

**ENVIRONMENTAL EVALUATION**

**415 AND 441 CHANDLER STREET  
JAMESTOWN, NEW YORK**

**NYSDEC SPILL FILE No. 1808886**

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## 1.0 INTRODUCTION

Day Environmental, Inc. (DAY) prepared this report that summarizes the findings of environmental studies completed at the above-referenced property (Site) between September 5, 2018 and January 2, 2019 (collectively referred to as the environmental evaluation or studies). These studies were completed in accordance with proposals dated August 31, 2018, October 29, 2018 and October 12, 2018 (Revised December 10, 2018). A project locus map identifying the location of the Site is included as Figure 1.

### 1.1 Background

Currently the 7-acre Site is developed with two buildings including an approximate 105,000 square foot building (the 'Main Building', located on the tax parcel addressed 441 Chandler St.) constructed in about 1910 (with subsequent additions), and an approximate 39,000 square foot building (the 'Plating Building', located on the tax parcel addressed 415 Chandler St.) constructed in about 1975. The Site is bisected by the Chadakoin River and the Main Building is located on the east side of the river and the Plating Building is located on the west side of the river. The buildings are connected by a covered bridge/pathway.

A Site Plan showing the current layout of the Weber Knapp Co. facility overlain on an aerial photograph circa 2016 is included as Figure 2. Copies of historic Sanborn Fire Insurance maps, which depict former operations in the vicinity of the Site for the years 1891, 1902, 1930, 1949, and 1982 are overlain on the current layout of the Weber Knapp facility and included in Appendix A.

The Main Building is currently used for manufacturing, warehousing and office operations. In the 1930s, a brass foundry was located in the area that is now the northwestern portion of the Main Building. The original footprint of the building was expanded to the north and east over the Morse Avenue Right-of-Way (ROW) and former residential properties between the 1940's and the 1960's. Between about 1969 and 1993, degreasing operations using trichloroethene (TCE) based solvent was conducted in the central portion of the Main Building.

On February 9, 1989, cutting oil was released (spilled) at the Site when a delivery line broke while transferring product. This spill reportedly occurred "on the sidewalk at the back corner of the building" (i.e., the northeast corner of the Main Building) and it was "... immediately contained to an area approximately 10 feet (ft.) by 30 ft. by forming a dike of absorbent clay and snow". The release was reported to the NYSDEC and spill file No.8808794 was opened. The NYSDEC spill file report indicates that approximately 15 gallons of cutting oil was spilled and that the spill was cleaned up by the material supplier (i.e., American Lubricants) and, subsequent to an inspection of the spill area by the NYSDEC, spill file No. 8808794 was closed on April 3, 1989. Until November 2018, when apparent floating product was detected during the studies described in this report and NYSDEC Spill No. 1808886 was opened, no other spills were identified at the Site.

The Plating Building contains several metals plating lines in the eastern portion of the building and a wastewater treatment plant in the western portion of the building. A chrome plating line and black chromate treated zinc line that utilized hexavalent chromium formerly operated in the northeastern portion of the Plating Building. The chrome plating operation ran from the mid-1970's until 1995, and the black chromate finish operation ran from mid-1970's until 2004.

As depicted on the 1891, 1902, 1930 and 1949 Sanborn Fire Insurance Maps included in Appendix



A, former structures, used for apparent commercial and manufacturing purposes on the 415 Chandler St. property (i.e., the parcel where the Plating Building is currently located) include:

- The A.C. Norquist furniture factory from at least 1891 until it was demolished sometime in the 1970s prior to the construction of the Plating Building contained drying kilns, painting, furniture manufacturing and warehousing operations.
- The 1930 Sanborn Fire Insurance Map depicts Jamestown Metal Products, Inc. (manufactures of metal cabinets), Quality Lumber Inc. (lumber and builders supplies), Johnson Daniels Co. (lumber dealers) and a portion of the Allied Furniture Company located on the western edge of the Site (i.e., along River St.). These businesses are not depicted on the 1949 Sanborn Fire Insurance Map, and have been replaced by the Pearl City Mills (Grain and Feed), a private garage and auto freight stations, and several small structures labeled Norquist Products, Inc.
- A railroad spur line, operated by the Eire Railroad and servicing the A.C. Norquist facility, was formerly located on the west side of the river. The 1930 and 1949 Sanborn Fire Insurance Maps depict the railroad spur line beginning north of Chandler St. and trending to the northwest, roughly parallel with the river.

The DC Rollforms property, which is located adjacent to the Site to the north on the east side of the Chadakoin River, is a New York State (NYS) listed superfund site [New York State Department of Environmental Conservation (NYSDEC) Site No. 907019]. The primary contaminants of concern at the DC Rollforms site are TCE and associated breakdown products.

A release of hydraulic oil at the TRW Bearing Division property, which is located adjacent to the Site to the south on the west side of the Chadakoin River, was reported to the NYSDEC in July 1986 and spill file No.189702 was opened. Information included in NYSDEC spill file No. 189702 indicates that remediation efforts have been ongoing at the TRW Bearing Division property since 1988 and was ongoing as of December 31, 2017. As part of the remediation efforts conducted at this site, it is reported that between August 1 and December 31, 2017, the average rate of groundwater extraction by the pumping system installed at the TRW Bearing Division property was approximately 11.5 gallons per minute (gpm).

## **1.2 Previous Environmental Studies**

To date, the following environmental studies were completed at the Site and copies of these reports were provided to DAY:

*Babcock Industries, Inc. Environmental Assessment, Weber-Knapp Division, 441 Chandler Street, Jamestown, NY, dated February 14, 1989-Prepared by Dames & Moore (the Dames & Moore Environmental Assessment); and*

*Environmental Site Assessment Report, Weber-Knapp Company, 415, 441, 448 and an Unaddressed Parcel on Chandler Street, Jamestown, New York, dated July 5, 2011-Prepared by LCS, Inc. (the LCS Phase I ESA).*

In conjunction with the Dames & Moore Environmental Assessment, ten soil gas and five groundwater samples were collected and screened using a portable Gas Chromatograph. TCE was detected in two of the soil vapor samples tested (i.e., a location north of the Main Building in proximity of the DC Rollforms site and a location southeast of the Main Building). TCE was detected in groundwater samples collected from north of the Main Building (in proximity of the location where TCE was detected in the soil gas) and east of the Plating Building.

The LCS Phase I ESA included the following “known or suspect” recognized environmental conditions (RECs):

- *“The subject property was historically utilized for the manufacturing of furniture from at least 1891 through 1966 and has been utilized as a manufacturer of metal hardware since at least 1930.*
- *Three UTSs were filled-in-place north of the main building in 1987; no post-closure soil or groundwater sampling was apparently conducted.*
- *Hazardous/regulated materials located on-site included general cleaning supplies, Caustics, Alkalines, Mineral Acids, cyanide components, waste-water treatment chemicals, paints, waxes, dyes and oils/lubes.*
- *Solid/hazardous/regulated wastes generated on-site included waste oil, waste-water treatment sludge, scrap metal and gas cylinders. No releases or spills were noted in the vicinity of these wastes.*
- *Dry machine pits (no outlets) were noted throughout the shop area of the main building. Pits were also noted in the plating building; material collected in these pits is processed in the on-site waste water treatment plant. In addition, a containment pit was noted in the vicinity of the scrap metal dumpsters. Such reportedly collects any access oils from the waste scrap metal and is pumped out when full.*
- *A previous study also identified concerns associated with an historic vapor degreaser and documented VOCs and TCE in soil, groundwater and/or soil gas.*
- *According to the First Search report, the subject property was listed as a RCRA TSD-Facility with all violations resolved; RCRA CORRACTS facility with a low priority for corrective action; RCRA large quantity generator of hazardous waste with all violations resolved; FINDS database due to NPDES, NEI, FIS and RCRA, FRS, TRIS and AIRS listings; TRIS site with a status of “open”*
- *According to the FirstSearch report, the subject property was listed as a UST/AST facility with the following tanks identified on-site:*
  - *One 15,000-gallon #6 fuel oil AST installed in 1977 and currently in service.*
  - *One 275-gallon #2 fuel oil AST installed in 1974 and currently in service*
  - *One 2,000-gallon #2 fuel oil UST installed in 1948 and closed prior to micro-conversion in 1991.*
  - *One 10,000-gallon #2 fuel oil UST installed in 1973 and closed prior to micro-conversion in 1991.*
  - *The subject property was listed as a CBS AST facility with the following ASTs identified on-site:*
    - *One 1,500-gallon AST and one 2,000-gallon AST of trichloroethene installed in 1989 and closed/removed in 1994.*
    - *One 5,700-gallon Sodium Hydroxide AST installed in 1977 and currently in service.*

- *South adjacent properties were identified as MRC Bearings and Dahl-Strom Sheet Metal.*
- *A west adjacent property was identified as Star Refrigeration.*
- *A north adjacent property was fallow land with a remediation shed.*
- *According to the FirstSearch report, a south adjacent property at 402 Chandler Street, was identified as a RCRA generator with no unresolved violations; ERNS site due to release of oil/water mixture; TRIS listings; UST site; and, spill listings. One (Spill No. 8602953) involved a UST failure and is classified as active.*
- *A north adjacent property at 583 Allen Street, was identified as a RCRA TSD facility with all violations resolved; RCRA CORRACTS listed facility with a medium priority for corrective action; RCRA Large-Quantity Generator with no violations listed; and, a NYSDEC listed state hazardous waste site.”*

### **1.3 Spill Report**

During the performance of the work described in this report, evidence of a historic petroleum release at the Site became apparent. As a result, on November 21, 2018 a DAY representative called the NYSDEC Region 9 Spills Division on behalf of the Weber Knapp Co. to report this historic release (i.e., the presence of light non-aqueous phase liquid encountered in monitoring well MW-A). The NYSDEC opened spill file 1808886 at that time and subsequently requested a copy of a report describing the findings of work completed to assess environmental conditions at the Site.

### **1.4 Sampling Rationale**

The purpose of the work described herein was to conduct intrusive studies, to obtain site-specific information about current environmental conditions at the Site. The primary rationale for selecting the test locations that were completed during this study are provided on Table 1, and the approximate test locations are depicted on Figure 2. Information obtained from a review of the Sanborn Fire Insurance Maps was also used to assist in the selection of test locations for these studies (refer to Appendix A).

### **1.5 Limitations**

The findings and conclusions presented in this report are based upon an evaluation of the data and samples collected/tested during the studies described herein; and DAY’s interpretation of this information. Conditions between test and sample locations may vary. As such, the findings and conclusions presented herein should be considered as a professional opinion based solely on the scope of work completed. If additional data becomes available in the future, it may be necessary to re-evaluate the findings and conclusions provided in this report.

## **2.0 FIELDWORK AND ANALYTICAL LABORATORY TESTING**

### **2.1 Screening Level Studies**

#### *2.1.1 Soil Vapor Screening*

On September 5, 2018, DAY collected six sub-slab soil vapor samples (designated SSV-1 through SSV-6) from below the concrete floor slabs of the Main Building and the Plating Building. The approximate locations of the soil vapor samples collected on September 5, 2018 are depicted on Figure 2. These soil vapor samples were collected in proximity to the former vapor degreaser (i.e., SSV-1 and SSV-2), the adjacent NYSDEC Superfund Site No. 907019 (SSV-3 through SSV-5), closed in-place underground storage tanks (USTs) located outside the northeast portion of the Main Building (SSV-3 and SSV-4), and the location where TCE was detected in groundwater samples collected east of the Plating Building during the 1989 environmental assessment (i.e., SSV-6).

Samples SSV-1 through SSV-6 were collected in general accordance with the provisions outlined in the New York State Department of Health (NYSDOH) Guidance Document titled, *“Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York”* dated October 2006 (NYSDOH Guidance Document).

A DAY representative installed each sub-slab vapor sampling point by advancing a 0.375-inch diameter drill bit through the concrete floor slab, and into the underlying soil using a hammer drill. Upon reaching the targeted depth (i.e., approximately two inches below the bottom of the floor slab), a slotted portion of 0.375-inch outer diameter low density polyethylene tubing was placed in the drill hole to approximately two inches below the bottom of the slab. The drill hole was then sealed with hydrated bentonite.

Prior to sampling, each soil vapor point was purged of three to four volumes of air at a flow rate that did not exceed 0.2 liters per minute. Subsequent to purging, samples were collected using a batch certified six-liter Summa canister equipped with a two-hour regulator provided by the analytical laboratory. The vacuum readings were recorded at the start of the test and monitored throughout the test. Following sampling, each sub-slab vapor probe was removed, the floor slabs were patched with concrete, and the Summa canisters were transported under chain-of-custody control to the analytical laboratory and tested for volatile organic compounds (VOCs). Sampling logs, documenting the collection of soil vapor samples SSV-1 through SSV-6, are provided in Appendix B.

#### *2.1.2 Concrete Floor Slab Testing*

On September 5, 2018, DAY collected core samples (designated CFS-A through CFS-F) from the concrete floor slabs at six locations in the Main Building and the Plating Building using a frame-mounted electric core drill. Each sample was located within a current or former plating line area (i.e., CFS-A through CFS-D and CFS-F, respectively) or from a sump pit in the wastewater treatment area (i.e., CFS-E). The approximate locations of the concrete core samples collected on September 5, 2018 are depicted on Figure 2.

At each location, a DAY representative advanced a 1.5-inch diameter core bit through the concrete floor slab to collect samples for observation and testing. [Note: drilling at location CFS-E (i.e., in the sump located within the wastewater treatment plant in the Plating Building) was terminated prior to reaching the bottom of the concrete floor slab in order to prevent the intrusion of groundwater into the sump from the subsurface below.] Each concrete core sample, to the extent recovered, was observed for competency, photographed, and a ‘surficial’ (i.e., 0-2 inch) and a ‘deep’ sample (greater than 2 inches below the surface) from each sample was retained for subsequent testing by an analytical laboratory for USEPA Resource Conservation and Recovery Act (RCRA)-List metals and total cyanide. Sampling logs, documenting the collection and condition of concrete core samples CFS-A through CFS-F, are provided in Appendix C.

## **2.2 Subsurface Evaluations**

### *2.2.1 November 6 and 8, 2018*

Between November 6 and 8, 2018, DAY completed a subsurface study in the vicinity of the former TCE degreaser, in areas presumed to be potentially hydraulically downgradient of the former vapor degreaser, and in the northwestern portion of the Main Building.

On November 6, 2018, four test borings (designated MW-A through MW-D) were advanced to equipment refusal encountered at depths of between 9.5 feet (ft.) below ground surface (bgs) and thirteen ft. bgs using a track-mounted drill-rig utilizing direct-push drilling methodologies. The locations of test borings MW-A through MW-D are presented on Figure 2.

Soil samples collected during the advancement of the test borings were observed to evaluate stratigraphic conditions, and for evidence of potential environmental impact (e.g., staining, unusual odors, etc.). In addition, a PID was used to scan the air space above the samples collected. Logs, describing the conditions (i.e., materials encountered, PID readings, evidence of impact, etc.) of the samples collected during the advancement of test borings are included in Appendix D. Select soil samples were retained and transported under chain-of-custody control to the analytical laboratory and tested for halocarbons.

Upon completion of drilling, each test boring was converted into a groundwater monitoring well. Each well was constructed using a one-inch diameter polyvinyl chloride (PVC) screen attached to a threaded solid PVC riser with a PVC cap that extended to just below the ground surface. To the extent possible, the annulus around, and above the screen was backfilled with a sand pack, and the remaining annulus above the sand pack was backfilled with bentonite grout. A flush-mounted protective casing was installed above each monitoring well. Construction diagrams for monitoring wells MW-A through MW-D are included in Appendix D.

On November 8, 2018, a DAY representative returned to the Site, evaluated each of the newly installed groundwater monitoring wells for the presence of light non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquid (DNAPL), and developed groundwater monitoring wells MW-A through MW-D by removing between approximately 6.5 and 11.5 well volumes of water and sediment from each location, until stabilized in-situ readings of pH, specific conductivity, oxidation-reduction potential (ORP) and temperature were observed. Following development, groundwater samples were collected from monitoring well MW-A through MW-D and submitted to an analytical laboratory for testing of halocarbons. In addition,

a sample of LNAPL encountered in monitoring well MW-A, and a sample of the sediment that was removed from the bottom of monitoring well MW-A during well development, were also retained and submitted for testing of halocarbons. The monitoring well development and groundwater sampling activities are documented on the logs included in Appendix E and Appendix F, respectively.

On November 8, 2018, DAY measured monitoring point elevations and top of floor surface adjacent to the groundwater monitoring wells relative to an arbitrary datum using a Topcon™ model RL-H4C long-range self-leveling construction laser.

### *2.2.2 December 17, 2018 to January 2, 2019*

Between December 17, 2018 and January 2, 2019, DAY completed additional studies to characterize subsurface conditions at the Site and assess the need for and extent of remediation that may be required to address potential environmental impacts attributable to current and historic uses.

Between December 17 and 20, 2018, twenty-two test borings (designated TB-01 through TB-22) were advanced to depths of between ten ft. bgs and sixteen ft. bgs using a track-mounted drill-rig utilizing direct-push drilling methodologies. [Note: At test boring locations TB-01 and TB-02, 3.25-inch ID hollow stem augers (HSA) were used to advance the test borings to equipment refusal to allow the installation of 2-inch diameter monitoring wells.] The locations of test borings TB-01 through TB-22 are presented on Figure 2. Soil samples collected during the advancement of the test borings were evaluated as described above, and logs describing the conditions of the samples collected during the advancement of test borings TB-01 through TB-22 are included in Appendix D. Select soil samples collected from the test borings were retained and transported under chain-of-custody control to the analytical laboratory and tested for VOCs, semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs) and/or halocarbons.

Upon completion of drilling, test borings TB-01, TB-02, and TB-06 through TB-21 were converted into groundwater monitoring wells (designated MW-E through MW-T, TB-11 and TB-18). Monitoring wells MW-G, MW-H, MW-I, MW-J, MW-N, MW-R, MW-S, and MW-T were constructed using one-inch diameter PVC, as described above. Monitoring wells MW-K, MW-L, MW-M, MW-O, MW-P, MW-Q, TB-11 and TB-18 were also constructed using one-inch diameter PVC, as described above, but these wells were not completed with a flush-mounted protective casing at the surface, rather the PVC risers extend unprotected, approximately 2-3.5 ft. above the ground surface. Following the advancement of test borings TB-01 and TB-02 to equipment refusal depths of approximately 12.6 ft. bgs and 12.8 ft. bgs, respectively using HSA, 2-inch diameter PVC monitoring wells [i.e., designated MW-E (TB-01) and MW-F (TB-02)] were installed and completed with a flush-mounted protective cover. Monitoring wells MW-E and MW-F contain a two-foot-long well screen that is sealed within the glacial till/fractured bedrock interface. Construction diagrams for monitoring wells MW-E through MW-T, TB-11 and TB-18 are included in Appendix D.

On December 20, 2018, a one-inch diameter PVC screen attached to a threaded solid PVC riser was installed vertically into the east bank of the Chadakoin River bed, for the purpose of gauging the water elevation in the river bed in relation to the groundwater elevation at the Site. The PVC

screen extended from approximately one foot into the river bed sediment to approximately three feet above the top of the water surface, and the vertical PVC riser extended approximately 8.4 ft. above the top of the water surface, on that date. The PVC riser was secured to a chain-link fence that is constructed above the retaining wall located along the east bank of the river. This structure is here-in referred to as the river gauge. The approximate location of the river gauge is depicted on Figure 2.

Between December 19 and 21, 2018, groundwater monitoring wells MW-E through MW-T, TB-11 and TB-18 were evaluated for the presence of LNAPL, DNAPL and developed in preparation for sampling. The monitoring well development activities are documented on the logs included in Appendix E.

Between December 26 and 27, 2018, DAY representatives collected groundwater samples from monitoring wells MW-A through MW-L, MW-N through MW-T, TB-11 and TB-18 utilizing low-flow purging and sampling methods. The sampling was conducted in accordance with procedures described in ASTM D6771-02, Standard Practice for Low-Flow Purging and Sampling for Wells and Devices Used for Ground-Water Quality and Investigations. The groundwater sampling activities are documented on the logs included in Appendix F. The groundwater samples collected between December 26 and 27, 2018 were transported under chain-of-custody control to the analytical laboratory and tested for VOCs, SVOCs, PCBs, RCRA metals, total cyanide and/or halocarbons (see below for additional discussion of the analytical laboratory testing completed).

The top of PVC riser elevations, and top of floor surface and/or ground surface adjacent to groundwater monitoring well MW-E through MW-T, TB-11 and TB-18, were measured on December 27, 2018 by DAY using a Topcon™ model RL-H4C long-range self-leveling construction laser. The top of PVC riser elevation of the river gauge was also measured at that time. These measurements were conducted using the same benchmark that was used to survey the elevations of MW-A through MW-D on November 8, 2018

A DAY representative returned to the site on January 2, 2019 to collect groundwater samples from select monitoring wells to assess 1,4-dioxane and perfluorinated compounds (PFCs). Specifically, monitoring wells MW-C, MW-H and MW-P, MW-Q and MW-R were purged and sampled by low-flow methods using materials approved by NYSDEC guidance to ensure that the water collected for testing is representative of the groundwater quality [e.g., disposable high density polyethylene (HDPE) tubing was used to collect samples into pre-cleaned sample bottles with closures provided by the analytical laboratory]. Prior to sample collection, the groundwater purged from each well was monitored for pH, ORP, specific conductance, and temperature. An additional quantity of groundwater was collected from monitoring well MW-Q for use by the analytical laboratory as a site specific matrix spike / matrix spike duplicate (MS/MSD), and an additional groundwater sample was collected from monitoring well MW-Q and submitted as a duplicate sample. In addition, one equipment rinsate sample (i.e., collected by pouring “PFC-free” water over the static water level tape which was used in each of the groundwater monitoring wells during sample collection, and retaining a sample for testing) was collected on January 2, 2019. The groundwater sampling activities are documented on the logs included in Appendix F.

## 2.3 Analytical Laboratory Testing

Select concrete core samples, soil samples and groundwater samples collected from the test borings/monitoring wells advanced/installed during these studies were submitted to Eurofins Spectrum Analytical (Eurofins), which is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified analytical laboratory. The soil vapor samples that were collected on September 5, 2018 were submitted to ALS Environmental (ALS), which is also a NYSDOH ELAP certified analytical laboratory. The samples submitted to ALS and Eurofins for testing, and the test parameters, are summarized on Table 2: 415 and 441 Chandler Street, Jamestown, New York - Environmental Evaluation Analytical Laboratory Testing Program. Copies of the analytical laboratory reports prepared by ALS and Eurofins, and executed chain-of-custody documentation, are included in Appendix G.

The constituents detected in the samples submitted for analytical laboratory testing as part of this study are summarized on the following tables:

Table 3	Summary of Detected VOCs: Soil Vapor Samples
Table 4	Summary of RCRA Metals and Total Cyanide: Concrete Samples
Table 5	Summary of Detected VOCs: Soil Samples
Table 6	Summary of Detected SVOCs: Soil Samples
Table 7	Summary of Detected VOCs: Groundwater Samples
Table 8	Summary of Detected SVOCs: Groundwater Samples
Table 9	Summary of RCRA Metals and Total Cyanide: Groundwater Samples
Table 10	Summary of Detected Perfluorinated Compounds and 1,4-Dioxane: Groundwater Samples

[Note: Polychlorinated biphenyls (PCBs) were ‘Not detected’ above the detection limits utilized by the analytical laboratory in the samples tested as part of this study. As such, no summary table for PCBs was prepared.]

Table 5 and Table 6 include soil cleanup objectives (SCOs) identified in NYCRR Part 375 for the “Unrestricted Use” and for the “Restricted Industrial Use” criteria. [Note: The “Unrestricted Use” criteria indicate the concentration below which remediation of the soil is not required, and that the use of the soil on the Site is not restricted for the protection of public health, groundwater and/or ecological resources. “Restricted Industrial Use” falls under the “Restricted Use” criteria, which indicates that impacted soil may remain at the Site, though restrictions to the Site, such as environmental easements, clean fill cover placement, the development of a site management plan (SMP), etc., are imposed, and the uses of the Site are limited to minimize human and ecological exposure to the impacted material. Although the Site is not currently enrolled in a cleanup program administered by the NYSDEC, the Restricted Industrial Use SCO may be the most applicable of the “Restricted Use” SCO for the current use of the Site (i.e., a manufacturing facility).]

Table 7, Table 8 and Table 9 include the applicable Class GA (i.e., potable drinking water from a groundwater source) standards or guidance values for the detected parameters as presented in NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled, Ambient Water Quality Standards and Guidance Effluent Limitations dated June 1998 as amended April 2000 (TOGS 1.1.1).



## **3.0 FINDINGS**

### **3.1 Concrete Floor Core Samples**

A visual examination of the concrete core samples collected on September 5, 2018 did not identify degradation of the concrete below the floor surface at the locations sampled. Staining was observed on the surface of one concrete core sample (i.e., CFS-B) and this staining extended approximately 0.01 ft. below the floor surface or approximately 1% of the concrete slab thickness at this location. One or more horizontal fractures were noted in each concrete core sample collected, except for sample CFS-F. However, no staining or evidence of deterioration along the plane of fracture (i.e., weathering from liquid migration along the fracture) was observed in the samples collected. Refer to the logs/photographs included in Appendix C.

### **3.2 Soil Vapor Samples**

One or more VOC compound was detected in each of the soil vapor samples collected on September 5, 2018 from beneath the floor slabs in the Main Building and the Plating Building. Further, one or more halocarbon (primarily TCE and break-down products) were detected in each sample tested. The highest concentration of TCE (i.e., 110,000  $\mu\text{g}/\text{m}^3$ ) was measured in SSV-1, the sub-slab sample that was collected in proximity of the former vapor degreaser that utilized TCE. However, elevated TCE concentrations were also detected in the sub-slab samples collected nearest to the DC Rollforms site (i.e., the TCE concentrations in SSV-4 and SSV-5 were 13,000  $\mu\text{g}/\text{m}^3$  and 44,000  $\mu\text{g}/\text{m}^3$ , respectively). In addition, although petroleum-related constituents (e.g., benzene, toluene, ethylbenzene, and xylene-BTEX) were detected in the soil vapor samples, the concentrations measured were relatively low and consistent throughout the Site (i.e., the BTEX concentrations measured in proximity to closed in place petroleum tank areas were not higher than other locations).

### **3.3 Subsurface Conditions**

#### *3.3.1 Main Building*

Fill/reworked soil was encountered in each test boring advanced within, and around the perimeter of, the Main Building (i.e., MW-A through MW-F, TB-01 through TB-14 and TB-22) beginning below the concrete floor/pavement surface. The fill material encountered generally consists of sand and gravel, extending to depths ranging between approximately 2.5 ft. bgs (i.e., TB-08) and 9.5 ft. bgs (i.e., MW-D). In some locations, the fill material is with lesser amounts of concrete fragments (i.e., MW-A, TB-07, TB-09 and TB-10 ), brick (i.e., MW-B, TB-09 and TB-22), ash (i.e., MW-C, MW-D and TB-01), coal fragments (i.e., MW-C, TB-01 and TB-05 ), glass shards (i.e., MW-D, TB-04, TB-13 and TB-22), metal fragments (i.e., MW-D), cinders (i.e., TB-01, TB-02, TB-06, TB-08, TB-11 and TB-12), crushed rock (i.e., TB-08) and/or wood/plant fibers (i.e., TB-13). Indigenous soil was encountered below the fill in each test boring. The indigenous soil generally consists of a silt layer containing plant fibers/peat material that extends to depths between 6 ft. bgs (i.e., TB-03) and 11.5 ft. bgs (i.e., TB-13); underlain by a layer of fine-to-coarse sand and gravel extending to depths between 9 ft. bgs (i.e., TB-03) and 11.5 ft. bgs (i.e., MW-A); underlain in some locations by glacial till that extends to the bottom of the test boring. Equipment refusal on apparent bedrock, identified as weathered shale, was

encountered at 14 of the 19 test borings advanced in the vicinity of the main building, at depths ranging between approximately 9.0 ft. bgs (i.e., TB-03) and 13.0 ft. bgs (i.e., TB-22). [Note: Test borings TB-07, TB-12, TB-13 and TB-14 were terminated at depths of 12 ft. bgs, prior to encountering equipment refusal on apparent bedrock.]

The top of the apparent bedrock was observed to increase in the borings advanced nearest to the eastern edge of the Site. Specifically, the elevation of the top of the bedrock in test borings TB-03, TB-08, and TB-11 was approximately 3.8 ft., 2.6 ft., and 2.8 ft. (respectively) higher than the elevation of the top of the bedrock encountered in the vicinity of test borings MW-A, TB-01 and TB-02. In addition, glacial till was not encountered above the top of apparent bedrock in test borings TB-03, TB-08, and TB-11.

Refer to the test boring logs in Appendix D and the monitoring well development logs in Appendix E for documentation of field evidence of impacts to soil and groundwater, observed in soil and groundwater samples collected from subsurface locations within, and surrounding, the Main Building. Field evidence of apparent impacts is discussed below:

- Evidence of a potential source area of contamination was observed during the advancement of test boring MW-A. Specifically, PID readings ranging between 42.3 ppm and greater than 15,000 ppm were measured above the soil samples collected from test boring MW-A. The elevated PID readings started at approximately 1.5 ft. bgs, and extended to the bottom of the test boring at approximately 13 ft. bgs. A chemical-type odor was noted in the soil sample collected from between approximately 7 ft. and 8 ft. bgs. Free product exhibiting a solvent-type odor was observed in the soil sample collected from between 8 ft. and 12 ft. bgs. Approximately 0.36 ft. of LNAPL [i.e., apparent petroleum (potentially cutting oil removed during the degreasing process), exhibiting a solvent-type odor] was measured in MW-A during well development on November 8, 2018 and approximately 0.10 ft. of LNAPL was measured in MW-A prior to sampling on December 27, 2018. [Note: Although elevated PID readings (i.e., ranging between 18.1 ppm and 714 ppm) were measured in samples collected from test boring MW-B starting at approximately 1 ft. bgs and extending to the bottom of the test boring at approximately 11 ft. bgs, the analytical laboratory test results for soil and groundwater samples collected from MW-B do not corroborate the elevated PID readings. The cause of the elevated PID readings measured during the advancement of test boring MW-B may be attributed to carry-over from test boring MW-A, which was advanced directly before test boring MW-B on November 6, 2018.]
- Evidence of impact (i.e., odor, sheen, elevated PID readings) was observed during the advancement of test boring TB-22 on December 20, 2018 (i.e., located approximately 20 feet to the west-northwest of test boring MW-A), starting at approximately 6 ft. bgs (i.e., the apparent top of the saturated soil). Free product (i.e., apparent petroleum) exhibiting a solvent-type odor was also observed in the soil sample collected from between approximately 8.5 ft. and 10 ft. bgs.
- Evidence of impact (i.e., elevated PID readings and/or solvent type-odors) was also observed in the other test borings advanced in the vicinity of MW-A (i.e., TB-01, TB-02, TB-04 and TB-05, advanced on December 19 and 20, 2018). The impact in these

locations was generally observed at, or directly above, the top of the till layer (i.e., at depths around 11 ft. bgs) extending to the bottom of the test borings (i.e., at depths ranging between 12.5 ft. and 12.9 ft. bgs).

- LNAPL (i.e., apparent petroleum product with characteristics similar to a lubricant or cutting oil) was encountered in monitoring wells MW-G and MW-N at the time of well development and sampling. Specifically, trace LNAPL (i.e., detected by, but not at a thickness great enough to be measured by, the oil/water interface meter used) was observed in monitoring well MW-G during development on December 21, 2018, and approximately 0.05 ft. of LNAPL was measured in the well during sampling on December 27, 2018. Approximately 0.05 ft. of LNAPL was observed in monitoring well MW-N during development on December 20, 2018, and 0.06 ft. of LNAPL was measured in the well during sampling on December 27, 2018. [Note: Evidence of free product was not observed in the soil samples retained at these locations during drilling on December 18 and 19, 2018. Further, VOCs were not detected in the groundwater sample collected on December 26, 2018 from monitoring well MW-N. Only the SVOC, phenanthrene (i.e., a concentration of 0.58  $\mu$ /l compared to the NYSDEC standard or guidance value of 50  $\mu$ /l) was detected in the groundwater sample collected on December 26, 2018 from MW-N. The groundwater sample collected on December 27, 2018 from monitoring well MW-G was not tested for petroleum compounds)
- Elevated PID readings, ranging between 281 ppm and 620 ppm, were measured over the fill samples that were retained from MW-C during drilling on November 6, 2018. The fill materials observed included an approximate 0.5 ft. layer of ash, underlain by an approximate 0.5 ft. layer of sand containing ash and cinders, underlain by an approximate 2.0 ft. layer of sand and gravel containing coal fragments. A petroleum-type sheen and oil globules were noted on the surface of the purge water during the development of monitoring well MW-C on November 8, 2018 and PID readings of greater than 15,000 ppm and 11,690 ppm were measured in the standpipe of monitoring well MW-C, prior to and subsequent to completing development activities (respectively). [Note: A PID reading of 2.5 ppm was measured in the standpipe of monitoring well MW-C prior to groundwater sampling on December 27, 2018. Except for a relatively low concentration of TCE (i.e., 0.8  $\mu$ /l, which is below the NYSDEC Standard or Guidance value of 5  $\mu$ /l), VOCs were not detected in the groundwater sample collected on December 27, 2018 from monitoring well MW-C. Several polyaromatic hydrocarbon SVOCs were detected in the groundwater sample collected on December 27, 2018 at concentrations above NYSDEC standards or guidance values (refer to Table 5). However, concentrations of VOCs and SVOC detected in the groundwater samples tested do not correlate the high PID readings measured during drilling and well development.]
- Elevated PID readings, ranging between 2.0 ppm and 404 ppm, were measured over the fill samples that were retained from MW-D during drilling on November 6, 2018. The fill materials observed included an approximate 2.0 ft. layer of sand and gravel containing ash and cinders, underlain by an approximate 2.0 ft. layer of sand and gravel containing glass and metal fragments, underlain by an approximate 3.0 ft. layer of apparent re-worked soil, underlain by an approximate 3.0 ft. layer of sand and gravel containing metal fragments and exhibiting a chemical-type odor. PID readings of 451 ppm and

184.9 ppm were measured in the standpipe of monitoring well MW-D, prior to and subsequent to completing development activities (respectively) on November 8, 2018. [Note: A PID reading of 35.5 ppm was measured in the standpipe of monitoring well MW-D prior to groundwater sampling on December 27, 2018. Petroleum related VOCs (i.e., a total concentration of 11.9  $\mu$ /l), halocarbons (i.e., a total concentration of 7.5  $\mu$ /l) and non-target VOC tentatively identified compounds (i.e., a total concentration of 160  $\mu$ /l) were detected in the groundwater sample collected on December 27, 2018 from monitoring well MW-D. With the exception of vinyl chloride (i.e., detected at a concentration of 6  $\mu$ /l none of the detected VOCs were measured at concentrations that exceeded NYSDEC standards or guidance values). Detectable concentrations of polyaromatic hydrocarbon SVOCs (i.e., a total SVOC concentration of 2.86  $\mu$ /l) were also measured in the groundwater sample collected from MW-D on December 27, 2018, but the detected concentrations were below NYSDEC standards or guidance values.]

### 3.3.2 *Plating Building, Perimeter and Parking Lot*

Fill/reworked soil was encountered in each test boring advanced around the perimeter, and within the parking lot located to the south, of the Plating Building (i.e., TB-15 through TB-21) beginning below the ground/pavement surface. The fill material encountered generally consists of sand and gravel, extending to depths ranging between approximately 4.5 ft. bgs (i.e., TB-20 and TB-21) and 10.5 ft. bgs (i.e., TB-15). The fill material was intermixed in some locations with lesser amounts of cinders (i.e., TB-15, TB-17 and TB-18), brick (i.e., TB-17), crushed rock (i.e., TB-18) and/or wood/plant fibers (i.e., TB-19). Indigenous soil was encountered below the fill in each test boring. The indigenous soil generally consists of a silt layer, that contains plant fibers/peat material and extends to depths between 6 ft. bgs (i.e., TB-21) and 11 ft. bgs (i.e., TB-18); underlain by a layer of fine-to-coarse sand and gravel extending to depths between 7 ft. bgs (i.e., TB-20) and 14.5 ft. bgs (i.e., TB-16); underlain in some locations by glacial till that extends to the bottom of the test boring. Equipment refusal was encountered at 1 of the 7 test borings advanced in the vicinity of the Plating Building (i.e., TB-15) at a depth of approximately 15 ft. bgs. [Note: Test boring TB-16 was terminated at a depth of 16 ft. bgs and test borings TB-17 through TB-21 were terminated at depths of 12 ft. bgs, prior to encountering equipment refusal.]

Refer to the test boring logs in Appendix D and the monitoring well development logs in Appendix E for documentation of field evidence of impacts to soil and groundwater, observed in soil and groundwater samples collected from subsurface locations surrounding the Plating Building and the adjacent parking lot to the south. Field evidence of apparent impacts is discussed below:

- Starting at approximately 6 ft. bgs (i.e., in proximity of saturated soil) and extending to approximately 10.5 ft. bgs, PID readings, ranging between 0.6 ppm and 4.6 ppm, were measured over soil samples that were retained from TB-19 during drilling on December 17, 2018. Field evidence of apparent impact was not observed above approximately 6.0 ft. bgs in samples collected from TB-19. PID readings of 74.4 ppm and 2.5 ppm were measured in the standpipe of monitoring well MW-R, prior to and subsequent to completing development activities (respectively) on December 19, 2018.

- Petroleum-type sheen was observed on the soil sample, collected from depths between approximately 8.5 ft. and 10 ft. bgs., retained from TB-21 during drilling on December 17, 2018. Petroleum-type sheen was also observed on the surface of the purge water during the development of monitoring well MW-T on December 20, 2018. [Note: Polyaromatic hydrocarbon SVOCs were detected in the soil sample collected from depths between 5 ft. and 6 ft. bgs on December 17, 2018, but none of the concentrations measured exceeded the applicable Unrestricted Use SCO. Petroleum related VOCs were not detected in the groundwater sample collected from monitoring well MW-T on December 26, 2018.]

### **3.4 Groundwater**

Depth to groundwater in the vicinity of the Plating Building on December 27, 2018 ranged between approximately 3.7 ft. bgs (i.e., MW-S) and 4.7 ft. bgs (MW-Q). Based on the depth to groundwater measurements made on December 27, 2018 and the calculated groundwater elevations, shallow groundwater flow across the Plating Building and adjacent parking lot portion of the Site is toward the Chadakoin River (i.e., generally toward the east-southeast).

Depth to groundwater in the vicinity of the Main Building on December 27, 2018 ranged between approximately 2.0 ft. bgs (i.e., MW-K) and 6.4 ft. bgs (MW-J). Based on the depth to groundwater measurements made on December 27, 2018 and the calculated groundwater elevations, groundwater flow across the Main Building portion of the Site varies based on location. Specifically, shallow groundwater in the northern portion generally flows from north to south (i.e., from the DC Rollforms property onto the Site); shallow groundwater in the eastern portion appears to flow toward the west, away from Allen Street; and shallow groundwater on the western portion appears to flow toward the east-southeast, away from the Chadakoin River. The shallow groundwater from the eastern and western portions merge in the central portion (i.e., an area of the Site that was previously occupied by Morse Avenue, which was subsequently abandoned and covered by a portion of the Main Building), and thereafter groundwater in the Main Building portion of the Site generally appears to flow toward the south.

A potentiometric contour map depicting groundwater elevations at the Site measured on December 27, 2018 is provided as Figure 3.

### **3.5 Analytical Laboratory Results**

The analytical laboratory reports for soil vapor, concrete, soil and groundwater samples are included in Appendix G. As shown in the analytical laboratory reports, PCBs were not detected at concentrations above the limits reported by the laboratory in the three soil samples and two groundwater samples that were tested. VOC results for soil vapor samples, soil samples and groundwater samples are summarized in Table 3, Table 5, and Table 7, respectively. SVOC results for soil samples and groundwater samples are summarized in Table 6 and Table 8, respectively. Metal and Cyanide results for concrete samples and groundwater samples are summarized in Table 4 and Table 9, respectively. Perfluorinated compounds and 1,4-Dioxane results for groundwater samples are summarized in Table 10. The concentrations of select VOCs [i.e., TCE, cis-1,2-dichloroethene (cis1,2-DCE) vinyl chloride (VC), and benzene, toluene, ethylbenzene, and xylenes (BTEX)], that were detected in the soil vapor samples collected on September 5, 2018 are presented on Figure 4. The concentrations of select VOCs (i.e., TCE, cis

1,2-DCE and VC) that were detected in the groundwater collected on November 8, 2018 and December 26 and 27, 2018 are presented on Figure 5.

## 4.0 CONCLUSIONS

The following conclusions are based upon the findings of the work completed to date.

