophenol	< 328	U	µg/kg wet	328						
Phenanthrene	< 66.3	U	µg/kg wet	66.3						
Phenol	< 328	U	µg/kg wet	328						
Pyrene	< 66.3	U	µg/kg wet	66.3						
Pyridine	< 328	U	µg/kg wet	328						
1,2,4-Trichlorobenzene	< 328	U	µg/kg wet	328						
1-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2,4,5-Trichlorophenol	< 328	U	µg/kg wet	328						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 328	U	µg/kg wet	328						
1,2,4,5-Tetrachlorobenzene	< 328	U	µg/kg wet	328						
Surrogate: 2-Fluorobiphenyl	1260		µg/kg wet		1660		76	30-130		
Surrogate: 2-Fluorophenol	1160		µg/kg wet		1660		70	30-130		
Surrogate: Nitrobenzene-d5	1390		µg/kg wet		1660		84	30-130		
Surrogate: Phenol-d5	1290		µg/kg wet		1660		78	30-130		
Surrogate: Terphenyl-d14	1690		µg/kg wet		1660		102	30-130		
Surrogate: 2,4,6-Tribromophenol	1140		µg/kg wet		1660		69	30-130		
<u>LCS (1813949-BS1)</u>	<u>Prepared: 22-Oct-18 Analyzed: 23-Oct-18</u>									

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813949 - SW846 3546										
LCS (1813949-BS1)	Prepared: 22-Oct-18 Analyzed: 23-Oct-18									
Acenaphthene	1200		µg/kg wet	65.7	1640		73	40-140		
Acenaphthylene	1290		µg/kg wet	65.7	1640		79	40-140		
Aniline	709		µg/kg wet	325	1640		43	40-140		
Anthracene	1000		µg/kg wet	65.7	1640		61	40-140		
Azobenzene/Diphenyldiazene	1200		µg/kg wet	325	1640		73	40-140		
Benzidine	865		µg/kg wet	650	1640		53	40-140		
Benzo (a) anthracene	1080		µg/kg wet	65.7	1640		65	40-140		
Benzo (a) pyrene	1040		µg/kg wet	65.7	1640		63	40-140		
Benzo (b) fluoranthene	1220		µg/kg wet	65.7	1640		74	40-140		
Benzo (g,h,i) perylene	979		µg/kg wet	65.7	1640		60	40-140		
Benzo (k) fluoranthene	859		µg/kg wet	65.7	1640		52	40-140		
Benzoic acid	622		µg/kg wet	325	1640		38	30-130		
Benzyl alcohol	901		µg/kg wet	325	1640		55	40-140		
Bis(2-chloroethoxy)methane	844		µg/kg wet	325	1640		51	40-140		
Bis(2-chloroethyl)ether	1020		µg/kg wet	165	1640		62	40-140		
Bis(2-chloroisopropyl)ether	970		µg/kg wet	165	1640		59	40-140		
Bis(2-ethylhexyl)phthalate	1110		µg/kg wet	165	1640		67	40-140		
4-Bromophenyl phenyl ether	948		µg/kg wet	325	1640		58	40-140		
Butyl benzyl phthalate	1110		µg/kg wet	325	1640		67	40-140		
Carbazole	1950		µg/kg wet	165	1640		119	40-140		
4-Chloro-3-methylphenol	1020		µg/kg wet	325	1640		62	30-130		
4-Chloroaniline	736		µg/kg wet	165	1640		45	40-140		
2-Chloronaphthalene	1370		µg/kg wet	325	1640		84	40-140		
2-Chlorophenol	1040		µg/kg wet	165	1640		63	30-130		
4-Chlorophenyl phenyl ether	1370		µg/kg wet	325	1640		83	40-140		
Chrysene	1230		µg/kg wet	65.7	1640		75	40-140		
Dibenzo (a,h) anthracene	1130		µg/kg wet	65.7	1640		69	40-140		
Dibenzofuran	1280		µg/kg wet	165	1640		78	40-140		
1,2-Dichlorobenzene	1190		µg/kg wet	325	1640		72	40-140		
1,3-Dichlorobenzene	1190		µg/kg wet	325	1640		73	40-140		
1,4-Dichlorobenzene	1260		µg/kg wet	325	1640		77	40-140		
3,3'-Dichlorobenzidine	1620		µg/kg wet	325	1640		98	40-140		
2,4-Dichlorophenol	1040		µg/kg wet	165	1640		63	30-130		
Diethyl phthalate	1440		µg/kg wet	325	1640		88	40-140		
Dimethyl phthalate	1270		µg/kg wet	325	1640		78	40-140		
2,4-Dimethylphenol	1020		µg/kg wet	325	1640		62	30-130		
Di-n-butyl phthalate	973		µg/kg wet	325	1640		59	40-140		
4,6-Dinitro-2-methylphenol	1130		µg/kg wet	325	1640		69	30-130		
2,4-Dinitrophenol	719		µg/kg wet	325	1640		44	30-130		
2,4-Dinitrotoluene	1530		µg/kg wet	165	1640		93	40-140		
2,6-Dinitrotoluene	1410		µg/kg wet	165	1640		86	40-140		
Di-n-octyl phthalate	1190		µg/kg wet	325	1640		73	40-140		
Fluoranthene	935		µg/kg wet	65.7	1640		57	40-140		
Fluorene	1280		µg/kg wet	65.7	1640		78	40-140		
Hexachlorobenzene	1180		µg/kg wet	165	1640		72	40-140		
Hexachlorobutadiene	1130		µg/kg wet	165	1640		69	40-140		
Hexachlorocyclopentadiene	1840		µg/kg wet	165	1640		112	40-140		
Hexachloroethane	1360		µg/kg wet	165	1640		83	40-140		
Indeno (1,2,3-cd) pyrene	1040		µg/kg wet	65.7	1640		64	40-140		
Isophorone	975		µg/kg wet	165	1640		59	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813949 - SW846 3546										
LCS (1813949-BS1)					Prepared: 22-Oct-18 Analyzed: 23-Oct-18					
2-Methylnaphthalene	1160		µg/kg wet	65.7	1640		71	40-140		
2-Methylphenol	1070		µg/kg wet	325	1640		65	30-130		
3 & 4-Methylphenol	1150		µg/kg wet	325	1640		70	30-130		
Naphthalene	1170		µg/kg wet	65.7	1640		71	40-140		
2-Nitroaniline	1120		µg/kg wet	325	1640		68	40-140		
3-Nitroaniline	1480		µg/kg wet	325	1640		90	40-140		
4-Nitroaniline	1450		µg/kg wet	165	1640		88	40-140		
Nitrobenzene	1400		µg/kg wet	165	1640		85	40-140		
2-Nitrophenol	1030		µg/kg wet	165	1640		63	30-130		
4-Nitrophenol	1190	J	µg/kg wet	1300	1640		73	30-130		
N-Nitrosodimethylamine	1350		µg/kg wet	165	1640		82	40-140		
N-Nitrosodi-n-propylamine	1200		µg/kg wet	165	1640		73	40-140		
N-Nitrosodiphenylamine	1330		µg/kg wet	325	1640		81	40-140		
Pentachlorophenol	564		µg/kg wet	325	1640		34	30-130		
Phenanthrene	1230		µg/kg wet	65.7	1640		75	40-140		
Phenol	1090		µg/kg wet	325	1640		66	30-130		
Pyrene	1040		µg/kg wet	65.7	1640		63	40-140		
Pyridine	1100		µg/kg wet	325	1640		67	40-140		
1,2,4-Trichlorobenzene	1240		µg/kg wet	325	1640		75	40-140		
1-Methylnaphthalene	1270		µg/kg wet	65.7	1640		78	40-140		
2,4,5-Trichlorophenol	1200		µg/kg wet	325	1640		73	30-130		
2,4,6-Trichlorophenol	1100		µg/kg wet	165	1640		67	30-130		
Pentachloronitrobenzene	1390		µg/kg wet	325	1640		85	40-140		
1,2,4,5-Tetrachlorobenzene	1210		µg/kg wet	325	1640		74	40-140		
Surrogate: 2-Fluorobiphenyl	1260		µg/kg wet		1640		77	30-130		
Surrogate: 2-Fluorophenol	1070		µg/kg wet		1640		65	30-130		
Surrogate: Nitrobenzene-d5	1240		µg/kg wet		1640		75	30-130		
Surrogate: Phenol-d5	1320		µg/kg wet		1640		80	30-130		
Surrogate: Terphenyl-dl4	1170		µg/kg wet		1640		71	30-130		
Surrogate: 2,4,6-Tribromophenol	1120		µg/kg wet		1640		68	30-130		
LCS Dup (1813949-BSD1)					Prepared: 22-Oct-18 Analyzed: 23-Oct-18					
Acenaphthene	1310		µg/kg wet	66.3	1660		79	40-140	9	30
Acenaphthylene	1410		µg/kg wet	66.3	1660		85	40-140	9	30
Aniline	700		µg/kg wet	328	1660		42	40-140	1	30
Anthracene	1160		µg/kg wet	66.3	1660		70	40-140	15	30
Azobenzene/Diphenyldiazene	1340		µg/kg wet	328	1660		81	40-140	11	30
Benzidine	820		µg/kg wet	656	1660		49	40-140	5	30
Benzo (a) anthracene	1280		µg/kg wet	66.3	1660		77	40-140	17	30
Benzo (a) pyrene	1130		µg/kg wet	66.3	1660		68	40-140	9	30
Benzo (b) fluoranthene	1360		µg/kg wet	66.3	1660		82	40-140	11	30
Benzo (g,h,i) perylene	1100		µg/kg wet	66.3	1660		66	40-140	11	30
Benzo (k) fluoranthene	942		µg/kg wet	66.3	1660		57	40-140	9	30
Benzoic acid	723		µg/kg wet	328	1660		44	30-130	15	30
Benzyl alcohol	948		µg/kg wet	328	1660		57	40-140	5	30
Bis(2-chloroethoxy)methane	866		µg/kg wet	328	1660		52	40-140	2	30
Bis(2-chloroethyl)ether	1020		µg/kg wet	166	1660		62	40-140	0.3	30
Bis(2-chloroisopropyl)ether	934		µg/kg wet	166	1660		56	40-140	4	30
Bis(2-ethylhexyl)phthalate	1130		µg/kg wet	166	1660		68	40-140	2	30
4-Bromophenyl phenyl ether	1090		µg/kg wet	328	1660		66	40-140	14	30
Butyl benzyl phthalate	1080		µg/kg wet	328	1660		65	40-140	2	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813949 - SW846 3546										
LCS Dup (1813949-BSD1)					Prepared: 22-Oct-18 Analyzed: 23-Oct-18					
Carbazole	2280		µg/kg wet	166	1660		138	40-140	16	30
4-Chloro-3-methylphenol	1090		µg/kg wet	328	1660		66	30-130	6	30
4-Chloroaniline	886		µg/kg wet	166	1660		53	40-140	18	30
2-Chloronaphthalene	1510		µg/kg wet	328	1660		91	40-140	10	30
2-Chlorophenol	1020		µg/kg wet	166	1660		61	30-130	2	30
4-Chlorophenyl phenyl ether	1320		µg/kg wet	328	1660		80	40-140	4	30
Chrysene	1210		µg/kg wet	66.3	1660		73	40-140	1	30
Dibenzo (a,h) anthracene	1180		µg/kg wet	66.3	1660		71	40-140	4	30
Dibenzofuran	1580		µg/kg wet	166	1660		95	40-140	20	30
1,2-Dichlorobenzene	1210		µg/kg wet	328	1660		73	40-140	2	30
1,3-Dichlorobenzene	1310		µg/kg wet	328	1660		79	40-140	9	30
1,4-Dichlorobenzene	1350		µg/kg wet	328	1660		81	40-140	7	30
3,3'-Dichlorobenzidine	1690		µg/kg wet	328	1660		102	40-140	5	30
2,4-Dichlorophenol	1100		µg/kg wet	166	1660		66	30-130	6	30
Diethyl phthalate	1400		µg/kg wet	328	1660		84	40-140	3	30
Dimethyl phthalate	1330		µg/kg wet	328	1660		80	40-140	4	30
2,4-Dimethylphenol	952		µg/kg wet	328	1660		57	30-130	7	30
Di-n-butyl phthalate	1190		µg/kg wet	328	1660		72	40-140	20	30
4,6-Dinitro-2-methylphenol	1310		µg/kg wet	328	1660		79	30-130	15	30
2,4-Dinitrophenol	890		µg/kg wet	328	1660		54	30-130	21	30
2,4-Dinitrotoluene	1540		µg/kg wet	166	1660		93	40-140	0.6	30
2,6-Dinitrotoluene	1590		µg/kg wet	166	1660		96	40-140	12	30
Di-n-octyl phthalate	1300		µg/kg wet	328	1660		79	40-140	9	30
Fluoranthene	1100		µg/kg wet	66.3	1660		66	40-140	16	30
Fluorene	1230		µg/kg wet	66.3	1660		74	40-140	4	30
Hexachlorobenzene	1370		µg/kg wet	166	1660		82	40-140	15	30
Hexachlorobutadiene	1210		µg/kg wet	166	1660		73	40-140	7	30
Hexachlorocyclopentadiene	2010		µg/kg wet	166	1660		121	40-140	9	30
Hexachloroethane	1340		µg/kg wet	166	1660		81	40-140	1	30
Indeno (1,2,3-cd) pyrene	1140		µg/kg wet	66.3	1660		69	40-140	9	30
Isophorone	934		µg/kg wet	166	1660		56	40-140	4	30
2-Methylnaphthalene	1280		µg/kg wet	66.3	1660		77	40-140	9	30
2-Methylphenol	1010		µg/kg wet	328	1660		61	30-130	6	30
3 & 4-Methylphenol	1120		µg/kg wet	328	1660		68	30-130	3	30
Naphthalene	1260		µg/kg wet	66.3	1660		76	40-140	7	30
2-Nitroaniline	1280		µg/kg wet	328	1660		77	40-140	14	30
3-Nitroaniline	1570		µg/kg wet	328	1660		95	40-140	6	30
4-Nitroaniline	1490		µg/kg wet	166	1660		90	40-140	3	30
Nitrobenzene	1370		µg/kg wet	166	1660		83	40-140	2	30
2-Nitrophenol	989		µg/kg wet	166	1660		60	30-130	4	30
4-Nitrophenol	1260	J	µg/kg wet	1310	1660		76	30-130	5	30
N-Nitrosodimethylamine	1440		µg/kg wet	166	1660		87	40-140	6	30
N-Nitrosodi-n-propylamine	1160		µg/kg wet	166	1660		70	40-140	4	30
N-Nitrosodiphenylamine	1480		µg/kg wet	328	1660		89	40-140	11	30
Pentachlorophenol	637		µg/kg wet	328	1660		38	30-130	12	30
Phenanthrene	1330		µg/kg wet	66.3	1660		80	40-140	8	30
Phenol	1100		µg/kg wet	328	1660		66	30-130	0.6	30
Pyrene	1120		µg/kg wet	66.3	1660		68	40-140	8	30
Pyridine	1140		µg/kg wet	328	1660		69	40-140	3	30
1,2,4-Trichlorobenzene	1340		µg/kg wet	328	1660		81	40-140	8	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1813949 - SW846 3546										
LCS Dup (1813949-BSD1)					Prepared: 22-Oct-18 Analyzed: 23-Oct-18					
1-Methylnaphthalene	1270		µg/kg wet	66.3	1660		77	40-140	0.4	30
2,4,5-Trichlorophenol	1270		µg/kg wet	328	1660		77	30-130	6	30
2,4,6-Trichlorophenol	1190		µg/kg wet	166	1660		72	30-130	8	30
Pentachloronitrobenzene	1450		µg/kg wet	328	1660		87	40-140	4	30
1,2,4,5-Tetrachlorobenzene	1290		µg/kg wet	328	1660		78	40-140	6	30
Surrogate: 2-Fluorobiphenyl	1350		µg/kg wet		1660		82	30-130		
Surrogate: 2-Fluorophenol	1110		µg/kg wet		1660		67	30-130		
Surrogate: Nitrobenzene-d5	1230		µg/kg wet		1660		75	30-130		
Surrogate: Phenol-d5	1240		µg/kg wet		1660		75	30-130		
Surrogate: Terphenyl-dl4	1240		µg/kg wet		1660		75	30-130		
Surrogate: 2,4,6-Tribromophenol	1350		µg/kg wet		1660		81	30-130		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1813679 - SW846 3510C										
Blank (1813679-BLK1)					Prepared: 15-Oct-18 Analyzed: 16-Oct-18					
Aroclor-1016	< 0.200	U	µg/l	0.200						
Aroclor-1016 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1221	< 0.200	U	µg/l	0.200						
Aroclor-1221 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1232	< 0.200	U	µg/l	0.200						
Aroclor-1232 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1242	< 0.200	U	µg/l	0.200						
Aroclor-1242 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1248	< 0.200	U	µg/l	0.200						
Aroclor-1248 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1254	< 0.200	U	µg/l	0.200						
Aroclor-1254 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1260	< 0.200	U	µg/l	0.200						
Aroclor-1260 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1262	< 0.200	U	µg/l	0.200						
Aroclor-1262 [2C]	< 0.200	U	µg/l	0.200						
Aroclor-1268	< 0.200	U	µg/l	0.200						
Aroclor-1268 [2C]	< 0.200	U	µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.210		µg/l		0.200		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.230		µg/l		0.200		115	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.240		µg/l		0.200		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.260		µg/l		0.200		130	30-150		
LCS (1813679-BS1)					Prepared: 15-Oct-18 Analyzed: 16-Oct-18					
Aroclor-1016	1.63		µg/l	0.200	2.50		65	40-140		
Aroclor-1016 [2C]	1.66		µg/l	0.200	2.50		66	40-140		
Aroclor-1260	1.63		µg/l	0.200	2.50		65	40-140		
Aroclor-1260 [2C]	1.67		µg/l	0.200	2.50		67	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.200		µg/l		0.200		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.210		µg/l		0.200		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.230		µg/l		0.200		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.260		µg/l		0.200		130	30-150		
LCS Dup (1813679-BSD1)					Prepared: 15-Oct-18 Analyzed: 16-Oct-18					
Aroclor-1016	1.56		µg/l	0.200	2.50		62	40-140	4	20
Aroclor-1016 [2C]	1.61		µg/l	0.200	2.50		64	40-140	3	20
Aroclor-1260	1.56		µg/l	0.200	2.50		62	40-140	4	20
Aroclor-1260 [2C]	1.58		µg/l	0.200	2.50		63	40-140	6	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.180		µg/l		0.200		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.190		µg/l		0.200		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.220		µg/l		0.200		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.240		µg/l		0.200		120	30-150		
Duplicate (1813679-DUP1)					Source: SC50933-04 Prepared: 15-Oct-18 Analyzed: 16-Oct-18					
Aroclor-1016	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1016 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1221	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1221 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1232	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1232 [2C]	< 0.190	U	µg/l	0.190		BRL				20