- The concrete core samples collected on September 5, 2018 in proximity to current and former plating operations in the Main Building and the Plating Building, and the waste water treatment area within the Plating Building, did not indicate degradation in the quality of the concrete. The metal and total cyanide concentrations measured in the concrete samples are generally relatively low (i.e., when compared to available soil cleanup guidance, since there are no applicable standards/guidance for metal concentrations within concrete). Based on the finding that the concentration of the metals and cyanide detected in the surficial concrete core samples were generally higher than, or comparable to, the concentrations detected in the deeper samples, migration through the concrete is not occurring.
- With the exception of the concentrations of arsenic in the groundwater samples collected on December 26 and 27, 2018 from monitoring wells MW-D (i.e., 134 micrograms per liter or  $\mu\text{g/l}$ ), MW-Q (i.e., 72.1  $\mu\text{g/l}$ ) and MW-T (i.e., 37.1  $\mu\text{g/l}$ ) that exceeded the Class GA groundwater standard of 25  $\mu\text{g/l}$  for arsenic, impacts to groundwater from metals and cyanide were not observed in the locations tested for this environmental evaluation. The elevated concentration of arsenic detected in the groundwater sample from MW-D may be attributable to the presence of fill materials (e.g., ash and coal fragments) observed at this location during drilling. The elevated concentrations of arsenic detected in the groundwater samples from MW-Q and MW-T may be attributable to historic operations and/or the former presence of a railroad spur that was located along the west side of the river (refer to the 1930 and 1949 Sanborn Fire Insurance Map overlays in Appendix A)
- Soil and groundwater samples collected from location MW-A (i.e., the location of the former vapor degreaser that utilized TCE) indicated that a release of TCE likely occurred in this area (i.e., presumably associated with the former vapor degreaser operation) and that a release of apparent petroleum had also occurred in this vicinity (i.e., possibly cutting oil that was removed from the degreased parts). Similar material was also observed during the advancement of test boring TB-22. The concentrations of TCE detected in the soil and/or groundwater samples collected from locations in the vicinity of MW-A (i.e., TB-01/MW-E, TB-02/MW-F, TB-04, TB-05 and TB-22) indicate that the highest concentrations of TCE are present beginning at depths approximately 11 ft. bgs. The concentrations of TCE detected in the soil and/or groundwater samples collected from locations TB-03, TB-11, MW-B, MW-C and MW-D, MW-G, and MW-H did not appear to indicate that the TCE source area in the vicinity of monitoring well MW-A is migrating toward these locations (i.e. in the direction of the river or to locations north, east, or southeast of MW-A).
- Based on measurements collected on December 27, 2018 the direction of shallow groundwater flow across the Main Building portion of the Site was calculated to generally flow toward the south (i.e., roughly parallel to the river). This groundwater flow pattern may be influenced by the presence of the former Morse Avenue Right-of-Way, which is located below the current footprint of the Main Building and trending

approximately from the location of MW-K to the location of MW-J (refer to the 1902 and 1930 Sanborn Fire Insurance Map overlays in Appendix A). [Note: The direction of groundwater flow across the Main Building portion of the Site may be further influenced by the concrete retaining wall that forms the foundation for the west side of the Main Building, starting at Chandler Street bridge to the south and extending north along the river to the northern property boundary of the Site. This retaining wall also appears to provide a barrier that precludes migration of contamination from beneath the Main Building into the river.]

- Elevated TCE concentrations detected in soil vapor samples SSV-1 and SSV-2 correlate to the potential source area and TCE impacts identified in the vicinity of MW-A. However, the elevated TCE concentrations detected in soil vapor samples SSV-4 and SSV-5 do not correlate with the relatively low concentrations of TCE identified in the soil and/or groundwater samples collected from nearby test locations of MW-B and TB12/MW-L (i.e., SSV-4) and MW-D and TB-10/MW-K (i.e., SSV-5). Thus, the data suggests that the elevated TCE concentrations detected in soil vapor samples SSV-4 and SSV-5, originated on the DC Rollforms property (i.e., located to the north of the Main Building) and migrated via the soil vapor onto the Weber Knapp property.
- Elevated PID readings measured on November 6 and 8, 2018 at test locations MW-C and MW-D during drilling and well development do not correlate with the relatively low concentrations of VOCs and SVOCs detected in the soil and/or groundwater samples collected from these locations. The elevated PID readings may be the result of VOC impacts to soil vapor.
- Evidence of apparent petroleum release was observed during the advancement of test borings and/or development and sampling of monitoring wells at locations TB-06/MW-G, TB-14/MW-N and TB-21/MW-T. Specifically, LNAPL was encountered during the development and sampling of monitoring wells MW-G and MW-N. Petroleum type sheen was observed on a soil sample retained from test boring TB-21 during drilling and on the surface of the purge water during the development of monitoring well MW-T. Samples of the apparent petroleum observed at locations TB-06/MW-G, TB-14/MW-N was similar in appearance to that observed in MW-A and TB-22 (i.e., possibly cutting oil). However, the apparent petroleum observed at locations TB-06/MW-G and TB-14/MW-N did not exhibit a solvent-type odor.
- Based on the absence of apparent petroleum impact in TB-11, TB-12/MW-L and soil vapor points SSV-3 and SSV-4, the closed-in-place USTs do not represent an environmental concern.
- Elevated concentrations of TCE were measured in groundwater samples collected on December 26 and 27, 2018 from monitoring wells MW-I (i.e., 61 µg/l) and MW-R (i.e., 1,100 µg/l). The sources of the TCE impact at these locations are unknown. However, based on the location of these wells in relation to each other, and to the apparent source area in the vicinity of MW-A, the source of TCE impacting these locations is not the former degreaser.

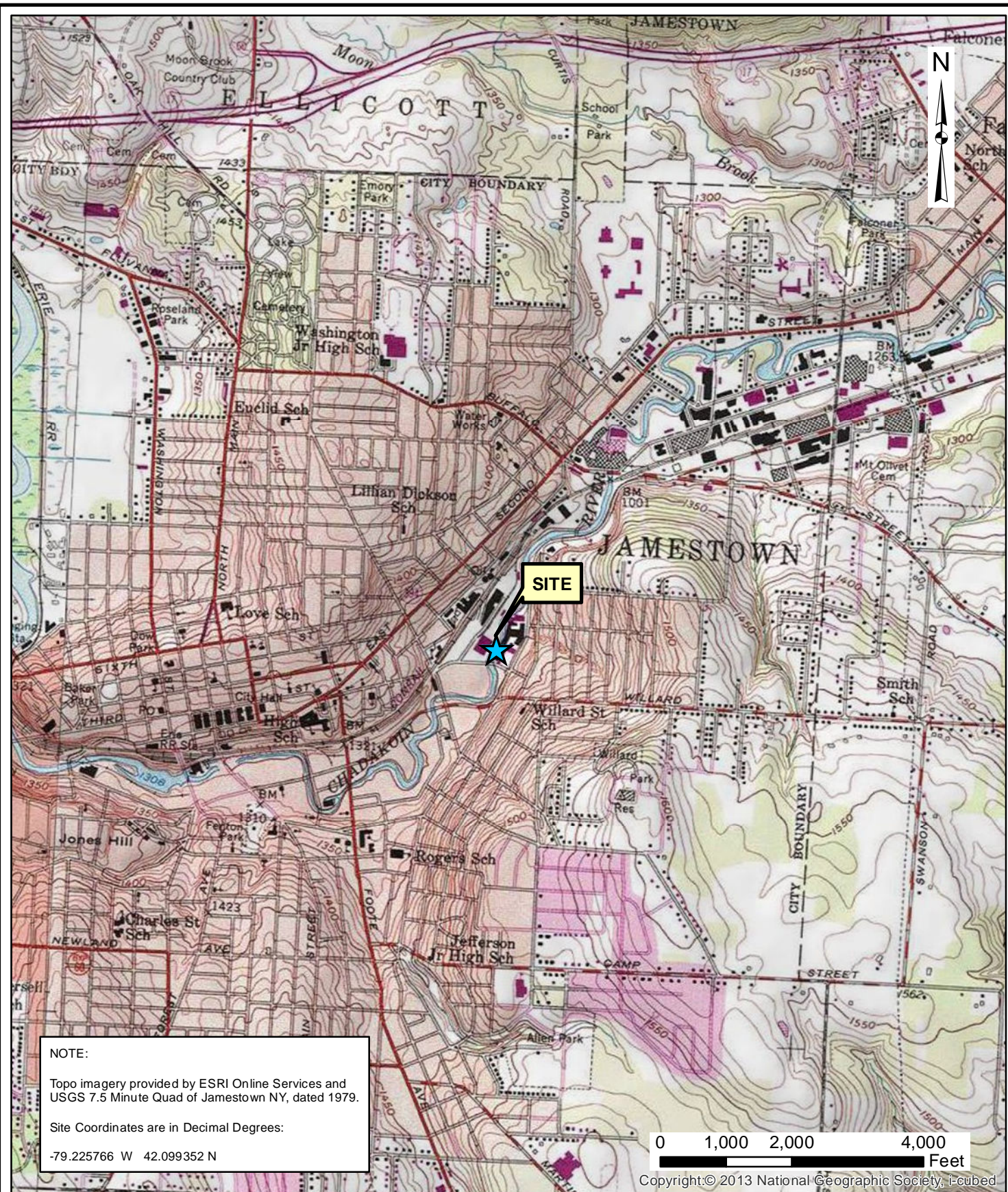


- One or more perfluorinated compound was detected in each groundwater sample collected from the Site on January 2, 2019. Further, the compounds perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were detected in each groundwater sample tested. The concentrations of PFOS detected in the groundwater samples collected on January 2, 2019 ranged between 2.6 nanograms per liter (ng/l) or parts per trillion (ppt) (i.e., MW-R) and 300 ng/l (i.e., MW-P). The concentrations of PFOA detected in the groundwater samples collected on January 2, 2019 ranged between 0.60 ng/l (i.e., MW-Q) and 8.0 ng/l (i.e., MW-C). The NYSDEC does not have a groundwater standard or guidance values for PFOA or PFOS. However, in 2016 the USEPA issued a health advisory level of 70 ng/l for the combined concentration of PFOA and PFOS in drinking water sources. The combined concentration of PFOA and PFOS in the groundwater samples collected on January 2, 2019 from monitoring wells MW-C and MW-P exceed this USEPA health advisory level.

## **FIGURES**



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Last Date Saved: 30 Jan 2019



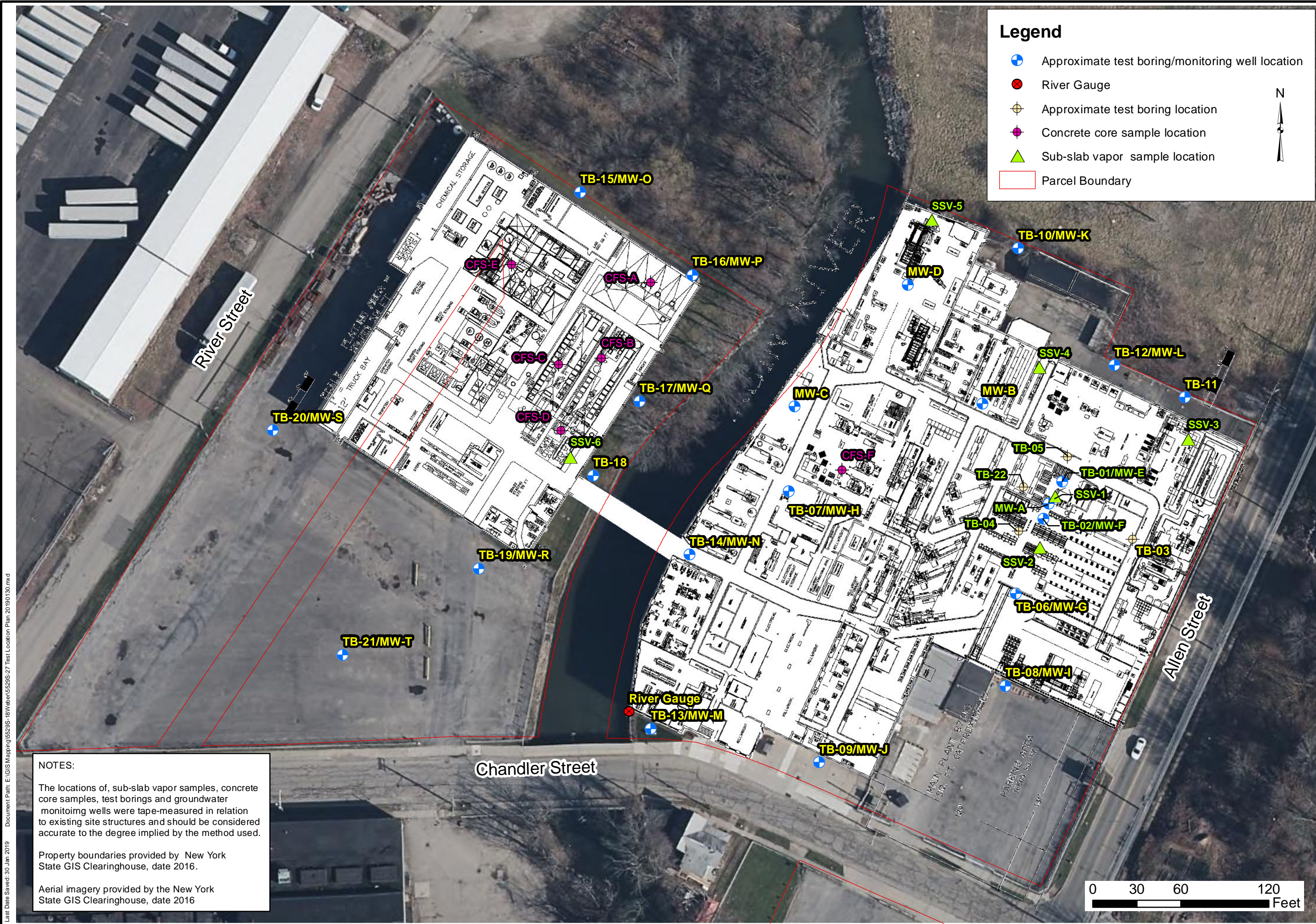
Date	1-30-2019
Drawn By	CAH
Scale	AS NOTED

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**DAY ENVIRONMENTAL, INC.**  
Environmental Consultants  
Rochester, New York 14606  
New York, New York 10170

Project Title	415 AND 441 CHANDLER STREET JAMESTOWN, NEW YORK
	SUBSURFACE EVALUATION
Drawing Title	Project Locus Map

Project No.	5529S-19
	FIGURE 1





### Legend

- Approximate test boring/monitoring well location
- River Gauge
- ⊕ Approximate test boring location
- Concrete core sample location
- ▲ Sub-slab vapor sample location
- Parcel Boundary

N

**NOTES:**

The locations of, sub-slab vapor samples, concrete core samples, test borings and groundwater monitoring wells were tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

DESIGNED BY	CAH	DATE	01-2019
DRAWN BY	CAH	DATE DRAWN	01-2019
SCALE	AS NOTED	DATE ISSUED	01-30-2019

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 New York, New York 10170

Project Title  
 415 AND 441 CHANDLER STREET  
 JAMESTOWN, NEW YORK

Drawing Title  
 SUBSURFACE EVALUATION

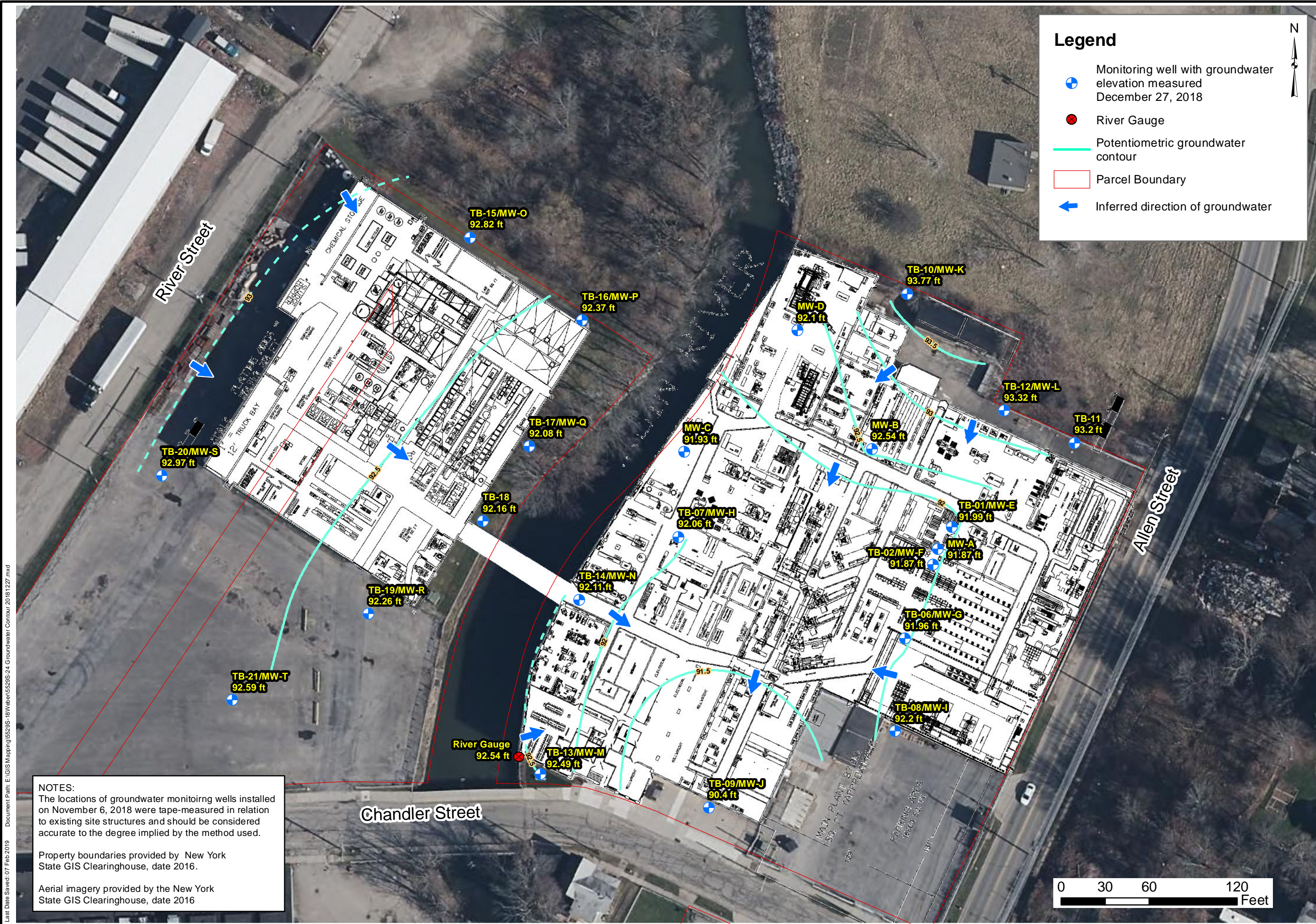
Project No.  
 5529S-18

Site Plan with Test Locations

**FIGURE 2**

Last Date Saved: 30 Jan 2019 Document Path: E:\GIS Mapping\5529S-18\Waters\5529S-27 Test Location Plan 20190130.mxd





### Legend

- Monitoring well with groundwater elevation measured December 27, 2018
- River Gauge
- Potientometric groundwater contour
- Parcel Boundary
- ➔ Inferred direction of groundwater

DESIGNED BY	DATE
CAH	01-2019
DRAWN BY	DATE DRAWN
CAH/CPS	01-2019
SCALE	DATE ISSUED
AS NOTED	02-07-2019

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**NOTES:**  
 The locations of groundwater monitoring wells installed on November 6, 2018 were tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

Project Title  
 415, 441 AND 448 CHANDLER STREET  
 JAMESTOWN, NEW YORK

Drawing Title  
 Potientometric Groundwater Contour Map Measured December 27, 2018

Project No.  
 5529S-18

**FIGURE 3**

Last Date Saved: 07 Feb 2019 Document Path: E:\GIS Mapping\5529S-18\Waters\5529S-24 Groundwater Contour 20181227.mxd



**Legend**

- Parcel Boundary
- ▲ Sub-slab vapor sample collected September 5, 2018

Sample Designation	VOC with concentration in ug/m3 or ppb
SSV-4	Toluene - 140 ug/m3 Xylenes (Total) - ND (4.7ug/m3)

Notes:  
 ug/m3 - micrograms per cubic meter or parts per billion (ppb)  
 ND - not detected at a concentration greater than indicated in parenthesis  
 Total Xylenes - sum of the concentrations of o-xylene and m,p-xylene

SSV-6
Trichloroethene - 320 ug/m3 cis-1,2-Dichloroethene - 2.0 ug/m3 Vinyl Chloride - ND (0.92 ug/m3)
Benzene - 10 ug/m3 Toluene - 120 ug/m3 Ethylbenzene - 7.7 ug/m3 Xylenes (Total) - 46 ug/m3

NOTES:  
 The locations of samples collected September 5, 2018 were tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

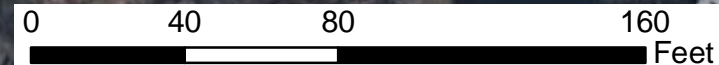
SSV-5
Trichloroethene - 44,000 ug/m3 cis-1,2-Dichloroethene - 5,600 ug/m3 Vinyl Chloride - ND (300 ug/m3)
Benzene - ND (44 ug/m3) Toluene - ND (37 ug/m3) Ethylbenzene - ND (43 ug/m3) Xylenes (Total) - ND (79 ug/m3)

SSV-4
Trichloroethene - 13,000 ug/m3 cis-1,2-Dichloroethene - 22 ug/m3 Vinyl Chloride - ND (18 ug/m3)
Benzene - ND (2.6 ug/m3) Toluene - 140 ug/m3 Ethylbenzene - ND (2.5 ug/m3) Xylenes (Total) - ND (4.7 ug/m3)

SSV-3
Trichloroethene - 33 ug/m3 cis-1,2-Dichloroethene - ND (0.14 ug/m3) Vinyl Chloride - ND (0.95 ug/m3)
Benzene - ND (0.14 ug/m3) Toluene - 84 ug/m3 Ethylbenzene - 3.9 ug/m3 Xylenes (Total) - 22.8 ug/m3

SSV-1
Trichloroethene - 110,000 ug/m3 cis-1,2-Dichloroethene - 3,600 ug/m3 Vinyl Chloride - ND (600 ug/m3)
Benzene - ND (87 ug/m3) Toluene - ND (74 ug/m3) Ethylbenzene - ND (85 ug/m3) Xylenes (Total) - ND (160 ug/m3)

SSV-2
Trichloroethene - 5,800 ug/m3 cis-1,2-Dichloroethene - ND (1.3 ug/m3) Vinyl Chloride - ND (8.9 ug/m3)
Benzene - 13 ug/m3 Toluene - 130 ug/m3 Ethylbenzene - ND (1.3 ug/m3) Xylenes (Total) - 24 ug/m3



DESIGNED BY	CAH	DATE	09-2018
DRAWN BY	CAH	DATE DRAWN	09-2018
SCALE	AS NOTED	DATE ISSUED	01-30-2019

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Project Title  
**415 AND 441 CHANDLER STREET  
 JAMESTOWN, NEW YORK**

Drawing Title  
**SUBSURFACE EVALUATION**

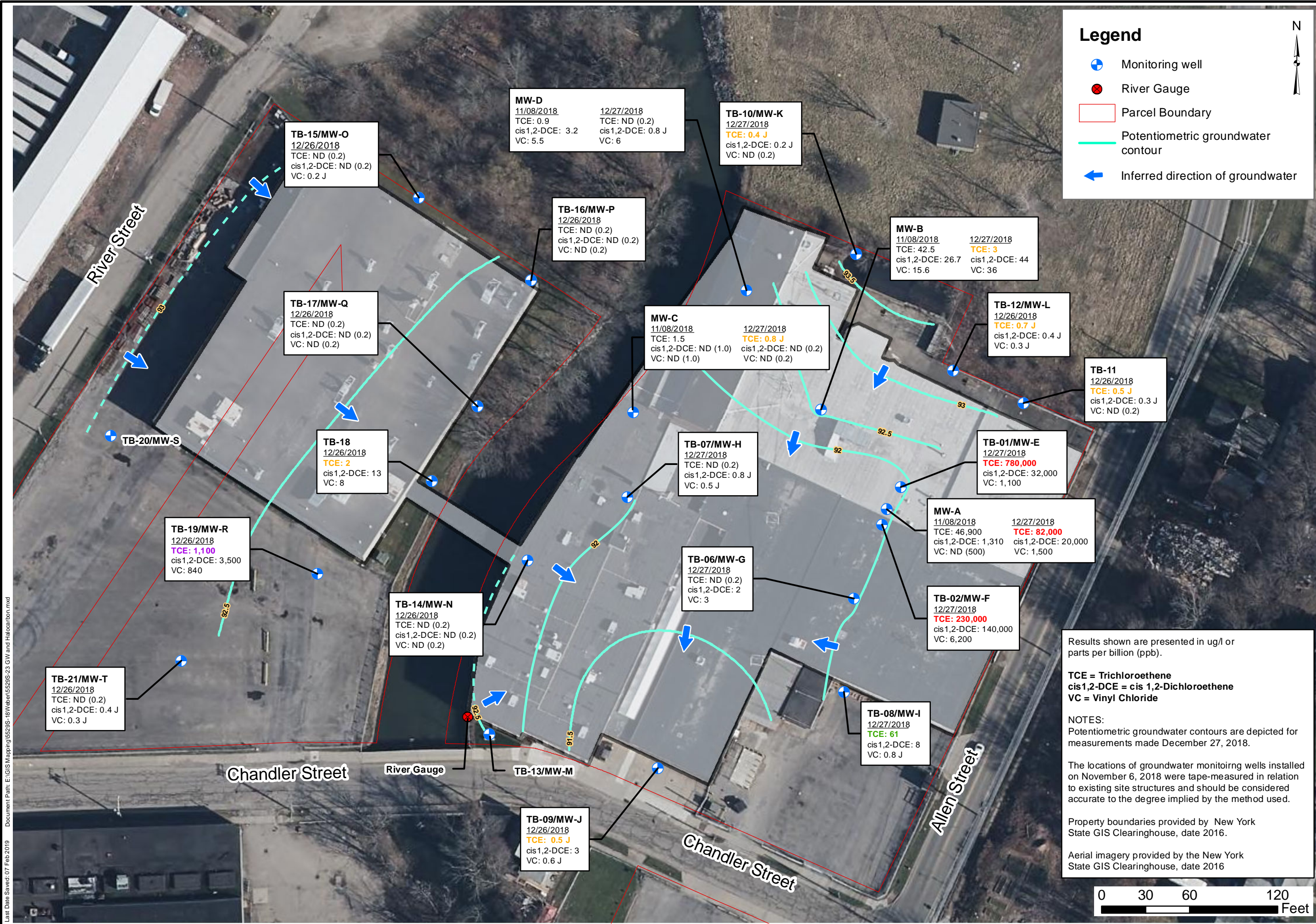
Select Volatile Organic Compounds Measured in  
 Sub-Slab Vapor Samples Collected September 5, 2018

Project No.  
 5529S-18

**FIGURE 4**

Last Date Saved: 30 Jan 2019 Document Path: E:\GIS Mapping\5529S-18\Waters\5529S-28 Sub-Slab Vapor Results (report).mxd





### Legend

- Monitoring well
- ⊗ River Gauge
- Parcel Boundary
- Potentiometric groundwater contour
- Inferred direction of groundwater

DESIGNED BY	DATE
CAH	01-2019
DRAWN BY	DATE DRAWN
CPS	01-2019
SCALE	DATE ISSUED
AS NOTED	02-07-2019

**day**  
**DAY ENVIRONMENTAL, INC.**  
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 New York, New York 10170

Project Title  
 415 AND 441 CHANDLER STREET  
 JAMESTOWN, NEW YORK

Drawing Title  
 SUBSURFACE EVALUATION

Select Halocarbon Concentrations Measured in Groundwater Samples  
 Collected November 8, 2018 and December 26 & 27, 2018

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

Project No.  
 5529S-18

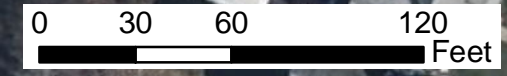
FIGURE 5

Results shown are presented in ug/l or parts per billion (ppb).

**TCE = Trichloroethene**  
**cis 1,2-DCE = cis 1,2-Dichloroethene**  
**VC = Vinyl Chloride**

NOTES:  
 Potentiometric groundwater contours are depicted for measurements made December 27, 2018.

The locations of groundwater monitoring wells installed on November 6, 2018 were tape-measured in relation to existing site structures and should be considered accurate to the degree implied by the method used.



Last Date Saved: 07 Feb 2019 Document Path: E:\GIS Mapping\5529S-18\Water\5529S-23 GW and Halocarbon.mxd



# **TABLES**



**TABLE 1**  
**415 and 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**RATIONALE FOR ENVIRONMENTAL EVALUATION TEST LOCATIONS**

Test ID	Date Installed	Primary Rationale for Completion
SSV-1	9/5/2018	Screen for TCE impacts to soil vapor in the vicinity of the former vapor degreaser
SSV-2	9/5/2018	
SSV-3	9/5/2018	Screen for TCE impacts to soil vapor in proximity to NYSDEC Superfund Site (SSF) # 907019 and petroleum impacts in area of closed-in-place USTs.
SSV-4	9/5/2018	
SSV-5	9/5/2018	Screen for TCE impacts to soil vapor in proximity to NYSDEC Superfund Site (SSF) # 907019
SSV-6	9/5/2018	Screen for TCE impacts to soil vapor in proximity to the location where TCE was detected in a groundwater sample collected east of the Plating Building during the 1989 Phase I ESA
CFS-A	9/5/2018	Evaluate the integrity of the concrete floor slab and the potential for migration of metals and cyanide in the former chrome plating line and black chromate treated zinc line plating operations area
CFS-B	9/5/2018	Evaluate the integrity of the concrete floor slab and the potential for migration of metals and cyanide in the current plating operations area
CFS-C	9/5/2018	
CFS-D	9/5/2018	
CFS-E	9/5/2018	Evaluate the integrity of the concrete floor slab and the potential for migration of metals and cyanide from the wastewater treatment operations area
CFS-F	9/5/2018	Evaluate the integrity of the concrete floor slab and the potential for migration of metals and cyanide in the area of historic plating operations
MW-A	11/6/2018	Evaluate TCE concentrations identified in Soil Vapor Sample SSV-1; (re-sampled in 2018-12 to confirm TCE concentrations)
MW-B	11/6/2018	Evaluation of TCE impact; (re-sampled in 2018-12 to confirm TCE concentrations)
MW-C	11/6/2018	Evaluation of TCE impact; (re-sampled in 2018-12 and/or 2019-01 to assess groundwater in the vicinity of historic foundry operations and former plating operations and confirm TCE concentrations)
MW-D	11/6/2018	
TB-01/MW-E	12/19/2018	Assess the vertical extent of TCE impact in the area of former vapor degreaser
TB-02/MW-F	12/19/2018	
TB-03	12/20/2018	Delineate extent of TCE impact in the area of former vapor degreaser
TB-04	12/20/2018	
TB-05	12/19/2018	
TB-06/MW-G	12/19/2018	
TB-07/MW-H	12/18/2018	
TB-08/MW-I	12/18/2018	
TB-09/MW-J	12/18/2018	
TB-10/MW-K	12/18/2018	Assess subsurface soil/groundwater at the closest position on the Weber Knapp Co. property to the DC Rollforms remedial well field (NYSDEC SSF Site # 907019)
TB-11	12/18/2018	Assess subsurface conditions in the vicinity of closed-in-place USTs and to assess possible impacts from the DC Rollforms Site (NYSDEC SSF Site # 907019)
TB-12/MW-L	12/18/2018	
TB-13/MW-M	12/17/2018	Evaluate groundwater flow in proximity to Chadakoin River
TB-14/MW-N	12/18/2018	
TB-15/MW-O	12/17/2018	Assess subsurface soil/groundwater in the vicinity of wastewater treatment plant
TB-16/MW-P	12/17/2018	Assess subsurface soil/groundwater in the vicinity of current plating lines and wastewater treatment plant, and in proximity of the former black chromate treated zinc line area
TB-17/MW-Q	12/17/2018	Assess subsurface soil/groundwater in the vicinity of current plating lines
TB-18	12/17/2018	Assess subsurface soil/groundwater in the vicinity of sub-slab soil vapor point SSV-6
TB-19/MW-R	12/17/2018	Assess subsurface soil/groundwater in the vicinity of Plating Building, and in the vicinity of the former Erie Railroad spur
TB-20/MW-S	12/17/2018	Assess subsurface soil/groundwater in the vicinity of Plating Building
TB-21/MW-T	12/17/2018	Assess subsurface soil/groundwater in the area of the former Norquist Products Inc. Building (1949 Sanborn map)
TB-22	12/20/2018	Delineate extent of TCE impact in the area of former vapor degreaser

**TABLE 2**  
**415 and 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**ENVIRONMENTAL EVALUATION ANALYTICAL LABORATORY TESTING PROGRAM**

Sample Designation	Matrix	Date	Test Parameters
SSV-1	Soil Vapor	9/5/2018	TO-15 VOCs
SSV-2	Soil Vapor	9/5/2018	TO-15 VOCs
SSV-3	Soil Vapor	9/5/2018	TO-15 VOCs
SSV-4	Soil Vapor	9/5/2018	TO-15 VOCs
SSV-5	Soil Vapor	9/5/2018	TO-15 VOCs
SSV-6	Soil Vapor	9/5/2018	TO-15 VOCs
CFS-A (0-2")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-A (2-6")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-B (0-1.75")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-B (5.5-9")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-C (0-2")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-C (7.5-10")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-D (0-2")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-D (4-5.5")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-E (0-2")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-E (2-3.5")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-F (0-2")	Concrete	9/5/2018	RCRA Metals, Cyanide
CFS-F (2-4.5")	Concrete	9/5/2018	RCRA Metals, Cyanide
MW-A (4')	Soil	11/6/2018	Halocarbons
MW-A (8')	Soil	11/6/2018	Halocarbons
MW-A (11')	Soil	11/6/2018	Halocarbons
MW-A (13')	Soil	11/6/2018	Halocarbons
MW-B (9.5')	Soil	11/6/2018	Halocarbons
MW-B (11')	Soil	11/6/2018	Halocarbons
MW-D (9')	Soil	11/6/2018	Halocarbons
TB-01 (11')	Soil	12/19/2018	Halocarbons
TB-01 (12.5')	Soil	12/19/2018	Halocarbons
TB-02 (11.5')	Soil	12/19/2018	Halocarbons
TB-03 (9')	Soil	12/20/2018	Halocarbons
TB-04 (11.5')	Soil	12/20/2018	Halocarbons
TB-04 (12.9')	Soil	12/20/2018	Halocarbons
TB-05 (12.5')	Soil	12/19/2018	Halocarbons
TB-10 (4')	Soil	12/18/2018	TCL VOCs
TB-10 (4'-5')	Soil	12/18/2018	PCBs
TB-19 (7'-8')	Soil	12/17/2018	PCBs, TCL SVOCs
TB-21 (5'-6')	Soil	12/17/2018	PCBs, TCL SVOCs
TB-22 (13')	Soil	12/20/2018	Halocarbons

Sample Designation	Matrix	Date	Test Parameters
MW-A Sediment	Sediment	11/8/2018	Halocarbons
MW-A LNAPL	LNAPL	11/8/2018	Halocarbons
MW-A	Groundwater	11/8/2018	Halocarbons
MW-A	Groundwater	12/27/2018	Halocarbons
MW-B	Groundwater	11/8/2018	Halocarbons
MW-B	Groundwater	12/27/2018	Halocarbons
MW-C	Groundwater	11/8/2018	Halocarbons
MW-C	Groundwater	12/27/2018	TCL VOCs, TCL SVOCs, PCBs, RCRA Metals, Cyanide
MW-C	Groundwater	1/2/2019	PFAs, 1,4-Dioxane
MW-D	Groundwater	11/8/2018	Halocarbons
MW-D	Groundwater	12/27/2018	TCL VOCs, TCL SVOCs, PCBs, RCRA Metals, Cyanide
MW-E (TB-01)	Groundwater	12/27/2018	Halocarbons
MW-F (TB-02)	Groundwater	12/27/2018	Halocarbons
MW-G (TB-06)	Groundwater	12/27/2018	Halocarbons
MW-H (TB-07)	Groundwater	12/27/2018	Halocarbons, RCRA Metals
MW-H (TB-07)	Groundwater	1/2/2019	PFAs, 1,4-Dioxane
MW-I (TB-08)	Groundwater	12/27/2018	Halocarbons
MW-J (TB-09)	Groundwater	12/26/2018	Halocarbons
MW-K (TB-10)	Groundwater	12/27/2018	TCL VOCs, TCL SVOCs, RCRA Metals
TB-11	Groundwater	12/26/2018	TCL VOCs, CP-51 SVOCs
MW-L (TB-12)	Groundwater	12/26/2018	TCL VOCs, CP-51 SVOCs
MW-N (TB-14)	Groundwater	12/26/2018	TCL VOCs, CP-51 SVOCs
MW-O (TB-15)	Groundwater	12/26/2018	TCL VOCs, RCRA Metals, Cyanide
MW-P (TB-16)	Groundwater	12/26/2018	TCL VOCs, RCRA Metals, Cyanide
MW-P (TB-16)	Groundwater	1/2/2019	PFAs, 1,4-Dioxane
MW-Q (TB-17)	Groundwater	12/26/2018	TCL VOCs, RCRA Metals, Cyanide
MW-Q (TB-17)	Groundwater	1/2/2019	PFAs, 1,4-Dioxane
TB-18	Groundwater	12/26/2018	TCL VOCs
MW-R (TB-19)	Groundwater	12/26/2018	TCL VOCs, RCRA Metals, Cyanide
MW-R (TB-19)	Groundwater	1/2/2019	PFAs, 1,4-Dioxane
MW-S (TB-20)	Groundwater	12/26/2018	RCRA Metals, Cyanide
MW-T (TB-21)	Groundwater	12/26/2018	TCL VOCs, RCRA Metals, Cyanide

**NOTES**

TO-15 VOCs = Volatile Organic Compounds by USEPA Method Toxic Organics (TO)-15

Halocarbons = Halogenated Volatile Organic Compounds by USEPA Method 8260

PCBs = Polychlorinated biphenyls by United States Environmental Protection Agency (USEPA) Method 8082A

TCL VOCs = NYSDEC Target Compound List and Commissioner Policy List Volatile Organic Compounds by USEPA Method 8260

TCL SVOCs = NYSDEC Target Compound List and Commissioner Policy List Semi-Volatile Organic Compounds by USEPA Method 8270

CP-51 List SVOCs = NYSDEC Commissioner Policy List Semi-Volatile Organic Compounds by USEPA Method 8270C

RCRA Metals = USEPA Resource Conservation and Recovery Act Metals by various USEPA Methods

Cyanide = Total Cyanide by USEPA Method 9012B

PFAs = per- and polyfluoroalkyl substances by USEPA Method 537

**TABLE 3**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOC) - SOIL VAPOR SAMPLES**

Detected Constituent	Sample Designation and Date					
	SSV-1 9/5/2018	SSV-2 9/5/2018	SSV-3 9/5/2018	SSV-4 9/5/2018	SSV-5 9/5/2018	SSV-6 9/5/2018
Propene	ND	14.0	3.1	ND	ND	2.9
Dichlorodifluoromethane (CFC 12)	ND	ND	2.3	ND	ND	5.2
Acetonitrile	ND	ND	2.2	ND	ND	ND
Acetone	ND	110	27.0	ND	ND	26.0
Trichlorofluoromethane	ND	ND	1.7	ND	ND	1.4
Carbon Disulfide	ND	ND	ND	ND	ND	8.0
Vinyl Acetate	ND	ND	11.0	ND	ND	ND
2-Butanone (MEK)	ND	46.0	32.0	ND	ND	33.0
cis-1,2-Dichloroethene	3,600	ND	ND	22.0	5,600	2.0
n-Hexane	ND	41.0	ND	ND	1,900	32.0
Benzene	ND	13.0	ND	ND	ND	10.0
Chloroform	620	ND	8.4	ND	ND	ND
Cyclohexane	ND	ND	ND	ND	ND	11.0
Trichloroethene	110,000	5,800	33.0	13,000	44,000	320
n-Heptane	ND	56.0	ND	ND	960.0	21.0
4-Methyl-2-pentanone (MIBK)	ND	9.2	20.0	ND	ND	1.2
1,1,1-Trichloroethane	ND	ND	2.5	19.0	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.1
Toluene	ND	130.0	84.0	140	ND	120.0
2-Hexanone (MBK)	ND	10.0	1.5	ND	ND	ND
n-Octane	ND	54.0	ND	ND	320	16.0
Tetrachloroethene	800	15.0	35.0	42.0	ND	6.2
Ethylbenzene	ND	ND	3.9	ND	ND	7.7
m,p-Xylenes	ND	24.0	17.0	ND	ND	35.0
Styrene	ND	ND	2.3	ND	ND	3.2
o-Xylene	ND	ND	5.8	ND	ND	11.0
n-Nonane	ND	34.0	ND	ND	ND	11.0
alpha-Pinene	ND	ND	1.7	ND	ND	2.3
n-Propylbenzene	ND	ND	1.3	ND	ND	1.9
4-Ethyltoluene	ND	ND	1.9	ND	ND	2.7
1,3,5-Trimethylbenzene	ND	ND	1.8	ND	ND	3.1
1,2,4-Trimethylbenzene	ND	ND	6.5	ND	ND	8.4
d-Limonene	ND	ND	2.1	ND	ND	2.2
Naphthalene	ND	ND	2.0	ND	ND	1.5

**NOTES**

Volatile organic compound (VOC) concentrations are presented in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

**No NYSDOH criteria is available for soil vapor samples**

ND = Not detected at concentration above analytical laboratory reporting limit. Refer to the analytical laboratory report for the associated reporting limit.

**TABLE 4**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF RCRA METALS AND TOTAL CYANIDE TEST RESULTS - CONCRETE SAMPLES**

Analyte	Sample Designation and Date											
	CFS-A (0-2")	CFS-A (2-6")	CFS-B (0-1.75")	CFS-B (5.5-9")	CFS-C (0-2")	CFS-C (7.5-10")	CFS-D (0-2")	CFS-D (4-5.5")	CFS-E (0-2")	CFS-E (2-3.5")	CFS-F (0-2")	CFS-F (2-4.5")
	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018
Arsenic	5.82	6.64	3.78	3.93	5.48	4.01	4.67	4.46	5.68	5.50	7.64	6.7
Barium	43.2	37.0	36.6	39.9	44.6	39.4	68.2	43.1	860	46.6	51.1	35.5
Cadmium	0.656	0.909	0.514 J	0.522	0.603	0.478 J	0.557	0.552	0.579	0.668	0.641	0.755
Chromium	79.1	25.6	10.3	11.7	12.2	10.2	10.5	11.4	23.3	13.4	14.4	15.1
Lead	8.74	6.53	6.26	6.39	7.42	5.75	4.87	5.61	72.5	5.36	6.57	6.57
Mercury	0.0098 J	ND (0.0086)	ND (0.0083)	ND (0.0087)	ND (0.0086)	ND (0.0078)	ND (0.0082)	ND (0.0076)	ND (0.0089)	ND (0.0086)	ND (0.0085)	ND (0.0085)
Selenium	ND (0.281)	ND (0.290)	ND (0.299)	ND (0.292)	ND (0.275)	ND (0.293)	ND (0.290)	ND (0.278)	ND (0.305)	ND (0.282)	ND (0.288)	ND (0.291)
Silver	1.7	ND (0.164)	ND (0.169)	ND (0.165)	ND (0.156)	ND (0.166)	ND (0.164)	ND (0.157)	ND (0.173)	ND (0.160)	ND (0.163)	ND (0.165)
<b>Total cyanide</b>	<b>1.49</b>	<b>ND (0.278)</b>	<b>0.445</b>	<b>14.9</b>	<b>ND (0.224)</b>	<b>ND (0.297)</b>	<b>0.351</b>	<b>1.79</b>	<b>ND (0.30)</b>	<b>ND (0.316)</b>	<b>ND (0.223)</b>	<b>ND (0.272)</b>

**NOTES**

Results are in micrograms per liter (mg/kg) or parts per million (ppm)

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

ND = Not Detected at a concentration greater than the detection limit shown in parenthesis

**TABLE 5**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOC) - SOIL SAMPLES**

Compound	Unrestricted Use SCO <sup>(1)</sup>	Restricted Industrial Use SCO <sup>(2)</sup>	Sample Designation and Date							
			MW-A (4')	MW-A (8')	MW-A (11')	MW-A (13')	MW-B (9.5')	MW-B (11')	MW-D (9')	TB-01 (11')
			11/8/2018	11/8/2018	11/8/2018	11/8/2018	11/8/2018	11/8/2018	11/8/2018	11/8/2018
1,1-Dichloroethene*	0.33	1,000	ND (0.0048)	ND (0.0562)	0.121 J	ND (0.205)	ND (0.0101)	ND (0.0042)	ND (0.0405)	ND (46)
trans-1,2-Dichloroethene*	0.19	1,000	ND (0.0048)	ND (0.0562)	ND (0.185)	ND (0.205)	ND (0.0101)	ND (0.0042)	ND (0.0405)	ND (46)
cis-1,2-Dichloroethene*	0.25	1,000	0.0074	ND (0.0562)	<b>12</b>	<b>12.6</b>	ND (0.0101)	0.0018 J	ND (0.0405)	<b>34.0 J</b>
Tetrachloroethene*	1.3	300	ND (0.0048)	ND (0.0562)	ND (0.185)	ND (0.205)	ND (0.0101)	ND (0.0042)	ND (0.0405)	ND (46)
Trichloroethene (TCE)*	0.47	400	<b>24.5</b>	0.0382 J	<b>32.4</b>	<b>198</b>	0.0104	0.0048	0.108	<b>4,400</b>
Vinyl chloride*	0.02	27	ND (0.0048)	ND (0.0562)	<b>0.48</b>	<b>0.193 J</b>	ND (0.0101)	0.004 J	ND (0.0405)	ND (46)
n-Butylbenzene	12	1,000	NT	NT	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	11	1,000	NT	NT	NT	NT	NT	NT	NT	NT

Compound	Unrestricted Use SCO <sup>(1)</sup>	Restricted Industrial Use SCO <sup>(2)</sup>	Sample Designation and Date							
			TB-01 (12.5')	TB-02 (11.5')	TB-03 (9')	TB-04 (11.5')	TB-04 (12.9')	TB-05 (12.5')	TB-10 (4')	TB-22 (13')
			12/19/2018	12/19/2018	12/20/2018	12/20/2018	12/20/2018	12/19/2018	12/18/2018	12/20/2018
1,1-Dichloroethene*	0.33	1,000	ND (0.160)	0.11 J	ND (0.0025)	0.070 J	ND (0.210)	ND (0.20)	ND (0.290)	0.0019 J
trans-1,2-Dichloroethene*	0.19	1,000	ND (0.160)	0.049 J	ND (0.0025)	0.050 J	ND (0.210)	0.022 J	ND (0.290)	0.0013 J
cis-1,2-Dichloroethene*	0.25	1,000	<b>0.26 J</b>	<b>17</b>	0.00037 J	<b>22</b>	<b>3.6</b>	<b>2.9</b>	ND (0.290)	<b>2.9</b>
Tetrachloroethene*	1.3	300	ND (0.160)	ND (0.240)	ND (0.0025)	ND (0.190)	ND (0.210)	0.067 J	ND (0.290)	ND (0.0024)
Trichloroethene (TCE)*	0.47	400	<b>10</b>	<b>81</b>	0.00087 J	<b>29</b>	<b>1.5</b>	<b>100</b>	ND (0.290)	<b>1.4</b>
Vinyl chloride*	0.02	27	ND (0.160)	<b>1.5</b>	ND (0.0025)	<b>1.70</b>	<b>0.42</b>	<b>0.021 J</b>	ND (0.290)	<b>0.025 J</b>
n-Butylbenzene	12	1,000	NT	NT	NT	NT	NT	NT	0.25	NT
sec-Butylbenzene	11	1,000	NT	NT	NT	NT	NT	NT	0.16	NT

**NOTES**

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Objective (SCO) for Unrestricted Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

(2) = Soil Cleanup Objective (SCO) for Restricted Industrial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

NT = Not Tested

ND = Not Detected at a concentration greater than the reporting limit shown in parenthesis

Asterix (\*) indicates compound is a halocarbon

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

Highlighted value exceeds the Unrestricted Use SCO

Highlighted value exceeds the Restricted Industrial Use SCO

**TABLE 6**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF DETECTED SEMI-VOLATILE ORGANIC COMPOUNDS (SVOC) - SOIL SAMPLES**

Compound	Unrestricted Use SCO <sup>(1)</sup>	Restricted Industrial Use SCO <sup>(2)</sup>	Sample Designation and Date	
			TB-19 (7'-8')	TB-21 (5'-6')
			12/17/2018	12/17/2018
Benz(a)anthracene	1	11	ND (0.270)	0.360
Chrysene	1	110	ND (0.270)	0.540
Pyrene	100	1,000	ND (0.270)	0.20 J

**NOTES**

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Objective (SCO) for Unrestricted Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

(2) = Soil Cleanup Objective (SCO) for Restricted Industrial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

ND = Not Detected at a concentration greater than the reporting limit shown in parenthesis

**Highlighted value exceeds the Unrestricted Use SCO**

**Highlighted value exceeds the Restricted Industrial Use SCO**

**TABLE 7**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOC) - MONITORING WELL SAMPLES**

Compound	NYSDEC Standard <sup>(1)</sup>	Sample Designation and Date												
		MW-A			MW-B		MW-C		MW-D		MW-E	MW-F	MW-G	
		11/8/2018			12/27/2018	11/8/2018	12/27/2018	11/8/2018	12/27/2018	11/8/2018	12/27/2018	12/27/2018	12/27/2018	12/27/2018
		groundwater	sediment	LNAPL										
Acetone	50	NT	NT	NT	NT	NT	NT	NT	ND (0.7)	NT	ND (0.7)	NT	NT	NT
Benzene	1	NT	NT	NT	NT	NT	NT	NT	ND (0.2)	NT	0.7 J	NT	NT	NT
Bromomethane*	5	ND (223)	ND (376)	ND (4,250)	ND (30)	ND (0.4)	ND (0.3)	ND (0.4)	ND (0.3)	ND (0.4)	ND (0.2)	ND (300)	ND (150)	ND (0.3)
n-Butylbenzene	5	NT	NT	NT	NT	NT	NT	NT	ND (0.2)	NT	0.9 J	NT	NT	NT
sec-Butylbenzene	5	NT	NT	NT	NT	NT	NT	NT	ND (0.2)	NT	2 J	NT	NT	NT
Chloroethane*	5	ND (202)	ND (231)	ND (2,610)	ND (20)	ND (0.4)	ND (0.2)	ND (0.4)	ND (0.2)	ND (0.4)	ND (0.2)	340 J	150 J	ND (0.2)
Cyclohexane	-	NT	NT	NT	NT	NT	NT	NT	ND (0.2)	NT	3 J	NT	NT	NT
1,1-Dichloroethane*	5	ND (90.5)	ND (109)	ND (1,230)	ND (20)	0.8 J	0.7 J	ND (0.3)	ND (0.2)	ND (0.3)	ND (0.2)	ND (200)	ND (100)	ND (0.2)
1,1-Dichloroethene*	5	ND (157)	1,740	ND (2,640)	230	0.6 J	0.3 J	ND (0.3)	ND (0.2)	ND (0.3)	0.2	ND (200)	500 J	ND (0.2)
cis-1,2-Dichloroethene*	5	1,310	163,000	17,800	20,000	26.7	44	ND (0.4)	ND (0.2)	3.2	0.8 J	32,000	140,000	2
trans-1,2-Dichloroethene*	5	ND (190)	587	ND (2,500)	52 J	0.6 J	0.3 J	ND (0.4)	ND (0.2)	ND (0.4)	0.3 J	ND (200)	240 J	ND (0.2)
Isopropylbenzene	5	NT	NT	NT	NT	NT	NT	NT	ND (0.2)	NT	1 J	NT	NT	NT
Methylcyclohexane	-	NT	NT	NT	NT	NT	NT	NT	ND (0.2)	NT	4 J	NT	NT	NT
n-Propylbenzene	5	NT	NT	NT	NT	NT	NT	NT	ND (0.2)	NT	0.3 J	NT	NT	NT
Tetrachloroethene*	5	ND (156)	1,090	ND (1,610)	ND (20)	ND (0.3)	0.2	ND (0.3)	ND (0.2)	ND (0.3)	ND (0.2)	ND (200)	ND (100)	ND (0.2)
1,1,2-Trichloroethane*	1	ND (154)	ND (302)	ND (3,410)	ND (20)	ND (0.3)	ND (0.2)	ND (0.3)	ND (0.2)	ND (0.3)	ND (0.2)	ND (200)	ND (100)	ND (0.2)
Trichloroethene*	5	46,900	10,300,000	1,170,000	82,000	42.5	3	1.5	0.8 J	0.9 J	0.2	780,000	230,000	ND (0.2)
Vinyl Chloride*	5	ND (201)	2,320	ND (1,590)	1,500	15.6	36	ND (0.4)	ND (0.2)	5.5	6	1,100	6,200	3
Total TICs	-	NT	NT	NT	NT	NT	NT	NT	ND	NT	160 J	NT	NT	NT

**NOTES**

Results and groundwater standards are in micrograms per liter (µg/l) or parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

Asterix (\*) indicates compound is a halocarbon

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

NT = Not Tested

ND = Not Detected at a concentration greater than the detection limit shown in parenthesis

Highlighted value exceeds the groundwater standard

**TABLE 7**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOC) - MONITORING WELL SAMPLES**

Compound	NYSDEC Standard <sup>(1)</sup>	Sample Designation and Date												
		MW-H	MW-I	MW-J	MW-K	TB-11 (GW)	MW-L	MW-N	MW-O	MW-P	MW-Q	TB-18 (GW)	MW-R	MW-T
		12/27/2018	12/27/2018	12/26/2018	12/27/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018
Acetone	50	NT	NT	NT	ND (0.7)	ND (0.7)	1 J	ND (0.7)	ND (0.7)	1 J	ND (0.7)	ND (0.7)	ND (4)	2 J
Benzene	1	NT	NT	NT	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
Bromomethane*	5	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.2)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (2)	ND (0.3)
n-Butylbenzene	5	NT	NT	NT	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
sec-Butylbenzene	5	NT	NT	NT	0.2 J	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
Chloroethane*	5	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
Cyclohexane	-	NT	NT	NT	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
1,1-Dichloroethane*	5	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	0.2 J	0.6 J	ND (1)	ND (0.2)
1,1-Dichloroethene*	5	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	<b>38</b>	ND (0.2)
cis-1,2-Dichloroethene*	5	0.8 J	<b>8</b>	3	0.2 J	0.3 J	0.4 J	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	<b>13</b>	<b>3,500</b>	0.4 J
trans-1,2-Dichloroethene*	5	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	0.4 J	<b>12</b>	ND (0.2)
Isopropylbenzene	5	NT	NT	NT	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
Methylcyclohexane	-	NT	NT	NT	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	1 J	ND (0.2)
n-Propylbenzene	5	NT	NT	NT	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
Tetrachloroethene*	5	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (1)	ND (0.2)
1,1,2-Trichloroethane*	1	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	<b>2 J</b>	ND (0.2)
Trichloroethene*	5	ND (0.2)	<b>61</b>	0.5 J	0.4 J	0.5 J	0.7 J	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	2	<b>1,100</b>	ND (0.2)
Vinyl Chloride*	5	0.5 J	0.8 J	0.6 J	ND (0.2)	ND (0.2)	0.3 J	ND (0.2)	0.2 J	ND (0.2)	ND (0.2)	<b>8</b>	<b>840</b>	0.3 J
Total TICs	-	NT	NT	NT	56 J	ND	ND	ND	ND	ND	ND	ND	ND	ND

**NOTES**

Results and groundwater standards are in micrograms per liter (µg/l) or parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

Asterix (\*) indicates compound is a halocarbon

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

NT = Not Tested

ND = Not Detected at a concentration greater than the detection limit shown in parenthesis

**Highlighted value exceeds the groundwater standard**



**TABLE 8**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF DETECTED SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) - GROUNDWATER SAMPLES**

Compound	NYSDEC Standard or Guidance Value <sup>(1)</sup>	Sample Designation and Date					
		MW-C	MW-D	MW-K	TB-11 (GW)	MW-L	MW-N
		12/27/2018	12/27/2018	12/27/2018	12/26/2018	12/26/2018	12/26/2018
Acenaphthene	20	1.0	1.30	1.00	ND (0.48)	ND (0.47)	ND (0.49)
Anthracene	50	0.70	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.47)	ND (0.49)
Benz(a)anthracene	0.002	<b>0.28</b>	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Benzo(a)pyrene	ND	<b>0.18</b>	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Benzo(b)fluoranthene	0.002	<b>0.16</b>	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Benzo(k)fluoranthene	0.002	<b>0.16</b>	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Chrysene	0.002	<b>0.30</b>	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Diethyl phthalate	50	ND (1.5)	ND (1.5)	2.2 J	NT	NT	NT
Fluoranthene	50	1.4	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.47)	ND (0.49)
Fluorene	50	1.9	0.76	0.82	ND (0.48)	ND (0.47)	ND (0.49)
Indeno(1,2,3-cd)pyrene	0.002	<b>0.14</b>	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Phenanthrene	50	2.8	0.80	0.58	ND (0.48)	ND (0.47)	0.58
Pyrene	50	0.94	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.47)	ND (0.49)

**NOTES**

Results and groundwater standards are in micrograms per liter (µg/l) or parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

NT = Not Tested

ND = Not Detected at a concentration greater than the detection limit shown in parenthesis

**Highlighted value exceeds the groundwater standard or guidance value**

**TABLE 9**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF RCRA METALS AND TOTAL CYANIDE TEST RESULTS - GROUNDWATER SAMPLES**

Analyte	NYSDEC Standard <sup>(1)</sup>	Sample Designation and Date									
		MW-C	MW-D	MW-H	MW-K	MW-O	MW-P	MW-Q	MW-R	MW-S	MW-T
		12/27/2018	12/27/2018	12/27/2018	12/27/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018
Arsenic	25	ND (16)	<b>134</b>	18.0 J	ND (16)	ND (16)	22.5 J	<b>72.1</b>	ND (16)	ND (16)	<b>37.1 J</b>
Barium	1,000	312	217	549	151	274	157	309	268	142	256
Cadmium	5	ND (1.0)	1.3 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Chromium	50	ND (5.3)	ND (5.3)	ND (5.3)	ND (5.3)	ND (5.3)	ND (5.3)	ND (5.3)	ND (5.3)	ND (5.3)	ND (5.3)
Lead	25	7.4 J	ND (7.1)	ND (7.1)	ND (7.1)	ND (7.1)	ND (7.1)	ND (7.1)	ND (7.1)	ND (7.1)	9.2 J
Mercury	0.7	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Selenium	10	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)	ND (21)
Silver	50	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
<b>Total cyanide</b>	<b>200</b>	ND (5.0)	ND (5.0)	NT	NT	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)

**NOTES**

Results and groundwater standards are in micrograms per liter (µg/l) or parts per billion (ppb)

(1) Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000 and June 2004.

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

ND = Not Detected at a concentration greater than the detection limit shown in parenthesis

**Highlighted value exceeds the groundwater standard**

**TABLE 10**  
**415 AND 441 CHANDLER STREET**  
**JAMESTOWN, NEW YORK**  
**SUMMARY OF DETECTED PERFLUORINATED COMPOUNDS AND 1,4-DIOXANE: GROUNDWATER SAMPLES**

Compound	Test Location and Sample Date						
	MW-C	MW-H	MW-P	MW-Q	MW-Q DUP	MW-R	Field Blank
	1/2/19	1/2/19	1/2/19	1/2/19	1/2/19	1/2/19	1/2/19
Perfluorooctanoic acid (PFOA)	8.0	2.7	2.0	0.64 J	0.60 J	5.4	ND (0.87)
Perfluorooctanesulfonic acid (PFOS)	130	23	300	11	9.7	2.6	ND (1.7)
Perfluoroheptanoic acid (PFHpA)	2.7	1.0	0.55 J	ND (0.95)	ND (0.95)	1.1	ND (0.87)
Perfluorooxononanoic acid (PFNA)	0.54 J	ND (1.9)	0.79 J	ND (1.9)	ND (1.9)	ND (1.7)	ND (1.7)
Perfluorohexanesulfonic acid (PFHxS)	21	1.6 J	4.5	1.5 J	1.2 J	0.44 J	ND (1.7)
Perfluoroheptanesulfonic acid (PFHpS)	5.7	0.55 J	1.6 J	ND (1.9)	0.44 J	ND (1.7)	ND (1.7)
Perfluorooctane Sulfonamide (FOSA)	0.68 J	ND (2.8)	ND (2.6)	ND (2.8)	ND (2.9)	ND (2.6)	ND (2.6)
Perfluorobutanoic acid (PFBA)	ND (5.2)	6.7	3.0 J	3.8 J	4.9 J	12	ND (5.2)
Perfluorohexanoic acid (PFHxA)	ND (1.7)	2.3	0.68 J	0.39 J	ND (1.9)	1.8	ND (1.7)
Perfluorobutanesulfonic acid (PFBS)	10	3.1	1.6	0.63 J	0.63 J	2.2	ND (0.87)
6:2 Fluorotelomersulfonate (6:2 FTS)	ND (1.7)	1.8 J	ND (1.7)	ND (1.9)	ND (1.9)	ND (1.7)	12
PFOA & PFOS	138	25.7	302	11.64	10.3	8	ND
PFAS (not incl. PFOA/PFOS)	39.4	13.1	6.1	6.32	7.17	17.1	12
Total PFAS (incl. PFOA/PFOS)	177.4	38.8	308.1	17.96	17.47	25.1	12

1,4-Dioxane	4	0.2 J	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
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**Notes:**

PFAS results are in nanograms per liter (ng/L) or parts per trillion (ppt)

1,4-Dioxane results are in micrograms per liter (µg/L) or parts per billion (ppb)

ND = Not Detected at a concentration greater than the reporting limit shown in parenthesis

J = Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration.

The NYSDEC does not have a groundwater standard or guidance values for perfluorooctanoic acid (PFOA) or perfluorooctanesulfonic acid (PFOS); however, in 2016 the United States Environmental Protection Agency (USEPA) issued a health advisory level of 70 nanograms per liter (ng/l) or parts per trillion (ppt) for the combined concentration of PFOA and PFOS in drinking water sources.

**APPENDIX A**  
**SANBORN FIRE INSURANCE MAP OVERLAYS**



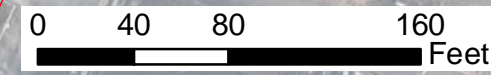
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**NOTES:**

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016



DESIGNED BY	CAH	DATE	09-2018
DRAWN BY	CAH	DATE DRAWN	09-2018
SCALE	AS NOTED	DATE ISSUED	09-04-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
 415, 441 AND 448 CHANDLER STREET  
 JAMESTOWN, NEW YORK

ENVIRONMENTAL SERVICES

Drawing Title  
 1891 Sanborn Fire Insurance Map Overlay

Project No.  
 5529S-18

Attachment A-1

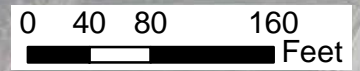




**NOTES:**

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Aerial imagery provided by the New York State GIS Clearinghouse, date 2016



DESIGNED BY	CAH	DATE	09-2018
DRAWN BY	CAH	DATE DRAWN	09-2018
SCALE	AS NOTED	DATE ISSUED	09-04-2018

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 New York, New York 10170

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 JAMESTOWN, NEW YORK**

Project No.  
**5529S-18**

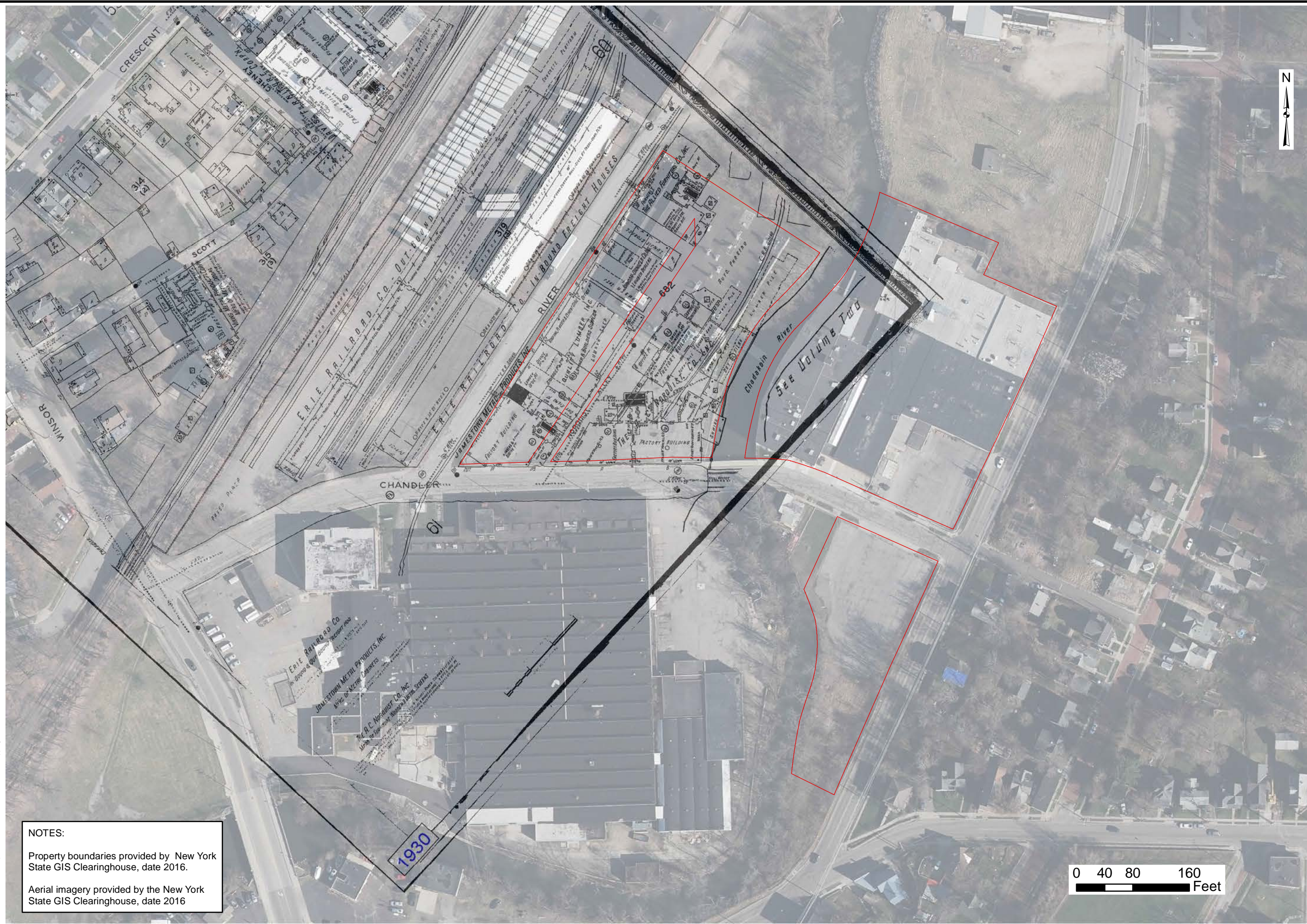
Drawing Title  
**ENVIRONMENTAL SERVICES**

1902 Sanborn Fire Insurance Map Overlay

Attachment A-2



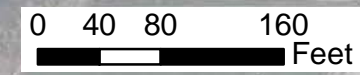
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**NOTES:**

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016



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Project Title  
**415, 441 AND 448 CHANDLER STREET  
 JAMESTOWN, NEW YORK**

Drawing Title  
**ENVIRONMENTAL SERVICES**

Project No.  
**5529S-18**

1930 Sanborn Fire Insurance Map Overlay - Volume 1

Attachment A-3





NOTES:

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Project Title  
 415, 441 AND 448 CHANDLER STREET  
 JAMESTOWN, NEW YORK

ENVIRONMENTAL SERVICES  
 Drawing Title

1930 Sanborn Fire Insurance Map Overlay - Volume 2

Project No.  
 5529S-18

Attachment A-4



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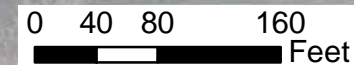


**NOTES:**

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

1949



DESIGNED BY	CAH	DATE	09-2018
DRAWN BY	CAH	DATE DRAWN	09-2018
SCALE	AS NOTED	DATE ISSUED	09-04-2018

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Project Title  
 415, 441 AND 448 CHANDLER STREET  
 JAMESTOWN, NEW YORK

Project No.  
 5529S-18

Drawing Title  
 ENVIRONMENTAL SERVICES

1949 Sanborn Fire Insurance Map Overlay - Volume 1

Attachment A-5





NOTES:

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

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DRAWN BY	CAH	DATE DRAWN	09-2018
SCALE	AS NOTED	DATE ISSUED	09-04-2018

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Project Title  
 415, 441 AND 448 CHANDLER STREET  
 JAMESTOWN, NEW YORK

ENVIRONMENTAL SERVICES  
 Drawing Title

1949 Sanborn Fire Insurance Map Overlay - Volume 2

Project No.

5529S-18

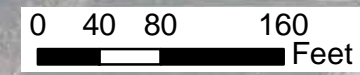
Attachment A-6



Last Date Saved: 04 Sep 2018 Document Path: E:\GIS Mapping\5529S-18\5529S-18\Sanborn Overlay - Vol. 1.mxd



**NOTES:**  
Property boundaries provided by New York State GIS Clearinghouse, date 2016.  
Aerial imagery provided by the New York State GIS Clearinghouse, date 2016



DESIGNED BY	CAH	DATE	09-2018
DRAWN BY	CAH	DATE DRAWN	09-2018
SCALE	AS NOTED	DATE ISSUED	09-04-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
 415, 441 AND 448 CHANDLER STREET  
 JAMESTOWN, NEW YORK

Project No.  
 5529S-18

ENVIRONMENTAL SERVICES  
 Drawing Title

1980 Sanborn Fire Insurance Map Overlay - Volume 1

Attachment A-7





NOTES:

Property boundaries provided by New York State GIS Clearinghouse, date 2016.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2016

DESIGNED BY	CAH	DATE	09-2018
DRAWN BY	CAH	DATE DRAWN	09-2018
SCALE	AS NOTED	DATE ISSUED	09-04-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title	415, 441 AND 448 CHANDLER STREET JAMESTOWN, NEW YORK
Drawing Title	ENVIRONMENTAL SERVICES
Project No.	5529S-18
1980 Sanborn Fire Insurance Map Overlay - Volume 2	

Attachment A-8



**APPENDIX B**  
**SOIL VAPOR SAMPLING LOGS**



**Soil Vapor Sampling Log**

Project #: 5529S-18

Project Address: 415 and 441 Chandler Street

Sample Type: Summa Canister

Jamestown, New York

Date: 9/5/2018

Page 1 of 1

DAY Representatives: CAH/TER/CCD

Canister #: SC02170

Slab Thickness: ~8"

Sample Location: Former Vapor Degreaser

Regulator #: OA01429

Probe Depth: ~10"

Purge Time: ~ 3 min.

Sample Designation: SSV- 1

Start: 12:25

Backfill Material: Sand

Purge Method: Syringe

Test Duration: 2 hrs. 0 min.

End: 14:25

Surface Seal: Bentonite

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
12:25	-30	0.0	START
12:45	-26	0.0	
13:32	-15	0.0	
13:58	-10.5	0.0	
14:25	-7	0.0	STOP

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

**Soil Vapor Sampling Log**

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**Soil Vapor Sampling Log**

Page 1 of 1

Project #: 5529S-18  
Project Address: 415 and 441 Chandler Street Sample Type: Summa Canister  
Jamestown, New York Date: 9/5/2018  
DAY Representatives: CAH/TER/CCD Canister #: SC01873 Slab Thickness: ~8"  
Sample Location: Sheet Metal Spool Caddy Regulator #: OA01035 Probe Depth: ~10" Purge Time: ~ 3 min.  
Sample Designation: SSV- 2 Start: 12:22 Backfill Material: Sand Purge Method: Syringe  
Test Duration: 2 hrs. 2 min. End: 14:24 Surface Seal: Bentonite

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
12:22	-28.5	0.0	START
12:43	-24	0.0	
13:32	-13	0.0	
13:57	-9	0.0	
14:24	-5.5	0.0	STOP

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

**Soil Vapor Sampling Log**



**Soil Vapor Sampling Log**

Project #: 5529S-18

Project Address: 415 and 441 Chandler Street

Sample Type: Summa Canister

Jamestown, New York

Date: 9/5/2018

Page 1 of 1

DAY Representatives: CAH/TER/CCD

Canister #: SC00286

Slab Thickness: ~8"

Sample Location: Five Stage Washer

Regulator #: OA01413

Probe Depth: ~10"

Purge Time: ~ 3 min.

Sample Designation: SSV- 3

Start: 12:26

Backfill Material: Sand

Purge Method: Syringe

Test Duration: 2 hrs. 0 min.

End: 14:26

Surface Seal: Bentonite

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
12:26	-28.5	0.0	START
12:46	-25	0.0	
13:33	-15	0.0	
13:59	-11	0.0	
14:26	-7	0.0	STOP

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

**Soil Vapor Sampling Log**





**Soil Vapor Sampling Log**

Project #: 5529S-18  
Project Address: 415 and 441 Chandler Street Sample Type: Summa Canister  
Jamestown, New York Date: 9/5/2018  
DAY Representatives: CAH/TER/CCD Canister #: SC02197 Slab Thickness: ~10"  
Sample Location: Die Unit Shelving Regulator #: OA00322 Probe Depth: ~12" Purge Time: ~ 3 min.  
Sample Designation: SSV- 4 Start: 12:28 Backfill Material: Sand Purge Method: Syringe  
Test Duration: 2 hrs. 1 min. End: 14:29 Surface Seal: Bentonite

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
12:28	-28.5	0.0	START
12:47	-25	0.0	
13:34	-15	0.0	
13:59	-10	0.0	
14:29	-6	0.0	STOP

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

**Soil Vapor Sampling Log**

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Project #: 5529S-18

**Soil Vapor Sampling Log**

Project Address: 415 and 441 Chandler Street  
Jamestown, New York

Sample Type: Summa Canister

Date: 9/5/2018

Page 1 of 1

DAY Representatives: CAH/TER/CCD

Canister #: SC01756

Slab Thickness: ~8"

Sample Location: Laser Cutting Area

Regulator #: OA02032

Probe Depth: ~10"

Purge Time: ~3 min.

Sample Designation: SSV-5

Start: 12:30

Backfill Material: Sand

Purge Method: Syringe

Test Duration: 2 hrs. 0 min.

End: 14:30

Surface Seal: Bentonite

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
12:30	-30	0.0	START
12:49	-25.5	0.0	
13:35	-16	0.0	
14:00	-10.5	0.0	
14:30	-6.5	0.0	STOP

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

**Soil Vapor Sampling Log**

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**Soil Vapor Sampling Log**

Project #: 5529S-18

Project Address: 415 and 441 Chandler Street Sample Type: Summa Canister  
Jamestown, New York Date: 9/5/2018

DAY Representatives: CAH/TER/CCD Canister #: SC01745 Slab Thickness: ~12"

Sample Location: Plating Building (SE) Regulator #: OA02061 Probe Depth: ~14" Purge Time: ~ 3 min.

Sample Designation: SSV-6 Start: 12:31 Backfill Material: Sand Purge Method: Syringe

Test Duration: 2 hrs. 4 min. End: 14:35 Surface Seal: Bentonite

Time	Vacuum Gage Reading (inches of Hg)	Background VOC Reading (ppm)	Notes
12:31	-29.5	0.0	START
12:52	-27	0.0	
13:10	-23	0.0	
13:36	-18.5	0.0	
14:02	-13	0.0	
14:35	-7	0.0	STOP

Notes: 1) PID readings are referenced to an isobutylene standard measured using a MiniRae 2000 or PPB RAE equipped with a 10.6 eV lamp.