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1813679 - SW846 3510C										
Duplicate (1813679-DUP1)						Source: SC50933-04		Prepared: 15-Oct-18 Analyzed: 16-Oct-18		
Aroclor-1242	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1242 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1248	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1248 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1254	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1254 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1260	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1260 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1262	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1262 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1268	< 0.190	U	µg/l	0.190		BRL				20
Aroclor-1268 [2C]	< 0.190	U	µg/l	0.190		BRL				20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.181		µg/l		0.190		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.200		µg/l		0.190		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	0.181		µg/l		0.190		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.200		µg/l		0.190		105	30-150		
Batch 1813738 - SW846 3546										
Blank (1813738-BLK1)								Prepared: 16-Oct-18 Analyzed: 17-Oct-18		
Aroclor-1016	< 19.1	U	µg/kg wet	19.1						
Aroclor-1016 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1221	< 19.1	U	µg/kg wet	19.1						
Aroclor-1221 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1232	< 19.1	U	µg/kg wet	19.1						
Aroclor-1232 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1242	< 19.1	U	µg/kg wet	19.1						
Aroclor-1242 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1248	< 19.1	U	µg/kg wet	19.1						
Aroclor-1248 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1254	< 19.1	U	µg/kg wet	19.1						
Aroclor-1254 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1260	< 19.1	U	µg/kg wet	19.1						
Aroclor-1260 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1262	< 19.1	U	µg/kg wet	19.1						
Aroclor-1262 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1268	< 19.1	U	µg/kg wet	19.1						
Aroclor-1268 [2C]	< 19.1	U	µg/kg wet	19.1						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.5		µg/kg wet		19.1		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.5		µg/kg wet		19.1		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.3		µg/kg wet		19.1		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.3		µg/kg wet		19.1		80	30-150		
LCS (1813738-BS1)								Prepared: 16-Oct-18 Analyzed: 17-Oct-18		
Aroclor-1016	164		µg/kg wet	19.3	241		68	40-140		
Aroclor-1016 [2C]	154		µg/kg wet	19.3	241		64	40-140		
Aroclor-1260	154		µg/kg wet	19.3	241		64	40-140		
Aroclor-1260 [2C]	156		µg/kg wet	19.3	241		65	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.6		µg/kg wet		19.3		55	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	10.6		µg/kg wet		19.3		55	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1813738 - SW846 3546										
LCS (1813738-BS1)					<u>Prepared: 16-Oct-18 Analyzed: 17-Oct-18</u>					
Surrogate: Decachlorobiphenyl (Sr)	13.5		µg/kg wet		19.3		70	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.4		µg/kg wet		19.3		80	30-150		
LCS Dup (1813738-BSD1)					<u>Prepared: 16-Oct-18 Analyzed: 17-Oct-18</u>					
Aroclor-1016	172		µg/kg wet	19.5	244		70	40-140	5	30
Aroclor-1016 [2C]	164		µg/kg wet	19.5	244		67	40-140	6	30
Aroclor-1260	166		µg/kg wet	19.5	244		68	40-140	7	30
Aroclor-1260 [2C]	170		µg/kg wet	19.5	244		70	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.7		µg/kg wet		19.5		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	10.7		µg/kg wet		19.5		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.6		µg/kg wet		19.5		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.6		µg/kg wet		19.5		80	30-150		
Duplicate (1813738-DUP1)					Source: SC50933-02		<u>Prepared: 16-Oct-18 Analyzed: 17-Oct-18</u>			
Aroclor-1016	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1016 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1221	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1221 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1232	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1232 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1242	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1242 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1248	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1248 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1254	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1254 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1260	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1260 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1262	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1262 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1268	< 21.9	U	µg/kg dry	21.9		BRL				30
Aroclor-1268 [2C]	< 21.9	U	µg/kg dry	21.9		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.3		µg/kg dry		21.9		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	13.2		µg/kg dry		21.9		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.5		µg/kg dry		21.9		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.6		µg/kg dry		21.9		85	30-150		
Matrix Spike (1813738-MS1)					Source: SC50933-02		<u>Prepared: 16-Oct-18 Analyzed: 17-Oct-18</u>			
Aroclor-1016	201		µg/kg dry	21.4	267	BRL	75	40-140		
Aroclor-1016 [2C]	187		µg/kg dry	21.4	267	BRL	70	40-140		
Aroclor-1260	190		µg/kg dry	21.4	267	BRL	71	40-140		
Aroclor-1260 [2C]	186		µg/kg dry	21.4	267	BRL	70	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.9		µg/kg dry		21.4		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.8		µg/kg dry		21.4		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	16.0		µg/kg dry		21.4		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.0		µg/kg dry		21.4		75	30-150		
Matrix Spike Dup (1813738-MSD1)					Source: SC50933-02		<u>Prepared: 16-Oct-18 Analyzed: 17-Oct-18</u>			
Aroclor-1016	188		µg/kg dry	21.8	272	BRL	69	40-140	7	30
Aroclor-1016 [2C]	178		µg/kg dry	21.8	272	BRL	66	40-140	5	30
Aroclor-1260	175		µg/kg dry	21.8	272	BRL	64	40-140	8	30

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Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Batch 1813738 - SW846 3546

<u>Matrix Spike Dup (1813738-MSD1)</u>		<u>Source: SC50933-02</u>		<u>Prepared: 16-Oct-18</u>		<u>Analyzed: 17-Oct-18</u>			
Aroclor-1260 [2C]	172	µg/kg dry	21.8	272	BRL	63	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.2	µg/kg dry		21.8		70	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.2	µg/kg dry		21.8		70	30-150		
Surrogate: Decachlorobiphenyl (Sr)	18.5	µg/kg dry		21.8		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.6	µg/kg dry		21.8		90	30-150		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SM2540 G (11) Mod.</u>										
Batch 1813459 - General Preparation										
<u>Duplicate (1813459-DUP1)</u>			<u>Source: SC50933-02</u>			<u>Prepared & Analyzed: 09-Oct-18</u>				
% Solids	88.5		%			89.8			1	5