**Soil Vapor Sampling Log**

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**APPENDIX C**  
**CONCRETE FLOOR SAMPLING LOGS**

Project #: 5529S-18  
 Project Address: 415 and 441 Chandler St.  
 Jamestown, NY

**CORE SAMPLE CFS-A**

Page 1 of 1

DAY Representative: CAH/TER/CCD  
 Sampling Method: Electric Core Drill  
 Date Sampled: 9/5/2018  
 Borehole Depth: 8.5"  
 Borehole Diameter: 1 1/2"  
 Completion Method: Backfilled with Concrete

Depth (in)	Sample Description	Notes	Photograph
1	Floor Coating ----- Concrete contains voids ----- Competent concrete	Fracture @ ~1.2"	
2		Fracture @ ~2.5"	
3			
4			
5			
6	No recovery 6"-8.5"		
7			
8			
9	Bottom of Concrete Slab @ ~8.5"		
10			
11			
12			
13			
14			
15			
16			

**CORE SAMPLE CFS-A**


Project #: 5529S-18  
 Project Address: 415 and 441 Chandler St.  
 Jamestown, NY

**CORE SAMPLE CFS-B**

Page 1 of 1

DAY Representative: CAH/TER/CCD  
 Sampling Method: Electric Core Drill

Date Sampled: 9/5/2018  
 Borehole Depth: 9.0"  
 Borehole Diameter: 1 1/2"  
 Completion Method: Backfilled with Concrete

Depth (in)	Sample Description	Notes	Photograph
1	Competent concrete	Staining on surface	
2		Fracture @~1.8"	
3			
4			
5			
6		Fracture @~6.0"	
7			
8			
9	Bottom of Concrete Slab @ -9"		
10			
11			
12			
13			
14			
15			
16			


**CORE SAMPLE CFS-B**

Project #: 5529S-18  
 Project Address: 415 and 441 Chandler St.  
 Jamestown, NY

**CORE SAMPLE CFS-C**

Page 1 of 1


DAY Representative: CAH/TER/CCD  
 Sampling Method: Electric Core Drill  
 Date Sampled: 9/5/2018  
 Borehole Depth: 10.1"  
 Borehole Diameter: 1 1/2"  
 Completion Method: Backfilled with Concrete

Depth (in)	Sample Description	Notes	Photograph
1	Competent concrete		
2			
3			
4			
5		Fracture @~4.7"	
6			
7		Fracture @~6.6"	
8		Fracture @~7.3"	
9			
10	Bottom of Concrete Slab @ ~10.1"		
11			
12			
13			
14			
15			
16			

**CORE SAMPLE CFS-C**



Project #: 5529S-18 Project Address: 415 and 441 Chandler St. Jamestown, NY	<div style="text-align: right; border: 1px solid black; padding: 2px;"><b>CORE SAMPLE CFS-D</b></div> Date Sampled: 9/5/2018 Borehole Depth: 7.9" Borehole Diameter: 1 1/2" Completion Method: Backfilled with Concrete
DAY Representative: CAH/TER/CCD Sampling Method: Electric Core Drill	Page 1 of 1

Depth (in)	Sample Description	Notes	Photograph
1	Competent concrete		
2		Fracture @ -2.0"	
3			
4		re-bar in core sample	
5			
6	No recovery 5.5"-7.9"		
7			
8	Bottom of Concrete Slab @ -7.9"		
9			
10			
11			
12			
13			
14			
15			
16			

**CORE SAMPLE CFS-D**




Project #: 5529S-18  
 Project Address: 415 and 441 Chandler St.  
 Jamestown, NY

**CORE SAMPLE CFS-E**

Page 1 of 1

DAY Representative: CAH/TER/CCD  
 Sampling Method: Electric Core Drill

Date Sampled: 9/5/2018  
 Borehole Depth: 3.5"  
 Borehole Diameter: 1 1/2"  
 Completion Method: Backfilled with Concrete

Depth (in)	Sample Description	Notes	Photograph
1	Asphalt Coating ----- Competent concrete		
2			
3		Fracture @ ~2.0"	
4	Drilling terminated @ ~3.5"		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			


**CORE SAMPLE CFS-E**

Project #: 5529S-18  
 Project Address: 415 and 441 Chandler St.  
 Jamestown, NY  
 DAY Representative: CAH/TER/CCD  
 Sampling Method: Electric Core Drill

Date Sampled: 9/5/2018  
 Borehole Depth: 4.5"  
 Borehole Diameter: 1 1/2"  
 Completion Method: Backfilled with Concrete

**CORE SAMPLE CFS-F**

Page 1 of 1

Depth (in)	Sample Description	Notes	Photograph
1	Competent concrete		
2			
3			
4			
5	Bottom of Concrete Slab @ ~4.5"		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

**CORE SAMPLE CFS-F**

**APPENDIX D  
TEST BORING LOGS  
AND  
MONITORING WELL CONSTRUCTION DIAGRAMS**



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18  
 Project Address: 441 Chandler Street  
 Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Trec Environmental, Inc.  
 Sampling Method: Direct Push

**Test Boring MW-A**

Page 1 of 1

Date Started: 11/6/2018 Date Ended: 11/6/2018  
 Borehole Depth: 13.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Concrete Floor	
							0.0	Tan/Brown, fine to coarse Sand, little Gravel, little Slag, damp (FILL)	
							0.0		
2		S-1	0.5-4	82			4502	Dark Brown, Silt and fine Sand, moist (FILL)	
							1899	Cinders, coarse Sand, pieces of Concrete (FILL)	
3							1392		
							4800	Dark Brown/Gray, Silty CLAY little fine Sand, little Gravel, moist	
4									
							541	Tan/Brown, Clayey fine SAND, some Gravel, moist	
5		S-2	4-8	60			494		
							74.2		
6									
							388	...Gray/Green, Clayey fine to medium SAND, little Gravel	Slight chemical odor 7 - 8 ft.
7									
							42.3	...wet	Free petroleum product and solvent type odor
8									
							0.0	Gray, coarse SAND and GRAVEL, little Clay, wet	8 - 12 ft.
9									
							480		
10		S-3	8-12	100					
							15000		
11									
							3565		
							3325	Gray, Silty fine Sand, little fine to medium Gravel, wet (TILL)	
12									
13		S-4	12-13	100			1810	1500	
14								Equipment Refusal @ 13.0'	
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-A**

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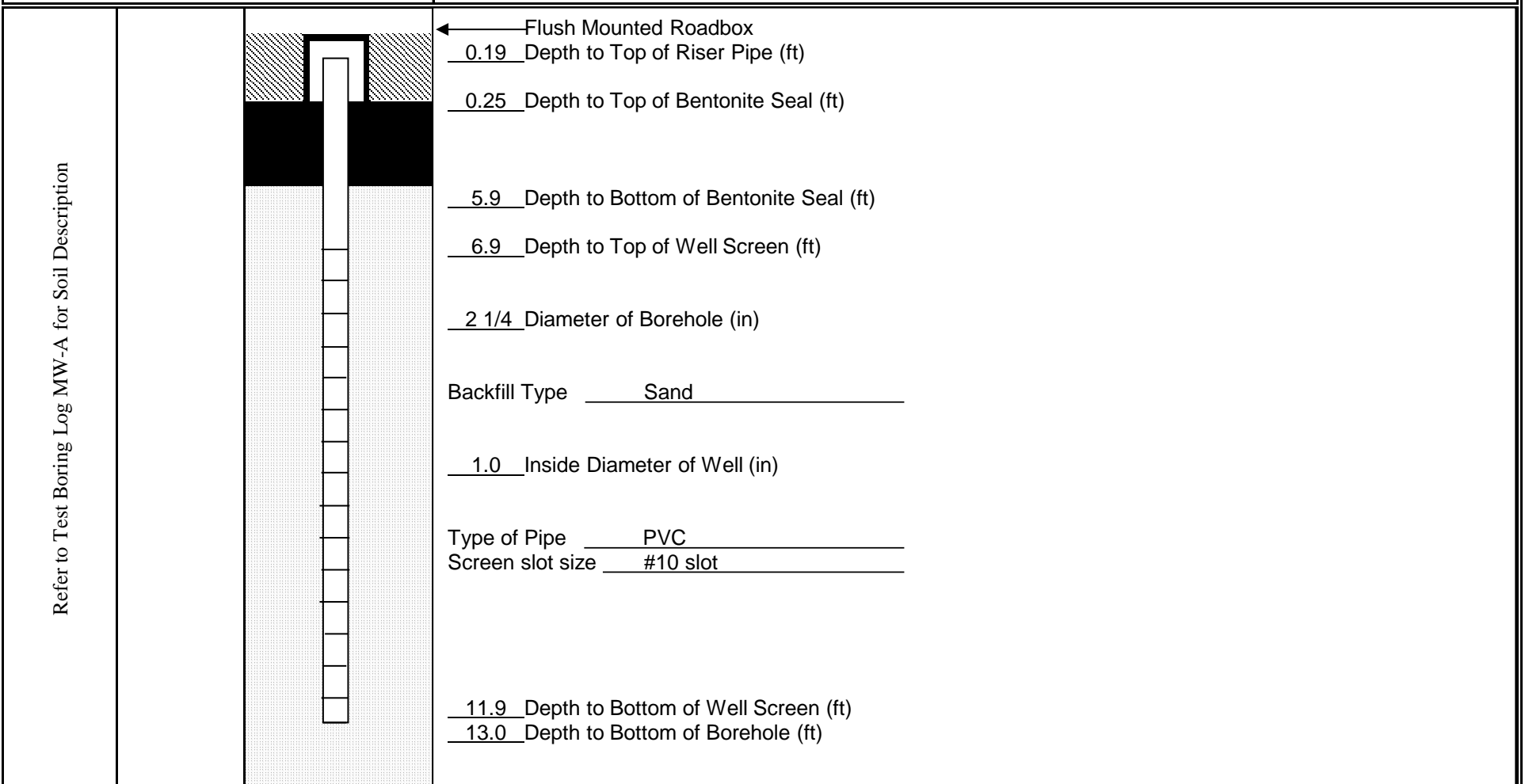
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ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-A</b>
Project Address: <u>441 Chandler Street</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>11/6/2018</u>	Date Ended: <u>11/6/2018</u>
Drilling Contractor: <u>Trec Environmental</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-A**

CAH1222 / 5529S-18

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18  
 Project Address: 441 Chandler Street  
 Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Trec Environmental, Inc.  
 Sampling Method: Direct Push

**Test Boring MW-B**

Page 1 of 1

Date Started: 11/6/2018 Date Ended: 11/6/2018  
 Borehole Depth: 11 Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							220	Concrete Floor	
2		S-1	0.5-4	50			201.9	Brown, medium to coarse Sand and fine to medium Gravel, damp (FILL) ...little Silt	
3								...little Brick	
4						714			
5							422	...coarse Sand and Gravel, little Brick	
6		S-2	4-8	43			156	...wet	
7							385	...medium to coarse Sand and Gravel, trace Silt	
8						564	116	Gray/Brown, Clayey SILT with Roots, Organics, wet Gray, medium to coarse SAND, wet	
9		S-3	8-11	80		535	274	Gray, Silty CLAY, coarse Sand, some Gravel, wet	
10							389	...Peat/Plant fibers, wet	
11							156	Gray, Silty SAND and Gravel, little Clay (TILL)	
12							18.1		
13									
14									
15									
16									
								Equipment Refusal @ 11.0'	

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-B**

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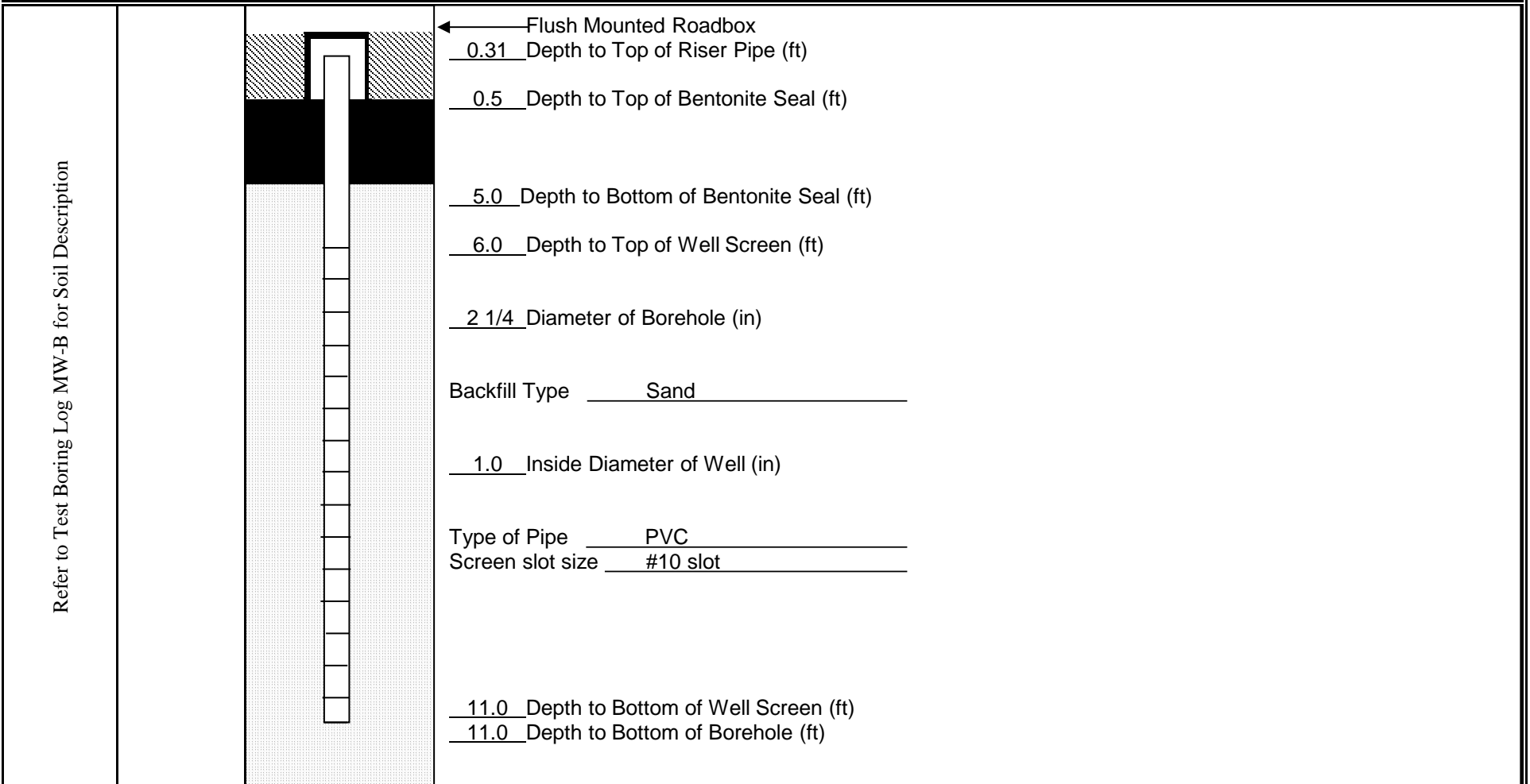
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ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-B</b>
Project Address: <u>441 Chandler Street</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>11/6/2018</u>	Date Ended: <u>11/6/2018</u>
Drilling Contractor: <u>Trec Environmental</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-B**

CAH1222 / 5529S-18

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DAY ENVIRONMENTAL, INC.

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Project #: 5529S-18  
 Project Address: 441 Chandler Street  
 Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Trec Environmental, Inc.  
 Sampling Method: Direct Push

**Test Boring MW-C**

Page 1 of 1

Date Started: 11/6/2018 Date Ended: 11/6/2018  
 Borehole Depth: 9.5' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							448	Concrete Floor	
								Ash (fill)	
								Black, fine to medium Sand, Ash, Cinders, damp (FILL)	
2		S-1	0-4	65			620	Brown, Silty fine Sand, little Gravel, damp (FILL)	
3							281	...Coal fragments	
4							395	Red/Brown, Clayey fine SAND little Gravel, moist	
5							124	...Black	
6		S-2	4-8	80	N/C		61	...Gray, Gravel, wet	
7							50.3	...Dark Gray, Silty fine Sand, Trace Clay	
8							20.2	Black, silty fine SAND and Peat, wet	
9		S-3	8-8.5	100	N/C		79	...coarse Sand	
10								Equipment Refusal @ 9.5'	
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-C**

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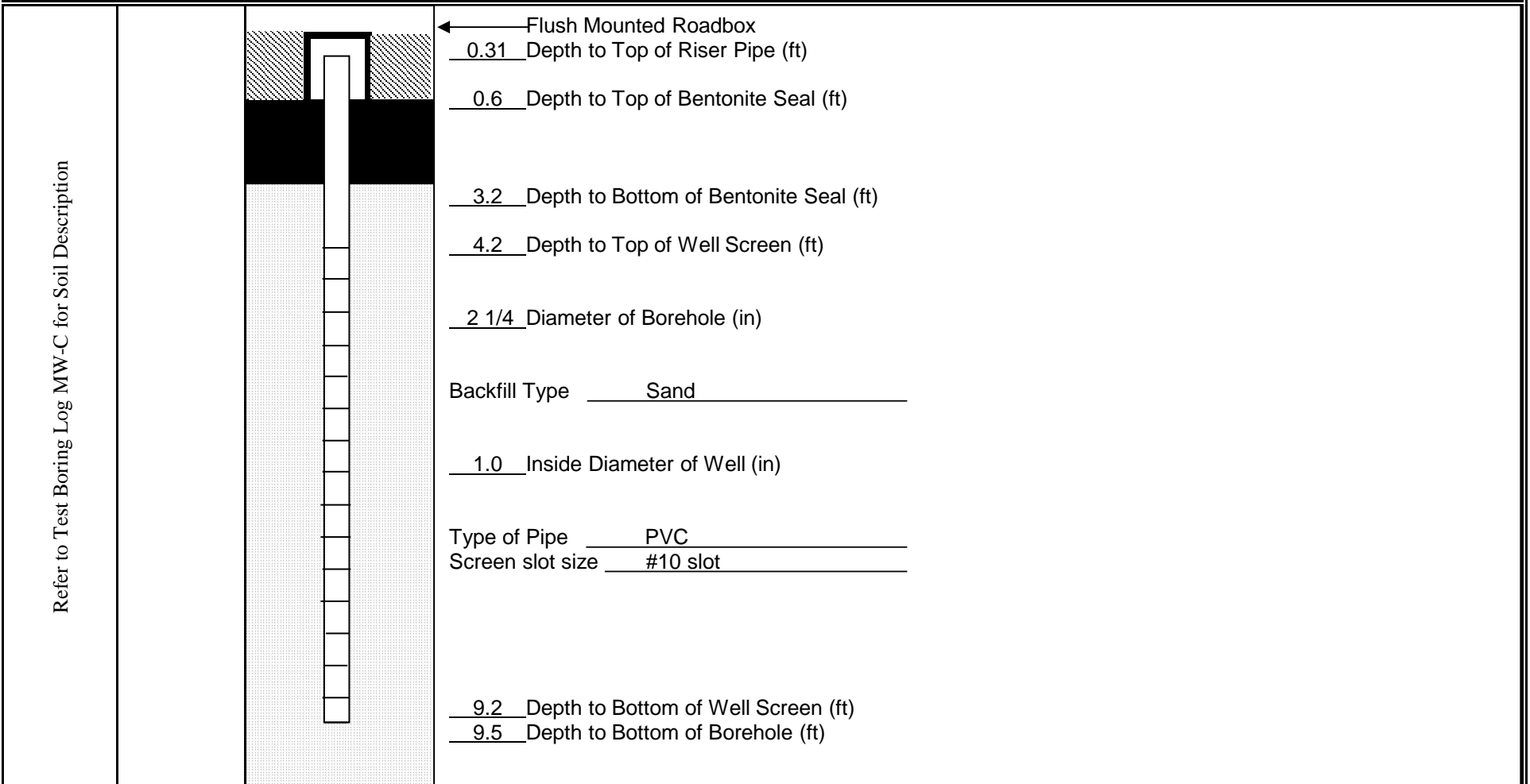
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-C</b>
Project Address: <u>441 Chandler Street</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>11/6/2018</u>	Date Ended: <u>11/6/2018</u>
Drilling Contractor: <u>Trec Environmental</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-C**

CAH1222 / 5529S-18

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18  
 Project Address: 441 Chandler Street  
 Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Trec Environmental, Inc.  
 Sampling Method: Direct Push

**Test Boring MW-D**

Page 1 of 1

Date Started: 11/6/2018 Date Ended: 11/6/2018  
 Borehole Depth: 10.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							55.3	Concrete Floor	
								Black, fine Sand, little Gravel intermixed with Ash, Cinders, damp (FILL)	
2		S-1	0.5-4	88		0.7	2.4		
3							9.0	Gray, Clayey fine Sand and Gravel, little Glass, little Metal, damp (FILL)	
4							2.0	Gray, Sandy Silt, little fine Gravel, moist (FILL)	
5									
6		S-2	4-8	25		221	22.2		
7								Black, coarse Sand and fine Gravel, Metal fragments (copper?), moist (FILL)	
8							137		
9		S-3	8-12	100		494	368		Slight chemical odor 9 - 10 ft.
							168		
10								Gray, Silty SAND, some Gravel, wet (TILL)	
11								Equipment Refusal @ 10.0'	
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-D**

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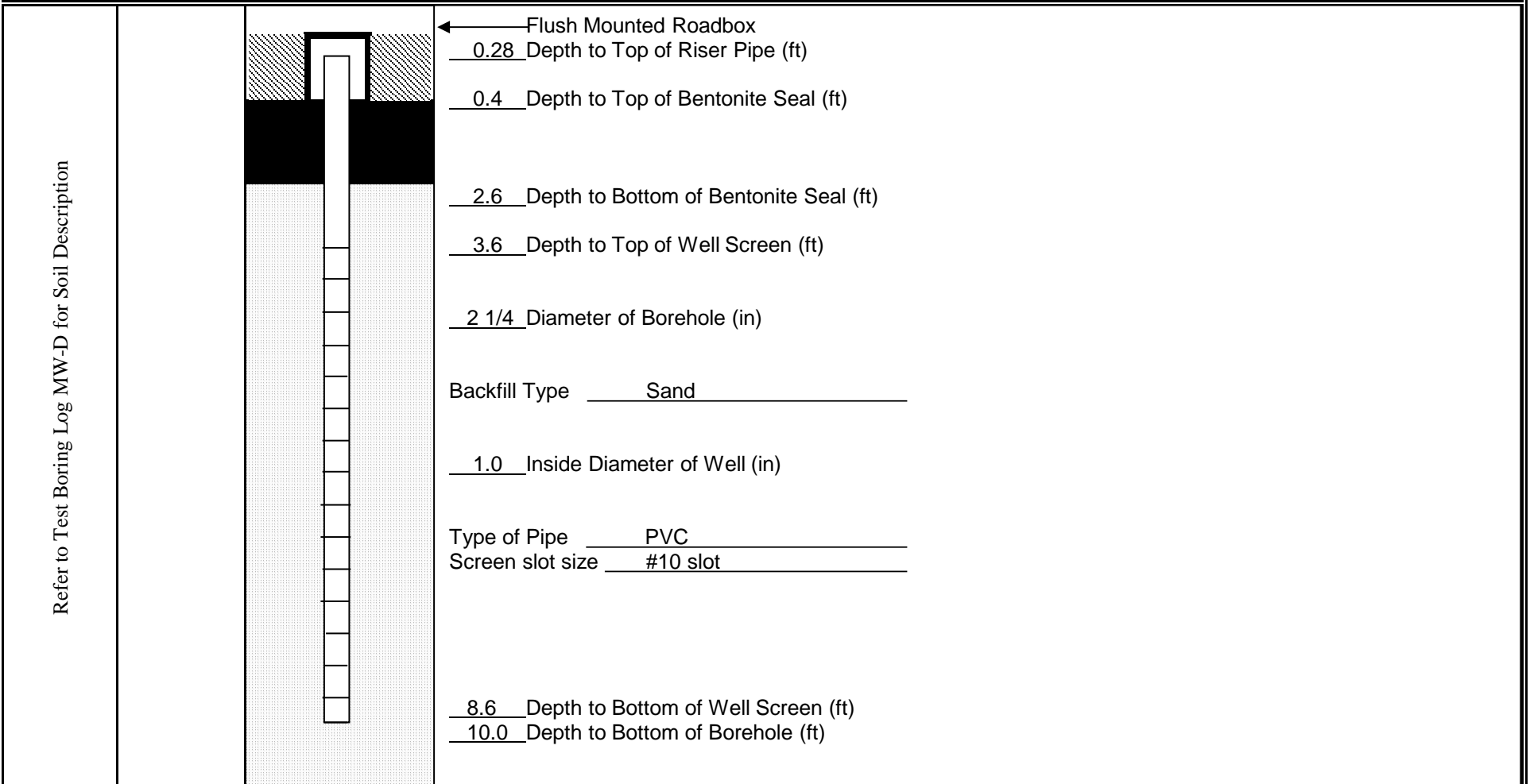
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AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-D</b>
Project Address: <u>441 Chandler Street</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>11/6/2018</u>	Date Ended: <u>11/6/2018</u>
Drilling Contractor: <u>Trec Environmental</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-D**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-01/MW-E**

Page 1 of 1

Date Started: 12/19/2018 Date Ended: 12/19/2018  
 Borehole Depth: 12.65' Borehole Diameter: 7 1/2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1						4.5	10.7	Concrete Floor	Installed MW-E
							7.0	Brown, Clayey fine to coarse Sand and fine to coarse Gravel, damp (FILL)	
2		S-1	0-4	55			7.0	Red/Brown, fine Sand, Coal, Cinders, white precipitate (acid?), damp (FILL)	
							2.4	Brown, Clayey fine Sand and fine to coarse Gravel, Coal fragments (FILL)	
3									
4							1.3	Tan, Clayey fine to medium SAND and medium to coarse GRAVEL, damp	
5							4.5		
6		S-2	4-8	55			3.9	Brown, Clayey SILT, little fine Sand, little medium to coarse Gravel, moist	
7							10.6	9.0	
							2.2	...gray, wet	
8							5.6		
9							5.1		
10		S-3	8-12	90			12.2		
11							169		
							15000	Gray, Silty fine SAND, little fine to medium Gravel, wet (TILL)	
12							1531	3805	
							62.5	Tan, Clayey fine SAND and Shale fragments, wet	
13								Direct Push Refusal @ 12.5' Augered to refusal @ 12.65' to install monitoring well	
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-01/MW-E**

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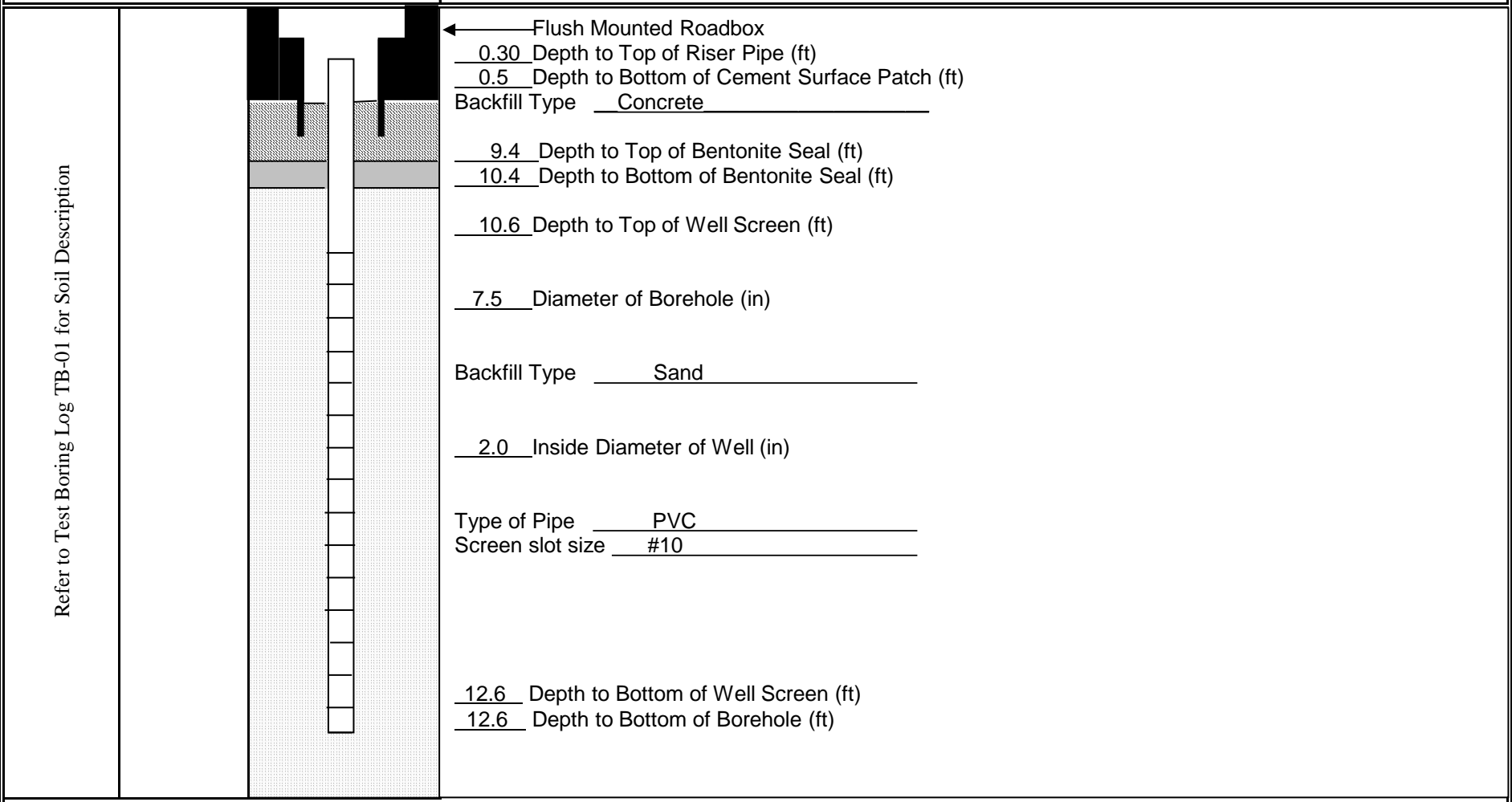
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AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-E</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/19/2018</u>	Date Ended: <u>12/19/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-E**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-02/MW-F**

Page 1 of 1

Date Started: 12/19/2018 Date Ended: 12/19/2018  
 Borehole Depth: 12.9' Borehole Diameter: 7 1/2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							6.9	Concrete Floor	Installed MW-F
								Tan/Brown, Clayey fine to coarse Sand and fine to coarse Gravel, damp (FILL)	
2		S-1	0-4	73		2.1	1.3	Dark Brown/Black, medium to coarse Sand and Cinders, little Ash, damp (FILL)	
3							0.3		
								Dark Brown, Clayey SILT, little fine Sand, little medium to coarse Gravel, moist	
4							0.0		
5							0.4	Gray/Green, Clayey fine SAND, soe Gravel, moist	
6		S-2	4-8	65			0.5	...Peat Layer	
7							0.5	Gray/Green, Clayey SILT, trace Sand, trace Gravel, wet	
8						7.0	1.3	Silty fine to medium SAND, little fine to medium Gravel, wet	
9							2.6	Gray, Clayey fine to coarse SAND, little Gravel, wet	
10		S-3	8-12	90			4.5	...and fine to coarse GRAVEL	
11						515	92		
							161	Gray, Silty fine to medium SAND and fine to medium GRAVEL, wet (TILL)	
12		S-4	12-12.9	55		440	160		
13								...SHALE fragments	
14								Direct Push Refusal @ 12.9' Augered to refusal @ 12.85' to install monitoring well	
15									
16									

Solvent-type odor -8' to 11'

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-02/MW-F**

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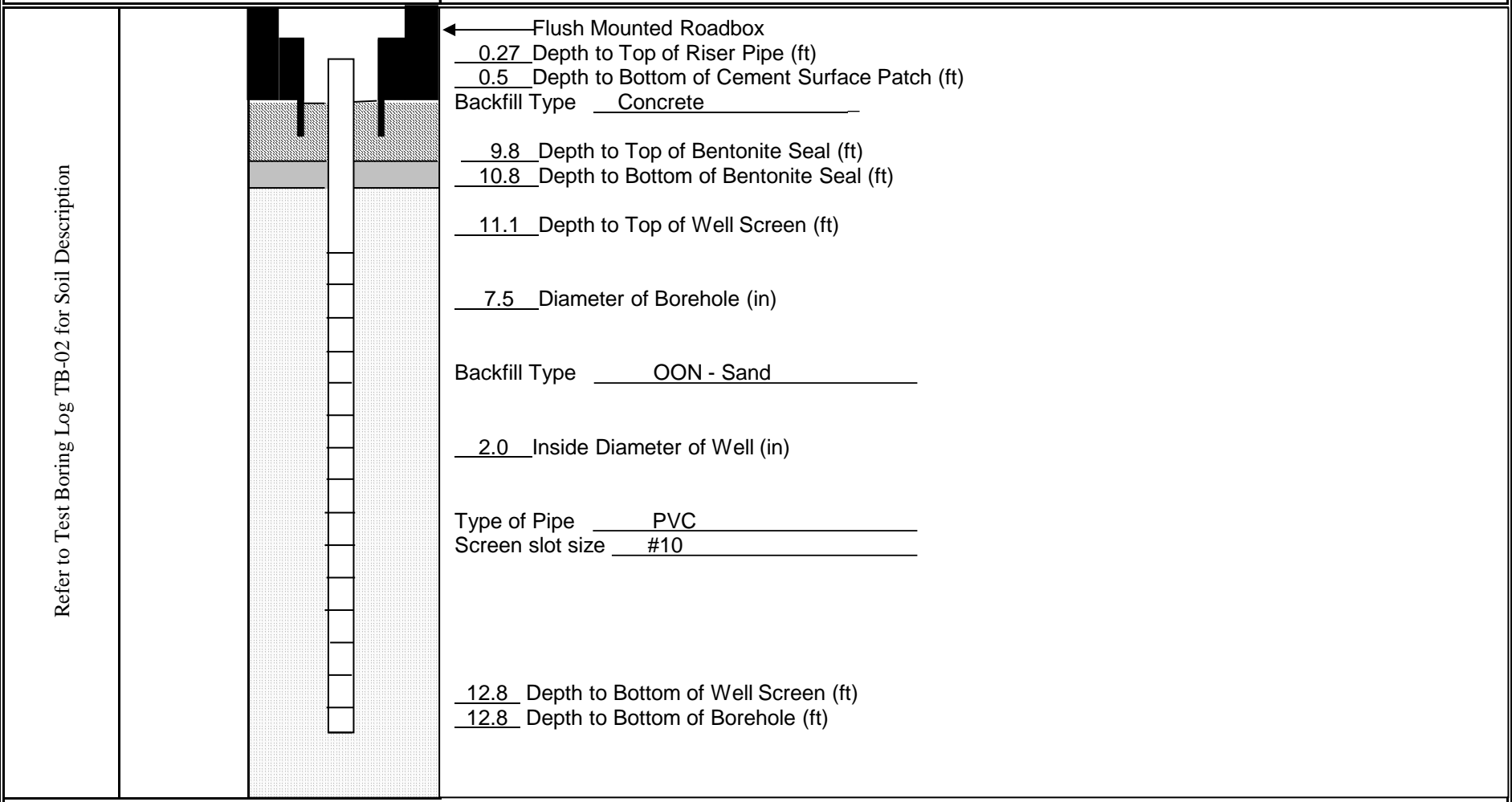
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-F</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/19/2018</u>	Date Ended: <u>12/19/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-F**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-03**

Page 1 of 1

Date Started: 12/20/2018 Date Ended: 12/20/2018  
 Borehole Depth: 9.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.9	Concrete Floor	
2		S-1	0-4	20		3.5		Brown, Clayey fine to coarse Sand and fine to coarse Gravel, little Cobbles, damp (FILL)	
3							0.8		
4							1.3	Brown, Clayey SILT, some fine to medium Gravel, little fine Sand, moist	
5								...cobble fragments	
6		S-2	4-8	45			0.8	Tan, Silty fine to medium SAND and fine GRAVEL, trace Shale fragments, moist	
7						5.7	1.0		
8		S-3	8-9	100		7.3	1.3	Green weathered SHALE, moist	
9								Equipment Refusal @ 9.0'	
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-03**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-04**

Page 1 of 1

Date Started: 12/20/2018 Date Ended: 12/20/2018  
 Borehole Depth: 12.9 Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.5	Concrete Floor	
2		S-1	0-4	38		4.3	0.6	Tan, Clayey fine to coarse Sand and fine to coarse Gravel, damp (FILL)	
3							0.6	Red/Brown, Silty fine to medium Sand and Cinders, pockets of apparent acid corrosion (FILL)	
4							0.5		
5							0.9	Dark Brown, Clayey Silt and medium to coarse Gravel, Glass, Shale Fragments (FILL)	
6		S-2	4-8	48			1.0	...brick fragments	
7							0.9	Dark Brown, Clayey SILT, little fine Sand, little medium to coarse Gravel, moist	
8						5.0	1.3	...wet, gray	
9							1.7	Gray, Clayey fine to coarse SAND and fine to coarse GRAVEL, wet	
10		S-3	8-12	68			6.0		
11							24.7		
12						174.9	13.8	Gray, fine to medium Sand, some fine to medium Gravel, wet (TILL)	
12		S-4	12-12.9	80			103		
13						70.0	22.6	Weathered SHALE	
14								Equipment Refusal @ 12.9'	
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-04**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-05**

Page 1 of 1

Date Started: 12/19/2018 Date Ended: 12/19/2018  
 Borehole Depth: 12.5' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							3.1	Concrete Floor	
2		S-1	0-4	70		4.3	2.2	Tan, Clayey fine to coarse Sand and fine to coarse Gravel, damp (FILL)	
3							1.1	Red/Brown, Silty fine Sand, Coal fragments, corrosion (acid?) (FILL)	
4							0.9	Dark Brown, Silty Clay and medium to coarse Gravel (FILL)	
5							1.3	Tan, Clayey fine Sand and fine to coarse Gravel, Shale fragments, moist (FILL)	
6		S-2	4-8	65		5.7	0.8		
7							0.6	Brown/Gray, Clayey SILT, little medium to coarse Gravel, wet	
8							0.5	...dark brown, little Clay, little fine Sand	
9							0.9	...gray	
10		S-3	8-12	100			0.7	Gray, Clayey medium to coarse SAND and fine to coarse GRAVEL, wet	
11							7.6		
12						129.4	80.8	Gray, Silty fine SAND, little medium to coarse Gravel, wet (TILL)	
13		S-4	12-12.5	100		117	527	...Shale fragments and weathered SHALE	
14								Equipment Refusal @ 12.5'	
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-05**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-06/MW-G**

Date Started: 12/19/2018 Date Ended: 12/19/2018  
 Borehole Depth: 11.5' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.8	Concrete Floor	<b>Installed MW-G</b>
2		S-1	0-4	58		3.8	1.7	Brown, Clayey fine Sand and fine to coarse Gravel, damp (FILL) Red/Brown, Silty fine to medium Sand and fine to coarse Gravel, little Cobbles, damp (FILL)	
3							1.0	Tan/Brown, medium Sand, little fine Gravel, little Cinders, moist (FILL)	
4							0.6	Dark Brown, Clayey SILT, little fine Sand, little medium to coarse Gravel, moist	
5							0.7	...trace Gravel, wet	
6		S-2	4-8	60			1.3	...gray	
7						6.5	1.8	Gray, Silty fine to medium SAND and fine to medium GRAVEL, wet	
8							2.4		
9							0.4	... medium to coarse SAND and fine to coarse GRAVEL, trace Clay	
10		S-3	8-11.5	94			1.2		
11						25.4	1.1	Gray, Silty fine to medium SAND, little fine to coarse Gravel, little Shale fragments	
12							8.8	(TILL)	
13								Equipment Refusal @ 11.5'	
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-06/MW-G**

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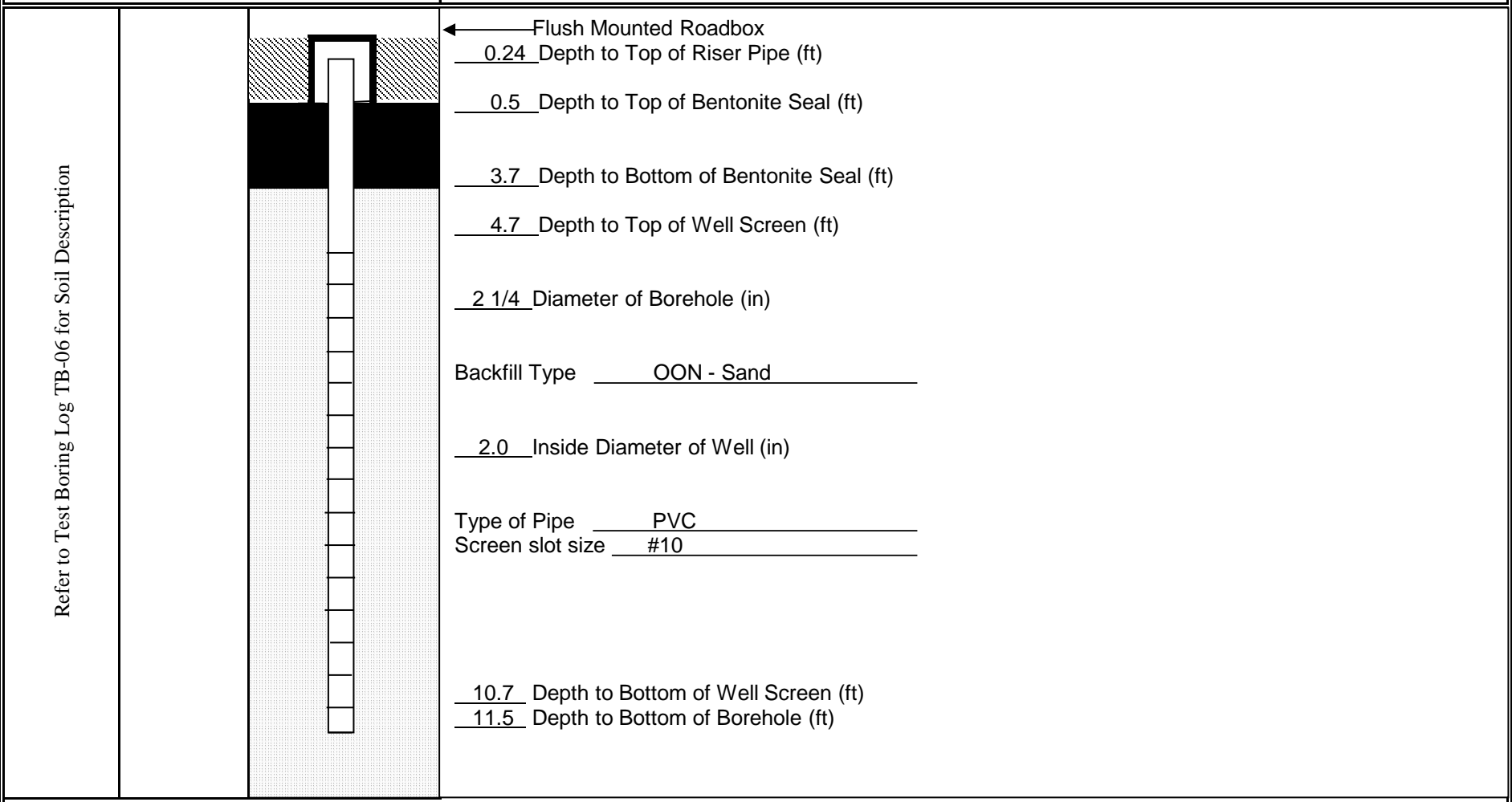
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AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>	<b>MONITORING WELL MW-G</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>	
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/19/2018</u> Date Ended: <u>12/19/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-G**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-07/MW-H**

Page 1 of 1

Date Started: 12/18/2018 Date Ended: 12/18/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.4	Concrete Floor	Installed MW-H
2		S-1	0-4	65		1.8	0.3	Brown, Clayey fine to coarse Sand and fine to coarse Gravel, damp (FILL)	
3							0.2	Gray, Clay, little fine Sand, trace fine Gravel (FILL)	
4							0.2	Dark Brown, Clayey Silt, little fine Sand, little medium to coarse Gravel, moist (FILL)	
5							0.0		
6		S-2	4-8	40		1.7	1.8	Concrete fragments, wet (FILL)	
7							0.9	Gray, Silty CLAY, little fine to coarse Sand, little coarse Gravel, wet	
8									
9							0.4	Gray/Brown, Clayey SILT and occasional plant fibers, wet	
10		S-3	8-12	100			0.6		
11							0.6		
12							0.3	Gray, Silty fine to medium SAND, some, fine to medium Gravel, wet (TILL)	
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-07/MW-H**

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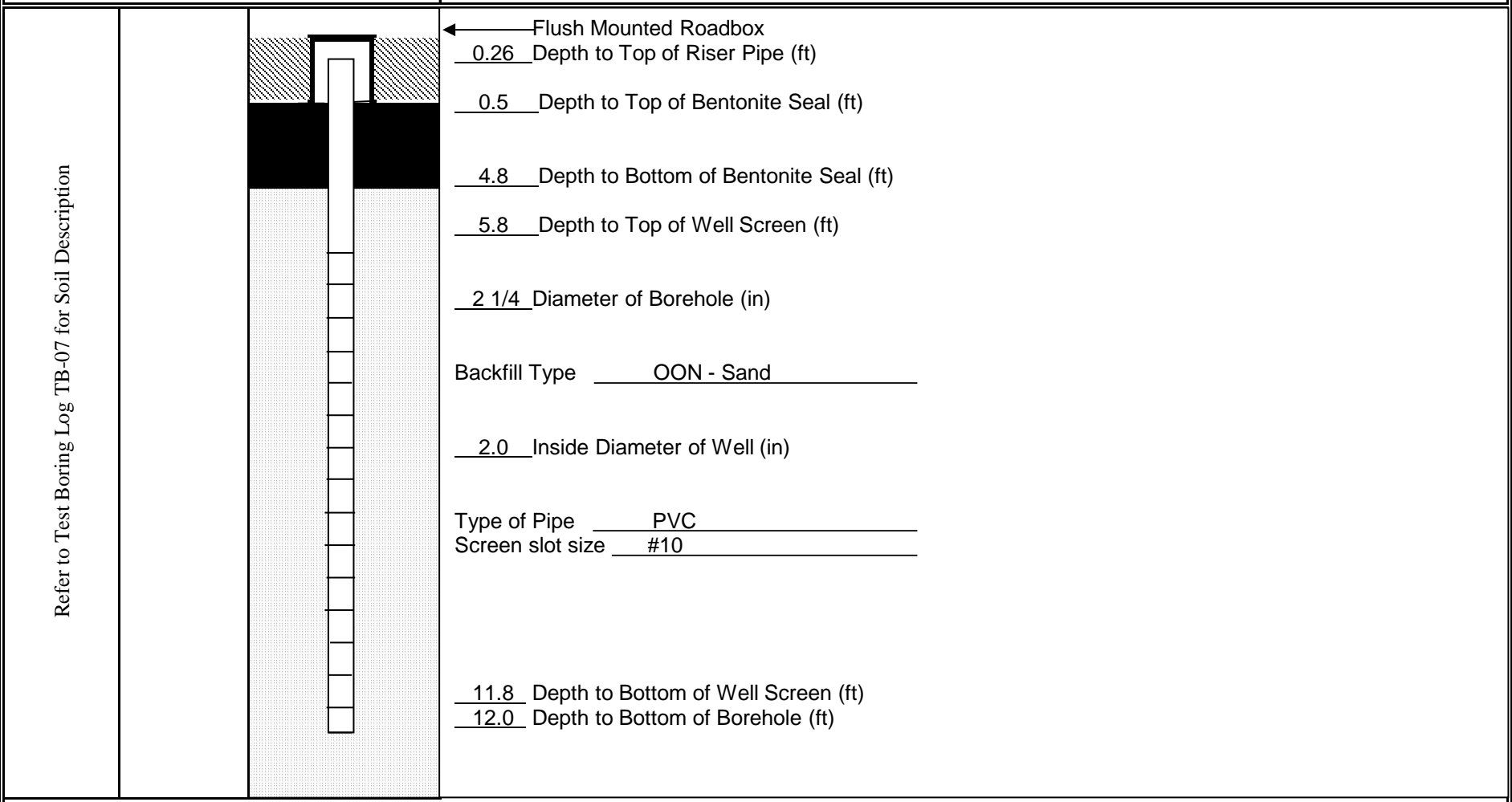
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AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>	<b>MONITORING WELL MW-H</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>	
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u> Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-H**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-08/MW-I**