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451348A - SW8260C										
BLK (CB68570-BLK)	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451348A - SW8260C										
BLK (CB68570-BLK)					Prepared: Analyzed: 10-Oct-18					
Chlorobenzene	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
Surrogate: % Dibromofluoromethane	102		ug/kg		50		102	70-130		
Surrogate: % Bromofluorobenzene	101		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	88		ug/kg		50		88	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	93		ug/kg		50		93	70-130		
LCS (CB68570-LCS)					Prepared: Analyzed: 10-Oct-18					
2-Isopropyltoluene	48.97		ug/kg	5.0	50		98	70-130		30
Isopropylbenzene	47.40		ug/kg	1.0	50		95	70-130		30
Tetrahydrofuran (THF)	126.1		ug/kg	5.0	125		101	70-130		30
Tetrachloroethene	50.68		ug/kg	5.0	50		101	70-130		30
tert-Butylbenzene	46.97		ug/kg	1.0	50		94	70-130		30
Styrene	44.20		ug/kg	5.0	50		88	70-130		30
sec-Butylbenzene	47.50		ug/kg	1.0	50		95	70-130		30
p-Isopropyltoluene	45.71		ug/kg	1.0	50		91	70-130		30
o-Xylene	45.38		ug/kg	2.0	50		91	70-130		30
n-Propylbenzene	46.04		ug/kg	1.0	50		92	70-130		30
n-Butylbenzene	46.70		ug/kg	1.0	50		93	70-130		30
Naphthalene	49.40		ug/kg	5.0	50		99	70-130		30
Methylene chloride	45.40		ug/kg	5.0	50		91	70-130		30
Methyl t-butyl ether (MTBE)	50.73		ug/kg	1.0	50		101	70-130		30
trans-1,2-Dichloroethene	50.23		ug/kg	5.0	50		100	70-130		30
m&p-Xylene	90.69		ug/kg	2.0	100		91	70-130		30
trans-1,4-dichloro-2-butene	251.8		ug/kg	5.0	250		101	70-130		30
Hexachlorobutadiene	45.28		ug/kg	5.0	50		91	70-130		30
Ethylbenzene	47.54		ug/kg	1.0	50		95	70-130		30
Dichlorodifluoromethane	56.77		ug/kg	5.0	50		114	70-130		30
Dibromomethane	49.32		ug/kg	5.0	50		99	70-130		30
Dibromochloromethane	50.41		ug/kg	3.0	50		101	70-130		30
cis-1,3-Dichloropropene	48.82		ug/kg	5.0	50		98	70-130		30
trans-1,3-Dichloropropene	46.03		ug/kg	5.0	50		92	70-130		30
Toluene	48.59		ug/kg	1.0	50		97	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451348A - SW8260C										
LCS (CB68570-LCS)	Prepared: Analyzed: 10-Oct-18									
Vinyl chloride	49.38		ug/kg	5.0	50		99	70-130		30
Trichlorotrifluoroethane	51.72		ug/kg	5.0	50		103	70-130		30
Trichlorofluoromethane	49.86		ug/kg	5.0	50		100	70-130		30
Methyl Ethyl Ketone	44.37		ug/kg	5.0	50		89	70-130		30
1,2,4-Trichlorobenzene	45.04		ug/kg	5.0	50		90	70-130		30
1,4-Dichlorobenzene	46.89		ug/kg	5.0	50		94	70-130		30
1,3-Dichloropropane	43.37		ug/kg	5.0	50		87	70-130		30
1,3-Dichlorobenzene	46.29		ug/kg	5.0	50		93	70-130		30
1,3,5-Trimethylbenzene	45.04		ug/kg	1.0	50		90	70-130		30
1,2-Dichloropropane	47.83		ug/kg	5.0	50		96	70-130		30
1,2-Dichloroethane	48.25		ug/kg	5.0	50		97	70-130		30
1,2-Dichlorobenzene	48.75		ug/kg	5.0	50		97	70-130		30
1,2-Dibromoethane	49.93		ug/kg	5.0	50		100	70-130		30
2,2-Dichloropropane	49.42		ug/kg	5.0	50		99	70-130		30
1,2,4-Trimethylbenzene	44.35		ug/kg	1.0	50		89	70-130		30
1,1,2-Trichloroethane	48.89		ug/kg	5.0	50		98	70-130		30
1,2,3-Trichloropropane	43.59		ug/kg	5.0	50		87	70-130		30
1,2,3-Trichlorobenzene	46.08		ug/kg	5.0	50		92	70-130		30
1,1-Dichloropropene	47.75		ug/kg	5.0	50		96	70-130		30
1,1-Dichloroethene	49.93		ug/kg	5.0	50		100	70-130		30
1,1-Dichloroethane	48.40		ug/kg	5.0	50		97	70-130		30
1,1,2,2-Tetrachloroethane	48.85		ug/kg	3.0	50		98	70-130		30
1,1,1,2-Tetrachloroethane	45.02		ug/kg	5.0	50		90	70-130		30
Trichloroethene	47.24		ug/kg	5.0	50		94	70-130		30
1,2-Dibromo-3-chloropropane	48.66		ug/kg	5.0	50		97	70-130		30
Bromoform	46.27		ug/kg	5.0	50		93	70-130		30
2-Chlorotoluene	46.46		ug/kg	5.0	50		93	70-130		30
Chloromethane	46.05		ug/kg	5.0	50		92	70-130		30
1,1,1-Trichloroethane	49.33		ug/kg	5.0	50		99	70-130		30
Chloroform	44.87		ug/kg	5.0	50		90	70-130		30
Chloroethane	46.53		ug/kg	5.0	50		93	70-130		30
Chlorobenzene	46.87		ug/kg	5.0	50		94	70-130		30
Carbon tetrachloride	48.36		ug/kg	5.0	50		97	70-130		30
Bromomethane	46.12		ug/kg	5.0	50		92	70-130		30
cis-1,2-Dichloroethene	46.89		ug/kg	5.0	50		94	70-130		30
Bromodichloromethane	48.78		ug/kg	5.0	50		98	70-130		30
Bromochloromethane	46.00		ug/kg	5.0	50		92	70-130		30
Bromobenzene	48.11		ug/kg	5.0	50		96	70-130		30
Benzene	47.78		ug/kg	1.0	50		96	70-130		30
Acrylonitrile	46.72		ug/kg	5.0	50		93	70-130		30
Acetone	38.92		ug/kg	10	50		78	70-130		30
4-Methyl-2-pentanone	48.71		ug/kg	25	50		97	70-130		30
4-Chlorotoluene	44.66		ug/kg	5.0	50		89	70-130		30
2-Hexanone	42.20		ug/kg	25	50		84	70-130		30
Carbon Disulfide	52.66		ug/kg	5.0	50		105	70-130		30
Surrogate: % Bromofluorobenzene	50.13		ug/kg		50		100	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.68		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	52.63		ug/kg		50		105	70-130		
Surrogate: % Dibromofluoromethane	50.28		ug/kg		50		101	70-130		
LCSD (CB68570-LCSD)	Prepared: Analyzed: 10-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451348A - SW8260C										
LCSD (CB68570-LCSD)	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	52.84		ug/kg	5.0	50		106	70-130	7.8	30
Bromoform	46.26		ug/kg	5.0	50		93	70-130	0.0	30
1,4-Dichlorobenzene	50.37		ug/kg	5.0	50		101	70-130	7.2	30
2,2-Dichloropropane	52.57		ug/kg	5.0	50		105	70-130	5.9	30
2-Chlorotoluene	49.78		ug/kg	5.0	50		100	70-130	7.3	30
2-Hexanone	39.60		ug/kg	25	50		79	70-130	6.1	30
4-Chlorotoluene	48.08		ug/kg	5.0	50		96	70-130	7.6	30
4-Methyl-2-pentanone	44.58		ug/kg	25	50		89	70-130	8.6	30
Bromodichloromethane	52.96		ug/kg	5.0	50		106	70-130	7.8	30
1,1,1-Trichloroethane	50.97		ug/kg	5.0	50		102	70-130	3.0	30
Acrylonitrile	44.30		ug/kg	5.0	50		89	70-130	4.4	30
1,1-Dichloroethene	53.38		ug/kg	5.0	50		107	70-130	6.8	30
Benzene	49.04		ug/kg	1.0	50		98	70-130	2.1	30
Bromobenzene	50.65		ug/kg	5.0	50		101	70-130	5.1	30
Bromochloromethane	46.78		ug/kg	5.0	50		94	70-130	2.2	30
1,3-Dichloropropane	44.85		ug/kg	5.0	50		90	70-130	3.4	30
Acetone	37.80		ug/kg	10	50		76	70-130	2.6	30
1,2,4-Trimethylbenzene	48.23		ug/kg	1.0	50		96	70-130	7.6	30
Styrene	44.11		ug/kg	5.0	50		88	70-130	0.0	30
Bromomethane	49.27		ug/kg	5.0	50		99	70-130	7.3	30
1,1,2,2-Tetrachloroethane	48.76		ug/kg	3.0	50		98	70-130	0.0	30
1,1,2-Trichloroethane	48.68		ug/kg	5.0	50		97	70-130	1.0	30
1,1-Dichloroethane	51.08		ug/kg	5.0	50		102	70-130	5.0	30
1,1-Dichloropropene	51.33		ug/kg	5.0	50		103	70-130	7.0	30
1,2,3-Trichlorobenzene	48.18		ug/kg	5.0	50		96	70-130	4.3	30
1,2,4-Trichlorobenzene	47.60		ug/kg	5.0	50		95	70-130	5.4	30
1,3-Dichlorobenzene	49.30		ug/kg	5.0	50		99	70-130	6.3	30
1,2-Dibromo-3-chloropropane	46.23		ug/kg	5.0	50		92	70-130	5.3	30
1,2-Dibromoethane	48.03		ug/kg	5.0	50		96	70-130	4.1	30
1,2-Dichlorobenzene	51.18		ug/kg	5.0	50		102	70-130	5.0	30
1,2-Dichloroethane	50.47		ug/kg	5.0	50		101	70-130	4.0	30
1,2-Dichloropropane	50.12		ug/kg	5.0	50		100	70-130	4.1	30
1,3,5-Trimethylbenzene	48.04		ug/kg	1.0	50		96	70-130	6.5	30
1,2,3-Trichloropropane	43.01		ug/kg	5.0	50		86	70-130	1.2	30
trans-1,2-Dichloroethene	51.31		ug/kg	5.0	50		103	70-130	3.0	30
o-Xylene	47.64		ug/kg	2.0	50		95	70-130	4.3	30
1,1,1,2-Tetrachloroethane	45.53		ug/kg	5.0	50		91	70-130	1.1	30
sec-Butylbenzene	50.93		ug/kg	1.0	50		102	70-130	7.1	30
cis-1,3-Dichloropropene	49.50		ug/kg	5.0	50		99	70-130	1.0	30
tert-Butylbenzene	49.13		ug/kg	1.0	50		98	70-130	4.2	30
Tetrachloroethene	51.57		ug/kg	5.0	50		103	70-130	2.0	30
p-Isopropyltoluene	48.37		ug/kg	1.0	50		97	70-130	6.4	30
Toluene	51.18		ug/kg	1.0	50		102	70-130	5.0	30
Naphthalene	48.33		ug/kg	5.0	50		97	70-130	2.0	30
trans-1,3-Dichloropropene	46.93		ug/kg	5.0	50		94	70-130	2.2	30
trans-1,4-dichloro-2-butene	252.9		ug/kg	5.0	250		101	70-130	0.0	30
Trichloroethene	49.10		ug/kg	5.0	50		98	70-130	4.2	30
Trichlorofluoromethane	52.90		ug/kg	5.0	50		106	70-130	5.8	30
Trichlorotrifluoroethane	55.82		ug/kg	5.0	50		112	70-130	8.4	30
Vinyl chloride	53.34		ug/kg	5.0	50		107	70-130	7.8	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451348A - SW8260C										
LCSD (CB68570-LCSD)	Prepared: Analyzed: 10-Oct-18									
Tetrahydrofuran (THF)	112.9		ug/kg	5.0	125		90	70-130	11.5	30
Ethylbenzene	48.23		ug/kg	1.0	50		96	70-130	1.0	30
Carbon tetrachloride	51.51		ug/kg	5.0	50		103	70-130	6.0	30
Chlorobenzene	48.96		ug/kg	5.0	50		98	70-130	4.2	30
Chloroethane	50.71		ug/kg	5.0	50		101	70-130	8.2	30
Chloroform	47.00		ug/kg	5.0	50		94	70-130	4.3	30
Chloromethane	49.11		ug/kg	5.0	50		98	70-130	6.3	30
cis-1,2-Dichloroethene	49.43		ug/kg	5.0	50		99	70-130	5.2	30
n-Propylbenzene	48.16		ug/kg	1.0	50		96	70-130	4.3	30
Dichlorodifluoromethane	58.31		ug/kg	5.0	50		117	70-130	2.6	30
n-Butylbenzene	49.70		ug/kg	1.0	50		99	70-130	6.3	30
Hexachlorobutadiene	50.14		ug/kg	5.0	50		100	70-130	9.4	30
Isopropylbenzene	49.65		ug/kg	1.0	50		99	70-130	4.1	30
m&p-Xylene	93.66		ug/kg	2.0	100		94	70-130	3.2	30
Methyl Ethyl Ketone	39.73		ug/kg	5.0	50		79	70-130	11.9	30
Methyl t-butyl ether (MTBE)	50.85		ug/kg	1.0	50		102	70-130	1.0	30
Methylene chloride	45.85		ug/kg	5.0	50		92	70-130	1.1	30
Carbon Disulfide	54.56		ug/kg	5.0	50		109	70-130	3.7	30
Dibromochloromethane	50.00		ug/kg	3.0	50		100	70-130	1.0	30
Dibromomethane	48.52		ug/kg	5.0	50		97	70-130	2.0	30
Surrogate: % Toluene-d8	51.72		ug/kg		50		103	70-130		
Surrogate: % Dibromofluoromethane	46.66		ug/kg		50		93	70-130		
Surrogate: % Bromofluorobenzene	49.11		ug/kg		50		98	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	51.70		ug/kg		50		103	70-130		
Batch 451374A - SW8260C										
BLK (CB68179-BLK)	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	ND		ug/l	1.0			ND	-		
Chloromethane	ND		ug/l	1.0			ND	-		
Methylene chloride	ND		ug/l	1.0			ND	-		
Methyl ethyl ketone	ND		ug/l	5.0			ND	-		
Isopropylbenzene	ND		ug/l	1.0			ND	-		
Hexachlorobutadiene	ND		ug/l	0.40			ND	-		
Ethylbenzene	ND		ug/l	1.0			ND	-		
Dichlorodifluoromethane	ND		ug/l	1.0			ND	-		
Dibromomethane	ND		ug/l	1.0			ND	-		
Dibromochloromethane	ND		ug/l	0.50			ND	-		
Naphthalene	ND		ug/l	1.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/l	1.0			ND	-		
p-Isopropyltoluene	ND		ug/l	1.0			ND	-		
Chloroform	ND		ug/l	1.0			ND	-		
Chloroethane	ND		ug/l	1.0			ND	-		
Chlorobenzene	ND		ug/l	1.0			ND	-		
Carbon tetrachloride	ND		ug/l	1.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/l	0.40			ND	-		
1,1,1-Trichloroethane	ND		ug/l	1.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/l	0.40			ND	-		
trans-1,2-Dichloroethene	ND		ug/l	1.0			ND	-		
Toluene	ND		ug/l	1.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/l	2.5			ND	-		
Tetrachloroethene	ND		ug/l	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
BLK (CB68179-BLK)	Prepared: Analyzed: 10-Oct-18									
tert-Butylbenzene	ND		ug/l	1.0			ND	-		
Styrene	ND		ug/l	1.0			ND	-		
n-Propylbenzene	ND		ug/l	1.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0			ND	-		
n-Butylbenzene	ND		ug/l	1.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50			ND	-		
1,1,2-Trichloroethane	ND		ug/l	1.0			ND	-		
1,1-Dichloroethane	ND		ug/l	1.0			ND	-		
1,1-Dichloroethene	ND		ug/l	1.0			ND	-		
sec-Butylbenzene	ND		ug/l	1.0			ND	-		
m&p-Xylene	ND		ug/l	1.0			ND	-		
o-Xylene	ND		ug/l	1.0			ND	-		
Carbon Disulfide	ND		ug/l	1.0			ND	-		
Trichlorotrifluoroethane	ND		ug/l	1.0			ND	-		
1,2,3-Trichloropropane	ND		ug/l	1.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/l	1.0			ND	-		
1,2-Dichloropropane	ND		ug/l	1.0			ND	-		
1,2-Dichloroethane	ND		ug/l	1.0			ND	-		
1,2-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,2-Dibromoethane	ND		ug/l	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/l	1.0			ND	-		
1,3-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/l	1.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/l	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/l	1.0			ND	-		
1,1-Dichloropropene	ND		ug/l	1.0			ND	-		
Vinyl chloride	ND		ug/l	1.0			ND	-		
Bromomethane	ND		ug/l	1.0			ND	-		
Trichloroethene	ND		ug/l	1.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/l	1.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/l	1.0			ND	-		
Bromodichloromethane	ND		ug/l	0.50			ND	-		
Trichlorofluoromethane	ND		ug/l	1.0			ND	-		
Bromoform	ND		ug/l	1.0			ND	-		
Bromochloromethane	ND		ug/l	1.0			ND	-		
Bromobenzene	ND		ug/l	1.0			ND	-		
Benzene	ND		ug/l	0.70			ND	-		
Acrylonitrile	ND		ug/l	5.0			ND	-		
Acetone	ND		ug/l	5.0			ND	-		
4-Chlorotoluene	ND		ug/l	1.0			ND	-		
2-Hexanone	ND		ug/l	5.0			ND	-		
2-Chlorotoluene	ND		ug/l	1.0			ND	-		
2,2-Dichloropropane	ND		ug/l	1.0			ND	-		
1,4-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,3-Dichloropropane	ND		ug/l	1.0			ND	-		
4-Methyl-2-pentanone	ND		ug/l	5.0			ND	-		
Surrogate: % Toluene-d8	99		ug/l		10		99	70-130		
Surrogate: % Dibromofluoromethane	102		ug/l		10		102	70-130		
Surrogate: % Bromofluorobenzene	97		ug/l		10		97	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	100		ug/l		10		100	70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
LCS (CB68179-LCS)	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	10.00		ug/l	1.0	10		100	70-130		30
Isopropylbenzene	9.970		ug/l	1.0	10		100	70-130		30
Dibromomethane	10.33		ug/l	1.0	10		103	70-130		30
Toluene	10.02		ug/l	1.0	10		100	70-130		30
Dichlorodifluoromethane	11.00		ug/l	1.0	10		110	70-130		30
Dibromochloromethane	10.56		ug/l	0.50	10		106	70-130		30
Hexachlorobutadiene	9.348		ug/l	0.40	10		93	70-130		30
Chloroethane	11.09		ug/l	1.0	10		111	70-130		30
Ethylbenzene	10.05		ug/l	1.0	10		100	70-130		30
cis-1,3-Dichloropropene	10.16		ug/l	0.40	10		102	70-130		30
cis-1,2-Dichloroethene	10.45		ug/l	1.0	10		104	70-130		30
Chloromethane	11.29		ug/l	1.0	10		113	70-130		30
Chlorobenzene	9.965		ug/l	1.0	10		100	70-130		30
Chloroform	10.17		ug/l	1.0	10		102	70-130		30
m&p-Xylene	20.40		ug/l	1.0	20		102	70-130		30
Carbon Disulfide	9.593		ug/l	1.0	10		96	70-130		30
trans-1,3-Dichloropropene	9.808		ug/l	0.40	10		98	70-130		30
Carbon tetrachloride	9.417		ug/l	1.0	10		94	70-130		30
Tetrahydrofuran (THF)	27.44		ug/l	2.5	25		110	70-130		30
trans-1,4-dichloro-2-butene	52.68		ug/l	5.0	50		105	70-130		30
Benzene	10.09		ug/l	0.70	10		101	70-130		30
Vinyl chloride	11.86		ug/l	1.0	10		119	70-130		30
Trichlorotrifluoroethane	9.270		ug/l	1.0	10		93	70-130		30
1,1,2-Trichloroethane	10.38		ug/l	1.0	10		104	70-130		30
tert-Butylbenzene	9.697		ug/l	1.0	10		97	70-130		30
Styrene	10.35		ug/l	1.0	10		103	70-130		30
sec-Butylbenzene	10.31		ug/l	1.0	10		103	70-130		30
o-Xylene	10.20		ug/l	1.0	10		102	70-130		30
Trichloroethene	9.753		ug/l	1.0	10		98	70-130		30
Methyl ethyl ketone	12.28		ug/l	5.0	10		123	70-130		30
Bromomethane	12.48		ug/l	1.0	10		125	70-130		30
p-Isopropyltoluene	9.811		ug/l	1.0	10		98	70-130		30
n-Propylbenzene	9.985		ug/l	1.0	10		100	70-130		30
trans-1,2-Dichloroethene	10.28		ug/l	1.0	10		103	70-130		30
n-Butylbenzene	10.05		ug/l	1.0	10		101	70-130		30
Naphthalene	9.625		ug/l	1.0	10		96	70-130		30
Methylene chloride	10.20		ug/l	1.0	10		102	70-130		30
Methyl t-butyl ether (MTBE)	10.62		ug/l	1.0	10		106	70-130		30
Trichlorofluoromethane	10.36		ug/l	1.0	10		104	70-130		30
1,1-Dichloroethene	9.726		ug/l	1.0	10		97	70-130		30
1,2-Dibromoethane	10.22		ug/l	1.0	10		102	70-130		30
1,2-Dibromo-3-chloropropane	10.01		ug/l	1.0	10		100	70-130		30
1,2,4-Trimethylbenzene	9.877		ug/l	1.0	10		99	70-130		30
1,2,4-Trichlorobenzene	9.500		ug/l	1.0	10		95	70-130		30
1,2,3-Trichloropropane	10.04		ug/l	1.0	10		100	70-130		30
1,2-Dichloroethane	9.924		ug/l	1.0	10		99	70-130		30
1,1-Dichloropropene	9.762		ug/l	1.0	10		98	70-130		30
1,2-Dichloropropane	10.15		ug/l	1.0	10		101	70-130		30
1,1-Dichloroethane	10.42		ug/l	1.0	10		104	70-130		30
1,1,2,2-Tetrachloroethane	10.72		ug/l	0.50	10		107	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8260C</u>										
Batch 451374A - SW8260C										
<u>LCS (CB68179-LCS)</u>	Prepared: Analyzed: 10-Oct-18									
1,1,1-Trichloroethane	9.463		ug/l	1.0	10		95	70-130		30
1,1,1,2-Tetrachloroethane	10.02		ug/l	1.0	10		100	70-130		30
Bromochloromethane	10.41		ug/l	1.0	10		104	70-130		30
Bromoform	10.44		ug/l	1.0	10		104	70-130		30
1,2,3-Trichlorobenzene	9.444		ug/l	1.0	10		94	70-130		30
2-Chlorotoluene	9.961		ug/l	1.0	10		100	70-130		30
Bromodichloromethane	10.26		ug/l	0.50	10		103	70-130		30
Tetrachloroethene	9.527		ug/l	1.0	10		95	70-130		30
Bromobenzene	9.875		ug/l	1.0	10		99	70-130		30
Acrylonitrile	10.37		ug/l	5.0	10		104	70-130		30
Acetone	10.68		ug/l	5.0	10		107	70-130		30
4-Methyl-2-pentanone	10.95		ug/l	5.0	10		110	70-130		30
1,2-Dichlorobenzene	9.822		ug/l	1.0	10		98	70-130		30
2-Hexanone	10.91		ug/l	5.0	10		109	70-130		30
2,2-Dichloropropane	9.777		ug/l	1.0	10		98	70-130		30
1,4-Dichlorobenzene	9.922		ug/l	1.0	10		99	70-130		30
1,3-Dichloropropane	9.875		ug/l	1.0	10		99	70-130		30
1,3-Dichlorobenzene	9.898		ug/l	1.0	10		99	70-130		30
1,3,5-Trimethylbenzene	9.790		ug/l	1.0	10		98	70-130		30
4-Chlorotoluene	9.846		ug/l	1.0	10		98	70-130		30
Surrogate: % Bromofluorobenzene	9.989		ug/l		10		100	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	10.12		ug/l		10		101	70-130		
Surrogate: % Toluene-d8	10.02		ug/l		10		100	70-130		
Surrogate: % Dibromofluoromethane	9.819		ug/l		10		98	70-130		
<u>LCSD (CB68179-LCSD)</u>	Prepared: Analyzed: 10-Oct-18									
2-Isopropyltoluene	9.758		ug/l	1.0	10		98	70-130	2.0	30
1,3-Dichlorobenzene	9.834		ug/l	1.0	10		98	70-130	1.0	30
1,3-Dichloropropane	9.933		ug/l	1.0	10		99	70-130	0.0	30
1,4-Dichlorobenzene	9.822		ug/l	1.0	10		98	70-130	1.0	30
2,2-Dichloropropane	10.11		ug/l	1.0	10		101	70-130	3.0	30
1,1,1,2-Tetrachloroethane	10.16		ug/l	1.0	10		102	70-130	2.0	30
2-Hexanone	10.41		ug/l	5.0	10		104	70-130	4.7	30
1,2-Dichloroethane	9.773		ug/l	1.0	10		98	70-130	1.0	30
4-Chlorotoluene	9.845		ug/l	1.0	10		98	70-130	0.0	30
4-Methyl-2-pentanone	11.37		ug/l	5.0	10		114	70-130	3.6	30
Acetone	11.46		ug/l	5.0	10		115	70-130	7.2	30
Acrylonitrile	11.09		ug/l	5.0	10		111	70-130	6.5	30
Benzene	10.39		ug/l	0.70	10		104	70-130	2.9	30
2-Chlorotoluene	9.852		ug/l	1.0	10		99	70-130	1.0	30
1,2,3-Trichloropropane	10.20		ug/l	1.0	10		102	70-130	2.0	30
Bromobenzene	9.755		ug/l	1.0	10		98	70-130	1.0	30
1,1,1-Trichloroethane	9.666		ug/l	1.0	10		97	70-130	2.1	30
1,1,2,2-Tetrachloroethane	10.79		ug/l	0.50	10		108	70-130	0.9	30
1,1,2-Trichloroethane	10.69		ug/l	1.0	10		107	70-130	2.8	30
1,1-Dichloroethane	10.60		ug/l	1.0	10		106	70-130	1.9	30
1,1-Dichloroethene	10.19		ug/l	1.0	10		102	70-130	5.0	30
1,3,5-Trimethylbenzene	9.631		ug/l	1.0	10		96	70-130	2.1	30
1,2,3-Trichlorobenzene	9.927		ug/l	1.0	10		99	70-130	5.2	30
1,2-Dichloropropane	10.79		ug/l	1.0	10		108	70-130	6.7	30
1,2,4-Trichlorobenzene	10.01		ug/l	1.0	10		100	70-130	5.1	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
LCSD (CB68179-LCSD)	Prepared: Analyzed: 10-Oct-18									
1,2,4-Trimethylbenzene	9.726		ug/l	1.0	10		97	70-130	2.0	30
1,2-Dibromo-3-chloropropane	9.793		ug/l	1.0	10		98	70-130	2.0	30
1,2-Dibromoethane	10.50		ug/l	1.0	10		105	70-130	2.9	30
1,2-Dichlorobenzene	9.814		ug/l	1.0	10		98	70-130	0.0	30
Dibromochloromethane	10.69		ug/l	0.50	10		107	70-130	0.9	30
1,1-Dichloropropene	9.950		ug/l	1.0	10		99	70-130	1.0	30
Tetrahydrofuran (THF)	28.06		ug/l	2.5	25		112	70-130	1.8	30
Bromochloromethane	11.03		ug/l	1.0	10		110	70-130	5.6	30
n-Butylbenzene	9.821		ug/l	1.0	10		98	70-130	3.0	30
cis-1,2-Dichloroethene	10.68		ug/l	1.0	10		107	70-130	2.8	30
o-Xylene	10.23		ug/l	1.0	10		102	70-130	0.0	30
p-Isopropyltoluene	9.649		ug/l	1.0	10		96	70-130	2.1	30
sec-Butylbenzene	10.14		ug/l	1.0	10		101	70-130	2.0	30
Styrene	10.48		ug/l	1.0	10		105	70-130	1.9	30
Methylene chloride	10.56		ug/l	1.0	10		106	70-130	3.8	30
Tetrachloroethene	9.653		ug/l	1.0	10		97	70-130	2.1	30
Naphthalene	10.45		ug/l	1.0	10		105	70-130	9.0	30
Toluene	10.10		ug/l	1.0	10		101	70-130	1.0	30
trans-1,2-Dichloroethene	10.48		ug/l	1.0	10		105	70-130	1.9	30
trans-1,3-Dichloropropene	9.939		ug/l	0.40	10		99	70-130	1.0	30
trans-1,4-dichloro-2-butene	53.37		ug/l	5.0	50		107	70-130	1.9	30
Trichloroethene	10.22		ug/l	1.0	10		102	70-130	4.0	30
Trichlorofluoromethane	10.51		ug/l	1.0	10		105	70-130	1.0	30
Trichlorotrifluoroethane	9.160		ug/l	1.0	10		92	70-130	1.1	30
Vinyl chloride	11.86		ug/l	1.0	10		119	70-130	0.0	30
tert-Butylbenzene	9.661		ug/l	1.0	10		97	70-130	0.0	30
cis-1,3-Dichloropropene	10.40		ug/l	0.40	10		104	70-130	1.9	30
Carbon Disulfide	9.879		ug/l	1.0	10		99	70-130	3.1	30
Chlorobenzene	10.12		ug/l	1.0	10		101	70-130	1.0	30
Bromomethane	13.28	I	ug/l	1.0	10		133	70-130	6.2	30
Bromoform	10.81		ug/l	1.0	10		108	70-130	3.8	30
n-Propylbenzene	9.728		ug/l	1.0	10		97	70-130	3.0	30
Bromodichloromethane	10.40		ug/l	0.50	10		104	70-130	1.0	30
Methyl t-butyl ether (MTBE)	11.08		ug/l	1.0	10		111	70-130	4.6	30
Carbon tetrachloride	9.584		ug/l	1.0	10		96	70-130	2.1	30
Chloromethane	11.40		ug/l	1.0	10		114	70-130	0.9	30
Chloroethane	11.43		ug/l	1.0	10		114	70-130	2.7	30
Dibromomethane	10.34		ug/l	1.0	10		103	70-130	0.0	30
Dichlorodifluoromethane	11.11		ug/l	1.0	10		111	70-130	0.9	30
Ethylbenzene	10.02		ug/l	1.0	10		100	70-130	0.0	30
Hexachlorobutadiene	9.632		ug/l	0.40	10		96	70-130	3.2	30
Isopropylbenzene	9.786		ug/l	1.0	10		98	70-130	2.0	30
m&p-Xylene	20.00		ug/l	1.0	20		100	70-130	2.0	30
Methyl ethyl ketone	11.79		ug/l	5.0	10		118	70-130	4.1	30
Chloroform	10.48		ug/l	1.0	10		105	70-130	2.9	30
Surrogate: % 1,2-dichlorobenzene-d4	9.989		ug/l		10		100	70-130		
Surrogate: % Bromofluorobenzene	9.938		ug/l		10		99	70-130		
Surrogate: % Toluene-d8	10.06		ug/l		10		101	70-130		
Surrogate: % Dibromofluoromethane	9.832		ug/l		10		98	70-130		
MS (CB68179-MS)	Source: CB68179 Prepared: Analyzed: 10-Oct-18									