Date Started: 12/18/2018 Date Ended: 12/18/2018  
 Borehole Depth: 10.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt (0.2') above Concrete (0.3')	<b>Installed MW-I</b>
2		S-1	0-4	35			0.1	Tan/Brown, Clayey fine Sand, crushed Rock, damp (FILL)	
3						0.6	0.1	Black, fine to medium Sand, Cinders, little Gravel, damp (FILL)	
4							0.0	Brown, Clayey SILT, little fine to medium Sand, little fine to coarse Gravel, moist	
5							0.0	Red/Brown, Silty CLAY, little fine Sand, trace fine Gravel, moist	
6		S-2	4-8	100			0.0	0.0	
7						0.2	0.0	Tan, Clayey fine to medium SAND and fine to medium GRAVEL, damp	
8							0.0	...cobbles/shale fragments	
9		S-3	8-10	100		0.2	0.0	Gray/Green weathered SHALE, moist	
10							0.0	Equipment Refusal @ 10.0'	
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-08/MW-I**

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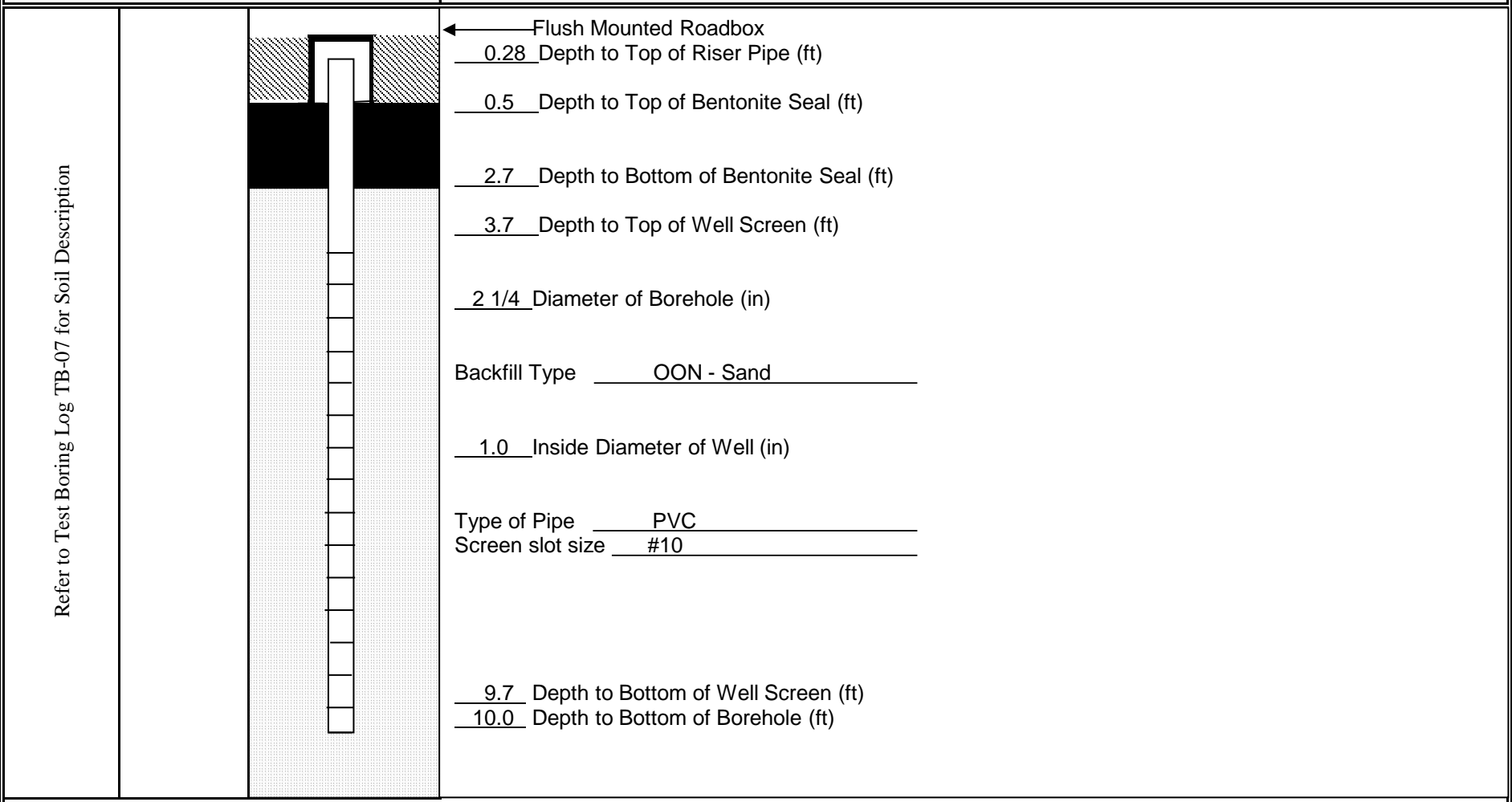
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>	<b>MONITORING WELL MW-I</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>	
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u> Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-I**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-09/MW-J**

Page 1 of 1

Date Started: 12/18/2018 Date Ended: 12/18/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Concrete	Installed MW-J
2		S-1	0-4	28			0.0	Brown, Clayey fine to coarse Sand, little fine to coarse Gravel, damp (FILL)	
3						0.4	0.0	Brick and weathered Concrete fragments, Cobbles, damp (FILL)	
4							0.0		
5							0.0		
6		S-2	4-8	35			0.0	Tan/Brown, Clayey fine SAND, trace Gravel, moist	
7						0.3	0.0	...wet	
8							0.0	...fine to coarse SAND, some fine to coarse Gravel	
9							0.0		
10		S-3	8-12	65			0.7	Gray, Silty fine to medium SAND, little fine to medium Gravel, wet (TILL)	
11						7.5	3.5		
12							1.3		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-09/MW-J**

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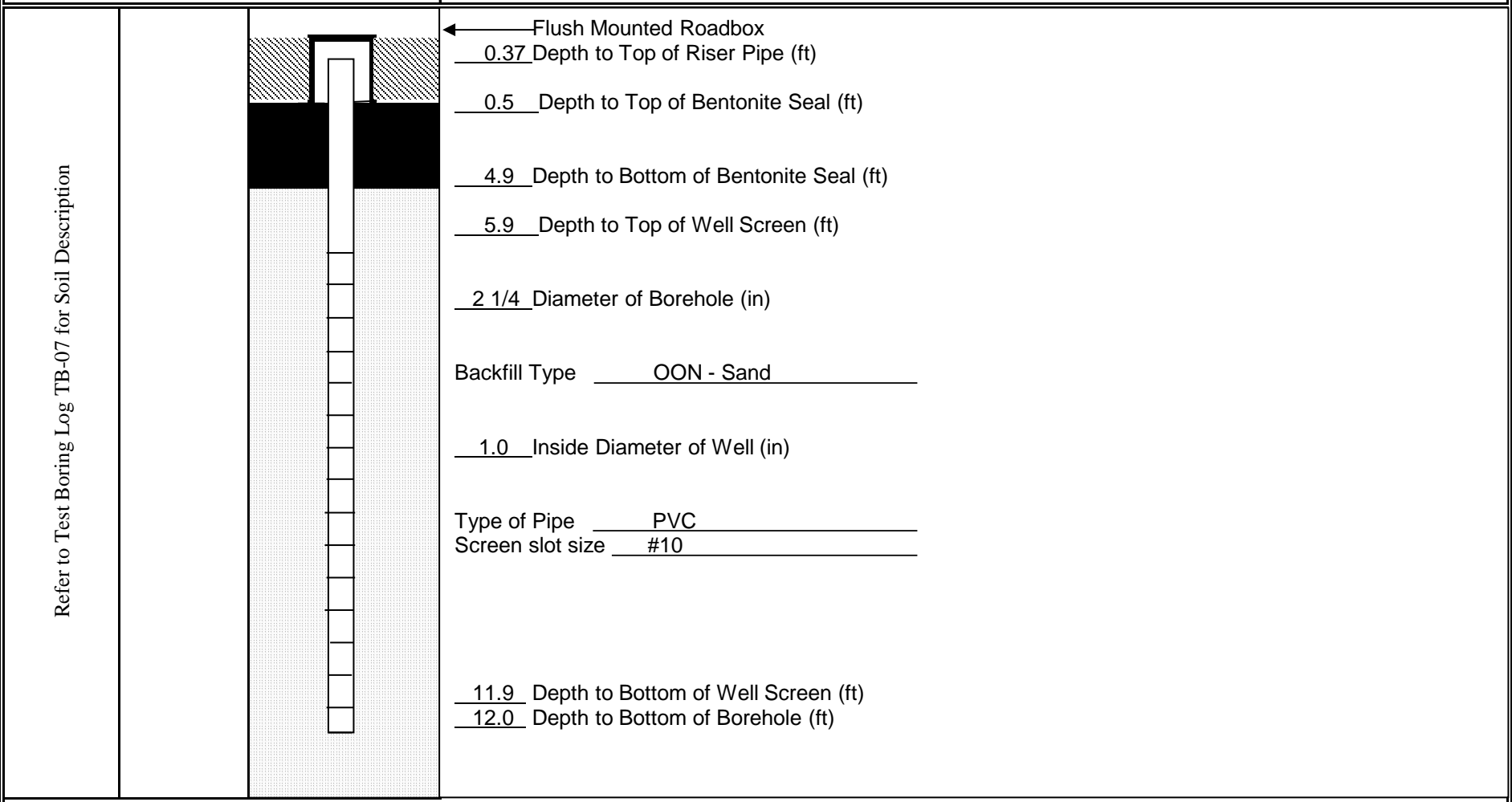
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>	<b>MONITORING WELL MW-J</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>	
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u> Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-J**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-10/MW-K**

Page 1 of 1

Date Started: 12/18/2018 Date Ended: 12/18/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Concrete	Installed MW-K  Solvent-type odor ~3.5' to 4.5'
2		S-1	0-4	63		0.0	0.0	Dark Brown, Silty fine to medium Sand and fine to coarse Gravel, moist (FILL)	
3							0.0	Tan, Clayey fine Sand, some fine to coarse Gravel, moist (FILL)	
4						45.3	31.0	Red/Brown, Clayey Silt, little fine to medium Gravel, moist (FILL) Concrete layer	
5						9.6	17.4	Brown, Clayey SILT, little fine Sand, trace Gravel, trace Plant fibers, Wood fragments, wet	
6		S-2	4-8	60			12.1		
7							5.3		
8							4.1		
9							2.2		
10		S-3	8-12	100			1.4	Gray, Silty fine to medium SAND and fine to medium Gravel, wet (TILL)	
11							1.8		
12						1.6	1.8		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-10/MW-K**

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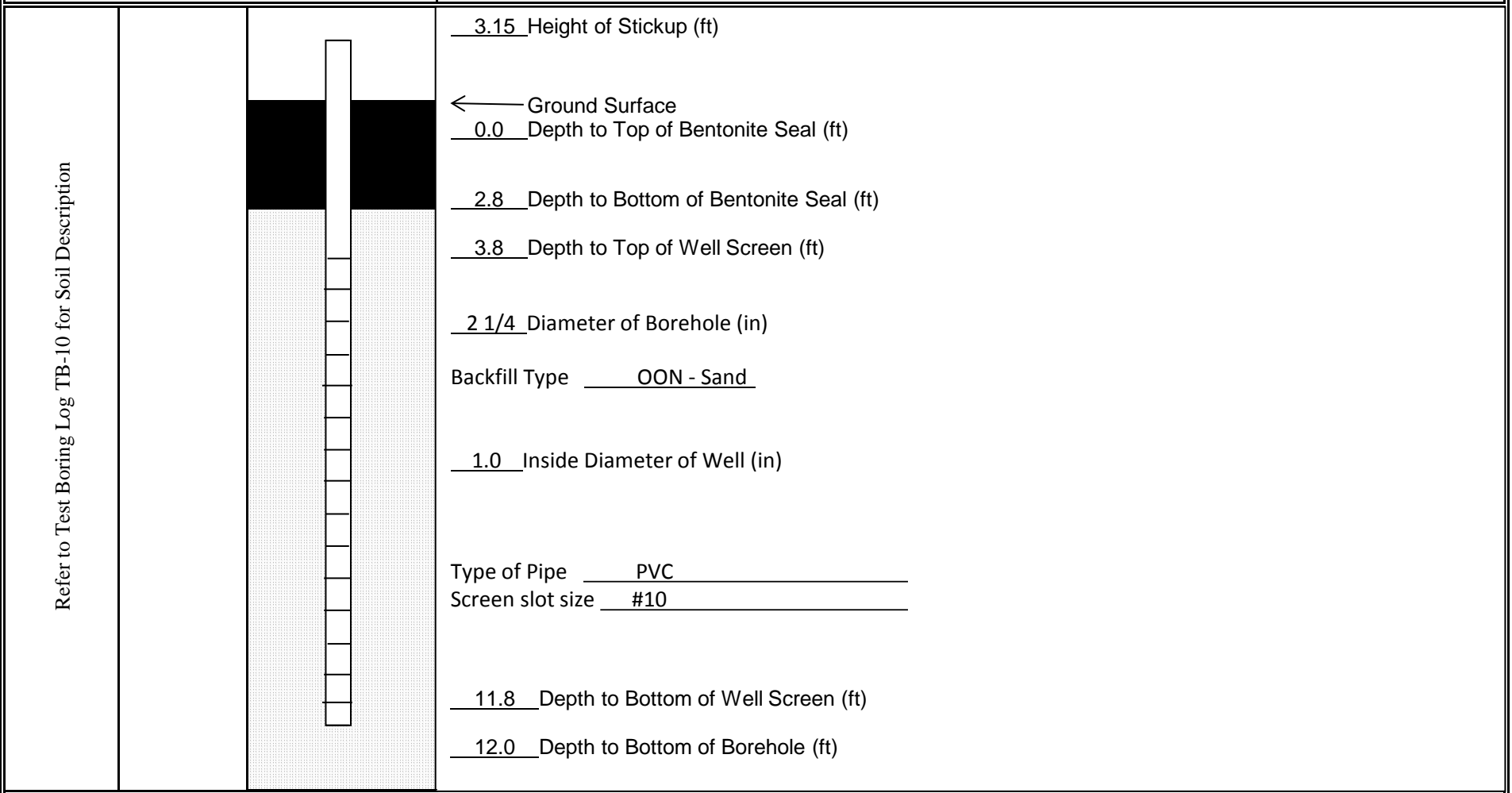


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-K</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u>	Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-K**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-11**

Page 1 of 1

Date Started: 12/18/2018 Date Ended: 12/18/2018  
 Borehole Depth: 11.5' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Concrete	Installed temporary monitoring well
								Brown, coarse Sand and fine Gravel, trace Silt, moist (FILL)	
								...little Clay, little Cinders	
2		S-1	0-4	63		0.0	0.0	Brown/Tan, Silty fine Sand, little fine to coarse Gravel, moist (FILL)	
3							0.0	...trace Cobbles	
4							0.0	...trace Clay	
5							0.0	...stone fragments	
6		S-2	4-8	55		0.3	0.0	Brown, Clayey SILT, little fine Sand, little coarse Gravel, damp	
7							0.0	...wet	
8							0.0	Tan/Brown, fine SAND and fine to coarse GRAVEL, little Clay, wet	
9							0.0		
10		S-3	8-11.5	78		0.6	0.0		
11							0.0	Gray/Green, weathered SHALE	
12								Equipment Refusal @ 11.5'	
13									
14									
15									
16									

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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-11**

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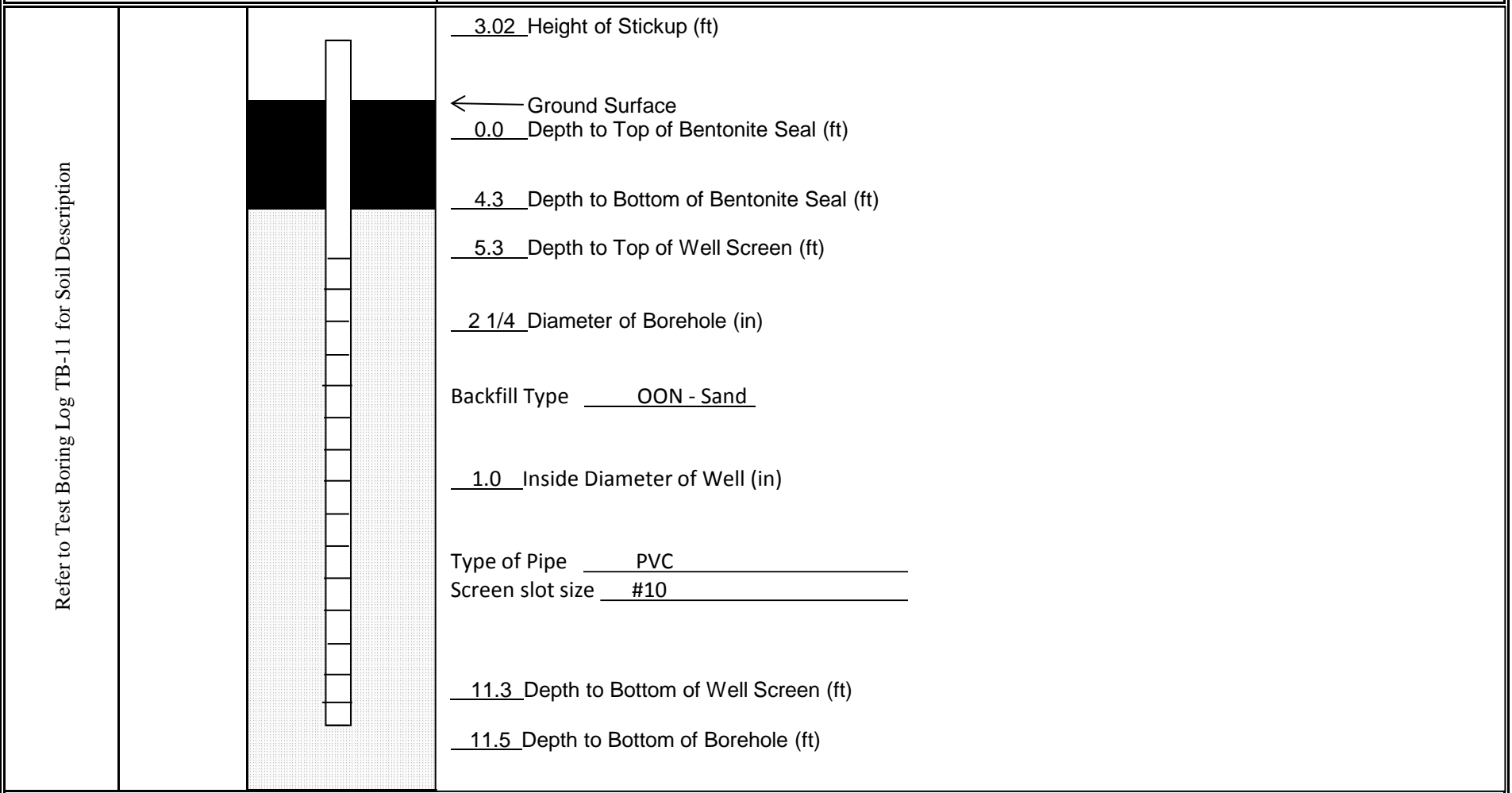


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL TB-11</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u>	Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL TB-11**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Date Started: 12/18/2018 Date Ended: 12/18/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

**Test Boring TB-12/MW-L**

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Concrete	Installed MW-L
								Crushed Rock	
								Tan, Clayey fine to medium Sand and fine to coarse Gravel, damp (FILL)	
2		S-1	0-4	53		0.4	1.8	Black, medium to coarse Sand and Cinders, little fine to medium Gravel (FILL)	
3							0.1	Tan, Clayey fine Sand, little coarse Gravel, moist (FILL)	
4							0.0	Brown, Clayey Silt, little fine Sand, little fine to medium Gravel, moist (FILL)	
5							0.0	Tan, Clayey fine to coarse Sand and fine to coarse Gravel, moist (FILL)	
6		S-2	4-8	43		0.3	0.1	...wet	
7							0.2	Tan, Clayey fine Sand, trace Gravel, wet (FILL)	
8							0.0	Gray, Silty fine to coarse SAND and fine to coarse GRAVEL, wet	
9							0.0	...coarse SAND and fine GRAVEL, little Silt	
10		S-3	8-12	60			0.0	...little Clay	
11							0.0	...coarse GRAVEL	
						0.8	0.0	Gray, fine to medium SAND and fine to medium GRAVEL, wet (TILL)	
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-12/MW-L**

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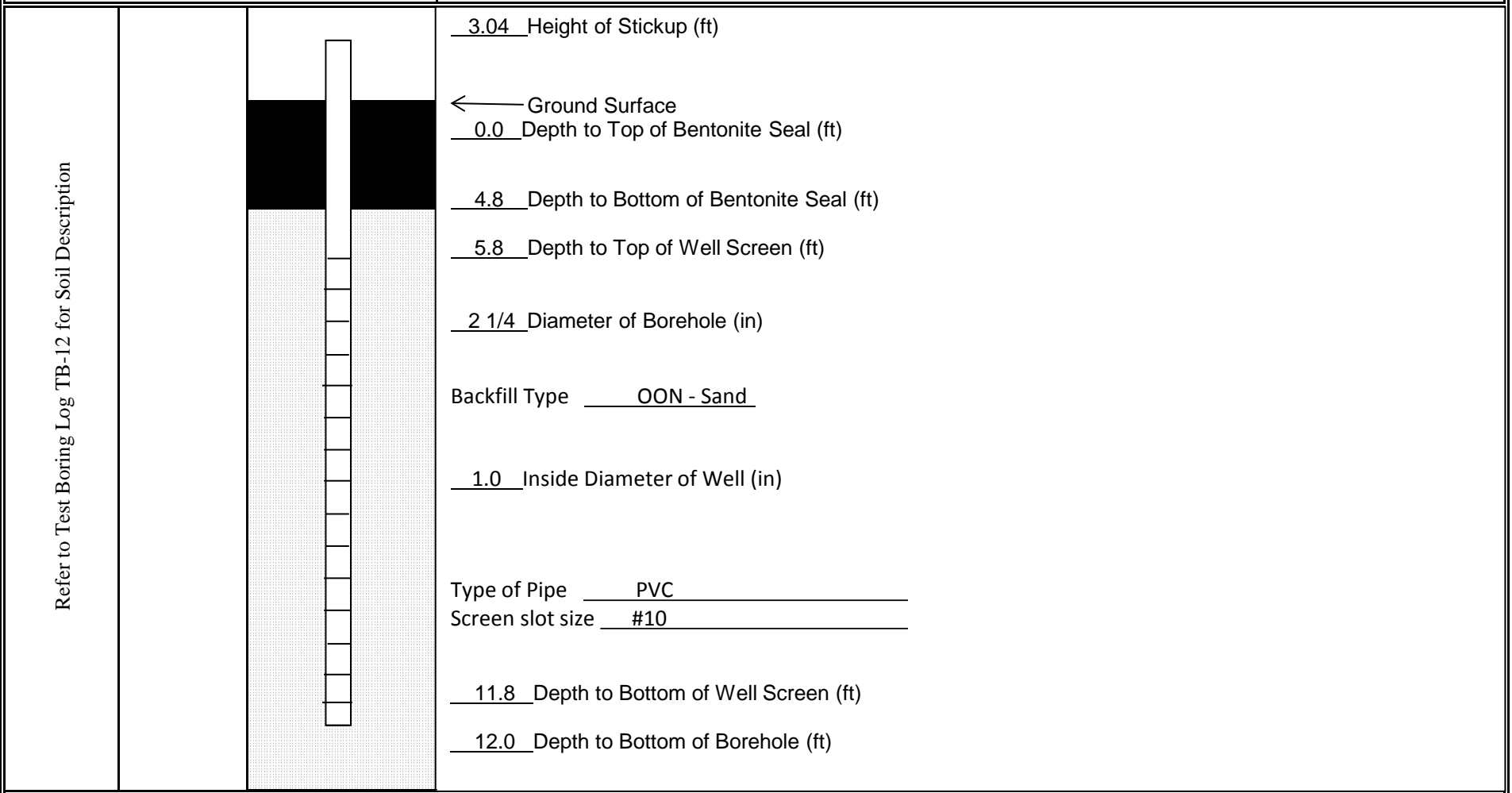


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-L</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u>	Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-L**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-13/MW-M**

Page 1 of 1

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	Installed MW-M
2		S-1	0-4	48			0.0		
3						0.6	0.0	Black, Silty fine Sand, little medium Gravel, damp (FILL) Tan, Clayey medium to coarse Sand and fine to coarse Gravel, Wood fragments, moist (FILL)	
4							0.0		
5						0.0	0.0	Black, charred Wood, Organic Material, Glass, wet (FILL)	
6		S-2	4-8	33			0.0	Brown, Clayey Silt, little fine Sand, trace Silt, wet (FILL)	
7							0.0	Tan, Clayey fine to coarse Sand and fine to coarse Gravel (FILL)	
8							0.0	Gray/Green, Clay, trace Sand, trace Gravel, wet (FILL)	
9							0.0	Brown/Gray, Clayey SILT, wet	
10		S-3	8-12	80			0.0	...some Plant Fibers/Wood fragments	
11						0.3	0.0		
12							0.0	Gray/Green, Silty fine SAND, some fine to coarse Gravel, wet (TILL)	
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

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**Test Boring TB-13/MW-M**

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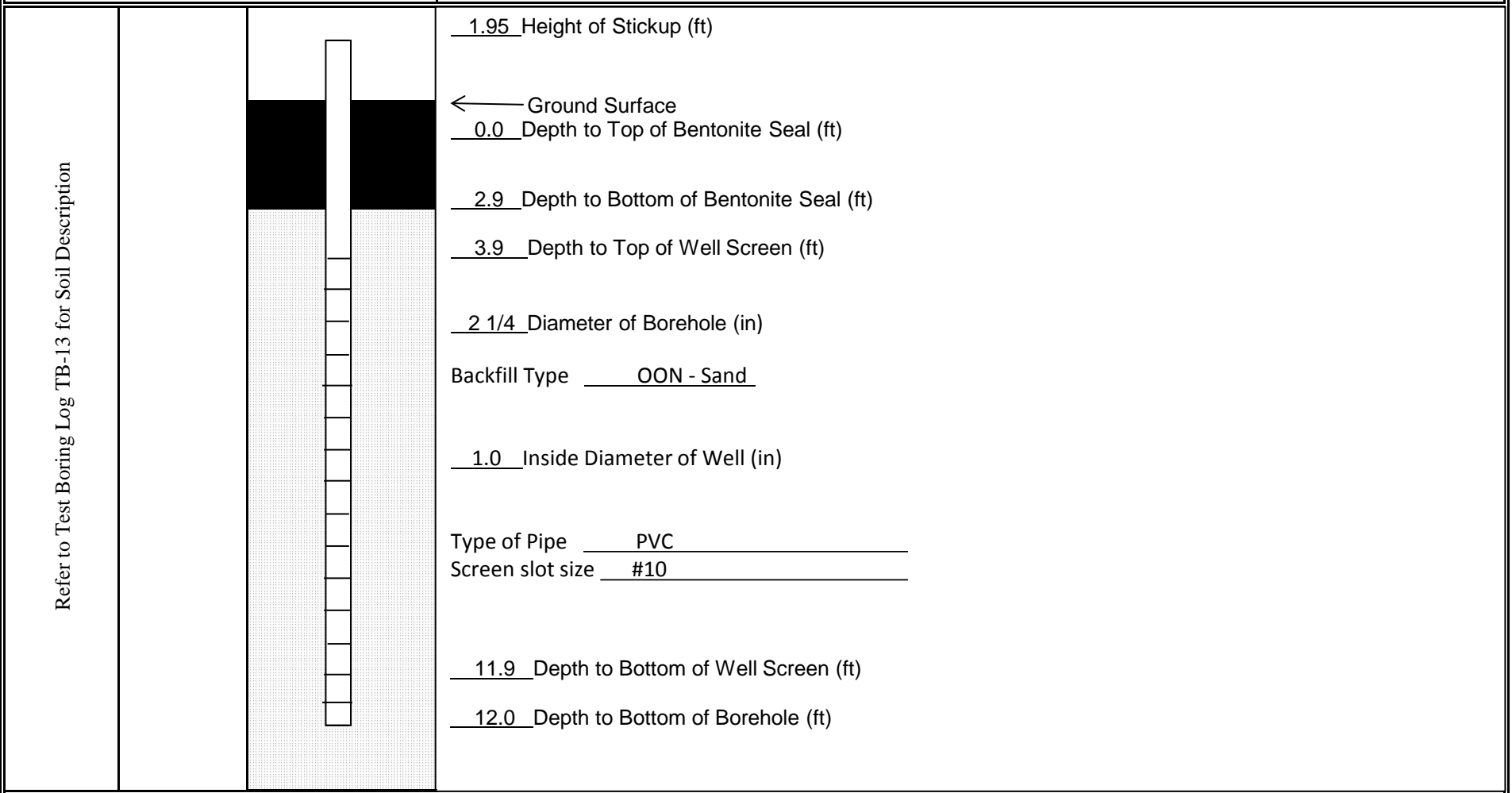


DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS  
AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-M</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u>	Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-M**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-14/MW-N**

Page 1 of 1

Date Started: 12/18/2018 Date Ended: 12/18/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Concrete Floor	Installed MW-N
								Void	
2		S-1	0-4	20		7.2	0.1	Brown, Clayey fine to coarse Sand and fine to coarse Gravel, little Cobbles, moist (FILL)	
3									
4							0.4	...wet	
5							1.7		
6		S-2	4-8	48		5.8	1.8	Brown, Clayey SILT, trace fine Sand, trace Gravel, wet	
7							3.8		
8								...some Wood fragments and Plant fibers	
9							3.4		
10		S-3	8-12	70		9.1	2.9		
11						6.1	4.5		
							2.4	Gray, Silty fine to medium SAND, little fine to medium Gravel (TILL)	
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-14/MW-N**

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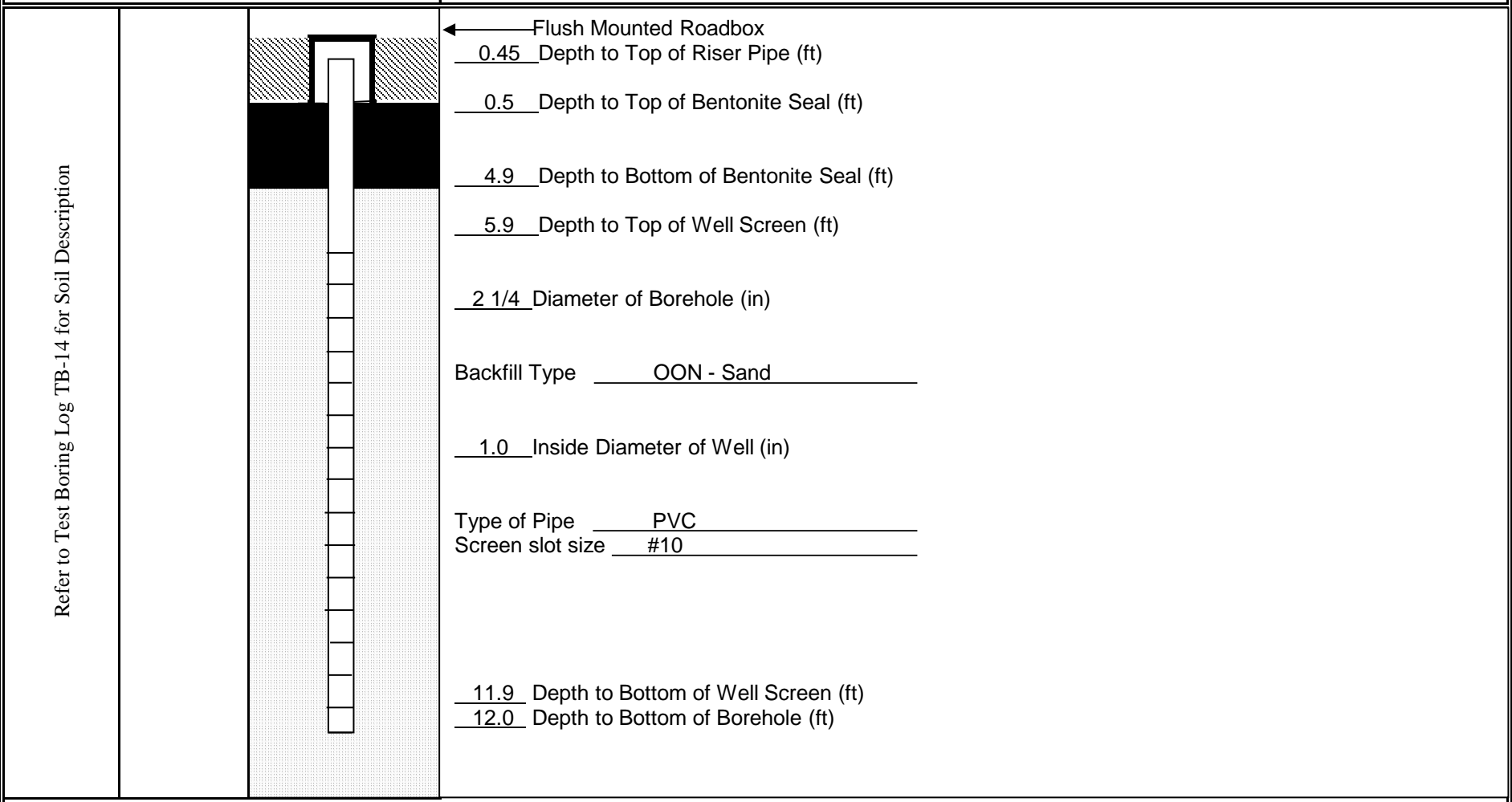
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-N</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u>	Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-N**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
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 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-15/MW-O**

Page 1 of 1

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 15.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	Installed MW-O
2		S-1	0-4	43			0.0	Brown/Tan, Silty fine to medium Sand, little fine to medium Gravel, damp (FILL) ...coarse Gravel, little Cobbles	
3						0.3	0.2	Black/Brown, Silty fine to medium Sand and fine to coarse Gravel, little Cinders, damp (FILL)	
4							0.4	Tan/Brown, Clayey fine Sand, little fine to medium Gravel, moist (FILL)	
5							0.0		
6		S-2	4-8	48		0.0	0.1	Brown, Clayey fine to coarse Sand and fine to coarse Gravel, moist (FILL)	
7							0.0	...wet	
8							0.0		
9							0.0		
10		S-3	8-12	63			0.0		
11						0.5	0.3	Brown, medium SAND, trace Clay, trace fine Gravel, wet	
12							0.4		
13		S-4	12-15	100			0.0	...coarse SAND, little Silt	
14						0.2	0.0	Gray, Silty SAND, little Clay, little Gravel, wet (TILL)	
15							0.0	Equipment Refusal @ 15.0'	
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-15/MW-O**

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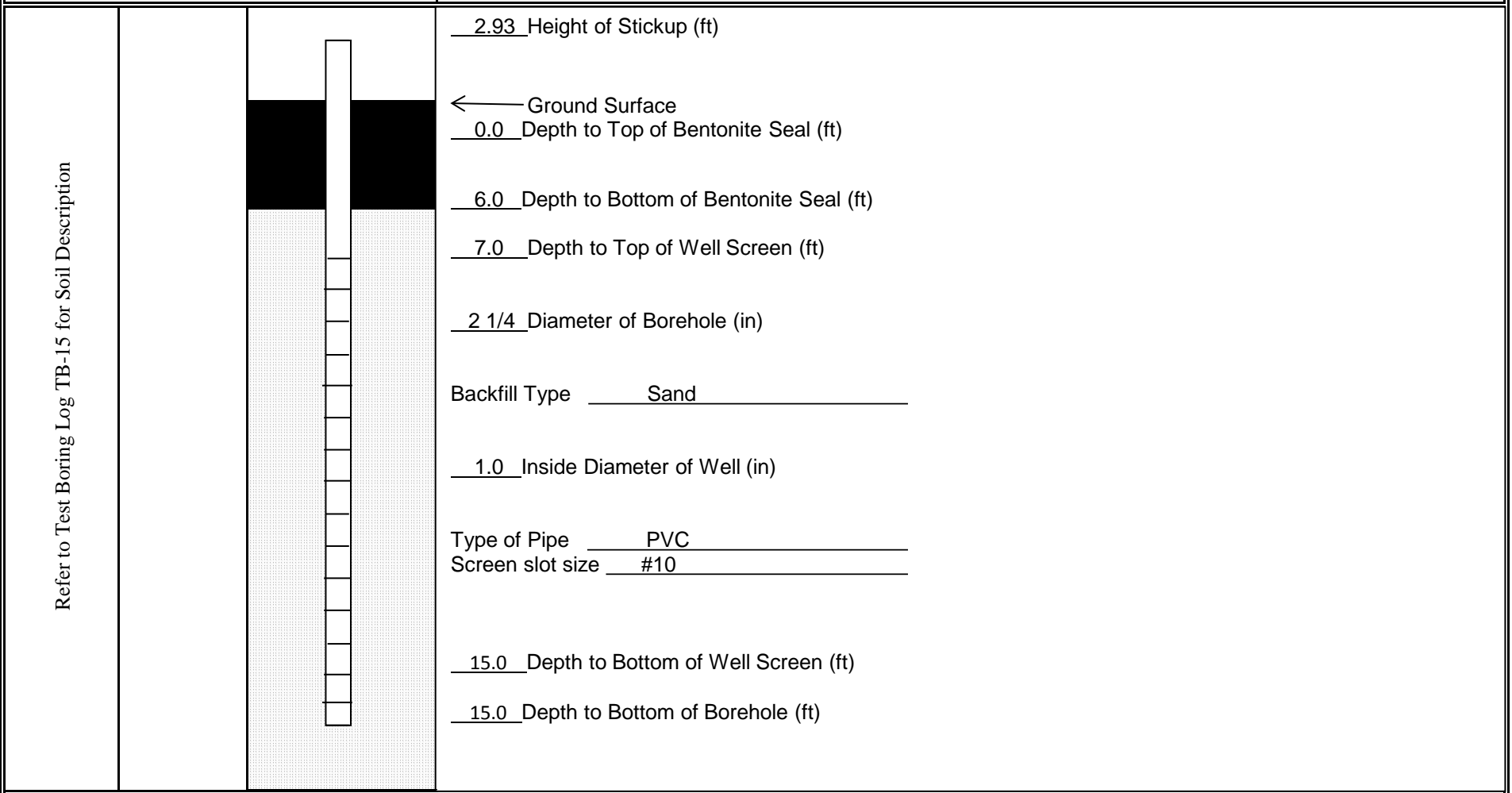


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-O</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u>	Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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**MONITORING WELL MW-O**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 16.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

**Test Boring TB-16/MW-P**

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Topsoil	Installed MW-P
2		S-1	0-4	18		0.0	0.0	Coarse Gravel and Cobbles, little fine Silty Sand, damp (FILL)	
3									
4									
5							0.0	Brown, Clayey medium to coarse Sand and fine to coarse Gravel, moist (FILL)	
6		S-2	4-8	48		0.0	0.2	Gray/Brown, SILT, little Clay, little fine Sand, moist	
7							0.0	...some Wood fibers	
8								...some Wood fragments	
9							0.0	Brown, Clayey fine SAND, trace fine Gravel, little Wood fibers, wet	
10		S-3	8-12	85		0.1	0.0	Brown, medium to coarse SAND, little fine to coarse Gravel, wet	
11							0.0		
12							0.0		
13							0.0	Gray, medium to coarse GRAVEL, little Sand, wet	
14		S-4	12-16	3.1			0.0	...some coarse Sand, little Silt	
15						0.1	0.0	Gray, fine Silty SAND, little fine to medium Gravel, little Clay, wet (TILL)	
16							0.0		
Bottom of Test Boring @ 16.0'									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-16/MW-P**