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
MS (CB68179-MS)				Source: CB68179		Prepared:	Analyzed: 10-Oct-18			
2-Isopropyltoluene	10.13		ug/l	1.0	10		101	70-130		30
Bromoform	10.26		ug/l	1.0	10		103	70-130		30
4-Chlorotoluene	9.845		ug/l	1.0	10		98	70-130		30
Chloromethane	12.38		ug/l	1.0	10		124	70-130		30
Chloroform	11.01		ug/l	1.0	10		110	70-130		30
Chloroethane	12.28		ug/l	1.0	10		123	70-130		30
Chlorobenzene	10.22		ug/l	1.0	10		102	70-130		30
Carbon tetrachloride	11.33		ug/l	1.0	10		113	70-130		30
cis-1,3-Dichloropropene	10.17		ug/l	0.40	10		102	70-130		30
Bromomethane	10.52		ug/l	1.0	10		105	70-130		30
Dibromochloromethane	10.64		ug/l	0.50	10		106	70-130		30
Bromodichloromethane	10.57		ug/l	0.50	10		106	70-130		30
Bromochloromethane	10.86		ug/l	1.0	10		109	70-130		30
Bromobenzene	9.906		ug/l	1.0	10		99	70-130		30
Benzene	10.74		ug/l	0.70	10		107	70-130		30
Acrylonitrile	11.01		ug/l	5.0	10		110	70-130		30
Acetone	13.50		ug/l	5.0	10		107	70-130		30
Methyl t-butyl ether (MTBE)	11.38		ug/l	1.0	10		114	70-130		30
Carbon Disulfide	10.70		ug/l	1.0	10		107	70-130		30
Methylene chloride	10.69		ug/l	1.0	10		107	70-130		30
Styrene	10.35		ug/l	1.0	10		103	70-130		30
sec-Butylbenzene	10.83		ug/l	1.0	10		108	70-130		30
p-Isopropyltoluene	10.03		ug/l	1.0	10		100	70-130		30
o-Xylene	10.54		ug/l	1.0	10		105	70-130		30
tert-Butylbenzene	10.07		ug/l	1.0	10		101	70-130		30
n-Propylbenzene	10.27		ug/l	1.0	10		103	70-130		30
cis-1,2-Dichloroethene	11.06		ug/l	1.0	10		111	70-130		30
Naphthalene	8.709		ug/l	1.0	10		87	70-130		30
2-Hexanone	10.84		ug/l	5.0	10		108	70-130		30
Methyl ethyl ketone	12.61		ug/l	5.0	10		126	70-130		30
m&p-Xylene	20.84		ug/l	1.0	20		104	70-130		30
Isopropylbenzene	10.32		ug/l	1.0	10		103	70-130		30
Hexachlorobutadiene	9.674		ug/l	0.40	10		97	70-130		30
Ethylbenzene	10.26		ug/l	1.0	10		103	70-130		30
Dichlorodifluoromethane	12.65		ug/l	1.0	10		127	70-130		30
Dibromomethane	10.25		ug/l	1.0	10		103	70-130		30
n-Butylbenzene	10.26		ug/l	1.0	10		103	70-130		30
Toluene	10.75		ug/l	1.0	10		108	70-130		30
Vinyl chloride	13.08	m	ug/l	1.0	10		131	70-130		30
1,1,2-Trichloroethane	10.32		ug/l	1.0	10		103	70-130		30
4-Methyl-2-pentanone	11.25		ug/l	5.0	10		112	70-130		30
1,1,1-Trichloroethane	11.08		ug/l	1.0	10		111	70-130		30
1,1,1,2-Tetrachloroethane	10.21		ug/l	1.0	10		102	70-130		30
1,1-Dichloroethene	11.06		ug/l	1.0	10		111	70-130		30
Tetrahydrofuran (THF)	28.67		ug/l	2.5	25		115	70-130		30
1,1-Dichloroethane	11.55		ug/l	1.0	10		112	70-130		30
trans-1,2-Dichloroethene	11.25		ug/l	1.0	10		112	70-130		30
trans-1,3-Dichloropropene	9.708		ug/l	0.40	10		97	70-130		30
trans-1,4-dichloro-2-butene	49.78		ug/l	5.0	50		100	70-130		30
Trichloroethene	10.64		ug/l	1.0	10		106	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
MS (CB68179-MS)				Source: CB68179		Prepared:	Analyzed: 10-Oct-18			
Trichlorofluoromethane	12.62		ug/l	1.0	10	126	70-130			30
Trichlorotrifluoroethane	10.79		ug/l	1.0	10	108	70-130			30
Tetrachloroethene	10.66		ug/l	1.0	10	107	70-130			30
2-Chlorotoluene	10.02		ug/l	1.0	10	100	70-130			30
1,3,5-Trimethylbenzene	9.972		ug/l	1.0	10	100	70-130			30
1,2-Dichloropropane	10.66		ug/l	1.0	10	107	70-130			30
1,2-Dichloroethane	10.17		ug/l	1.0	10	102	70-130			30
1,1,2,2-Tetrachloroethane	10.66		ug/l	0.50	10	107	70-130			30
1,3-Dichloropropane	10.06		ug/l	1.0	10	101	70-130			30
1,1-Dichloropropene	11.20		ug/l	1.0	10	112	70-130			30
1,3-Dichlorobenzene	9.939		ug/l	1.0	10	99	70-130			30
2,2-Dichloropropane	9.886		ug/l	1.0	10	99	70-130			30
1,2-Dichlorobenzene	9.853		ug/l	1.0	10	99	70-130			30
1,2-Dibromoethane	10.24		ug/l	1.0	10	102	70-130			30
1,2-Dibromo-3-chloropropane	9.814		ug/l	1.0	10	98	70-130			30
1,2,4-Trimethylbenzene	9.957		ug/l	1.0	10	100	70-130			30
1,2,4-Trichlorobenzene	9.029		ug/l	1.0	10	90	70-130			30
1,2,3-Trichloropropane	9.925		ug/l	1.0	10	99	70-130			30
1,2,3-Trichlorobenzene	8.492		ug/l	1.0	10	85	70-130			30
1,4-Dichlorobenzene	10.03		ug/l	1.0	10	100	70-130			30
Surrogate: % 1,2-dichlorobenzene-d4	10.24		ug/l		10	102	70-130			
Surrogate: % Bromofluorobenzene	9.910		ug/l		10	99	70-130			
Surrogate: % Dibromofluoromethane	10.07		ug/l		10	101	70-130			
Surrogate: % Toluene-d8	10.01		ug/l		10	100	70-130			
MSD (CB68179-MSD)				Source: CB68179		Prepared:	Analyzed: 10-Oct-18			
2-Isopropyltoluene	10.12		ug/l	1.0	10	101	70-130	0.0		30
Dibromomethane	10.41		ug/l	1.0	10	104	70-130	1.0		30
Methyl t-butyl ether (MTBE)	11.44		ug/l	1.0	10	114	70-130	0.0		30
Methyl ethyl ketone	12.88		ug/l	5.0	10	129	70-130	2.4		30
m&p-Xylene	20.88		ug/l	1.0	20	104	70-130	0.0		30
Isopropylbenzene	10.23		ug/l	1.0	10	102	70-130	1.0		30
Hexachlorobutadiene	9.824		ug/l	0.40	10	98	70-130	1.0		30
Vinyl chloride	13.60	m	ug/l	1.0	10	136	70-130	3.7		30
Dichlorodifluoromethane	12.60		ug/l	1.0	10	126	70-130	0.8		30
n-Butylbenzene	10.37		ug/l	1.0	10	104	70-130	1.0		30
Dibromochloromethane	10.62		ug/l	0.50	10	106	70-130	0.0		30
cis-1,3-Dichloropropene	10.08		ug/l	0.40	10	101	70-130	1.0		30
cis-1,2-Dichloroethene	11.13		ug/l	1.0	10	111	70-130	0.0		30
Chloromethane	12.55		ug/l	1.0	10	125	70-130	0.8		30
Chloroform	10.88		ug/l	1.0	10	109	70-130	0.9		30
Chloroethane	12.37		ug/l	1.0	10	124	70-130	0.8		30
Ethylbenzene	10.25		ug/l	1.0	10	103	70-130	0.0		30
Tetrachloroethene	10.26		ug/l	1.0	10	103	70-130	3.8		30
Trichlorotrifluoroethane	10.92		ug/l	1.0	10	109	70-130	0.9		30
Trichlorofluoromethane	12.38		ug/l	1.0	10	124	70-130	1.6		30
Trichloroethene	10.56		ug/l	1.0	10	106	70-130	0.0		30
trans-1,4-dichloro-2-butene	51.54		ug/l	5.0	50	103	70-130	3.0		30
trans-1,3-Dichloropropene	9.860		ug/l	0.40	10	99	70-130	2.0		30
trans-1,2-Dichloroethene	11.51		ug/l	1.0	10	115	70-130	2.6		30
Methylene chloride	10.61		ug/l	1.0	10	106	70-130	0.9		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451374A - SW8260C										
MSD (CB68179-MSD)				Source: CB68179		Prepared:	Analyzed: 10-Oct-18			
Tetrahydrofuran (THF)	28.65		ug/l	2.5	25		115	70-130	0.0	30
Naphthalene	10.96		ug/l	1.0	10		110	70-130	23.4	30
tert-Butylbenzene	10.09		ug/l	1.0	10		101	70-130	0.0	30
Styrene	10.44		ug/l	1.0	10		104	70-130	1.0	30
sec-Butylbenzene	10.94		ug/l	1.0	10		109	70-130	0.9	30
p-Isopropyltoluene	10.14		ug/l	1.0	10		101	70-130	1.0	30
o-Xylene	10.40		ug/l	1.0	10		104	70-130	1.0	30
n-Propylbenzene	10.27		ug/l	1.0	10		103	70-130	0.0	30
Bromomethane	11.55		ug/l	1.0	10		115	70-130	9.1	30
Toluene	10.65		ug/l	1.0	10		107	70-130	0.9	30
1,1-Dichloropropene	11.12		ug/l	1.0	10		111	70-130	0.9	30
Chlorobenzene	10.10		ug/l	1.0	10		101	70-130	1.0	30
1,2-Dichlorobenzene	9.888		ug/l	1.0	10		99	70-130	0.0	30
1,2-Dibromoethane	10.19		ug/l	1.0	10		102	70-130	0.0	30
1,2-Dibromo-3-chloropropane	10.62		ug/l	1.0	10		106	70-130	7.8	30
1,2,4-Trimethylbenzene	9.980		ug/l	1.0	10		100	70-130	0.0	30
1,2,4-Trichlorobenzene	10.17		ug/l	1.0	10		102	70-130	12.5	30
1,2-Dichloropropane	10.54		ug/l	1.0	10		105	70-130	1.9	30
1,2,3-Trichlorobenzene	10.38		ug/l	1.0	10		104	70-130	20.1	30
1,3,5-Trimethylbenzene	9.991		ug/l	1.0	10		100	70-130	0.0	30
1,1-Dichloroethene	11.58		ug/l	1.0	10		116	70-130	4.4	30
1,1-Dichloroethane	11.34		ug/l	1.0	10		110	70-130	1.8	30
1,1,2-Trichloroethane	10.87		ug/l	1.0	10		109	70-130	5.7	30
1,1,2,2-Tetrachloroethane	10.77		ug/l	0.50	10		108	70-130	0.9	30
1,1,1-Trichloroethane	11.07		ug/l	1.0	10		111	70-130	0.0	30
1,1,1,2-Tetrachloroethane	10.32		ug/l	1.0	10		103	70-130	1.0	30
1,2,3-Trichloropropane	10.14		ug/l	1.0	10		101	70-130	2.0	30
4-Chlorotoluene	9.786		ug/l	1.0	10		98	70-130	0.0	30
Carbon Disulfide	10.97		ug/l	1.0	10		110	70-130	2.8	30
Bromodichloromethane	10.52		ug/l	0.50	10		105	70-130	0.9	30
Bromochloromethane	11.31		ug/l	1.0	10		113	70-130	3.6	30
Bromobenzene	9.785		ug/l	1.0	10		98	70-130	1.0	30
Benzene	10.68		ug/l	0.70	10		107	70-130	0.0	30
Acrylonitrile	11.18		ug/l	5.0	10		112	70-130	1.8	30
1,2-Dichloroethane	10.36		ug/l	1.0	10		104	70-130	1.9	30
4-Methyl-2-pentanone	11.37		ug/l	5.0	10		114	70-130	1.8	30
Carbon tetrachloride	11.31		ug/l	1.0	10		113	70-130	0.0	30
2-Hexanone	10.81		ug/l	5.0	10		108	70-130	0.0	30
2-Chlorotoluene	9.769		ug/l	1.0	10		98	70-130	2.0	30
2,2-Dichloropropane	9.754		ug/l	1.0	10		98	70-130	1.0	30
1,4-Dichlorobenzene	9.986		ug/l	1.0	10		100	70-130	0.0	30
1,3-Dichloropropane	10.10		ug/l	1.0	10		101	70-130	0.0	30
1,3-Dichlorobenzene	10.01		ug/l	1.0	10		100	70-130	1.0	30
Acetone	13.10		ug/l	5.0	10		103	70-130	3.8	30
Bromoform	10.55		ug/l	1.0	10		106	70-130	2.9	30
Surrogate: % Toluene-d8	10.13		ug/l		10		101	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	10.24		ug/l		10		102	70-130		
Surrogate: % Bromofluorobenzene	10.16		ug/l		10		102	70-130		
Surrogate: % Dibromofluoromethane	10.36		ug/l		10		104	70-130		