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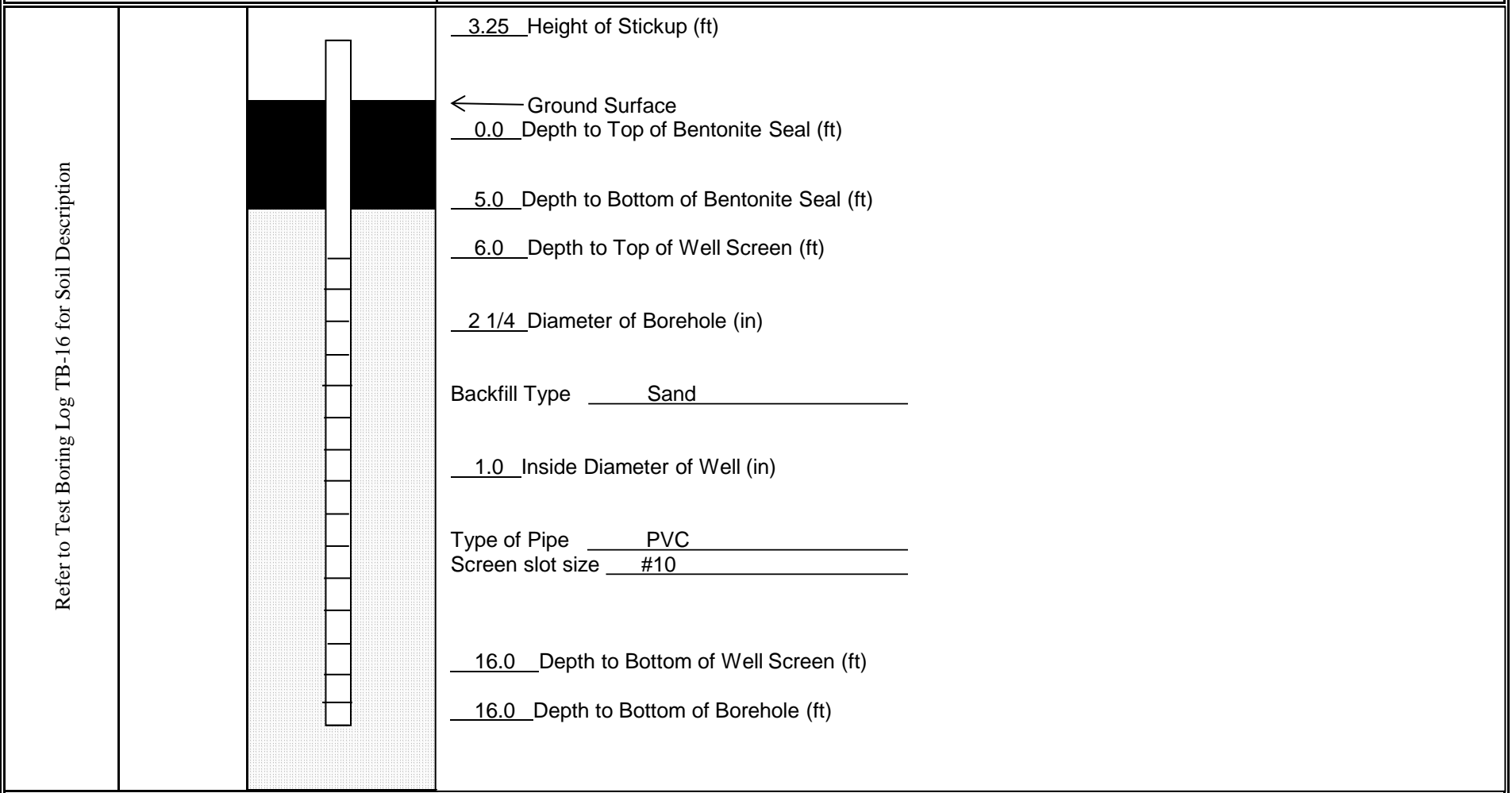


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-P</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/18/2018</u>	Date Ended: <u>12/18/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-P**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
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 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-17/MW-Q**

Page 1 of 1

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	Installed MW-Q
2		S-1	0-4	45		0.0	0.0	Brown, Silty fine to medium Sand and fine to coarse Gravel, trace Clay, damp (FILL)	
3							0.0		
4							0.0	...tan, trace brick, trace roots	
5							0.0	Black, Clayey fine to medium Sand and fine Gravel, Cinders, Brick fragments, moist (FILL)	
6		S-2	4-8	55			0.0	Brown, SILT, little fine Sand, little Clay, trace Gravel, Roots, moist	
7							0.0		
8							0.0	Blue/Gray, Clayey fine SAND, trace Gravel, wet	
9							0.0	...trace Silt	
10		S-3	8-12	85			0.0	Gray, Clayey medium SAND and coarse GRAVEL, little Cobbles, wet	
11							0.0		
12							0.0	Gray, Silty fine to medium SAND and fine to medium GRAVEL, wet (TILL)	
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-17/MW-Q**

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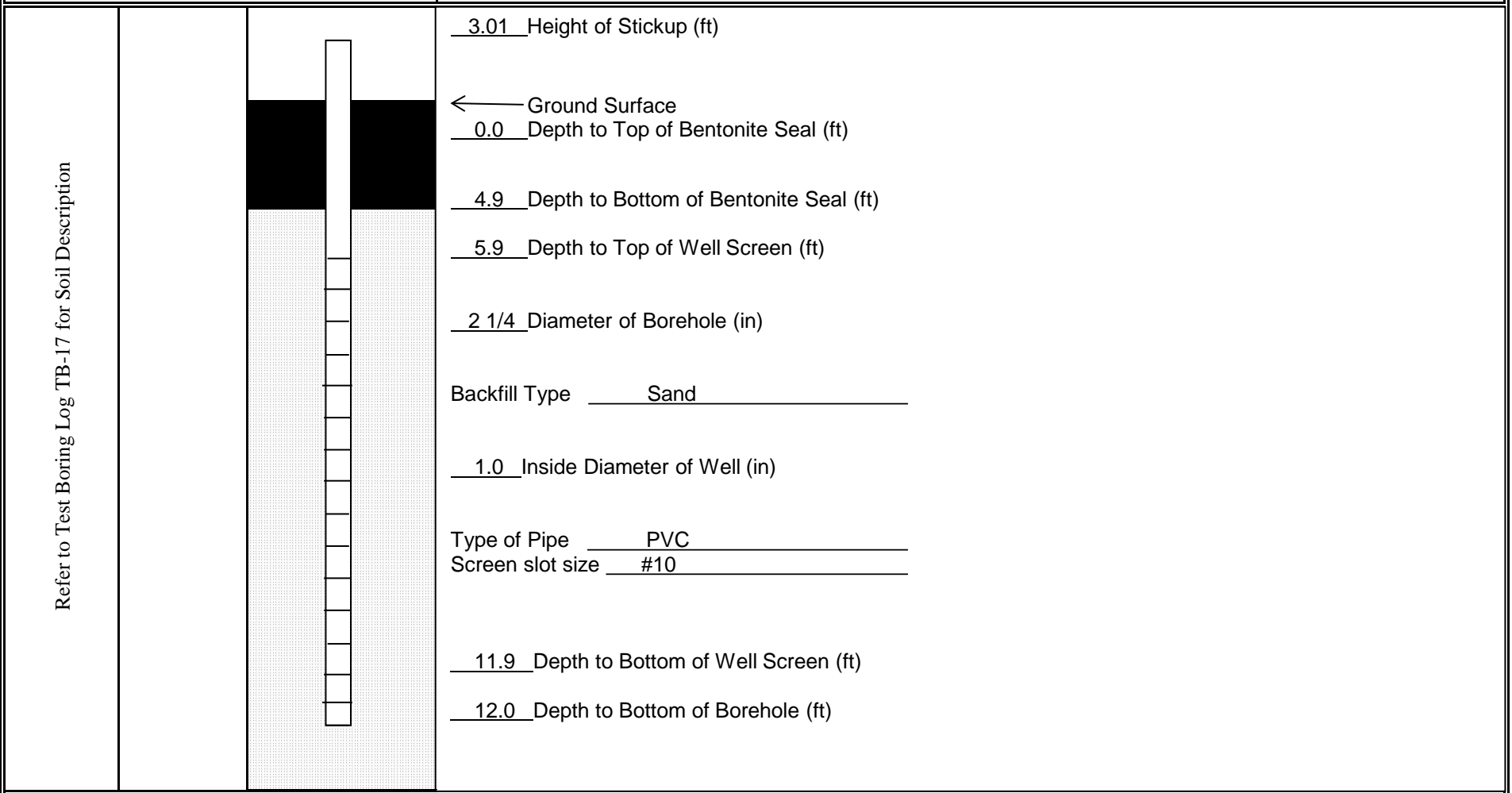


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-Q</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/17/2018</u>	Date Ended: <u>12/17/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-Q**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-18**

Page 1 of 1

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	Installed temporary monitoring well
2		S-1	0-4	43		0.0	0.0	Brown, Silty fine to coarse Sand and fine to coarse Gravel, damp (FILL) ...granite fragment	
3							0.0	...few Cobbles	
4							0.0	...moist, little Clay	
5							0.0	Black, Clayey fine Sand, little Gravel, Cinders (FILL)	
6		S-2	4-8	60		0.1	0.0	Gray/Brown, Clayey SILT, little fine Sand, trace Gravel, damp	
7							0.0	...wet	
8							0.0	...black, little medium to coarse Sand, little fine to medium Gravel, wet	
9							0.0	...gray	
10		S-3	8-12	50			0.0	...medium to coarse Sand, medium to coarse Gravel	
11							0.0	Red/Brown, Silty fine SAND and GRAVEL, wet (TILL)	
12							0.0	Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-18**

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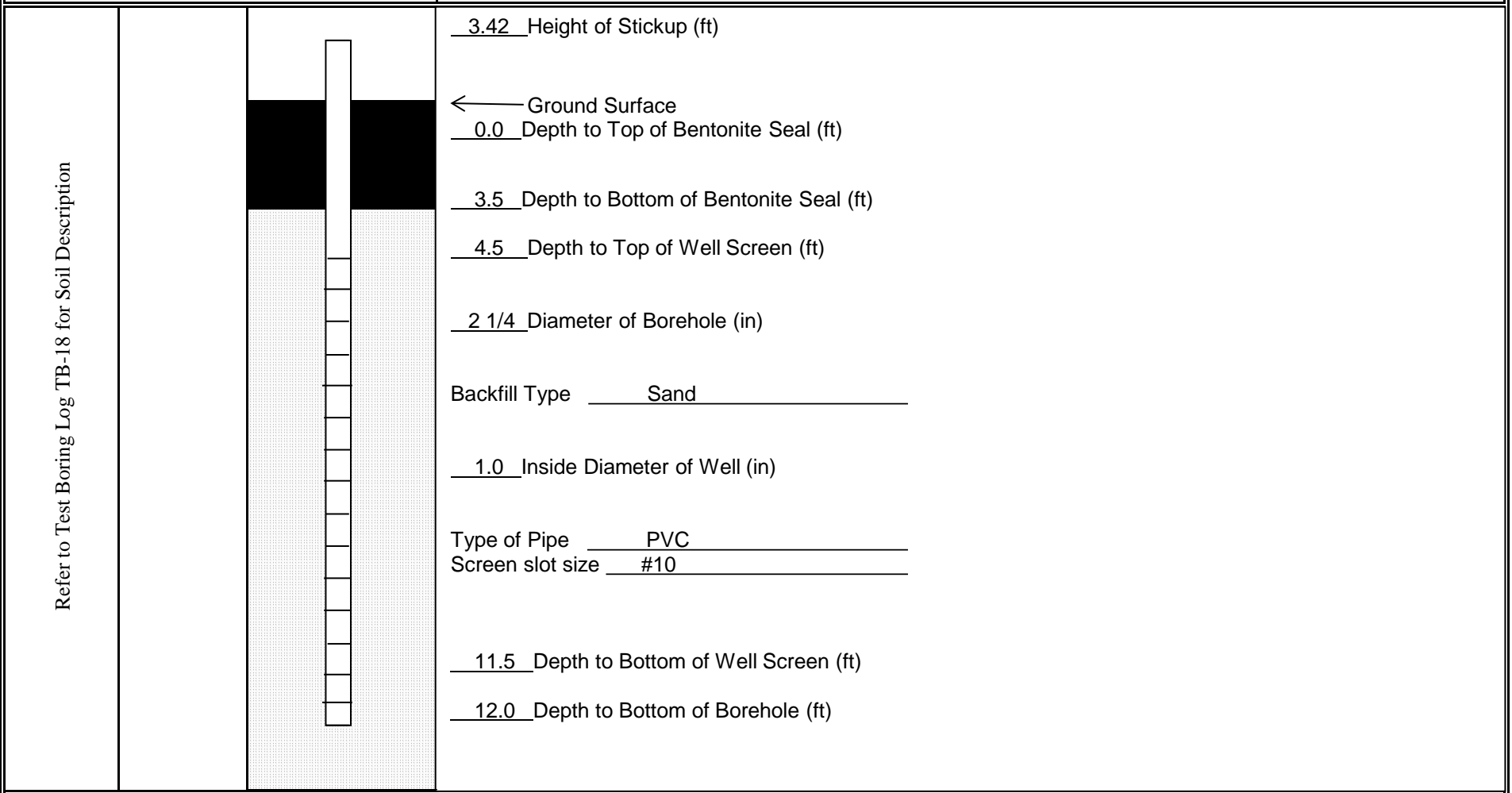


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL TB-18</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/17/2018</u>	Date Ended: <u>12/17/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL TB-18**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-19/MW-R**

Page 1 of 1

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt with Rubber(?) Liner at base	Installed MW-R
2		S-1	0-4	58		0.1	0.2	Brown, Silty fine to coarse Sand and fine to coarse Gravel, damp (FILL) ...tan	
3							0.0	...moist	
4							0.0		
5							0.2	...little Clay, wet	
6		S-2	4-8	65			1.4	Black, Wood fragments (FILL)	
7						0.5	0.6	Gray/Green Clayey fine SAND, little Gravel, wet	
8							2.0		
9						4.6	1.2		
10		S-3	8-12	95			0.9	Gray, Silty CLAY, little fine Sand, trace fine Gravel, wet	
11							0.0		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-19/MW-R**

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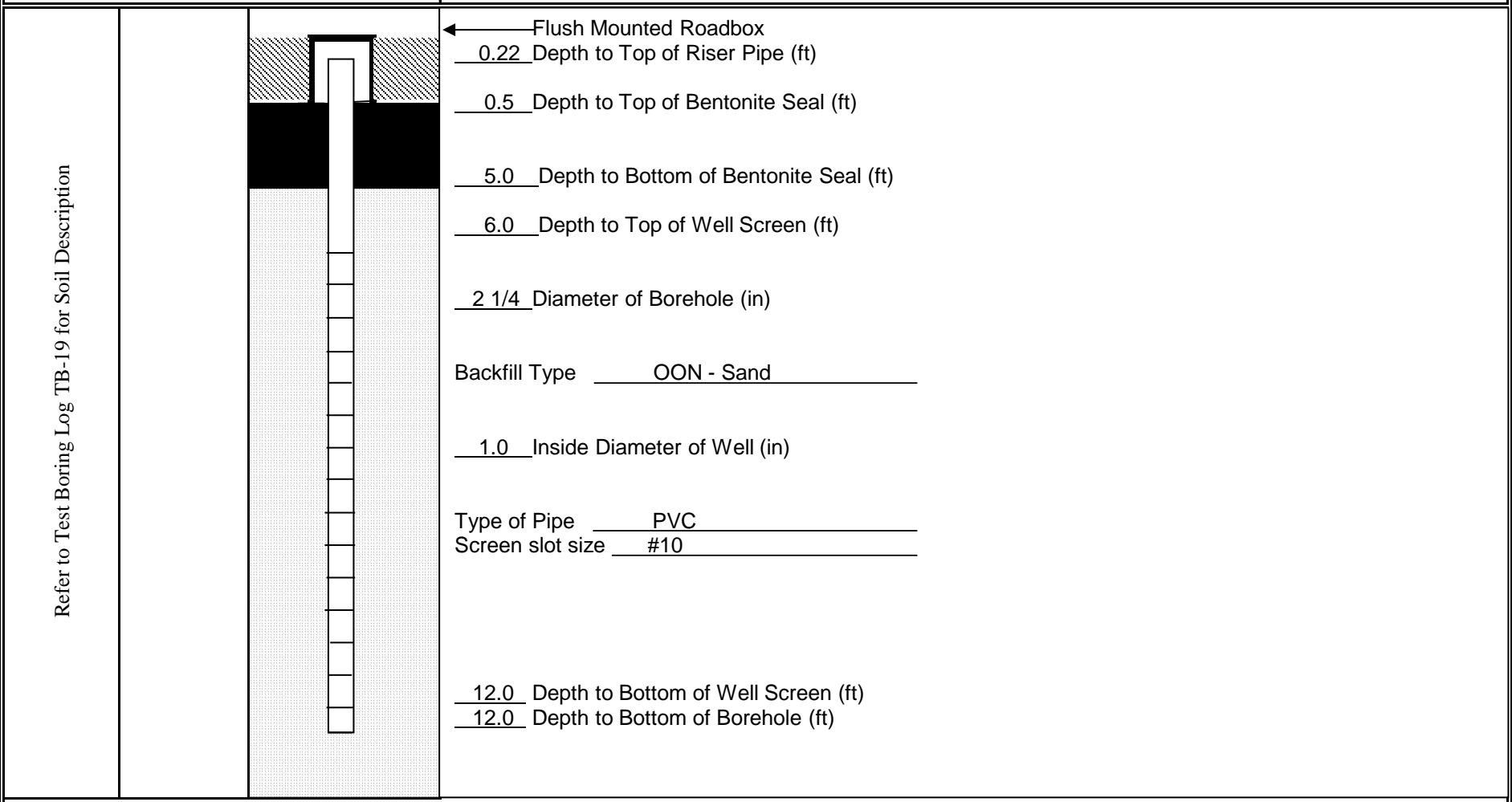
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>	<b>MONITORING WELL MW-R</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>	
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/17/2018</u> Date Ended: <u>12/17/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-R**

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 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-20/MW-S**

Page 1 of 1

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt	Installed MW-S
2		S-1	0-4	45		0.1	0.0	Brown, medium to coarse Silty Sand and fine to coarse Gravel, little Cobbles, damp (FILL)	
3							0.0	...some Cobbles	
4									
5								Brown, medium to coarse GRAVEL, trace fine to coarse Sand, wet	
6		S-2	4-8	18			0.0		
7						0.3			
8							0.0	Gray, Clayey fine SAND, little fine to medium Gravel, wet (TILL)	
9							0.0	...gray/brown	
10		S-3	8-12	73			0.0	...some Gravel	
11							0.1		
12							0.6		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-20/MW-S**

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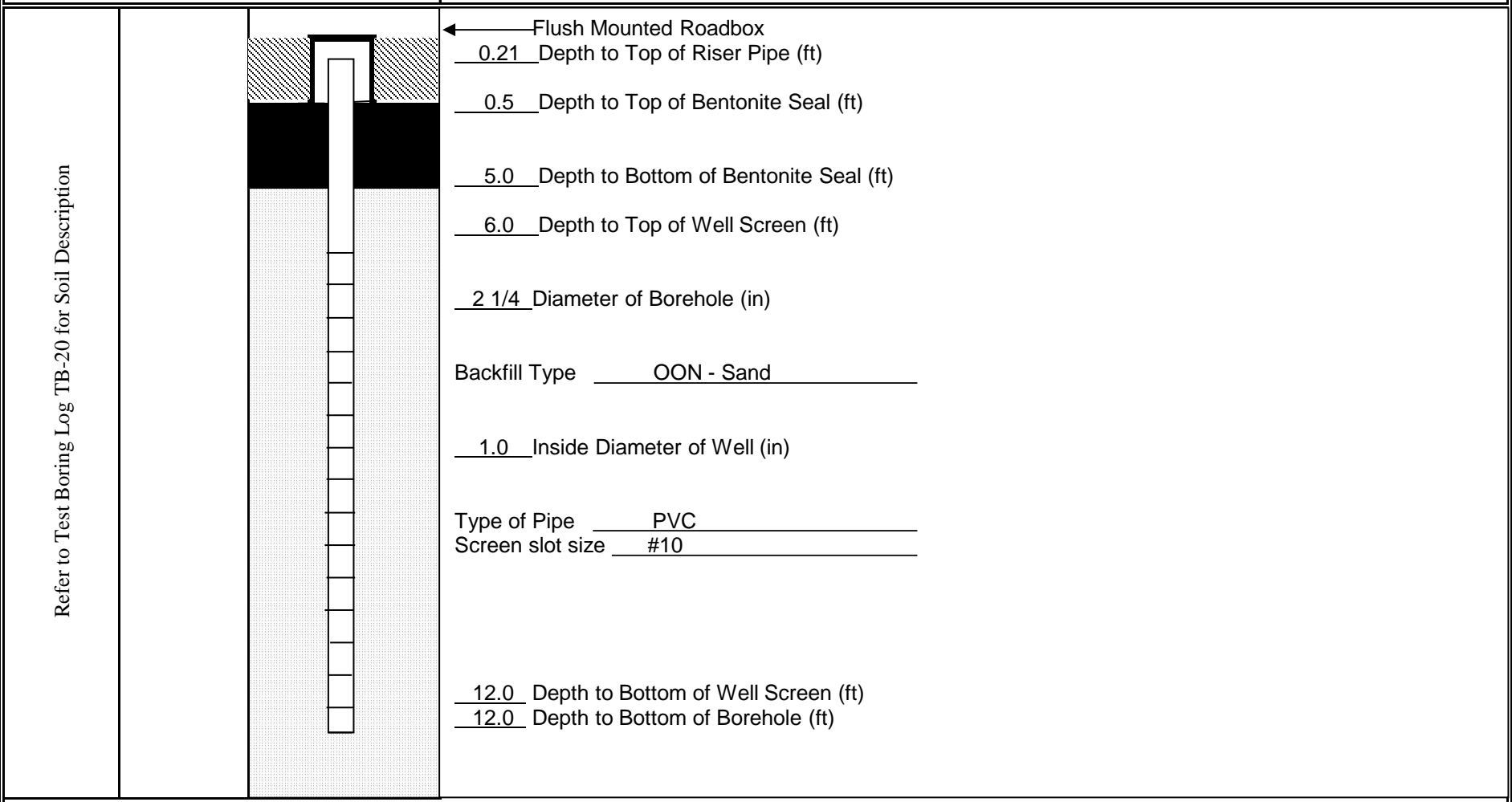
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-S</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/17/2018</u>	Date Ended: <u>12/17/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-S**

S:\Fieldforms\Monitoring Well Installation Log (revised October 2006)

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-21/MW-T**

Page 1 of 1

Date Started: 12/17/2018 Date Ended: 12/17/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt	<b>Installed MW-T</b>
2		S-1	0-4	70		0.1	0.0	Brown/Tan, Silty fine to coarse Sand and fine to medium Gravel, damp (FILL)	
3							0.0		
4							0.0		
5							0.0	Black/Purple/Brown, Clayey SILT, moist	
6		S-2	4-8	98			0.0	...Brown	
7							0.0	Gray, Clayey fine SAND, some medium to coarse Gravel, moist (TILL)	
8						0.3	0.0	...wet	
9							0.0	...coarse SAND and fine to coarse GRAVEL	
10		S-3	8-12	100			0.0	Red/Gray, Clayey fine to medium SAND, some medium Gravel, wet (TILL)	
11							0.0	...trace Silt	
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

Slight sheen on sample ~7' to 9'

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-21/MW-T**

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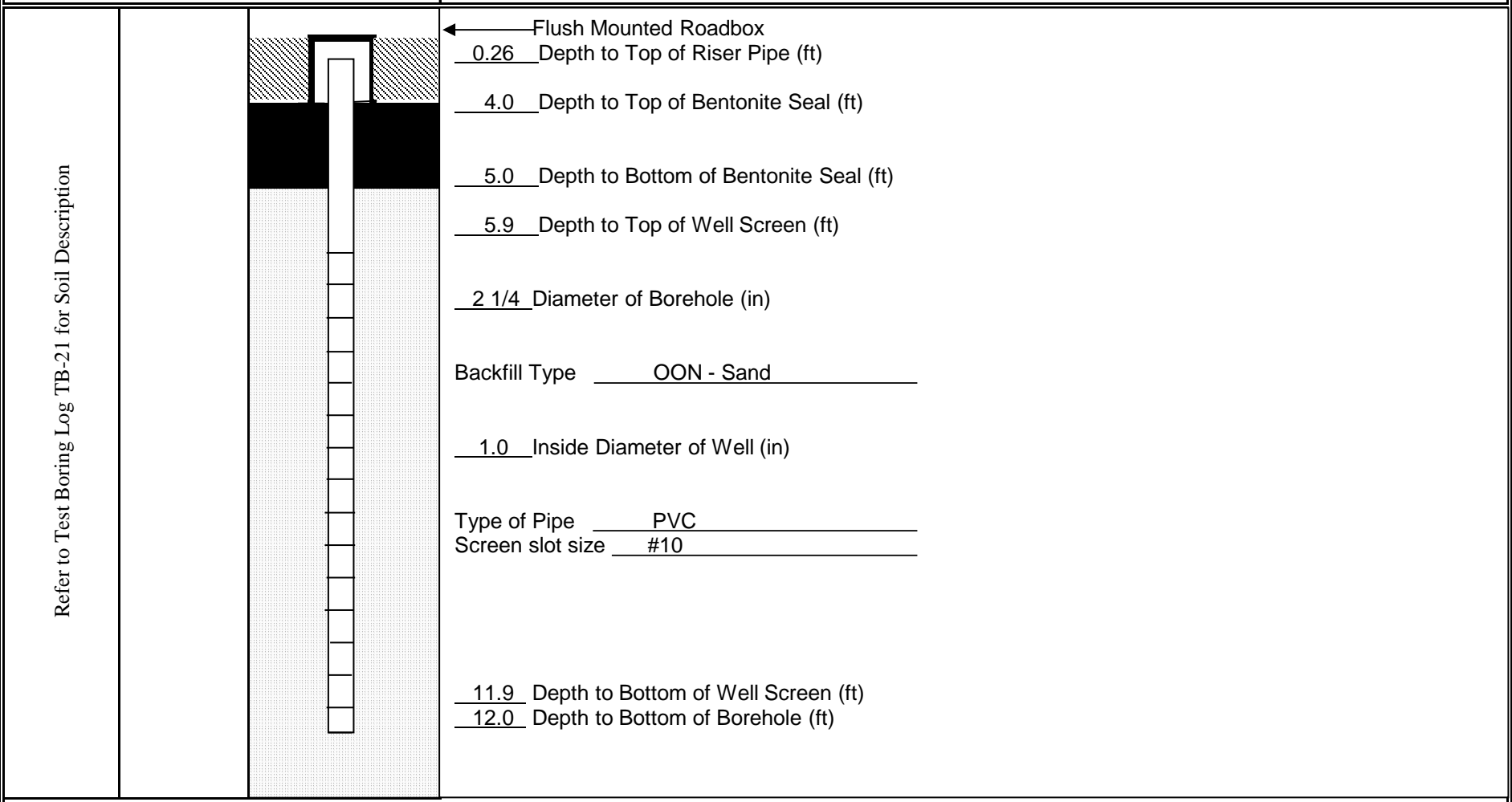
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AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: <u>5529S-18</u>		<b>MONITORING WELL MW-T</b>
Project Address: <u>415 and 441 Chandler St.</u> <u>Jamestown, New York</u>		
DAY Representative: <u>C. Hampton</u>	Date Started: <u>12/17/2018</u>	Date Ended: <u>12/17/2018</u>
Drilling Contractor: <u>Nothnagle Drilling</u>		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

**MONITORING WELL MW-T**

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Project #: 5529S-18  
 Project Address: 415 and 441 Chandler Street  
Jamestown, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

**Test Boring TB-22**

Page 1 of 1

Date Started: 12/20/2018 Date Ended: 12/20/2018  
 Borehole Depth: 13.2' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							1.8	Concrete Floor	
								Brown, coarse Sand, little Clay, damp (FILL)	
2		S-1	0-4	43		1.9	2.3	Brown, Clayey fine to coarse Sand and fine to coarse Gravel, Brick fragments, Glass, moist (FILL)	
3							0.8	...cobble	
4									
5							0.7		
6		S-2	4-8	50		12.2	4.5	Clayey coarse Sand and fine to medium Gravel, wet (FILL)	Slight odor/sheen ~ 6'
7							6.1	Brown, Clayey SILT, little fine Sand, little medium to coarse Gravel, little Peat, wet	
8							1.8		
9							4.7	Gray, Clayey coarse SAND and fine to coarse GRAVEL, wet	Product in sample ~8.5' to 10'
10		S-3	8-12	65			4.3		
11							11.8		
							58.6	Gray, Silty fine to medium SAND and fine to medium GRAVEL, wet (TILL)	
12							62.4		
13		S-4	12-13.2	92		25.7	12.2		
14								Equipment Refusal @ 13.2'	
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-22**

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**APPENDIX E**  
**MONITORING WELL DEVELOPMENT LOGS**

**WELL DEVELOPMENT DATA  
MW-A**

SITE LOCATION: 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	11/8/18 11:55	11/8/18 12:20	11/8/18 12:38	11/8/18 12:43	11/8/18 12:46	11/8/18 12:50	11/8/18 13:00	11/8/18 13:08
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID (PPM)	535	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	11.14	NM	NM	NM	NM	11.70	NM	NM
STATIC WATER LEVEL (SWL) FT	LNAPL 4.45 SWL 4.81	NM	NM	NM	NM	LNAPL 4.48 SWL 4.60	NM	NM
VOLUME EVACUATED (GAL)	0	0.4	0.2	0.3	0.2	0.3	0.3	0.3
TOTAL VOLUME EVACUATED (GAL)	0	0.4	0.6	0.9	1.1	1.4	1.7	2.0
TEMPERATURE (°C)	NM	NM	24.1	24.7	25.0	25.3	24.2	24.9
pH	NM	NM	6.73	6.65	6.68	6.68	6.79	6.78
ORP (mV)	NM	NM	39	0	-23	-31	-32	-33
CONDUCTIVITY (µs/cm)	NM	NM	Meter out of battery	Meter out of battery	Meter out of battery	Meter out of battery	Meter out of battery	Meter out of battery
VISUAL OBSERVATION	NM	Brown, Muddy, LNAPL, Solvent-type Odor	Brown, Muddy, LNAPL, Solvent-type Odor	Brown, Cloudy, Sheen, Solvent-type Odor	Brown, Cloudy, Sheen, Solvent-type Odor	Brown, Cloudy, Sheen, Solvent-type Odor	Brown, Cloudy, Sheen, Solvent- type Odor	Brown, Cloudy, Sheen, Solvent- type Odor

LEGEND: NM = Not Measured

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**WELL DEVELOPMENT DATA  
MW-B**

SITE LOCATION: 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	11/8/18 09:26	11/8/18 09:30	11/8/18 09:42	11/8/18 09:54	11/8/18 09:59	11/8/18 10:03	11/8/18 10:08	11/8/18 10:13
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID (PPM)	3.7	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	10.2	NM	NM	NM	10.68	NM	NM	10.68
STATIC WATER LEVEL (SWL) FT	3.42	NM	NM	NM	3.43	NM	NM	3.44
VOLUME EVACUATED (GAL)	0	0.4	0.2	0.4	0.2	0.3	0.2	0.3
TOTAL VOLUME EVACUATED (GAL)	0	0.4	0.6	1.0	1.2	1.5	1.7	2.0
TEMPERATURE (°C)	NM	NM	22.1	21.6	21.5	21.8	21.2	21.8
pH	NM	NM	6.54	6.60	6.58	6.57	6.65	6.62
ORP (mV)	NM	NM	-16	-26	-40	-52	-59	-60
CONDUCTIVITY (µs/cm)	NM	NM	Meter out of battery	Meter out of battery	Meter out of battery	Meter out of battery	Meter out of battery	Meter out of battery
VISUAL OBSERVATION	NM	Muddy w/Silt No odor	Brown, Muddy w/Silt	Brown, Cloudy	Brown, Cloudy	Cloudy/Clear	Cloudy/Clear	Clear

LEGEND: NM = Not Measured

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**WELL DEVELOPMENT DATA  
MW-C**

SITE LOCATION: 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	11/8/18 6:40	11/8/18 6:58	11/8/18 7:01	11/8/18 7:08	11/8/18 7:14	11/8/18 7:20	11/8/18 7:25	11/8/18 7:32	11/8/18 7:39
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID (PPM)	15,000+	NM	NM	NM	NM	NM	NM	NM	11,690
DEPTH OF WELL (FT)	8.45	NM	8.91	NM	NM	NM	8.91	NM	NM
STATIC WATER LEVEL (SWL) FT	3.84	NM	4.12	NM	NM	NM	5.12	NM	NM
VOLUME EVACUATED (GAL)	0	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.2
TOTAL VOLUME EVACUATED (GAL)	0	0.2	0.4	0.7	0.9	1.2	1.5	1.8	2.0
TEMPERATURE (°C)	NM	NM	NM	20.7	21.1	21.4	21.3	21.2	21.3
pH	NM	NM	NM	6.31	6.32	6.35	6.33	6.37	6.35
ORP (mV)	NM	NM	NM	-34	-57	-79	-82	-80	-88
CONDUCTIVITY (µs/cm)	NM	NM	NM	1540	1440	1430	1420	1340	1320
VISUAL OBSERVATION	Slight Oily Texture	Sediment and Water Black in Color, Petroleum- type Sheen on Purge Water Surface	Black, Cloudy w/Sheen	Black, Cloudy w/Sheen	Gray, Cloudy, Oil Globules on Purge Water Surface	Gray, Cloudy, Oil Globules	Gray, Cloudy, Oil Globules	Black, Cloudy, Oil Globules	Gray, Cloudy, Oil Globules

LEGEND: NM = Not Measured

Day Environmental, Inc.  
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Rochester, New York 14606



**WELL DEVELOPMENT DATA  
MW-D**

SITE LOCATION: 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	11/8/18 7:56	11/8/18 8:04	11/8/18 8:12	11/8/18 8:16	11/8/18 8:23	11/8/18 8:27	11/8/18 8:34	11/8/18 8:38	11/8/18 8:42
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID (PPM)	451	NM	NM	NM	NM	NM	NM	NM	184.9
DEPTH OF WELL (FT)	8.28	NM	NM	NM	8.31	NM	NM	NM	8.31
STATIC WATER LEVEL (SWL) FT	3.54	NM	NM	NM	3.57	NM	NM	NM	3.55
VOLUME EVACUATED (GAL)	0	0.4	0.2	0.3	0.3	0.2	0.4	0.2	0.2
TOTAL VOLUME EVACUATED (GAL)	0	0.4	0.6	0.9	1.2	1.4	1.8	2.0	2.2
TEMPERATURE (°C)	NM	NM	21.5	21.9	21.5	21.6	21.6	21.5	21.6
pH	NM	NM	6.48	6.43	6.36	6.34	6.30	6.30	6.32
ORP (mV)	NM	NM	-82	-85	-84	-83	-76	-74	-72
CONDUCTIVITY (µs/cm)	NM	NM	1450	1280	1910	1640	1540	1670	1620
VISUAL OBSERVATION	NM	Black, Muddy w/Sediment, Odor	Black, Muddy, Odor	Black, Cloudy, Odor	Gray, Cloudy, Odor	Black, Cloudy, Odor	Black, Cloudy, Odor	Gray, Cloudy, Odor	Gray, Cloudy, Odor

LEGEND: NM = Not Measured

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Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-E**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-21-18 11:50	12-21-18 12:06	12-21-18 12:12	12-21-18 12:18	12-21-18 12:33	12-21-18 12:38	12-21-18 12:45			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	15,000 (over)	NM	274	NM	51.8	NM	13.1			
DEPTH OF WELL (FT)	12.30	NM	NM	NM	NM	NM	12.30			
STATIC WATER LEVEL (SWL) (FT)	4.94	6.59	9.62	11.35	10.25	11.87	12.30			
VOLUME EVACUATED (GAL)	0	0.5	0.4	0.6	0	0.8	0.5			
TOTAL VOLUME EVACUATED (GAL)	0	0.5	0.9	1.5	1.5	2.3	2.8			
TEMPERATURE (°C)	NM	22.3	22.9	23.4	23.3	23.7	23.7			
pH	NM	7.22	7.20	7.17	7.11	7.15	7.17			
ORP (mV)	NM	-3	-5	8	28	28	16			
CONDUCTIVITY (µs/cm)	NM	310	310	310	310	310	310			
VISUAL OBSERVATIONS	None	Cloudy/ Clear Solvent-type Odor	Clear Solvent-type Odor	Clear Solvent-type Odor	Clear Solvent-type Odor	Clear Solvent - type Odor	Clear Solvent - type Odor			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
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**WELL DEVELOPMENT DATA  
MW-F**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-21-18 10:34	12-21-18 10:50	12-21-18 10:47	12-21-18 11:03	12-21-18 11:13	12-21-18 11:33				
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump				
PID/FID (PPM)	659	NM	NM	NM	NM	0.3				
DEPTH OF WELL (FT)	12.52	NM	NM	NM	NM	12.55				
STATIC WATER LEVEL (SWL) (FT)	5.04	9.90	11.35	12.33	11.90	12.10				
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.3	0.2	0.1				
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.3	1.5	1.6				
TEMPERATURE (°C)	NM	21.2	22.6	22.5	22.1	22.4				
pH	NM	7.17	7.04	7.04	7.09	6.95				
ORP (mV)	NM	-37	-43	-74	-72	-94				
CONDUCTIVITY (µs/cm)	NM	380	370	350	340	340				
VISUAL OBSERVATIONS	None	Muddy	Cloudy/ Clear	Muddy Purge to Dry	Cloudy Purge to Dry	Cloudy Purge to Dry				

LEGEND: NM = Not Measured

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**WELL DEVELOPMENT DATA  
MW-G**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-21-18 9:08	12-21-18 9:21	12-21-18 9:26	12-21-18 9:32	12-21-18 9:36	12-21-18 9:43	12-21-18 9:53	12-21-18 10:00	12-21-18 10:10	
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	
PID/FID (PPM)	14.6	NM	NM	NM	NM	NM	NM	NM	0.8	
DEPTH OF WELL (FT)	10.46	NM	NM	NM	NM	10.46	NM	NM	NM	
STATIC WATER LEVEL (SWL) (FT)	4.96	NM	NM	NM	NM	7.90	NM	NM	NM	
VOLUME EVACUATED (GAL)	0	0.2	0.5	0.5	0.5	0.5	0.6	0.6	NM	
TOTAL VOLUME EVACUATED (GAL)	0	0.2	0.7	1.2	1.7	2.2	2.8	3.4	NM	
TEMPERATURE (°C)	NM	19.1	20.2	20.9	20.9	21.0	21.0	21.1	NM	
pH	NM	6.67	6.65	6.64	6.54	6.53	6.50	6.48	NM	
ORP (mV)	NM	-71	-79	-84	-88	-90	-90	-94	NM	
CONDUCTIVITY (µs/cm)	NM	410	410	400	380	360	370	370	NM	
VISUAL OBSERVATIONS	Trace NAPL	Muddy, NAPL on purge water surface	Cloudy	Cloudy	Cloudy, LNAPL	Cloudy	Cloudy	Cloudy/ Clear	None	

LEGEND: NM = Not Measured

Day Environmental, Inc.  
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Rochester, New York 14606



**WELL DEVELOPMENT DATA  
MW-H**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-21-18 6:24	12-21-18 6:37	12-21-18 6:43	12-21-18 6:48	12-21-18 6:53	12-21-18 7:03	12-21-18 7:08	12-21-18 7:13	12-21-18 7:17	
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	
PID/FID (PPM)	0.5	NM	NM	NM	NM	NM	NM	NM	NM	
DEPTH OF WELL (FT)	10.45	NM	NM	NM	NM	11.55	NM	NM	11.55	
STATIC WATER LEVEL (SWL) (FT)	4.64	NM	NM	NM	NM	4.89	NM	NM	4.86	
VOLUME EVACUATED (GAL)	0	0.5	0.5	1.0	0.5	0.5	0.5	0.5	NM	
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	2.0	2.5	3.0	3.5	4.0	NM	
TEMPERATURE (°C)	NM	20.4	22.0	22.1	22.4	22.4	22.4	22.4	NM	
pH	NM	6.93	6.78	6.72	6.65	6.67	6.65	6.61	NM	
ORP (mV)	NM	-70	-84	-85	-92	-99	-95	-97	NM	
CONDUCTIVITY (µs/cm)	NM	390	390	370	380	380	370	360	NM	
VISUAL OBSERVATIONS	Muddy	Cloudy	Cloudy/ Clear	Cloudy/ Clear	Cloudy/ Clear	Cloudy	Cloudy/ Clear	Cloudy/ Clear	None	