Batch 451561A - SW8260C

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
BLK (CB68795-BLK)	Prepared: Analyzed: 11-Oct-18									
2-Isopropyltoluene	ND		ug/kg	5.0			ND	-		
1,3-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Acrylonitrile	ND		ug/kg	5.0			ND	-		
1,2,4-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,2,3-Trichloropropane	ND		ug/kg	5.0			ND	-		
1,3,5-Trimethylbenzene	ND		ug/kg	1.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
1,3-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,4-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
2-Chlorotoluene	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
Trichloroethene	ND		ug/kg	5.0			ND	-		
trans-1,4-dichloro-2-butene	ND		ug/kg	5.0			ND	-		
1,2,4-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Acetone	ND		ug/kg	10			ND	-		
1,1,1-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0			ND	-		
1,1,2-Trichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
trans-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
4-Chlorotoluene	ND		ug/kg	5.0			ND	-		
Methyl Ethyl Ketone	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Hexachlorobutadiene	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
BLK (CB68795-BLK)	Prepared: Analyzed: 11-Oct-18									
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
Tetrahydrofuran (THF)	ND		ug/kg	5.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Surrogate: % Dibromofluoromethane	101		ug/kg		50		101	70-130		
Surrogate: % Bromofluorobenzene	95		ug/kg		50		95	70-130		
Surrogate: % Toluene-d8	99		ug/kg		50		99	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	102		ug/kg		50		102	70-130		
LCS (CB68795-LCS)	Prepared: Analyzed: 11-Oct-18									
2-Isopropyltoluene	38.99		ug/kg	5.0	50		78	70-130		30
1,2,3-Trichlorobenzene	38.07		ug/kg	5.0	50		76	70-130		30
Ethylbenzene	35.67		ug/kg	1.0	50		71	70-130		30
Chloroform	35.80		ug/kg	5.0	50		72	70-130		30
Naphthalene	38.69		ug/kg	5.0	50		77	70-130		30
Methylene chloride	30.27	I	ug/kg	5.0	50		61	70-130		30
Methyl t-butyl ether (MTBE)	42.96		ug/kg	1.0	50		86	70-130		30
Methyl Ethyl Ketone	38.98		ug/kg	5.0	50		78	70-130		30
m&p-Xylene	73.46		ug/kg	2.0	100		73	70-130		30
n-Propylbenzene	36.15		ug/kg	1.0	50		72	70-130		30
Hexachlorobutadiene	34.46	I	ug/kg	5.0	50		69	70-130		30
o-Xylene	36.01		ug/kg	2.0	50		72	70-130		30
Dichlorodifluoromethane	40.13		ug/kg	5.0	50		80	70-130		30
Dibromomethane	36.23		ug/kg	5.0	50		72	70-130		30
Dibromochloromethane	40.49		ug/kg	3.0	50		81	70-130		30
cis-1,3-Dichloropropene	37.00		ug/kg	5.0	50		74	70-130		30
cis-1,2-Dichloroethene	38.88		ug/kg	5.0	50		78	70-130		30
Vinyl chloride	39.78		ug/kg	5.0	50		80	70-130		30
Isopropylbenzene	35.71		ug/kg	1.0	50		71	70-130		30
Toluene	35.06		ug/kg	1.0	50		70	70-130		30
1,1,1,2-Tetrachloroethane	37.85		ug/kg	5.0	50		76	70-130		30
1,2,4-Trichlorobenzene	37.90		ug/kg	5.0	50		76	70-130		30
Trichlorotrifluoroethane	36.77		ug/kg	5.0	50		74	70-130		30
Trichlorofluoromethane	35.96		ug/kg	5.0	50		72	70-130		30
Trichloroethene	36.41		ug/kg	5.0	50		73	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
LCS (CB68795-LCS)					Prepared: Analyzed: 11-Oct-18					
trans-1,4-dichloro-2-butene	230.4		ug/kg	5.0	250		92	70-130		30
n-Butylbenzene	36.00		ug/kg	1.0	50		72	70-130		30
trans-1,2-Dichloroethene	34.96		ug/kg	5.0	50		70	70-130		30
Chloroethane	31.73	I	ug/kg	5.0	50		63	70-130		30
Tetrahydrofuran (THF)	102.4		ug/kg	5.0	125		82	70-130		30
Tetrachloroethene	35.50		ug/kg	5.0	50		71	70-130		30
tert-Butylbenzene	35.09		ug/kg	1.0	50		70	70-130		30
Styrene	36.14		ug/kg	5.0	50		72	70-130		30
sec-Butylbenzene	36.64		ug/kg	1.0	50		73	70-130		30
p-Isopropyltoluene	35.66		ug/kg	1.0	50		71	70-130		30
trans-1,3-Dichloropropene	36.06		ug/kg	5.0	50		72	70-130		30
1,2,3-Trichloropropane	39.49		ug/kg	5.0	50		79	70-130		30
Chloromethane	37.94		ug/kg	5.0	50		76	70-130		30
1,3,5-Trimethylbenzene	35.46		ug/kg	1.0	50		71	70-130		30
1,2-Dichloropropane	35.25		ug/kg	5.0	50		71	70-130		30
1,2-Dichloroethane	37.04		ug/kg	5.0	50		74	70-130		30
1,2-Dichlorobenzene	35.86		ug/kg	5.0	50		72	70-130		30
1,2-Dibromoethane	37.27		ug/kg	5.0	50		75	70-130		30
1,3-Dichloropropane	36.54		ug/kg	5.0	50		73	70-130		30
1,2,4-Trimethylbenzene	35.66		ug/kg	1.0	50		71	70-130		30
1,4-Dichlorobenzene	35.80		ug/kg	5.0	50		72	70-130		30
1,1-Dichloropropene	35.45		ug/kg	5.0	50		71	70-130		30
1,1-Dichloroethene	35.26		ug/kg	5.0	50		71	70-130		30
1,1-Dichloroethane	35.29		ug/kg	5.0	50		71	70-130		30
1,1,2-Trichloroethane	36.27		ug/kg	5.0	50		73	70-130		30
1,1,2,2-Tetrachloroethane	39.61		ug/kg	3.0	50		79	70-130		30
1,1,1-Trichloroethane	35.74		ug/kg	5.0	50		71	70-130		30
1,2-Dibromo-3-chloropropane	41.00		ug/kg	5.0	50		82	70-130		30
Bromobenzene	36.15		ug/kg	5.0	50		72	70-130		30
Chlorobenzene	36.17		ug/kg	5.0	50		72	70-130		30
Carbon tetrachloride	36.33		ug/kg	5.0	50		73	70-130		30
Carbon Disulfide	40.62		ug/kg	5.0	50		81	70-130		30
Bromomethane	31.12	I	ug/kg	5.0	50		62	70-130		30
Bromoform	41.54		ug/kg	5.0	50		83	70-130		30
1,3-Dichlorobenzene	36.24		ug/kg	5.0	50		72	70-130		30
Bromochloromethane	38.24		ug/kg	5.0	50		76	70-130		30
Benzene	35.18		ug/kg	1.0	50		70	70-130		30
Acrylonitrile	39.96		ug/kg	5.0	50		80	70-130		30
Acetone	33.16	I	ug/kg	10	50		66	70-130		30
4-Methyl-2-pentanone	42.25		ug/kg	25	50		84	70-130		30
4-Chlorotoluene	35.64		ug/kg	5.0	50		71	70-130		30
2-Hexanone	39.81		ug/kg	25	50		80	70-130		30
2-Chlorotoluene	35.52		ug/kg	5.0	50		71	70-130		30
2,2-Dichloropropane	34.80		ug/kg	5.0	50		70	70-130		30
Bromodichloromethane	37.59		ug/kg	5.0	50		75	70-130		30
Surrogate: % Bromofluorobenzene	49.83		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	50.18		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	50.19		ug/kg		50		100	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.16		ug/kg		50		100	70-130		
LCSD (CB68795-LCSD)					Prepared: Analyzed: 11-Oct-18					