LEGEND: NM = Not Measured

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Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-I**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-21-18 7:40	12-21-18 7:55	12-21-18 8:02	12-21-18 8:07	12-21-18 8:15	12-21-18 8:19	12-21-18 8:24	12-21-18 8:29	12-21-18 8:34	12-21-18 8:37
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	0.4	NM	NM	NM	NM	NM	NM	NM	NM	NM
DEPTH OF WELL (FT)	9.43	NM	NM	NM	NM	NM	NM	NM	NM	NM
STATIC WATER LEVEL (SWL) (FT)	3.31	NM	NM	NM	NM	7.10	NM	NM	NM	5.94
VOLUME EVACUATED (GAL)	0	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	NM
TOTAL VOLUME EVACUATED (GAL)	0	0.2	0.4	0.7	1.0	1.2	1.4	1.7	2.0	NM
TEMPERATURE (°C)	NM	14.2	13.6	13.5	13.0	13.1	12.6	12.3	12.5	NM
pH	NM	7.18	7.06	7.11	7.11	7.11	7.18	7.19	7.22	NM
ORP (mV)	NM	-38	-19	-32	-49	-75	-46	-59	-21	NM
CONDUCTIVITY (µs/cm)	NM	480	520	530	530	540	530	550	550	NM
VISUAL OBSERVATIONS	None	Cloudy/ Clear	Cloudy/ Clear	Clear	Clear	Clear	Clear	Clear	Clear	None

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-J**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-20-18 14:00	12-20-18 14:05	12-20-18 14:10	12-20-18 14:15	12-20-18 14:20	12-20-18 14:25	12-20-18 14:30			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.6	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	11.55	NM	NM	NM	11.55	NM	11.55			
STATIC WATER LEVEL (SWL) (FT)	6.43	NM	NM	NM	7.81	NM	7.95			
VOLUME EVACUATED (GAL)	0	0.5	0.25	0.25	0.25	0.25	0.25			
TOTAL VOLUME EVACUATED (GAL)	0	0.5	0.75	1.0	1.25	1.5	1.75			
TEMPERATURE (°C)	NM	12.2	12.4	13.3	13.2	13.1	13.2			
pH	NM	7.26	7.36	7.41	7.40	7.34	7.37			
ORP (mV)	NM	-70	-24	-17	-21	-21	-5			
CONDUCTIVITY (µs/cm)	NM	460	470	480	480	480	480			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Slightly Turbid	Yellow Hue	Slightly Turbid	Slightly Turbid	Yellow Hue			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-K**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-20-18 13:00	12-20-18 13:05	12-20-18 13:10	12-20-18 13:15	12-20-18 13:20	12-20-18 13:25	12-20-18 13:30	12-20-18 13:35		
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump		
PID/FID (PPM)	5.2	NM	NM	NM	NM	NM	NM	5.7		
DEPTH OF WELL (FT)	14.80	NM	NM	NM	NM	14.95	NM	14.95		
STATIC WATER LEVEL (SWL) (FT)	5.46	NM	NM	NM	NM	5.60	NM	5.61		
VOLUME EVACUATED (GAL)	0	0.5	0.5	1.0	1.0	0.5	0.25	0.25		
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	2.0	3.0	3.5	3.75	4.0		
TEMPERATURE (°C)	NM	9.2	8.9	8.6	8.0	8.0	8.0	7.9		
pH	NM	8.08	7.85	7.67	7.50	7.40	7.30	7.28		
ORP (mV)	NM	-31	-63	-71	-81	-73	-75	-77		
CONDUCTIVITY (µs/cm)	NM	250	220	190	190	200	200	190		
VISUAL OBSERVATIONS	Soft Bottom, Slight Petroleum- type Odor	Brown, Turbid, Slight Petroleum- type Odor and Sheen	Brown, Turbid with Sheen, Slight Petroleum- type Odor	Slightly Turbid	Clear	Brown, Turbid	Slightly Turbid	Clear		

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606



**WELL DEVELOPMENT DATA  
MW-L**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-20-18 11:20	12-20-18 11:30	12-20-18 11:35	12-20-18 11:40	12-20-18 11:45	12-20-18 11:50	12-20-18 11:55			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.1	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	14.20	NM	NM	NM	14.85	NM	14.85			
STATIC WATER LEVEL (SWL) (FT)	6.73	NM	NM	NM	6.81	NM	6.79			
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5			
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.5	2.0	2.5	3.0			
TEMPERATURE (°C)	NM	9.2	9.5	9.7	10.0	10.0	10.0			
pH	NM	7.43	7.29	7.25	7.21	7.19	7.17			
ORP (mV)	NM	-28	-39	-44	-47	-48	-48			
CONDUCTIVITY (µs/cm)	NM	360	390	390	390	390	390			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Slightly Turbid	Slightly Turbid	Brown, Turbid	Slightly Turbid	Slightly Turbid			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-M**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-20-18 10:15	12-20-18 10:20	12-20-18 10:25	12-20-18 10:30	12-20-18 10:35	12-20-18 10:40	12-20-18 10:45			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.1	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	13.69	NM	NM	NM	13.80	NM	13.80			
STATIC WATER LEVEL (SWL) (FT)	7.37	NM	NM	NM	7.36	NM	7.35			
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.5	0.5	0.5			
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.5	2.0	2.5	3.0			
TEMPERATURE (°C)	NM	10.9	11.1	10.9	11.0	11.1	11.0			
pH	NM	7.87	7.71	7.58	7.59	7.59	7.57			
ORP (mV)	NM	22	-33	-47	-50	-50	-50			
CONDUCTIVITY (µs/cm)	NM	420	340	340	320	320	320			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Brown, Turbid	Yellow Hue	Brown, Turbid	Brown, Turbid	Yellow Hue			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-N**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-20-18 15:00	12-20-18 15:20	12-20-18 15:25	12-20-18 15:30	12-20-18 15:35	12-20-18 15:40	12-20-18 15:45	12-20-18 15:50	12-20-18 15:55	12-20-18 16:00
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump
PID/FID (PPM)	5.4	NM	NM	NM	NM	NM	NM	NM	NM	11.4
DEPTH OF WELL (FT)	11.38	NM	NM	NM	11.43	NM	NM	NM	NM	11.43
STATIC WATER LEVEL (SWL) (FT)	4.95	NM	NM	NM	4.96	NM	NM	NM	NM	4.96
VOLUME EVACUATED (GAL)	0	0.25	0.25	0.25	0.5	0.5	0.5	0.5	0.25	0.5
TOTAL VOLUME EVACUATED (GAL)	0	0.25	0.5	0.75	1.25	1.75	2.25	2.75	3.0	3.5
TEMPERATURE (°C)	NM	16.1	16.1	15.8	16.2	16.1	16.1	16.1	16.1	16.2
pH	NM	7.58	7.48	7.48	7.43	7.40	7.37	7.30	7.26	7.24
ORP (mV)	NM	-30	-44	-48	-44	-47	-47	-47	-45	-45
CONDUCTIVITY (µs/cm)	NM	300	250	240	230	210	210	210	210	200
VISUAL OBSERVATIONS	Soft Bottom, Petroleum- type Odor, LNAPL 4.95 to 5.00	Petroleum- type Odor, Brown, Turbid	Clear	Clear	Hard Bottom, Brown, Turbid, Sheen	Clear, Slight Petroleum- type Odor	Clear, Slight Petroleum- type Odor, Sheen	Slightly Turbid, Slight Petroleum- type Odor, Sheen	Clear, Slight Petroleum- type Odor, Sheen	Clear, Slight Petroleum- type Odor, Sheen

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-O**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-19-18 14:00	12-19-18 14:15	12-19-18 14:20	12-19-18 14:25	12-19-18 14:30	12-19-18 14:35	12-19-18 14:40			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.1	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	17.92	NM	NM	NM	17.92	NM	17.92			
STATIC WATER LEVEL (SWL) (FT)	6.69	NM	NM	NM	6.90	NM	6.73			
VOLUME EVACUATED (GAL)	0.0	0.5	0.5	0.5	0.25	0.25	0.25			
TOTAL VOLUME EVACUATED (GAL)	0.0	0.5	1.0	1.5	1.75	2.0	2.25			
TEMPERATURE (°C)	NM	10.0	9.9	9.9	9.8	9.5	9.7			
pH	NM	7.43	7.36	7.29	7.31	7.25	7.26			
ORP (mV)	NM	-179	-115	-138	-136	-103	-88			
CONDUCTIVITY (µs/cm)	NM	380	430	420	420	450	450			
VISUAL OBSERVATIONS	Soft Bottom, Slight Petroleum- type Odor	Brown, Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606



**WELL DEVELOPMENT DATA  
MW-P**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-19-18 12:10	12-19-18 12:22	12-19-18 12:26	12-19-18 12:30	12-19-18 12:38	12-19-18 12:43	12-19-18 12:47			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.0	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	18.36	NM	NM	NM	19.22	NM	19.22			
STATIC WATER LEVEL (SWL) (FT)	7.64	NM	NM	NM	7.71	NM	7.72			
VOLUME EVACUATED (GAL)	0.0	0.5	0.5	0.5	0.5	0.25	0.25			
TOTAL VOLUME EVACUATED (GAL)	0.0	0.5	1.0	1.5	2.0	2.25	2.5			
TEMPERATURE (°C)	NM	10.2	10.1	9.9	10.2	10.2	10.3			
pH	NM	6.84	6.93	6.96	6.89	6.86	6.88			
ORP (mV)	NM	-52	-56	-62	-58	-60	-59			
CONDUCTIVITY (µs/cm)	NM	490	470	460	470	470	460			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-Q**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-19-18 11:20	12-19-18 11:30	12-19-18 11:35	12-19-18 11:40	12-19-18 11:45	12-19-18 11:50	12-19-18 11:55			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.0	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	14.85	NM	NM	NM	14.86	NM	14.86			
STATIC WATER LEVEL (SWL) (FT)	7.98	NM	NM	NM	7.98	NM	7.96			
VOLUME EVACUATED (GAL)	0.0	0.5	0.25	0.25	0.25	0.25	0.25			
TOTAL VOLUME EVACUATED (GAL)	0.0	0.5	0.75	1.0	1.25	1.5	1.75			
TEMPERATURE (°C)	NM	11.2	11.4	11.1	10.9	11.1	11.2			
pH	NM	7.01	6.97	6.95	6.95	6.94	6.93			
ORP (mV)	NM	-27	-29	-35	-40	-50	-52			
CONDUCTIVITY (µs/cm)	NM	510	480	470	460	450	450			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-R**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-19-18 16:30	12-19-18 16:45	12-19-18 16:50	12-19-18 16:55	12-19-18 17:00	12-19-18 17:05	12-19-18 17:10			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	74.4	NM	NM	NM	NM	NM	2.5			
DEPTH OF WELL (FT)	11.80	NM	NM	NM	11.82	NM	11.82			
STATIC WATER LEVEL (SWL) (FT)	3.86	NM	NM	NM	3.93	NM	3.92			
VOLUME EVACUATED (GAL)	0.0	0.5	0.5	0.5	0.5	0.5	0.5			
TOTAL VOLUME EVACUATED (GAL)	0.0	0.5	1.0	1.5	2.0	2.5	3.0			
TEMPERATURE (°C)	NM	8.7	9.3	9.5	9.3	9.5	9.5			
pH	NM	7.27	7.21	7.19	7.20	7.21	7.20			
ORP (mV)	NM	-80	-59	-59	-57	-57	-57			
CONDUCTIVITY (µs/cm)	NM	630	610	610	610	610	610			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Slightly Turbid	Clear/ Cloudy	Slightly Turbid	Yellow Hue	Yellow Hue			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-S**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-19-18 15:25	12-19-18 15:35	12-19-18 15:40	12-19-18 15:45	12-19-18 15:50	12-19-18 15:55	12-19-18 16:00			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.5	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	11.65	NM	NM	NM	11.82	NM	11.82			
STATIC WATER LEVEL (SWL) (FT)	3.73	NM	NM	NM	3.75	NM	3.75			
VOLUME EVACUATED (GAL)	0.0	0.5	0.5	0.5	0.5	0.25	0.25			
TOTAL VOLUME EVACUATED (GAL)	0.0	0.5	1.0	1.5	2.0	2.25	2.5			
TEMPERATURE (°C)	NM	9.3	9.2	9.0	8.9	8.9	8.9			
pH	NM	7.30	7.26	7.19	7.22	7.20	7.19			
ORP (mV)	NM	-132	-84	-89	-90	-86	-87			
CONDUCTIVITY (µs/cm)	NM	540	540	550	550	550	550			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid	Slightly Turbid			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606



**WELL DEVELOPMENT DATA  
MW-T**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-20-18 9:05	12-20-18 9:10	12-20-18 9:20	12-20-18 9:25	12-20-18 9:30	12-20-18 9:40	12-20-18 9:50	12-20-18 9:55		
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump		
PID/FID (PPM)	0.2	NM	NM	NM	NM	NM	NM	0.0		
DEPTH OF WELL (FT)	11.60	NM	NM	NM	11.66	NM	NM	11.66		
STATIC WATER LEVEL (SWL) (FT)	4.13	NM	NM	NM	10.71	NM	NM	10.35		
VOLUME EVACUATED (GAL)	0.0	0.25	0.25	0.5	0.25	0.25	0.25	0.25		
TOTAL VOLUME EVACUATED (GAL)	0.0	0.25	0.5	1.0	1.25	1.5	1.75	2.0		
TEMPERATURE (°C)	NM	11.0	10.5	9.9	9.3	9.3	9.4	9.3		
pH	NM	8.36	8.19	8.37	8.36	8.37	8.42	8.41		
ORP (mV)	NM	-66	-75	3	11	14	12	14		
CONDUCTIVITY (µs/cm)	NM	380	350	340	340	340	330	330		
VISUAL OBSERVATIONS	Soft Bottom	Petroleum- type Sheen, Brown, Turbid	Petroleum- type Sheen, Brown, Turbid	Petroleum- type Sheen, Slightly Turbid	Petroleum- type Sheen, Slightly Turbid	Petroleum- type Sheen, Slightly Turbid	Petroleum- type Sheen, Clear  Purged to Dry	Petroleum- type Sheen, Clear  Purged to Dry		

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
TB-11**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-20-18 12:00	12-20-18 12:10	12-20-18 12:15	12-20-18 12:20	12-20-18 12:25	12-20-18 12:30	12-20-18 12:35	12-20-18 12:40		
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump		
PID/FID (PPM)	0.0	NM	NM	NM	NM	NM	NM	0.0		
DEPTH OF WELL (FT)	14.28	NM	NM	NM	14.28	NM	NM	14.28		
STATIC WATER LEVEL (SWL) (FT)	9.13	NM	NM	NM	10.60	NM	NM	9.41		
VOLUME EVACUATED (GAL)	0	0.5	0.5	0.5	0.25	0.25	0.25	0.25		
TOTAL VOLUME EVACUATED (GAL)	0	0.5	1.0	1.5	1.75	2.0	2.25	2.5		
TEMPERATURE (°C)	NM	10.3	10.1	10.3	10.6	10.9	11.1	11.2		
pH	NM	7.20	7.24	7.36	7.35	7.36	7.35	7.35		
ORP (mV)	NM	-49	-11	-4	-34	-38	-39	-40		
CONDUCTIVITY (µs/cm)	NM	320	380	380	380	380	380	380		
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Brown, Turbid	Brown, Turbid	Brown, Turbid	Brown, Turbid	Brown, Turbid	Slightly Turbid		

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
TB-18**

SITE LOCATION: 415 and 441 Chandler Street, Jamestown, New York

JOB#: 5529S-18

DATE/ TIME	12-19-18 10:05	12-19-18 10:25	12-19-18 10:30	12-19-18 10:33	12-19-18 10:37	12-19-18 10:42	12-19-18 10:47			
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump			
PID/FID (PPM)	0.0	NM	NM	NM	NM	NM	0.0			
DEPTH OF WELL (FT)	14.93	NM	NM	NM	14.93	NM	14.93			
STATIC WATER LEVEL (SWL) (FT)	7.95	NM	NM	NM	8.02	NM	8.08			
VOLUME EVACUATED (GAL)	0	0.3	0.35	0.3	0.25	0.25	0.25			
TOTAL VOLUME EVACUATED (GAL)	0	0.3	0.65	0.95	1.20	1.45	1.70			
TEMPERATURE (°C)	NM	10.1	10.1	9.2	9.2	9.2	9.2			
pH	NM	6.76	6.86	6.88	6.94	6.94	6.94			
ORP (mV)	NM	3	-4	-20	-25	-32	-35			
CONDUCTIVITY (µs/cm)	NM	500	580	600	600	600	600			
VISUAL OBSERVATIONS	Soft Bottom	Brown, Turbid	Slightly Turbid	Slightly Turbid	Hard Bottom, Slight Turbidity	Slightly Turbid	Slightly Turbid			

LEGEND: NM = Not Measured

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**APPENDIX F**  
**GROUNDWATER SAMPLING LOGS**



**NOVEMBER 8, 2018**  
**GROUNDWATER SAMPLING LOGS**

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-A**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>441 Chandler Street</u>	JOB #: <u>5529S-18</u>
<u>Jamestown, New York</u>	DATE : <u>11/8/2018</u>
SAMPLE COLLECTOR(S): <u>C. Hampton</u>	
WEATHER CONDITIONS: <u>(indoors)</u>	PID IN WELL (PPM): <u>52.3 LNAPL 0.36' DNAPL ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>11.70</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>4.81</u> (MEASURED FROM T.O.C.)	
T.O.C. TO GROUND SURFACE [FT]: <u>-0.19</u>	
THICKNESS OF WATER COLUMN [FT]: <u>7.24</u>	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.28</u>	CASING DIA.: <u>1"</u>
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
<u>3/4" (0.0625)</u>	<u>0.023</u>
<u>1" (0.0833)</u>	<u>0.041</u>
<u>1 1/4" (0.1041)</u>	<u>0.063</u>
<u>2" (0.1667)</u>	<u>0.1632</u>
<u>3" (0.250)</u>	<u>0.380</u>
<u>4" (0.3333)</u>	<u>0.6528</u>
<u>4 1/2" (0.375)</u>	<u>0.826</u>
<u>6" (0.5000)</u>	<u>1.4688</u>
<u>8" (0.666)</u>	<u>2.611</u>
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>0.85</u>	
ACTUAL VOLUME PURGED [GAL]: <u>2.8</u> (volume indicates well development and purge)	
PURGE METHOD: <u>Peristaltic Pump</u>	PURGE START: <u>11:55</u> END: <u>13:22</u>

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-A	11/8/18 @ 13:25	Bailer	Halocarbons

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (uS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
4.46	24.9	6.78	(meter out of battery)	N/M	N/M	-33	Cloudy with Sheen

N/M = Not Measured  
ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-B**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>441 Chandler Street</u> <u>Jamestown, New York</u>	JOB #: <u>5529S-18</u> DATE: <u>11/8/2018</u>
SAMPLE COLLECTOR(S): <u>C. Hampton</u>	
WEATHER CONDITIONS: <u>(indoors)</u>	PID IN WELL (PPM): <u>3.7</u> LNAPL <u>ND</u> DNAPL <u>ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>10.68</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>3.41</u> (MEASURED FROM T.O.C.)	
T.O.C. TO GROUND SURFACE [FT]: <u>0.31</u>	
THICKNESS OF WATER COLUMN [FT]: <u>7.44</u>	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.30</u> CASING DIA.: <u>1"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
<u>3/4" (0.0625)</u>	<u>0.023</u>
<u>1" (0.0833)</u>	<u>0.041</u>
<u>1 1/4" (0.1041)</u>	<u>0.063</u>
<u>2" (0.1667)</u>	<u>0.1632</u>
<u>3" (0.250)</u>	<u>0.380</u>
<u>4" (0.3333)</u>	<u>0.6528</u>
<u>4 1/2" (0.375)</u>	<u>0.826</u>
<u>6" (0.5000)</u>	<u>1.4688</u>
<u>8" (0.666)</u>	<u>2.611</u>
<u>CALCULATIONS</u> VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>0.89</u>	
ACTUAL VOLUME PURGED [GAL]: <u>2.6</u> (volume indicates well development and purge)	
PURGE METHOD: <u>Peristaltic Pump</u> PURGE START: <u>11:15</u> END: <u>11:30</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-B	11/8/18 @ 11:35	Bailer	Halocarbons

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (uS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
3.41	21.8	6.62	(meter out of battery)	N/M	N/M	-60	Cloudy

N/M = Not Measured  
ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-C**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>441 Chandler Street</u>	JOB #: <u>5529S-18</u>
<u>Jamestown, New York</u>	DATE: <u>11/8/2018</u>
SAMPLE COLLECTOR(S): <u>C. Hampton</u>	
WEATHER CONDITIONS: <u>(indoors)</u>	PID IN WELL (PPM): <u>12.8 LNAPL ND DNAPL ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>8.91</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>3.81</u> (MEASURED FROM T.O.C.)	
T.O.C. TO GROUND SURFACE [FT]: <u>0.31</u>	
THICKNESS OF WATER COLUMN [FT]: <u>5.1</u>	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.21</u> CASING DIA.: <u>1"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	0.063
2" (0.1667)	0.1632
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>0.63</u>	
ACTUAL VOLUME PURGED [GAL]: <u>2.4</u> (volume indicates well development and purge)	
PURGE METHOD: <u>Peristaltic Pump</u>	
PURGE START: <u>10:15</u> END: <u>10:30</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-C	11/8/18 @ 10:35	Bailer	Halocarbons

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (uS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
3.81	21.3	6.35	1320	N/M	N/M	-88	Cloudy / Gray

N/M = Not Measured  
ND = Not Detected



**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-D**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>441 Chandler Street</u>	JOB #: <u>5529S-18</u>
<u>Jamestown, New York</u>	DATE : <u>11/8/2018</u>
SAMPLE COLLECTOR(S): <u>C. Hampton</u>	
WEATHER CONDITIONS: <u>(indoors)</u>	PID IN WELL (PPM): <u>10.7 LNAPL ND DNAPL ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>8.31</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>3.56</u> (MEASURED FROM T.O.C.)	
T.O.C. TO GROUND SURFACE [FT]: <u>0.28</u>	
THICKNESS OF WATER COLUMN [FT]: <u>4.75</u>	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.19</u> CASING DIA.: <u>1"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	0.063
2" (0.1667)	0.1632
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>0.58</u>	
ACTUAL VOLUME PURGED [GAL]: <u>2.5</u> (volume indicates well development and purge)	
07:56 08:42	
PURGE METHOD: <u>Peristaltic Pump</u>	PURGE START: <u>10:45</u> END: <u>11:00</u>

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-D	11/8/18 @ 11:05	Bailer	Halocarbons

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (uS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
3.56	21.6	6.32	1620	N/M	N/M	-72	Cloudy, Gray/Black

N/M = Not Measured  
ND = Not Detected

DECEMBER 26 AND 27, 2018  
GROUNDWATER SAMPLING LOGS

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-A**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>55</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>6.9 – 11.9</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>5.12 / 12-27-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>11.9</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.9</u>		
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b> <u>0.10'</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>360</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>*</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
09:24	Start	*	N/M						0
09:27	360	*	1.85	54	8.1	0.843	6.89	23.83	1,080
09:32	360	*	0.34	-20	0.8	0.865	6.66	23.96	2,880
09:37	360	*	0.28	-40	0.0	0.872	6.63	24.02	4,680
09:42	360	*	0.25	-51	0.0	0.875	6.64	24.09	6,480
09:47	360	*	0.24	-57	0.0	0.876	6.63	24.02	8,280
09:52	360	*	0.23	-60	0.0	0.876	6.64	24.06	10,080
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-A	12-27-18 / 09:53	Peristaltic Pump	Halocarbons

N/M = Not Measured

\* = 1" ID well, can't mSe mini probe while pumping due to LNAPL

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-B**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>		<b>JOB #</b> <u>5529S-18</u>	
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>		<b>DATE:</b> <u>12/27/18</u>	
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>		<b>WEATHER:</b> <u>Indoors</u>	
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>N/M</u>		<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>	
<b>CASING TYPE:</b> <u>PVC</u>		<b>WELL DIAMETER (INCHES):</b> <u>1"</u>	
<b>SCREENED INTERVAL [FT BGS]:</b> <u>6.0 – 11.0</u>		<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>3.93 / 12-27-18</u>	
<b>WELL DEPTH [FT BGS]:</b> <u>11.0</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>		<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.0</u>	
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>360</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>4.24</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
10:45	Start	N/M	N/M						0
10:48	360	4.23	1.56	8	69.8	0.821	6.83	21.36	1,080
10:53	360	4.23	0.33	-45	50.4	0.821	6.89	20.56	2,880
10:58	360	4.24	0.30	-60	23.5	0.824	6.91	20.44	4,680
11:03	360	4.24	0.27	-68	11.2	0.825	6.92	20.30	6,480
11:08	360	4.24	0.25	-71	9.1	0.826	6.92	20.38	8,280
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-B	12-27-18 / 11:09	Peristaltic Pump	Halocarbons

N/O = Not Observed  
N/M = Not Measured



**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-C**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>2.5</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>4.2 – 9.2</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>4.71 / 12-27-18</u>
<b>WELL DEPTH [FT BGS]:</b> <u>9.2</u> (Do NOT Measure Well depth Prior To Purging And Sampling)	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~7.5</u>
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>
<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>110</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>6.11</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
07:48	-	4.89	N/M						0
08:00	180	7.13	7.00	-78	165	1.51	6.61	19.40	360
08:08	110	7.45	6.39	-87	153	1.51	6.59	19.34	1,240
08:18	110	6.11	5.55	-92	136	1.50	6.55	19.31	2,340
08:23	110	6.11	5.08	-94	128	1.48	6.54	19.24	2,890
08:28	110	6.11	4.78	-96	114	1.47	6.54	19.24	3,440
08:33	110	6.11	4.55	-97	109	1.46	6.53	19.24	3,990
08:38	110	6.11	4.48	-97	103	1.45	6.53	19.22	4,540
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-C	12-27-18 / 08:40	Peristaltic Pump	VOCs, SVOCs, Metals, PCB, CN

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-D**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>35.5</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>3.6 – 8.6</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>4.48 / 12-27-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>8.6</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~7</u>		
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>250</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>4.82</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
09:24	-	4.65	N/M						0
09:35	220	4.82	0.46	-109	61.4	2.47	6.83	20.26	2,420
09:40	250	4.82	0.40	-146	10.7	2.46	6.81	20.26	3,670
09:45	250	4.82	0.22	-141	5.7	2.40	6.82	20.26	4,920
09:50	250	4.82	0.16	-137	4.2	2.40	6.82	20.29	6,170
09:55	250	4.82	0.18	-134	3.5	2.40	6.82	20.29	7,420
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-D	12-27-18 / 10:00	Peristaltic Pump	VOCs, SVOCs, Metals, PCB, CN

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-E**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>4,500</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>2"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>10.6 – 12.6</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>5.01 / 12-27-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>12.6</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~11.6</u>		
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>320</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>11.11</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
08:38	Start	N/M	N/M						0
08:40	320	6.66	5.52	-44	41.3	0.903	6.93	22.84	640
08:45	320	8.30	4.48	-61	28.4	0.860	6.85	22.55	2,240
08:50	320	9.88	4.12	-45	19.4	0.854	6.83	23.70	3,840
08:55	320	11.11	3.80	-22	14.6	0.857	6.83	23.73	5,440
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-E	12-27-18 / 08:56	Peristaltic Pump	Halocarbons

N/O = Not Observed  
 N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-F**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>2,570</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>2"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>11.1 – 12.8</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>5.05 / 12-27-18</u>
<b>WELL DEPTH [FT BGS]:</b> <u>12.8</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~11.8</u>
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>
<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>280</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>10.22</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
07:21	Start	N/M	N/M						0
07:23	320	7.30	3.78	-40	88.9	1.63	6.89	20.65	640
07:28	280	8.85	3.43	-54	47.6	1.63	7.00	21.52	2,040
07:33	280	10.05	3.41	-43	38.7	1.62	7.08	21.92	3,240
Well dry. Lowered suction to bottom, pumped out well. Purge complete @ 07:38. Recharge until 10:30									
10:30	0	10.22	N/M						
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-F	12-27-18 / 10:30	Peristaltic Pump	Halocarbons

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-G**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>15</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>4.7 – 10.7</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>5.00 / 12-27-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>10.7</u> (Do <b>NOT</b> Measure Well depth Prior To Purging And Sampling)	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~9.5</u>		
<b>LNAPL:</b> <u>0.05'</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>320</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>*</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
07:53	Start	*	N/M						0
07:55	320	*	1.14	-53	>1000	2.83	6.93	20.73	640
08:00	320	*	0.29	-69	894	2.76	6.83	20.83	2,240
08:05	320	*	0.21	-80	356	2.72	6.79	20.89	3,840
08:10	320	*	0.19	-86	492	2.71	6.78	20.87	5,440
08:16	320	*	0.16	-90	201	2.71	6.75	20.93	7,360
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-G	12-27-18 / 08:17	Peristaltic Pump	Halocarbons

N/M = Not Measured

\* = 1" ID well, can't mSe mini probe while pumping due to LNAPL



**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-H**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>1.0</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>5.8 – 11.8</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>4.84 / 12-27-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>11.8</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.3</u>		
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>400</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>5.12</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
06:45	0	4.98	N/M						0
07:03	400	5.12	1.14	-95	48.1	1.32	6.75	21.69	7,200
07:08	400	5.12	1.63	-99	45.0	1.32	6.74	21.83	9,200
07:13	400	5.12	1.75	-101	37.0	1.30	6.73	21.91	11,200
07:18	400	5.12	2.03	-103	15.5	1.29	6.77	21.98	13,200
07:23	400	5.12	2.07	-103	9.8	1.29	6.72	22.03	15,200
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-H	12-27-18 / 07:25	Peristaltic Pump	Halocarbons, Metals

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-I**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/26/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>~34°F, Overcast</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.8</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>3.7 – 9.7</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>4.79 / 12-26-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>9.7</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~8.5</u>		
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT			
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>		
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>			
<b>STABILIZED PUMP RATE (ml/min):</b> <u>N/A</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>N/A</u>		

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
15:04	Start	N/M				N/M			0
15:14	N/M	8.50 (dry)				N/M			575
15:16	0								575
Well Recharge									
16:10	0	6.48				N/M			575
16:35	0	6.00				N/M			575
16:56	0	5.73				N/M			575
12/27/18 11:24	0	4.82				N/M			0
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-I	12-27-18 / 11:25	Peristaltic Pump	Halocarbons

N/O = Not Observed  
 N/M = Not Measured  
 N/A = Not Applicable

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-J**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/26/18</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>~34°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.1</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>5.9 – 11.9</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u><b>SWL / Date Measured</b> 6.32 / 12-26-18</u>
<b>WELL DEPTH [FT BGS]:</b> <u>11.9</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>N/M</u>
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>
<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>190</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>6.89</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
13:06	Start	N/M	N/M						0
13:12	440	7.20	3.85	105	458	0.918	7.61	10.41	2,640
13:16	160	6.93	1.12	72	203	0.870	7.30	11.71	3,280
13:20	200	6.92	0.89	58	175	0.867	7.20	11.18	4,080
13:25	200	6.90	0.53	38	110	0.857	7.11	11.33	5,080
13:32	190	6.90	0.35	20	65.0	0.856	7.08	11.22	6,410
13:38	190	6.90	0.32	14	55.5	0.859	7.08	11.07	7,550
13:43	190	6.89	0.30	14	52.0	0.857	7.09	11.03	8,500
<b>SAMPLE OBSERVATIONS:</b> <u>Clear</u>									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-J	12-26-18 / 13:44	Peristaltic Pump	Halocarbons

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-K**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/27/18</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>~35°F, Partly Sunny</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.4</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>3.8 – 11.8</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>5.19 / 12-27-18</u>
<b>WELL DEPTH [FT BGS]:</b> <u>11.8</u> (Do <b>NOT</b> Measure Well depth Prior To Purging And Sampling)	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.3</u>
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>
<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>320</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>5.49</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
10:39	-	5.41	N/M						0
10:46	320	5.49	1.45	-49	18.2	0.316	7.61	9.65	2,240
10:51	320	5.49	0.38	-102	7.8	0.277	7.36	8.52	3,840
10:56	320	5.49	0.26	-101	6.3	0.261	7.19	8.18	5,440
11:01	320	5.49	0.28	-93	4.6	0.252	7.08	7.99	7,040
11:06	320	5.49	0.28	-88	4.7	0.246	7.02	7.96	8,640
11:11	320	5.49	0.23	-83	4.1	0.241	6.96	7.85	10,240
11:16	320	5.49	0.19	-80	4.2	0.238	6.93	7.79	11,840
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-K	12-27-18 / 11:20	Peristaltic Pump	VOCs, SVOCs, Metals

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-L**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/26/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>~34°F, Overcast</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.0</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>5.8 – 11.8</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u><b>SWL / Date Measured</b> 6.32 / 12-26-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>11.8</u> <small>(Do NOT Measure Well depth Prior To Purging And Sampling)</small>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.3</u>		
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>220</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>6.63</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
16:30	220	6.51	N/M						0
16:40	220	6.51	0.96	-39	535	0.612	6.71	9.75	2,200
16:45	220	6.51	0.84	-61	84.3	0.639	6.73	10.12	3,300
16:50	220	6.51	0.84	-65	34.7	0.645	6.73	10.10	4,400
16:55	220	6.51	0.76	-67	24.9	0.646	6.73	10.12	5,500
17:00	220	6.51	0.76	-68	22.1	0.648	6.73	10.13	6,600
17:05	220	6.51	0.75	-69	24.9	0.650	6.73	10.12	7,700
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-L	12-26-18 / 17:10	Peristaltic Pump	VOCs, SVOCs

N/O = Not Observed  
N/M = Not Measured



**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-N**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/26/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>Indoors</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>N/M</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>5.9 – 11.9</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>4.62 / 12-26-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>11.9</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.9</u>		
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b> <u>0.06'</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>280</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>*</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
15:53	Start	*	N/M						0
15:56	280	*	1.38	7	138	0.464	6.95	15.14	840
16:01	280	*	0.51	-31	48.7	0.371	6.94	15.33	2,240
16:06	280	*	0.43	-38	18.3	0.355	6.82	15.60	3,640
16:11	280	*	0.35	-46	4.5	0.347	6.81	15.81	5,040
16:16	280	*	0.33	-48	2.0	0.343	6.80	15.95	6,440
16:21	280	*	0.31	-48	0.0	0.341	6.77	16.00	7,840
16:28	0	4.63	N/M						N/M
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-N	12-26-18 / 16:22	Peristaltic Pump	VOCs, SVOCs

N/M = Not Measured

\* = 1" ID well, can't mSe mini probe while pumping due to LNAPL

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-O**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b>	<u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b>	<u>5529S-18</u>
<b>PROJECT NAME:</b>	<u>Weber Knapp Co.</u>	<b>DATE:</b>	<u>12/26/18</u>
<b>SAMPLE COLLECTOR(S):</b>	<u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b>	<u>~34°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b>	<u>0.4</u>	<b>MEASURING POINT (for water levels):</b>	<u>Top of Casing</u>
<b>CASING TYPE:</b>	<u>PVC</u>	<b>WELL DIAMETER (INCHES):</b>	<u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b>	<u>7.0 – 15.0</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b>	<u><b>SWL / Date Measured</b> 6.47 / 12-26-18</u>
<b>WELL DEPTH [FT BGS]:</b>	<u>15.0</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b>	<u>~14.0</u>
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b>	<u>N/O</u>	<b>DNAPL:</b>	<u>N/M</u>
		<b>OTHER OBSERVATIONS:</b>	<u>None</u>

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b>	<u>Geotech Geopump™ - Peristaltic pump</u>
<b>WATER LEVEL METER:</b>	<u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b>	<u>Horiba U-52</u>
<b>STABILIZED PUMP RATE (ml/min):</b>	<u>330</u>
<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b>	<u>7.01</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
09:28	Start	N/M	N/M						0
09:32	400	6.99	N/M						1,600
09:34	320	6.94	N/M						3,520
09:43	320	6.97	0.74	-191	82.4	0.684	7.00	10.40	6,400
09:50	320	6.98	0.38	-188	63.4	0.696	7.04	10.38	8,640
09:55	330	7.00	0.25	-185	71.3	0.703	7.09	10.35	10,290
10:00	330	7.01	0.19	-183	70.9	0.709	7.10	10.33	11,940
<b>SAMPLE OBSERVATIONS:</b> Slightly Turbid									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-O	12-26-18 / 10:01	Peristaltic Pump	VOCs, Metals, CN

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-P**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/26/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>~34°F, Overcast</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.0</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>6.0 – 16.0</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>7.35 / 12-26-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>16.0</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~15.0</u>		
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>380</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>7.51</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
10:26	Start	N/M	N/M						0
10:30	420	7.45	6.67	116	249	0.479	7.36	10.37	1,680
10:35	370	7.46	4.92	118	109	0.481	7.35	10.65	3,530
10:40	370	7.47	3.94	113	74.3	0.484	7.34	10.86	5,380
10:45	380	7.48	3.22	107	47.8	0.489	7.33	11.00	7,280
10:50	380	7.50	2.68	100	32.6	0.492	7.31	11.12	9,180
10:55	380	7.50	2.40	95	21.9	0.496	7.28	11.14	11,080
11:00	380	7.51	2.09	88	12.8	0.500	7.29	11.21	12,980
11:05	380	7.51	1.97	84	18.5	0.502	7.27	11.28	14,880
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-P	12-26-18 / 11:06	Peristaltic Pump	VOCs, Metals, CN

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-Q**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b>	<u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b>	<u>5529S-18</u>
<b>PROJECT NAME:</b>	<u>Weber Knapp Co.</u>	<b>DATE:</b>	<u>12/26/18</u>
<b>SAMPLE COLLECTOR(S):</b>	<u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b>	<u>~34°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b>	<u>0.0</u>	<b>MEASURING POINT (for water levels):</b>	<u>Top of Casing</u>
<b>CASING TYPE:</b>	<u>PVC</u>	<b>WELL DIAMETER (INCHES):</b>	<u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b>	<u>5.9 – 11.9</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b>	<u><b>SWL / Date Measured</b> 7.62 / 12-26-18</u>
<b>WELL DEPTH [FT BGS]:</b>	<u>11.9</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b>	<u>~10.4</u>
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b>	<u>N/O</u>	<b>DNAPL:</b>	<u>N/M</u>
		<b>OTHER OBSERVATIONS:</b>	<u>None</u>

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b>	<u>Geotech Geopump™ - Peristaltic pump</u>
<b>WATER LEVEL METER:</b>	<u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b>	<u>Horiba U-52</u>
<b>STABILIZED PUMP RATE (ml/min):</b>	<u>400</u>
<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b>	<u>7.78</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
10:31	400	7.78	N/M						0
10:40	400	7.78	1.78	-94	100	0.796	7.01	13.58	3,600
10:45	400	7.78	1.68	-102	57.9	0.788	7.01	14.02	5,200
10:52	400	7.78	0.68	-106	23.0	0.783	7.00	14.06	8,400
10:57	400	7.78	0.77	-107	7.0	0.782	7.00	14.04	10,400
11:02	400	7.78	0.82	-108	5.5	0.783	6.99	14.08	12,400
<b>SAMPLE OBSERVATIONS: None</b>									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-Q	12-26-18 / 11:05	Peristaltic Pump	VOC, Metals, CN

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-R**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b>	<u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b>	<u>5529S-18</u>
<b>PROJECT NAME:</b>	<u>Weber Knapp Co.</u>	<b>DATE:</b>	<u>12/26/18</u>
<b>SAMPLE COLLECTOR(S):</b>	<u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b>	<u>~34°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b>	<u>46.7</u>	<b>MEASURING POINT (for water levels):</b>	<u>Top of Casing</u>
<b>CASING TYPE:</b>	<u>PVC</u>	<b>WELL DIAMETER (INCHES):</b>	<u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b>	<u>6.0 – 12.0</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b>	<u>SWL / Date Measured 3.71 / 12-26-18</u>
<b>WELL DEPTH [FT BGS]:</b>	<u>12.0</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b>	<u>~11.0</u>
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b>	<u>N/O</u>	<b>DNAPL:</b>	<u>N/M</u>
		<b>OTHER OBSERVATIONS:</b>	<u>None</u>

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b>	<u>Geotech Geopump™ - Peristaltic pump</u>
<b>WATER LEVEL METER:</b>	<u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b>	<u>Horiba U-52</u>
<b>STABILIZED PUMP RATE (ml/min):</b>	<u>3.98</u>
<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b>	<u>400</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
11:50	Start	3.82	N/M						0
12:02	400	3.98	N/M						4,800
12:07	400	3.98	2.90	-27	42.7	1.34	6.97	12.09	6,800
12:12	400	3.98	0.48	-49	28.7	1.35	6.97	9.97	8,800
12:21	400	3.98	0.37	-56	24.3	1.35	6.96	10.05	12,400
12:26	400	3.98	0.25	-58	20.3	1.35	6.96	10.08	14,400
12:31	400	3.98	0.28	-59	16.1	1.35	6.96	10.08	16,400
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-R	12-26-18 / 12:35	Peristaltic Pump	VOCs, Metals, CN

N/O = Not Observed  
N/M = Not Measured



**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-S**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>		<b>JOB #</b> <u>5529S-18</u>	
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>		<b>DATE:</b> <u>12/26/18</u>	
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>		<b>WEATHER:</b> <u>~34°F, Overcast</u>	
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.2</u>		<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>	
<b>CASING TYPE:</b> <u>PVC</u>		<b>WELL DIAMETER (INCHES):</b> <u>1"</u>	
<b>SCREENED INTERVAL [FT BGS]:</b> <u>6.0 – 12.0</u>		<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>3.51 / 12-26-18</u>	
<b>WELL DEPTH [FT BGS]:</b> <u>12.0</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>		<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~11.0</u>	
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>400</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>3.59</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
11:53	Start	N/M	N/M						0
11:56	340	N/M	N/M						1,020
12:00	400	3.57	0.83	-158	405	1.03	7.15	8.61	2,620
12:05	400	3.59	0.23	-143	38.8	1.03	7.10	8.72	4,620
12:10	480	3.59	0.07	-134	33.3	1.03	7.08	8.71	6,620
12:15	400	3.59	0.01	-132	101	1.03	7.07	8.85	9,020
12:20	400	3.59	0.00	-129	27.9	1.03	7.07	8.59	11,020
12:25	400	3.59	0.00	-125	13.2	1.03	7.05	8.55	13,020
12:30	400	3.59	0.00	-123	5.3	1.03	7.06	8.59	15,020
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-S	12-26-18 / 12:31	Peristaltic Pump	Metals, CN

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL MW-T**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>		
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/26/18</u>		
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>~34°F, Overcast</u>		
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.4</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>		
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>		
<b>SCREENED INTERVAL [FT BGS]:</b> <u>5.9 – 11.9</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>4.00 / 12-26-18</u>		
<b>WELL DEPTH [FT BGS]:</b> <u>11.9</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~9.9</u>		
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>95</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>7.44</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
13:35	95	7.44	N/M						1,000
13:38	95	7.44	4.00	-45	756	0.485	7.65	7.21	1,285
13:43	95	7.85	3.85	-78	772	0.488	7.63	7.75	1,760
13:48	95	7.85	3.22	-87	746	0.458	7.62	7.87	2,235
13:53	95	7.85	2.75	-90	735	0.446	7.62	7.91	2,710
13:58	95	7.48	2.55	-91	626	0.448	7.60	7.94	3,185
14:03	95	7.48	2.56	-91	535	0.452	7.58	7.95	3,660
14:08	95	7.48	2.48	-92	543	0.454	7.56	7.96	4,135
14:13	95	7.48	2.27	-93	548	0.454	7.56	8.01	4,610
<b>SAMPLE OBSERVATIONS:</b> Cloudy/Clear - Sheen									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-T	12-26-18 / 14:15	Peristaltic Pump	VOCs, Metals, CN

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL TB-18**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>12/26/18</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b> <u>~34°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>0.0</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>4.5 – 11.5</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u><b>SWL / Date Measured</b> 7.64 / 12-26-18</u>
<b>WELL DEPTH [FT BGS]:</b> <u>11.5</u> (Do <b>NOT</b> Measure Well depth Prior To Purging And Sampling)	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.0</u>
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>
<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Horiba U-52</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>300</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>8.25</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
09:36	300	7.64	N/M						0
09:46	300	8.25	N/M						3,000
09:50	300	8.25	3.04	12	150	1.06	7.00	9.64	4,200
09:53	300	8.25	1.38	-59	75.3	1.06	7.00	10.55	5,100
10:00	300	8.25	1.34	-70	59.4	1.06	7.00	10.62	7,200
10:05	300	8.25	1.32	-76	61.1	1.07	7.00	10.62	8,700
10:10	300	8.25	1.26	-80	64.8	1.07	7.00	10.58	10,200
<b>SAMPLE OBSERVATIONS:</b> <u>Clear</u>									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
TB-18	12-26-18 / 10:15	Peristaltic Pump	VOCs

N/O = Not Observed  
N/M = Not Measured

**DAY ENVIRONMENTAL, INC.**

**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**

**WELL TB-11**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b>	<u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b>	<u>5529S-18</u>
<b>PROJECT NAME:</b>	<u>Weber Knapp Co.</u>	<b>DATE:</b>	<u>12/26/18</u>
<b>SAMPLE COLLECTOR(S):</b>	<u>C. Hampton / T. Roszak</u>	<b>WEATHER:</b>	<u>~34°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b>	<u>0.0</u>	<b>MEASURING POINT (for water levels):</b>	<u>Top of Casing</u>
<b>CASING TYPE:</b>	<u>PVC</u>	<b>WELL DIAMETER (INCHES):</b>	<u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b>	<u>5.3 – 11.3</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b>	<u><b>SWL / Date Measured</b> 8.55 / 12-26-18</u>
<b>WELL DEPTH [FT BGS]:</b>	<u>11.3</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b>	<u>~9.8</u>
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b>	<u>N/O</u>	<b>DNAPL:</b>	<u>N/M</u>
<b>OTHER OBSERVATIONS:</b>		<u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT			
<b>PUMP TYPE:</b>	<u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b>	<u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b>	<u>Horiba U-52</u>		
<b>STABILIZED PUMP RATE (ml/min):</b>	<u>220</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b>	<u>9.12</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
15:27	Start	8.69	N/M						0
15:41	220	9.12	3.65	89	>1,000	0.602	7.05	10.33	3,080
15:45	220	9.12	3.00	91	>1,000	0.605	7.03	10.69	3,960
15:50	220	9.12	2.94	91	640	0.605	7.03	10.79	5,060
15:55	220	9.12	2.76	91	322	0.613	7.03	10.82	6,160
16:00	220	9.12	2.68	92	150	0.615	7.03	10.91	7,260
16:05	220	9.12	2.45	92	153	0.616	7.02	10.86	8,360
16:10	220	9.12	2.27	92	111	0.617	7.02	10.83	9,460
16:15	220	9.12	2.19	92	145	0.617	7.02	10.88	10,560
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
TB-11	12-26-18 / 16:20	Peristaltic Pump	VOCs, SVOCs

N/O = Not Observed  
N/M = Not Measured

**JANUARY 2, 2019**  
**GROUNDWATER SAMPLING LOGS**



**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-C**

SECTION 1 - SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b>	<u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b>	<u>5529S-18</u>
<b>PROJECT NAME:</b>	<u>Weber Knapp Co.</u>	<b>DATE:</b>	<u>1/2/19</u>
<b>SAMPLE COLLECTOR(S):</b>	<u>C. Hampton</u>	<b>WEATHER:</b>	<u>Indoors</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b>	<u>N/M</u>	<b>MEASURING POINT (for water levels):</b>	<u>Top of Casing</u>
<b>CASING TYPE:</b>	<u>PVC</u>	<b>WELL DIAMETER (INCHES):</b>	<u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b>	<u>4.2 – 9.2</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b>	<u>SWL / Date Measured 4.39 / 1-2-19</u>
<b>WELL DEPTH [FT BGS]:</b>	<u>9.2</u>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b>	<u>~7.7</u>
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b>	<u>N/O</u>	<b>DNAPL:</b>	<u>N/M</u>
		<b>OTHER OBSERVATIONS:</b>	<u>None</u>

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b>	<u>Geotech Geopump™ - Peristaltic pump</u>
<b>WATER LEVEL METER:</b>	<u>Heron HOIL</u>
<b>WATER QUALITY METER(S):</b>	<u>Oakton: pH/ORP/EC/Temp</u>
<b>STABILIZED PUMP RATE (ml/min):</b>	<u>125</u>
<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b>	<u>5.34</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (uS/cm)	pH	Temp. (°C)	Total Vol. Pumped (ml)
07:20	Start	4.55	N/M						0
07:27	125	5.34	N/M						500
07:30	125	5.34	N/M	-73	N/M	380	6.72	16.8	875
07:35	125	5.34	N/M	-74	N/M	360	6.65	18.4	1,500
07:40	125	5.34	N/M	-77	N/M	340	6.61	18.7	2,125
07:45	125	5.34	N/M	-78	N/M	340	6.61	18.8	2,750
07:50	125	5.34	N/M	-79	N/M	340	6.61	18.8	3,375
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 – SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-C	1/2/19 @ 07:55	Peristaltic Pump	PFAs and 1,4-Dioxane

N/M = Not Measured  
N/O = Not Observed

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-H**

SECTION 1 – SITE AND WELL INFORMATION			
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>		<b>JOB #</b> <u>5529S-18</u>	
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>		<b>DATE:</b> <u>1/2/19</u>	
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton</u>		<b>WEATHER:</b> <u>Indoors</u>	
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>N/M</u>		<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>	
<b>CASING TYPE:</b> <u>PVC</u>		<b>WELL DIAMETER (INCHES):</b> <u>1"</u>	
<b>SCREENED INTERVAL [FT BGS]:</b> <u>5.8 – 11.8</u>		<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>4.56 / 1-2-19</u>	
<b>WELL DEPTH [FT BGS]:</b> <u>11.8</u>		<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.3</u>	
<b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>			
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>	<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Oakton: pH/ORP/EC/Temp</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>225</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>4.79</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (uS/cm)	pH	Temp. (C°)	Total Vol. Pumped (ml)
08:28	225	4.71	N/M						0
08:35	225	4.79	N/M	-74	N/M	270	6.78	20.6	1,575
08:40	225	4.79	N/M	-74	N/M	270	6.66	21.7	2,700
08:45	225	4.79	N/M	-77	N/M	260	6.66	21.8	3,825
08:50	225	4.79	N/M	-79	N/M	270	6.65	21.8	4,950
08:55	225	4.79	N/M	-80	N/M	260	6.65	21.8	6,075
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-H	1/2/19 @ 09:00	Peristaltic Pump	PFAs and 1,4-Dioxane

N/M = Not Measured  
N/O = Not Observed

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-P**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>1/2/19</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton</u>	<b>WEATHER:</b> <u>~30°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>N/M</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>6.0 – 16.0</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>7.04 / 1-2-19</u>
<b>WELL DEPTH [FT BGS]:</b> <u>16.0</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~14.5</u>
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u> <b>OTHER OBSERVATIONS:</b> <u>None</u>

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Oakton:pH/ORP/EC/Temp</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>300</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>7.24</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (uS/cm)	pH	Temp. (C°)	Total Vol. Pumped (ml)
10:46	300	7.20	N/M						0
10:49	300	7.24	N/M	-33	N/M	190	7.70	7.4	900
10:55	300	7.24	N/M	-36	N/M	190	7.60	9.8	2,700
11:00	300	7.24	N/M	-36	N/M	190	7.50	10.5	4,200
11:05	300	7.24	N/M	-38	N/M	190	7.44	10.9	5,700
11:10	300	7.24	N/M	-39	N/M	190	7.44	11.1	7,200
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-P	1/2/19 @ 11:15	Peristaltic Pump	PFAs and 1,4-Dioxane

N/M = Not Measured  
N/O = Not Observed

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-Q**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>1/2/19</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton</u>	<b>WEATHER:</b> <u>~30°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>N/M</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>2.9 – 11.9</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>7.32 / 1-2-19</u>
<b>WELL DEPTH [FT BGS]:</b> <u>11.9</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.4</u>
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u> <b>OTHER OBSERVATIONS:</b> <u>None</u>

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Oakton:pH/ORP/EC/Temp</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>425</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>7.63</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (uS/cm)	pH	Temp. (C°)	Total Vol. Pumped (ml)
09:30	425	7.48	N/M						0
09:35	425	7.63	N/M	-37	N/M	240	7.57	13.3	2,125
09:41	425	7.63	N/M	-64	N/M	230	7.20	13.2	4,675
09:46	425	7.63	N/M	-73	N/M	230	7.11	13.3	6,800
09:51	425	7.63	N/M	-78	N/M	230	7.06	13.2	8,925
09:56	425	7.63	N/M	-81	N/M	230	7.04	13.4	11,050
10:01	425	7.63	N/M	-74	N/M	230	7.04	13.2	13,175
<b>SAMPLE OBSERVATIONS:</b> Clear									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-Q	1/2/19 @ 10:05	Peristaltic Pump	PFAs and 1,4-Dioxane (Also MS/MSD and Duplicate)

N/M = Not Measured  
N/O = Not Observed

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-R**

SECTION 1 - SITE AND WELL INFORMATION	
<b>SITE LOCATION:</b> <u>415 and 441 Chandler St., Jamestown, NY</u>	<b>JOB #</b> <u>5529S-18</u>
<b>PROJECT NAME:</b> <u>Weber Knapp Co.</u>	<b>DATE:</b> <u>1/2/19</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Hampton</u>	<b>WEATHER:</b> <u>~30°F, Overcast</u>
<b>PID READING IN WELL HEADSPACE (PPM):</b> <u>N/M</u>	<b>MEASURING POINT (for water levels):</b> <u>Top of Casing</u>
<b>CASING TYPE:</b> <u>PVC</u>	<b>WELL DIAMETER (INCHES):</b> <u>1"</u>
<b>SCREENED INTERVAL [FT BGS]:</b> <u>6.0 – 12.0</u>	<b>INITIAL WATER LEVEL (SWL) [FT]:</b> <u>SWL / Date Measured</u> <u>3.43 / 1-2-19</u>
<b>WELL DEPTH [FT BGS]:</b> <u>12.0</u> <b>(Do NOT Measure Well depth Prior To Purging And Sampling)</b>	<b>DEPTH OF PUMP INTAKE [FT BGS]:</b> <u>~10.5</u>
<b>LNAPL:</b> <u>N/O</u>	<b>DNAPL:</b> <u>N/M</u>
<b>OTHER OBSERVATIONS:</b> <u>None</u>	

SECTION 2 – SAMPLING EQUIPMENT	
<b>PUMP TYPE:</b> <u>Geotech Geopump™ - Peristaltic pump</u>	<b>WATER LEVEL METER:</b> <u>Heron HO1L</u>
<b>WATER QUALITY METER(S):</b> <u>Oakton:pH/ORP/EC/Temp</u>	
<b>STABILIZED PUMP RATE (ml/min):</b> <u>375</u>	<b>STABILIZED DRAWDOWN WATER LEVEL [FT]:</b> <u>3.68</u>

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (uS/cm)	pH	Temp. (C°)	Total Vol. Pumped (ml)
11:44	375	3.62	N/M						0
11:48	375	3.68	N/M	7	N/M	270	7.28	7.7	1,500
11:53	375	3.68	N/M	-6	N/M	270	7.20	8.8	3,375
11:58	375	3.68	N/M	-20	N/M	270	7.15	9.2	5,250
12:03	375	3.68	N/M	-24	N/M	270	7.14	9.5	7,125
12:08	375	3.68	N/M	-30	N/M	270	7.15	9.5	9,000
12:13	375	3.68	N/M	-33	N/M	270	7.12	9.4	10,875
<b>SAMPLE OBSERVATIONS:</b> <u>Clear</u>									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-R	1/2/19 @ 12:15	Peristaltic Pump	PFAs and 1,4-Dioxane

N/M = Not Measured  
N/O = Not Observed



**APPENDIX G**  
**ANALYTICAL LABORATORY REPORTS**  
**AND**  
**CHAIN OF CUSTODY DOCUMENTATION**

**ALS ENVIRONMENTAL  
LABORATORY REPORT  
P1804628**



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2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
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F: +1 805 526 7270  
[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

September 13, 2018

Charles Hampton  
Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**RE: 441 Chandler Street / 5529S-18**

Dear Charles:

Enclosed are the results of the samples submitted to our laboratory on September 6, 2018. For your reference, these analyses have been assigned our service request number P1804628.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**



By Sue Anderson at 1:44 pm, Sep 13, 2018

Sue Anderson  
Project Manager



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[www.alsglobal.com](http://www.alsglobal.com)

Client: Day Environmental, Incorporated  
Project: 441 Chandler Street / 5529S-18

Service Request No: P1804628  
New York Lab ID: 11221

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## CASE NARRATIVE

The samples were received intact under chain of custody on September 6, 2018 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.1 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

---

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*



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[www.alsglobal.com](http://www.alsglobal.com)

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2016036
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1347317
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-005
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413-18-9
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 8-9
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.



# ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: Day Environmental, Incorporated  
 Project ID: 441 Chandler Street / 5529S-18

Service Request: P1804628

Date Received: 9/6/2018  
 Time Received: 09:15

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SSV-1	P1804628-001	Air	9/5/2018	14:25	SC02170	-3.84	3.72	X
SSV-2	P1804628-002	Air	9/5/2018	14:30	SC01873	-3.55	3.88	X
SSV-3	P1804628-003	Air	9/5/2018	14:26	SC00286	-4.17	4.22	X
SSV-4	P1804628-004	Air	9/5/2018	14:29	SC02197	-3.69	3.82	X
SSV-5	P1804628-005	Air	9/5/2018	14:31	SC01756	-3.76	3.86	X
SSV-6	P1804628-006	Air	9/5/2018	14:35	SC01745	-4.17	3.53	X



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Air - Chain of Custody Record & Analytical Service Request**

Requested Turnaround Time in Business Days (Surcharge please circle)  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10-Day-Standard

ALS Project No. **P1804628**  
 ALS Contact: **5 Day TAT**

Company Name & Address (Reporting Information) <b>Dwy Environmental, Inc.</b> 1563 Lyell Avenue Rochester, New York 14606		Project Name <b>441 Chandler Street</b>								
Project Manager <b>C. Hampton</b>		Project Number <b>5529S-18</b>								
Phone <b>585-454-0210</b>		P.O. # / Billing Information								
Email Address for Result Reporting <b>champton@daymail.net</b>		Sampler (Print & Sign) <b>Charles Hampton</b>								
Client Sample ID	Laboratory ID Number	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Analysis Method <b>VOCs XTO-5</b>	Comments e.g. Actual Preservative or specific instructions		
<b>SSV-1</b>	<b>2</b>	<b>9/5/18</b>	<b>14:25</b>	<b>SC02170</b>	<b>0A01429</b>	<b>-28.92</b>			<b>-6.48</b>	<b>X</b>
<b>SSV-2</b>	<b>3</b>	<b>9/5/18</b>	<b>14:30</b>	<b>SC01873</b>	<b>0A01035</b>	<b>-28.94</b>			<b>-5.68</b>	<b>X</b>
<b>SSV-3</b>	<b>4</b>	<b>9/5/18</b>	<b>14:26</b>	<b>SC00286</b>	<b>0A01413</b>	<b>-28.85</b>			<b>-6.82</b>	<b>X</b>
<b>SSV-4</b>	<b>5</b>	<b>9/5/18</b>	<b>14:29</b>	<b>SC02197</b>	<b>0A00322</b>	<b>-28.97</b>			<b>-6.41</b>	<b>X</b>
<b>SSV-5</b>	<b>6</b>	<b>9/5/18</b>	<b>14:31</b>	<b>SC01756</b>	<b>0A02032</b>	<b>-28.97</b>			<b>-6.46</b>	<b>X</b>
<b>SSV-6</b>	<b>6</b>	<b>9/5/18</b>	<b>14:35</b>	<b>SC01745</b>	<b>0A02061</b>	<b>-28.98</b>			<b>-6.97</b>	<b>X</b>
Report Tier Levels - please select Tier I - Results (Default in not specified) _____ Tier II (Results + QC Summaries) <input checked="" type="checkbox"/> _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Date Validation Package) 10% Surcharge _____		EDD required <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Type: <b>Standard</b> Units: _____		Chain of Custody Seal: (Circle) INTACT <input checked="" type="radio"/> BROKEN <input type="radio"/> ABSENT <input type="radio"/>		Project Requirements (MRLs, QAPP)				
Relinquished by: (Signature) <b>[Signature]</b>		Date: <b>9/5/18</b> Time: <b>-17:30</b>		Received by: (Signature) <b>[Signature]</b>		Date: <b>9/5/18</b> Time: <b>21:30</b>				
Relinquished by: (Signature) <b>[Signature]</b>		Date: <b>9/6/18</b> Time: <b>09:15</b>		Received by: (Signature) <b>[Signature]</b>		Date: <b>9/6/18</b> Time: <b>09:15</b>		Cooler / Blank Temperature °C		

**ALS Environmental  
Sample Acceptance Check Form**

Client: Day Environmental, Incorporated Work order: P1804628  
 Project: 441 Chandler Street / 5529S-18  
 Sample(s) received on: 9/6/18 Date opened: 9/6/18 by: ADAVID

*Note:* This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <b>Yes</b>                          | <b>No</b>                           | <b>N/A</b>                          |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1804628-001.01	6.0 L Source Can					
P1804628-002.01	6.0 L Source Can					
P1804628-003.01	6.0 L Source Can					
P1804628-004.01	6.0 L Source Can					
P1804628-005.01	6.0 L Source Can					
P1804628-006.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-1

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-001

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: SC02170

Initial Pressure (psig): -3.84      Final Pressure (psig): 3.72

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	590	ND	340	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	590	ND	120	
74-87-3	Chloromethane	ND	570	ND	270	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	580	ND	83	
75-01-4	Vinyl Chloride	ND	600	ND	240	
106-99-0	1,3-Butadiene	ND	590	ND	270	
74-83-9	Bromomethane	ND	570	ND	150	
75-00-3	Chloroethane	ND	580	ND	220	
64-17-5	Ethanol	ND	5,800	ND	3,100	
75-05-8	Acetonitrile	ND	590	ND	350	
107-02-8	Acrolein	ND	1,100	ND	490	
67-64-1	Acetone	ND	6,100	ND	2,600	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	600	ND	110	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	2,400	ND	970	
107-13-1	Acrylonitrile	ND	590	ND	270	
75-35-4	1,1-Dichloroethene	ND	610	ND	150	
75-09-2	Methylene Chloride	ND	610	ND	180	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	600	ND	190	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	600	ND	78	
75-15-0	Carbon Disulfide	ND	1,200	ND	400	
156-60-5	trans-1,2-Dichloroethene	ND	600	ND	150	
75-34-3	1,1-Dichloroethane	ND	590	ND	150	
1634-04-4	Methyl tert-Butyl Ether	ND	610	ND	170	
108-05-4	Vinyl Acetate	ND	6,000	ND	1,700	
78-93-3	2-Butanone (MEK)	ND	1,100	ND	380	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-1

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-001

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: SC02170

Initial Pressure (psig): -3.84      Final Pressure (psig): 3.72

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	<b>3,600</b>	600	<b>900</b>	150	
141-78-6	Ethyl Acetate	ND	1,200	ND	350	
110-54-3	n-Hexane	ND	610	ND	170	
67-66-3	Chloroform	<b>620</b>	610	<b>130</b>	130	
109-99-9	Tetrahydrofuran (THF)	ND	600	ND	200	
107-06-2	1,2-Dichloroethane	ND	600	ND	150	
71-55-6	1,1,1-Trichloroethane	ND	610	ND	110	
71-43-2	Benzene	ND	590	ND	180	
56-23-5	Carbon Tetrachloride	ND	590	ND	94	
110-82-7	Cyclohexane	ND	1,100	ND	330	
78-87-5	1,2-Dichloropropane	ND	610	ND	130	
75-27-4	Bromodichloromethane	ND	600	ND	90	
79-01-6	Trichloroethene	<b>110,000</b>	600	<b>20,000</b>	110	
123-91-1	1,4-Dioxane	ND	600	ND	170	
80-62-6	Methyl Methacrylate	ND	1,200	ND	300	
142-82-5	n-Heptane	ND	610	ND	150	
10061-01-5	cis-1,3-Dichloropropene	ND	630	ND	140	
108-10-1	4-Methyl-2-pentanone	ND	600	ND	150	
10061-02-6	trans-1,3-Dichloropropene	ND	600	ND	130	
79-00-5	1,1,2-Trichloroethane	ND	610	ND	110	
108-88-3	Toluene	ND	600	ND	160	
591-78-6	2-Hexanone	ND	610	ND	150	
124-48-1	Dibromochloromethane	ND	610	ND	72	
106-93-4	1,2-Dibromoethane	ND	610	ND	80	
123-86-4	n-Butyl Acetate	ND	610	ND	130	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 3 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-1

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-001

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: SC02170

Initial Pressure (psig): -3.84      Final Pressure (psig): 3.72

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	610	ND	130	
127-18-4	Tetrachloroethene	<b>800</b>	600	<b>120</b>	89	
108-90-7	Chlorobenzene	ND	600	ND	130	
100-41-4	Ethylbenzene	ND	590	ND	140	
179601-23-1	m,p-Xylenes	ND	1,200	ND	290	
75-25-2	Bromoform	ND	600	ND	58	
100-42-5	Styrene	ND	600	ND	140	
95-47-6	o-Xylene	ND	600	ND	140	
111-84-2	n-Nonane	ND	610	ND	120	
79-34-5	1,1,2,2-Tetrachloroethane	ND	600	ND	88	
98-82-8	Cumene	ND	600	ND	120	
80-56-8	alpha-Pinene	ND	590	ND	110	
103-65-1	n-Propylbenzene	ND	610	ND	120	
622-96-8	4-Ethyltoluene	ND	600	ND	120	
108-67-8	1,3,5-Trimethylbenzene	ND	600	ND	120	
95-63-6	1,2,4-Trimethylbenzene	ND	600	ND	120	
100-44-7	Benzyl Chloride	ND	1,200	ND	240	
541-73-1	1,3-Dichlorobenzene	ND	610	ND	100	
106-46-7	1,4-Dichlorobenzene	ND	610	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	610	ND	100	
5989-27-5	d-Limonene	ND	580	ND	100	
96-12-8	1,2-Dibromo-3-chloropropane	ND	590	ND	61	
120-82-1	1,2,4-Trichlorobenzene	ND	600	ND	81	
91-20-3	Naphthalene	ND	580	ND	110	
87-68-3	Hexachlorobutadiene	ND	600	ND	56	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-2

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-002

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.10 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC01873

Initial Pressure (psig): -3.55      Final Pressure (psig): 3.88

Container Dilution Factor: 1.67

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	
115-07-1	Propene	<b>14</b>	8.7	<b>8.2</b>	5.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	8.7	ND	1.8	
74-87-3	Chloromethane	ND	8.4	ND	4.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	8.5	ND	1.2	
75-01-4	Vinyl Chloride	ND	8.9	ND	3.5	
106-99-0	1,3-Butadiene	ND	8.7	ND	3.9	
74-83-9	Bromomethane	ND	8.4	ND	2.2	
75-00-3	Chloroethane	ND	8.5	ND	3.2	
64-17-5	Ethanol	ND	85	ND	45	
75-05-8	Acetonitrile	ND	8.7	ND	5.2	
107-02-8	Acrolein	ND	17	ND	7.3	
67-64-1	Acetone	<b>110</b>	90	<b>48</b>	38	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	8.9	ND	1.6	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	35	ND	14	
107-13-1	Acrylonitrile	ND	8.7	ND	4.0	
75-35-4	1,1-Dichloroethene	ND	9.0	ND	2.3	
75-09-2	Methylene Chloride	ND	9.0	ND	2.6	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	8.9	ND	2.8	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	8.9	ND	1.2	
75-15-0	Carbon Disulfide	ND	18	ND	5.9	
156-60-5	trans-1,2-Dichloroethene	ND	8.9	ND	2.2	
75-34-3	1,1-Dichloroethane	ND	8.7	ND	2.1	
1634-04-4	Methyl tert-Butyl Ether	ND	9.0	ND	2.5	
108-05-4	Vinyl Acetate	ND	89	ND	25	
78-93-3	2-Butanone (MEK)	<b>46</b>	17	<b>16</b>	5.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-2

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01873

Date Collected: 9/5/18

Date Received: 9/6/18

Date Analyzed: 9/13/18

Volume(s) Analyzed: 0.10 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -3.55      Final Pressure (psig): 3.88

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	8.9	ND	2.2	
141-78-6	Ethyl Acetate	ND	18	ND	5.1	
110-54-3	n-Hexane	<b>41</b>	9.0	<b>12</b>	2.6	
67-66-3	Chloroform	ND	9.0	ND	1.8	
109-99-9	Tetrahydrofuran (THF)	ND	8.9	ND	3.0	
107-06-2	1,2-Dichloroethane	ND	8.9	ND	2.2	
71-55-6	1,1,1-Trichloroethane	ND	9.0	ND	1.7	
71-43-2	Benzene	<b>13</b>	8.7	<b>4.1</b>	2.7	
56-23-5	Carbon Tetrachloride	ND	8.7	ND	1.4	
110-82-7	Cyclohexane	ND	17	ND	4.9	
78-87-5	1,2-Dichloropropane	ND	9.0	ND	2.0	
75-27-4	Bromodichloromethane	ND	8.9	ND	1.3	
79-01-6	Trichloroethene	<b>5,800</b>	44	<b>1,100</b>	8.2	<b>D</b>
123-91-1	1,4-Dioxane	ND	8.9	ND	2.5	
80-62-6	Methyl Methacrylate	ND	18	ND	4.5	
142-82-5	n-Heptane	<b>56</b>	9.0	<b>14</b>	2.2	
10061-01-5	cis-1,3-Dichloropropene	ND	9.4	ND	2.1	
108-10-1	4-Methyl-2-pentanone	<b>9.2</b>	8.9	<b>2.2</b>	2.2	
10061-02-6	trans-1,3-Dichloropropene	ND	8.9	ND	2.0	
79-00-5	1,1,2-Trichloroethane	ND	9.0	ND	1.7	
108-88-3	Toluene	<b>130</b>	8.9	<b>33</b>	2.3	
591-78-6	2-Hexanone	<b>10</b>	9.0	<b>2.5</b>	2.2	
124-48-1	Dibromochloromethane	ND	9.0	ND	1.1	
106-93-4	1,2-Dibromoethane	ND	9.0	ND	1.2	
123-86-4	n-Butyl Acetate	ND	9.0	ND	1.9	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-2

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-002

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.10 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC01873

Initial Pressure (psig): -3.55      Final Pressure (psig): 3.88

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	54	9.0	12	1.9	
127-18-4	Tetrachloroethene	15	8.9	2.3	1.3	
108-90-7	Chlorobenzene	ND	8.9	ND	1.9	
100-41-4	Ethylbenzene	ND	8.7	ND	2.0	
179601-23-1	m,p-Xylenes	24	18	5.5	4.2	
75-25-2	Bromoform	ND	8.9	ND	0.86	
100-42-5	Styrene	ND	8.9	ND	2.1	
95-47-6	o-Xylene	ND	8.9	ND	2.0	
111-84-2	n-Nonane	34	9.0	6.4	1.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.9	ND	1.3	
98-82-8	Cumene	ND	8.9	ND	1.8	
80-56-8	alpha-Pinene	ND	8.7	ND	1.6	
103-65-1	n-Propylbenzene	ND	9.0	ND	1.8	
622-96-8	4-Ethyltoluene	ND	8.9	ND	1.8	
108-67-8	1,3,5-Trimethylbenzene	ND	8.9	ND	1.8	
95-63-6	1,2,4-Trimethylbenzene	ND	8.9	ND	1.8	
100-44-7	Benzyl Chloride	ND	18	ND	3.5	
541-73-1	1,3-Dichlorobenzene	ND	9.0	ND	1.5	
106-46-7	1,4-Dichlorobenzene	ND	9.0	ND	1.5	
95-50-1	1,2-Dichlorobenzene	ND	9.0	ND	1.5	
5989-27-5	d-Limonene	ND	8.5	ND	1.5	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.7	ND	0.90	
120-82-1	1,2,4-Trichlorobenzene	ND	8.9	ND	1.2	
91-20-3	Naphthalene	ND	8.5	ND	1.6	
87-68-3	Hexachlorobutadiene	ND	8.9	ND	0.83	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-3

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-003

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SC00286

Initial Pressure (psig): -4.17      Final Pressure (psig): 4.22

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	3.1	0.94	1.8	0.54	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.94	0.46	0.19	
74-87-3	Chloromethane	ND	0.90	ND	0.44	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.92	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.95	ND	0.37	
106-99-0	1,3-Butadiene	ND	0.94	ND	0.42	
74-83-9	Bromomethane	ND	0.90	ND	0.23	
75-00-3	Chloroethane	ND	0.92	ND	0.35	
64-17-5	Ethanol	ND	9.2	ND	4.9	
75-05-8	Acetonitrile	2.2	0.94	1.3	0.56	
107-02-8	Acrolein	ND	1.8	ND	0.79	
67-64-1	Acetone	27	9.7	11	4.1	
75-69-4	Trichlorofluoromethane (CFC 11)	1.7	0.95	0.30	0.17	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	3.8	ND	1.5	
107-13-1	Acrylonitrile	ND	0.94	ND	0.43	
75-35-4	1,1-Dichloroethene	ND	0.97	ND	0.25	
75-09-2	Methylene Chloride	ND	0.97	ND	0.28	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.95	ND	0.30	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.95	ND	0.12	
75-15-0	Carbon Disulfide	ND	2.0	ND	0.64	
156-60-5	trans-1,2-Dichloroethene	ND	0.95	ND	0.24	
75-34-3	1,1-Dichloroethane	ND	0.94	ND	0.23	
1634-04-4	Methyl tert-Butyl Ether	ND	0.97	ND	0.27	
108-05-4	Vinyl Acetate	11	9.5	3.1	2.7	
78-93-3	2-Butanone (MEK)	32	1.8	11	0.61	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-3

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-003

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SC00286

Initial Pressure (psig): -4.17      Final Pressure (psig): 4.22

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.95	ND	0.24	
141-78-6	Ethyl Acetate	ND	2.0	ND	0.55	
110-54-3	n-Hexane	ND	0.97	ND	0.28	
67-66-3	Chloroform	<b>8.4</b>	0.97	<b>1.7</b>	0.20	
109-99-9	Tetrahydrofuran (THF)	ND	0.95	ND	0.32	
107-06-2	1,2-Dichloroethane	ND	0.95	ND	0.24	
71-55-6	1,1,1-Trichloroethane	<b>2.5</b>	0.97	<b>0.45</b>	0.18	
71-43-2	Benzene	ND	0.94	ND	0.29	
56-23-5	Carbon Tetrachloride	ND	0.94	ND	0.15	
110-82-7	Cyclohexane	ND	1.8	ND	0.52	
78-87-5	1,2-Dichloropropane	ND	0.97	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.95	ND	0.14	
79-01-6	Trichloroethene	<b>33</b>	0.95	<b>6.1</b>	0.18	
123-91-1	1,4-Dioxane	ND	0.95	ND	0.26	
80-62-6	Methyl Methacrylate	ND	2.0	ND	0.48	
142-82-5	n-Heptane	ND	0.97	ND	0.24	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	<b>20</b>	0.95	<b>4.8</b>	0.23	
10061-02-6	trans-1,3-Dichloropropene	ND	0.95	ND	0.21	
79-00-5	1,1,2-Trichloroethane	ND	0.97	ND	0.18	
108-88-3	Toluene	<b>84</b>	0.95	<b>22</b>	0.25	
591-78-6	2-Hexanone	<b>1.5</b>	0.97	<b>0.36</b>	0.24	
124-48-1	Dibromochloromethane	ND	0.97	ND	0.11	
106-93-4	1,2-Dibromoethane	ND	0.97	ND	0.13	
123-86-4	n-Butyl Acetate	ND	0.97	ND	0.20	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-3

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-003

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SC00286

Initial Pressure (psig): -4.17      Final Pressure (psig): 4.22

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.97	ND	0.21	
127-18-4	Tetrachloroethene	35	0.95	5.1	0.14	
108-90-7	Chlorobenzene	ND	0.95	ND	0.21	
100-41-4	Ethylbenzene	3.9	0.94	0.90	0.22	
179601-23-1	m,p-Xylenes	17	2.0	4.0	0.46	
75-25-2	Bromoform	ND	0.95	ND	0.092	
100-42-5	Styrene	2.3	0.95	0.54	0.22	
95-47-6	o-Xylene	5.8	0.95	1.3	0.22	
111-84-2	n-Nonane	ND	0.97	ND	0.19	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.95	ND	0.14	
98-82-8	Cumene	ND	0.95	ND	0.19	
80-56-8	alpha-Pinene	1.7	0.94	0.31	0.17	
103-65-1	n-Propylbenzene	1.3	0.97	0.26	0.20	
622-96-8	4-Ethyltoluene	1.9	0.95	0.39	0.19	
108-67-8	1,3,5-Trimethylbenzene	1.8	0.95	0.36	0.19	
95-63-6	1,2,4-Trimethylbenzene	6.5	0.95	1.3	0.19	
100-44-7	Benzyl Chloride	ND	2.0	ND	0.38	
541-73-1	1,3-Dichlorobenzene	ND	0.97	ND	0.16	
106-46-7	1,4-Dichlorobenzene	ND	0.97	ND	0.16	
95-50-1	1,2-Dichlorobenzene	ND	0.97	ND	0.16	
5989-27-5	d-Limonene	2.1	0.92	0.38	0.16	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.94	ND	0.097	
120-82-1	1,2,4-Trichlorobenzene	ND	0.95	ND	0.13	
91-20-3	Naphthalene	2.0	0.92	0.38	0.18	
87-68-3	Hexachlorobutadiene	ND	0.95	ND	0.089	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-4

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-004

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.050 Liter(s)

Test Notes:

0.0050 Liter(s)

Container ID: SC02197

Initial Pressure (psig): -3.69      Final Pressure (psig): 3.82

Container Dilution Factor: 1.68

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	
115-07-1	Propene	ND	17	ND	10	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	17	ND	3.5	
74-87-3	Chloromethane	ND	17	ND	8.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	17	ND	2.5	
75-01-4	Vinyl Chloride	ND	18	ND	7.0	
106-99-0	1,3-Butadiene	ND	17	ND	7.9	
74-83-9	Bromomethane	ND	17	ND	4.3	
75-00-3	Chloroethane	ND	17	ND	6.5	
64-17-5	Ethanol	ND	170	ND	91	
75-05-8	Acetonitrile	ND	17	ND	10	
107-02-8	Acrolein	ND	34	ND	15	
67-64-1	Acetone	ND	180	ND	76	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	18	ND	3.2	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	71	ND	29	
107-13-1	Acrylonitrile	ND	17	ND	8.1	
75-35-4	1,1-Dichloroethene	ND	18	ND	4.6	
75-09-2	Methylene Chloride	ND	18	ND	5.2	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	18	ND	5.7	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	18	ND	2.3	
75-15-0	Carbon Disulfide	ND	37	ND	12	
156-60-5	trans-1,2-Dichloroethene	ND	18	ND	4.5	
75-34-3	1,1-Dichloroethane	ND	17	ND	4.3	
1634-04-4	Methyl tert-Butyl Ether	ND	18	ND	5.0	
108-05-4	Vinyl Acetate	ND	180	ND	51	
78-93-3	2-Butanone (MEK)	ND	34	ND	11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-4

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-004

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.050 Liter(s)

Test Notes:

0.0050 Liter(s)

Container ID: SC02197

Initial Pressure (psig): -3.69      Final Pressure (psig): 3.82

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	22	18	5.6	4.5	
141-78-6	Ethyl Acetate	ND	37	ND	10	
110-54-3	n-Hexane	ND	18	ND	5.1	
67-66-3	Chloroform	ND	18	ND	3.7	
109-99-9	Tetrahydrofuran (THF)	ND	18	ND	6.0	
107-06-2	1,2-Dichloroethane	ND	18	ND	4.4	
71-55-6	1,1,1-Trichloroethane	19	18	3.4	3.3	
71-43-2	Benzene	ND	17	ND	5.5	
56-23-5	Carbon Tetrachloride	ND	17	ND	2.8	
110-82-7	Cyclohexane	ND	34	ND	9.8	
78-87-5	1,2-Dichloropropane	ND	18	ND	3.9	
75-27-4	Bromodichloromethane	ND	18	ND	2.7	
79-01-6	Trichloroethene	13,000	180	2,400	33	D
123-91-1	1,4-Dioxane	ND	18	ND	4.9	
80-62-6	Methyl Methacrylate	ND	37	ND	9.0	
142-82-5	n-Heptane	ND	18	ND	4.4	
10061-01-5	cis-1,3-Dichloropropene	ND	19	ND	4.1	
108-10-1	4-Methyl-2-pentanone	ND	18	ND	4.3	
10061-02-6	trans-1,3-Dichloropropene	ND	18	ND	3.9	
79-00-5	1,1,2-Trichloroethane	ND	18	ND	3.3	
108-88-3	Toluene	140	18	38	4.7	
591-78-6	2-Hexanone	ND	18	ND	4.4	
124-48-1	Dibromochloromethane	ND	18	ND	2.1	
106-93-4	1,2-Dibromoethane	ND	18	ND	2.4	
123-86-4	n-Butyl Acetate	ND	18	ND	3.8	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-4

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-004

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.050 Liter(s)

Test Notes:

0.0050 Liter(s)

Container ID: SC02197

Initial Pressure (psig): -3.69      Final Pressure (psig): 3.82

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	18	ND	3.9	
127-18-4	Tetrachloroethene	42	18	6.2	2.6	
108-90-7	Chlorobenzene	ND	18	ND	3.9	
100-41-4	Ethylbenzene	ND	17	ND	4.0	
179601-23-1	m,p-Xylenes	ND	37	ND	8.5	
75-25-2	Bromoform	ND	18	ND	1.7	
100-42-5	Styrene	ND	18	ND	4.2	
95-47-6	o-Xylene	ND	18	ND	4.1	
111-84-2	n-