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
LCSD (CB68795-LCSD)					Prepared: Analyzed: 11-Oct-18					
2-Isopropyltoluene	50.83		ug/kg	5.0	50		102	70-130	26.7	30
Methyl t-butyl ether (MTBE)	52.74		ug/kg	1.0	50		105	70-130	19.9	30
Methyl Ethyl Ketone	47.73		ug/kg	5.0	50		95	70-130	19.7	30
m&p-Xylene	92.05		ug/kg	2.0	100		92	70-130	23.0	30
Isopropylbenzene	45.66		ug/kg	1.0	50		91	70-130	24.7	30
Hexachlorobutadiene	45.48		ug/kg	5.0	50		91	70-130	27.5	30
1,1,1,2-Tetrachloroethane	48.14		ug/kg	5.0	50		96	70-130	23.3	30
Dichlorodifluoromethane	50.99		ug/kg	5.0	50		102	70-130	24.2	30
n-Butylbenzene	47.04		ug/kg	1.0	50		94	70-130	26.5	30
Dibromomethane	45.12		ug/kg	5.0	50		90	70-130	22.2	30
Dibromochloromethane	52.35		ug/kg	3.0	50		105	70-130	25.8	30
cis-1,3-Dichloropropene	46.52		ug/kg	5.0	50		93	70-130	22.8	30
cis-1,2-Dichloroethene	51.25		ug/kg	5.0	50		103	70-130	27.6	30
Chloromethane	47.39		ug/kg	5.0	50		95	70-130	22.2	30
Chloroform	45.06		ug/kg	5.0	50		90	70-130	22.2	30
Chloroethane	39.97		ug/kg	5.0	50		80	70-130	23.8	30
Ethylbenzene	45.74		ug/kg	1.0	50		91	70-130	24.7	30
Tetrachloroethene	45.95		ug/kg	5.0	50		92	70-130	25.8	30
Trichlorotrifluoroethane	45.90		ug/kg	5.0	50		92	70-130	21.7	30
Trichlorofluoromethane	43.77		ug/kg	5.0	50		88	70-130	20.0	30
Trichloroethene	45.76		ug/kg	5.0	50		92	70-130	23.0	30
trans-1,4-dichloro-2-butene	296.2		ug/kg	5.0	250		118	70-130	24.8	30
trans-1,3-Dichloropropene	46.04		ug/kg	5.0	50		92	70-130	24.4	30
trans-1,2-Dichloroethene	43.24		ug/kg	5.0	50		86	70-130	20.5	30
Methylene chloride	37.40		ug/kg	5.0	50		75	70-130	20.6	30
Tetrahydrofuran (THF)	126.0		ug/kg	5.0	125		101	70-130	20.8	30
Naphthalene	48.93		ug/kg	5.0	50		98	70-130	24.0	30
tert-Butylbenzene	44.89		ug/kg	1.0	50		90	70-130	25.0	30
Styrene	46.04		ug/kg	5.0	50		92	70-130	24.4	30
sec-Butylbenzene	47.82		ug/kg	1.0	50		96	70-130	27.2	30
p-Isopropyltoluene	46.76		ug/kg	1.0	50		94	70-130	27.9	30
o-Xylene	45.96		ug/kg	2.0	50		92	70-130	24.4	30
n-Propylbenzene	46.27		ug/kg	1.0	50		93	70-130	25.5	30
Carbon Disulfide	49.79		ug/kg	5.0	50		100	70-130	21.0	30
Toluene	44.13		ug/kg	1.0	50		88	70-130	22.8	30
1,2,3-Trichlorobenzene	48.60		ug/kg	5.0	50		97	70-130	24.3	30
1,2-Dichloropropane	44.38		ug/kg	5.0	50		89	70-130	22.5	30
1,2-Dichloroethane	46.13		ug/kg	5.0	50		92	70-130	21.7	30
1,2-Dichlorobenzene	46.11		ug/kg	5.0	50		92	70-130	24.4	30
1,2-Dibromoethane	47.06		ug/kg	5.0	50		94	70-130	22.5	30
1,2-Dibromo-3-chloropropane	50.81		ug/kg	5.0	50		102	70-130	21.7	30
1,2,4-Trimethylbenzene	45.98		ug/kg	1.0	50		92	70-130	25.8	30
Chlorobenzene	45.61		ug/kg	5.0	50		91	70-130	23.3	30
1,2,3-Trichloropropane	48.22		ug/kg	5.0	50		96	70-130	19.4	30
1,3-Dichloropropane	46.03		ug/kg	5.0	50		92	70-130	23.0	30
1,1-Dichloropropene	44.65		ug/kg	5.0	50		89	70-130	22.5	30
1,1-Dichloroethene	42.50		ug/kg	5.0	50		85	70-130	17.9	30
1,1-Dichloroethane	43.71		ug/kg	5.0	50		87	70-130	20.3	30
1,1,2-Trichloroethane	46.02		ug/kg	5.0	50		92	70-130	23.0	30
Vinyl chloride	49.80		ug/kg	5.0	50		100	70-130	22.2	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
LCSD (CB68795-LCSD)					Prepared: Analyzed: 11-Oct-18					
1,1,2,2-Tetrachloroethane	49.52		ug/kg	3.0	50		99	70-130	22.5	30
1,2,4-Trichlorobenzene	49.88		ug/kg	5.0	50		100	70-130	27.3	30
Acetone	38.99		ug/kg	10	50		78	70-130	16.7	30
1,1,1-Trichloroethane	44.74		ug/kg	5.0	50		89	70-130	22.5	30
Bromomethane	39.03		ug/kg	5.0	50		78	70-130	22.9	30
Bromoform	52.94		ug/kg	5.0	50		106	70-130	24.3	30
Bromodichloromethane	48.29		ug/kg	5.0	50		97	70-130	25.6	30
Bromochloromethane	46.90		ug/kg	5.0	50		94	70-130	21.2	30
Bromobenzene	45.80		ug/kg	5.0	50		92	70-130	24.4	30
1,3,5-Trimethylbenzene	46.15		ug/kg	1.0	50		92	70-130	25.8	30
Acrylonitrile	48.37		ug/kg	5.0	50		97	70-130	19.2	30
1,3-Dichlorobenzene	46.98		ug/kg	5.0	50		94	70-130	26.5	30
4-Methyl-2-pentanone	52.47		ug/kg	25	50		105	70-130	22.2	30
4-Chlorotoluene	45.57		ug/kg	5.0	50		91	70-130	24.7	30
2-Hexanone	49.02		ug/kg	25	50		98	70-130	20.2	30
2-Chlorotoluene	45.25		ug/kg	5.0	50		90	70-130	23.6	30
2,2-Dichloropropane	43.99		ug/kg	5.0	50		88	70-130	22.8	30
1,4-Dichlorobenzene	46.47		ug/kg	5.0	50		93	70-130	25.5	30
Carbon tetrachloride	45.60		ug/kg	5.0	50		91	70-130	22.0	30
Benzene	44.55		ug/kg	1.0	50		89	70-130	23.9	30
Surrogate: % Bromofluorobenzene	50.54		ug/kg		50		101	70-130		
Surrogate: % Dibromofluoromethane	50.57		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	50.22		ug/kg		50		100	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	51.02		ug/kg		50		102	70-130		
MS (CB68795-MS)					Source: CB68795 Prepared: Analyzed: 11-Oct-18					
2-Isopropyltoluene	50.39		ug/kg	5.0	50		101	70-130		30
Ethylbenzene	47.76		ug/kg	1.0	50		96	70-130		30
Naphthalene	50.66		ug/kg	5.0	50		101	70-130		30
Methylene chloride	38.95		ug/kg	5.0	50		78	70-130		30
Methyl t-butyl ether (MTBE)	54.17		ug/kg	1.0	50		108	70-130		30
Methyl Ethyl Ketone	50.36		ug/kg	5.0	50		101	70-130		30
m&p-Xylene	95.98		ug/kg	2.0	100		96	70-130		30
Vinyl chloride	47.70		ug/kg	5.0	50		95	70-130		30
Hexachlorobutadiene	47.31		ug/kg	5.0	50		95	70-130		30
o-Xylene	48.48		ug/kg	2.0	50		97	70-130		30
Dichlorodifluoromethane	40.44		ug/kg	5.0	50		81	70-130		30
Dibromomethane	46.40		ug/kg	5.0	50		93	70-130		30
Dibromochloromethane	51.01		ug/kg	3.0	50		102	70-130		30
cis-1,3-Dichloropropene	44.47		ug/kg	5.0	50		89	70-130		30
cis-1,2-Dichloroethene	47.81		ug/kg	5.0	50		96	70-130		30
Chloromethane	41.53		ug/kg	5.0	50		83	70-130		30
Isopropylbenzene	44.82		ug/kg	1.0	50		90	70-130		30
Toluene	45.23		ug/kg	1.0	50		90	70-130		30
1,1,2,2-Tetrachloroethane	51.12		ug/kg	3.0	50		102	70-130		30
1,1,1-Trichloroethane	41.95		ug/kg	5.0	50		84	70-130		30
Trichlorotrifluoroethane	33.53	m	ug/kg	5.0	50		67	70-130		30
Trichlorofluoromethane	34.78	r	ug/kg	5.0	50		70	70-130		30
Trichloroethene	46.97		ug/kg	5.0	50		94	70-130		30
trans-1,4-dichloro-2-butene	272.9		ug/kg	5.0	250		109	70-130		30
n-Butylbenzene	45.19		ug/kg	1.0	50		90	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
MS (CB68795-MS)	Source: CB68795				Prepared: Analyzed: 11-Oct-18					
trans-1,2-Dichloroethene	42.92		ug/kg	5.0	50		86	70-130		30
n-Propylbenzene	45.69		ug/kg	1.0	50		91	70-130		30
Tetrahydrofuran (THF)	126.6		ug/kg	5.0	125		101	70-130		30
Tetrachloroethene	47.49		ug/kg	5.0	50		95	70-130		30
tert-Butylbenzene	45.31		ug/kg	1.0	50		91	70-130		30
Styrene	49.21		ug/kg	5.0	50		98	70-130		30
sec-Butylbenzene	46.85		ug/kg	1.0	50		94	70-130		30
p-Isopropyltoluene	45.40		ug/kg	1.0	50		91	70-130		30
Chlorobenzene	47.95		ug/kg	5.0	50		96	70-130		30
trans-1,3-Dichloropropene	44.13		ug/kg	5.0	50		88	70-130		30
1,2,4-Trichlorobenzene	49.64		ug/kg	5.0	50		99	70-130		30
Chloroform	43.09		ug/kg	5.0	50		86	70-130		30
1,3,5-Trimethylbenzene	44.44		ug/kg	1.0	50		89	70-130		30
1,2-Dichloropropane	44.59		ug/kg	5.0	50		89	70-130		30
1,2-Dichloroethane	45.28		ug/kg	5.0	50		91	70-130		30
1,2-Dichlorobenzene	48.11		ug/kg	5.0	50		96	70-130		30
1,2-Dibromoethane	49.13		ug/kg	5.0	50		98	70-130		30
1,3-Dichloropropane	47.22		ug/kg	5.0	50		94	70-130		30
1,2,4-Trimethylbenzene	44.94		ug/kg	1.0	50		90	70-130		30
1,4-Dichlorobenzene	47.44		ug/kg	5.0	50		95	70-130		30
1,2,3-Trichloropropane	48.29		ug/kg	5.0	50		97	70-130		30
1,2,3-Trichlorobenzene	49.38		ug/kg	5.0	50		99	70-130		30
1,1-Dichloropropene	43.15		ug/kg	5.0	50		86	70-130		30
1,1-Dichloroethene	35.14	r	ug/kg	5.0	50		70	70-130		30
1,1-Dichloroethane	44.11		ug/kg	5.0	50		88	70-130		30
1,1,2-Trichloroethane	47.82		ug/kg	5.0	50		96	70-130		30
1,2-Dibromo-3-chloropropane	52.96		ug/kg	5.0	50		106	70-130		30
Benzene	44.34		ug/kg	1.0	50		89	70-130		30
1,1,1,2-Tetrachloroethane	49.90		ug/kg	5.0	50		100	70-130		30
Carbon tetrachloride	39.52		ug/kg	5.0	50		79	70-130		30
Carbon Disulfide	33.94	m	ug/kg	5.0	50		68	70-130		30
Bromomethane	35.41	r	ug/kg	5.0	50		71	70-130		30
Bromoform	51.17		ug/kg	5.0	50		102	70-130		30
Bromodichloromethane	45.44		ug/kg	5.0	50		91	70-130		30
1,3-Dichlorobenzene	47.78		ug/kg	5.0	50		96	70-130		30
Bromobenzene	47.04		ug/kg	5.0	50		94	70-130		30
Chloroethane	33.44	m, r	ug/kg	5.0	50		67	70-130		30
Acrylonitrile	52.39		ug/kg	5.0	50		105	70-130		30
Acetone	34.33	m	ug/kg	10	50		69	70-130		30
4-Methyl-2-pentanone	54.08		ug/kg	25	50		108	70-130		30
4-Chlorotoluene	46.35		ug/kg	5.0	50		93	70-130		30
2-Hexanone	51.16		ug/kg	25	50		102	70-130		30
2-Chlorotoluene	46.22		ug/kg	5.0	50		92	70-130		30
2,2-Dichloropropane	38.84		ug/kg	5.0	50		78	70-130		30
Bromochloromethane	48.05		ug/kg	5.0	50		96	70-130		30
Surrogate: % 1,2-dichlorobenzene-d4	50.34		ug/kg		50		101	70-130		
Surrogate: % Bromofluorobenzene	50.35		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	48.82		ug/kg		50		98	70-130		
Surrogate: % Dibromofluoromethane	49.06		ug/kg		50		98	70-130		
MSD (CB68795-MSD)	Source: CB68795				Prepared: Analyzed: 11-Oct-18					

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
MSD (CB68795-MSD)	Source: CB68795				Prepared: Analyzed: 11-Oct-18					
2-Isopropyltoluene	44.36		ug/kg	5.0	50		89	70-130	12.6	30
Benzene	38.41		ug/kg	1.0	50		77	70-130	14.5	30
1,1,1-Trichloroethane	35.94		ug/kg	5.0	50		72	70-130	15.4	30
2-Chlorotoluene	40.82		ug/kg	5.0	50		82	70-130	11.5	30
2-Hexanone	44.17		ug/kg	25	50		88	70-130	14.7	30
4-Chlorotoluene	40.86		ug/kg	5.0	50		82	70-130	12.6	30
4-Methyl-2-pentanone	47.15		ug/kg	25	50		94	70-130	13.9	30
1,4-Dichlorobenzene	41.82		ug/kg	5.0	50		84	70-130	12.3	30
Acrylonitrile	44.97		ug/kg	5.0	50		90	70-130	15.4	30
1,3-Dichloropropane	40.06		ug/kg	5.0	50		80	70-130	16.1	30
Bromobenzene	41.81		ug/kg	5.0	50		84	70-130	11.2	30
Bromochloromethane	42.24		ug/kg	5.0	50		84	70-130	13.3	30
Bromodichloromethane	39.04		ug/kg	5.0	50		78	70-130	15.4	30
Bromoform	44.06		ug/kg	5.0	50		88	70-130	14.7	30
Bromomethane	21.40	m, r	ug/kg	5.0	50		43	70-130	49.1	30
Carbon Disulfide	27.59	m	ug/kg	5.0	50		55	70-130	21.1	30
Acetone	29.60	m	ug/kg	10	50		59	70-130	15.6	30
1,2,4-Trimethylbenzene	39.68		ug/kg	1.0	50		79	70-130	13.0	30
1,1,2,2-Tetrachloroethane	45.68		ug/kg	3.0	50		91	70-130	11.4	30
1,1,2-Trichloroethane	41.67		ug/kg	5.0	50		83	70-130	14.5	30
1,1-Dichloroethane	37.96		ug/kg	5.0	50		76	70-130	14.6	30
1,1-Dichloroethene	23.13	m, r	ug/kg	5.0	50		46	70-130	41.4	30
1,1-Dichloropropene	37.19		ug/kg	5.0	50		74	70-130	15.0	30
1,2,3-Trichlorobenzene	44.58		ug/kg	5.0	50		89	70-130	10.6	30
2,2-Dichloropropane	33.23	m	ug/kg	5.0	50		66	70-130	16.7	30
1,2,4-Trichlorobenzene	44.25		ug/kg	5.0	50		89	70-130	10.6	30
Chlorobenzene	41.07		ug/kg	5.0	50		82	70-130	15.7	30
1,2-Dibromo-3-chloropropane	46.33		ug/kg	5.0	50		93	70-130	13.1	30
1,2-Dibromoethane	42.24		ug/kg	5.0	50		84	70-130	15.4	30
1,2-Dichlorobenzene	42.79		ug/kg	5.0	50		86	70-130	11.0	30
1,2-Dichloroethane	38.68		ug/kg	5.0	50		77	70-130	16.7	30
1,2-Dichloropropane	38.33		ug/kg	5.0	50		77	70-130	14.5	30
1,3,5-Trimethylbenzene	39.04		ug/kg	1.0	50		78	70-130	13.2	30
1,3-Dichlorobenzene	42.41		ug/kg	5.0	50		85	70-130	12.2	30
1,2,3-Trichloropropane	43.42		ug/kg	5.0	50		87	70-130	10.9	30
Toluene	39.20		ug/kg	1.0	50		78	70-130	14.3	30
n-Propylbenzene	40.14		ug/kg	1.0	50		80	70-130	12.9	30
o-Xylene	41.63		ug/kg	2.0	50		83	70-130	15.6	30
p-Isopropyltoluene	40.04		ug/kg	1.0	50		80	70-130	12.9	30
sec-Butylbenzene	41.06		ug/kg	1.0	50		82	70-130	13.6	30
Styrene	41.95		ug/kg	5.0	50		84	70-130	15.4	30
tert-Butylbenzene	39.70		ug/kg	1.0	50		79	70-130	14.1	30
Carbon tetrachloride	34.32	m	ug/kg	5.0	50		69	70-130	13.5	30
Tetrahydrofuran (THF)	109.3		ug/kg	5.0	125		87	70-130	14.9	30
Methylene chloride	32.97	m	ug/kg	5.0	50		66	70-130	16.7	30
trans-1,2-Dichloroethene	36.39		ug/kg	5.0	50		73	70-130	16.4	30
trans-1,3-Dichloropropene	38.32		ug/kg	5.0	50		77	70-130	13.3	30
trans-1,4-dichloro-2-butene	244.3		ug/kg	5.0	250		98	70-130	10.6	30
Trichlorotrifluoroethane	26.99	m	ug/kg	5.0	50		54	70-130	21.5	30
Trichloroethene	41.23		ug/kg	5.0	50		82	70-130	13.6	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 451561A - SW8260C										
MSD (CB68795-MSD)	Source: CB68795				Prepared: Analyzed: 11-Oct-18					
Trichlorofluoromethane	5.049	m, r	ug/kg	5.0	50		10	70-130	150.0	30
Tetrachloroethene	41.03		ug/kg	5.0	50		82	70-130	14.7	30
Dichlorodifluoromethane	35.13		ug/kg	5.0	50		70	70-130	14.6	30
1,1,1,2-Tetrachloroethane	42.65		ug/kg	5.0	50		85	70-130	16.2	30
Chloroethane	7.239	m, r	ug/kg	5.0	50		14	70-130	130.9	30
Chloroform	37.28		ug/kg	5.0	50		75	70-130	13.7	30
Chloromethane	35.44		ug/kg	5.0	50		71	70-130	15.6	30
cis-1,2-Dichloroethene	42.85		ug/kg	5.0	50		86	70-130	11.0	30
cis-1,3-Dichloropropene	38.82		ug/kg	5.0	50		78	70-130	13.2	30
n-Butylbenzene	39.62		ug/kg	1.0	50		79	70-130	13.0	30
Dibromomethane	40.77		ug/kg	5.0	50		82	70-130	12.6	30
Naphthalene	45.19		ug/kg	5.0	50		90	70-130	11.5	30
Ethylbenzene	40.82		ug/kg	1.0	50		82	70-130	15.7	30
Hexachlorobutadiene	41.94		ug/kg	5.0	50		84	70-130	12.3	30
Isopropylbenzene	39.35		ug/kg	1.0	50		79	70-130	13.0	30
m&p-Xylene	81.59		ug/kg	2.0	100		82	70-130	15.7	30
Methyl Ethyl Ketone	39.81		ug/kg	5.0	50		80	70-130	23.2	30
Methyl t-butyl ether (MTBE)	47.35		ug/kg	1.0	50		95	70-130	12.8	30
Vinyl chloride	41.06		ug/kg	5.0	50		82	70-130	14.7	30
Dibromochloromethane	43.93		ug/kg	3.0	50		88	70-130	14.7	30
Surrogate: % Dibromofluoromethane	48.56		ug/kg		50		97	70-130		
Surrogate: % Bromofluorobenzene	49.60		ug/kg		50		99	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.59		ug/kg		50		101	70-130		
Surrogate: % Toluene-d8	48.89		ug/kg		50		98	70-130		

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J.	Estimated Below RL
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
m	This parameter is outside laboratory ms/msd specified recovery limits.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
r	This parameter is outside laboratory rpd specified recovery limits.
R01	The Reporting Limit has been raised to account for matrix interference.
S	S - Laboratory solvent, contamination is possible.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
SAC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
SDUP	Duplicate analysis confirmed surrogate failure due to matrix effects.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
[2C]	Indicates concentration was reported from the secondary, confirmation column.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

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CAD: 0654830/CAFE3210

NORWALK, CT 06851
UNITED STATES US

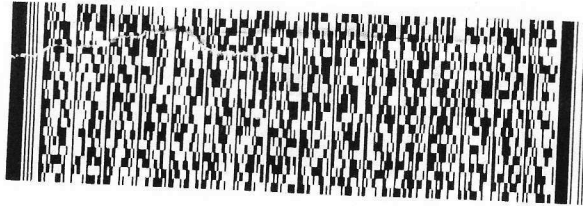
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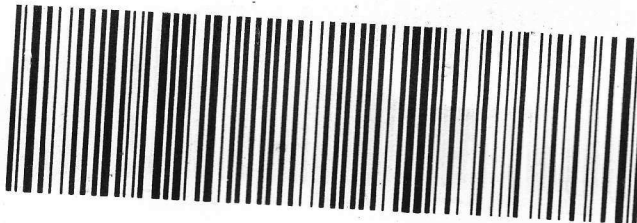
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TUE - 09 OCT 10:30A
PRIORITY OVERNIGHT

EB EHTA

01001

MA-US **BDL**



#484529 10/08 552J1/BBFB/DCA5

Batch Summary

'Inonel'

Subcontracted Analyses

SC50933-02 (B-14 (0-2))
SC50933-03 (B-14 (5-7))
SC50933-07 (B-14A (0-2))

1813459

General Chemistry Parameters

1813459-DUP1
SC50933-02 (B-14 (0-2))
SC50933-03 (B-14 (5-7))
SC50933-07 (B-14A (0-2))

1813545

Semivolatile Organic Compounds by GCMS

1813545-BLK1
1813545-BS1
1813545-BSD1
1813545-DUP1
SC50933-01 (FB20181008 Soil)
SC50933-04 (GW-8)
SC50933-08 (GW-8A)

1813679

Semivolatile Organic Compounds by GC

1813679-BLK1
1813679-BS1
1813679-BSD1
1813679-DUP1
SC50933-04 (GW-8)
SC50933-05 (FB20181008 PCB)
SC50933-08 (GW-8A)

1813738

Semivolatile Organic Compounds by GC

1813738-BLK1
1813738-BS1
1813738-BSD1
1813738-DUP1
1813738-MS1
1813738-MSD1
SC50933-02 (B-14 (0-2))
SC50933-03 (B-14 (5-7))
SC50933-07 (B-14A (0-2))
SC50933-07RE1 (B-14A (0-2))

1813739

Semivolatile Organic Compounds by GCMS

1813739-BLK1
1813739-BS1
1813739-BSD1
SC50933-02 (B-14 (0-2))

SC50933-03 (B-14 (5-7))
SC50933-07 (B-14A (0-2))

1813949

Semivolatile Organic Compounds by GCMS

1813949-BLK1
1813949-BS1
1813949-BSD1
SC50933-02RE1 (B-14 (0-2))

451348A

Subcontracted Analyses

CB68570-BLK
CB68570-LCS
CB68570-LCSD
SC50933-02 (B-14 (0-2))
SC50933-03 (B-14 (5-7))
SC50933-09 (TB-S)

451374A

Subcontracted Analyses

CB68179-BLK
CB68179-LCS
CB68179-LCSD
CB68179-MS
CB68179-MSD
SC50933-04 (GW-8)
SC50933-06 (TB-W)
SC50933-08 (GW-8A)

451561A

Subcontracted Analyses

CB68795-BLK
CB68795-LCS
CB68795-LCSD
CB68795-MS
CB68795-MSD
SC50933-07 (B-14A (0-2))

S821565**Semivolatile Organic Compounds by GCMS**

S821565-CAL1
S821565-CAL2
S821565-CAL3
S821565-CAL4
S821565-CAL5
S821565-CAL6
S821565-CAL7
S821565-CAL8
S821565-CAL9
S821565-CALA
S821565-ICV1
S821565-LCV1
S821565-LCV2
S821565-TUN1

S822029**Semivolatile Organic Compounds by GC**

S822029-CAL1
S822029-CAL2
S822029-CAL3
S822029-CAL4
S822029-CAL5
S822029-CAL6
S822029-CAL7
S822029-CAL8
S822029-CAL9
S822029-CALA
S822029-CALB
S822029-CALC
S822029-CALD
S822029-CALE
S822029-CALF
S822029-CALG
S822029-CALH
S822029-CALI
S822029-CALJ
S822029-CALK
S822029-CALL
S822029-CALM
S822029-CALN
S822029-CALO
S822029-CALP
S822029-CALQ
S822029-CALR
S822029-CALS
S822029-CALT
S822029-CALU
S822029-ICV1
S822029-ICV2
S822029-ICV3
S822029-ICV4
S822029-ICV5
S822029-ICV6

S822029-LCV1
S822029-LCV2
S822029-LCV3
S822029-LCV4
S822029-LCV5
S822029-LCV6

S822642**Semivolatile Organic Compounds by GCMS**

S822642-CCV1
S822642-TUN1

S822674**Semivolatile Organic Compounds by GC**

S822674-CCV1
S822674-CCV2
S822674-IBL1
S822674-IBL2

S822677**Semivolatile Organic Compounds by GCMS**

S822677-CCV1
S822677-TUN1

S822686**Semivolatile Organic Compounds by GC**

S822686-CCV1
S822686-CCV2
S822686-IBL1
S822686-IBL2

S822699**Semivolatile Organic Compounds by GC**

S822699-CCV1
S822699-CCV2
S822699-CCV3
S822699-CCV4
S822699-IBL1
S822699-IBL2
S822699-IBL3

S822701**Semivolatile Organic Compounds by GC**

S822701-CCV1
S822701-CCV2
S822701-CCV3
S822701-IBL1
S822701-IBL2

S822705**Semivolatile Organic Compounds by GCMS**

S822705-CCV1
S822705-TUN1

S822724

Semivolatile Organic Compounds by GCMS

S822724-CCV1

S822724-TUN1

S822753

Semivolatile Organic Compounds by GCMS

S822753-CCV1

S822753-TUN1

S822803

Semivolatile Organic Compounds by GCMS

S822803-CCV1

S822803-TUN1

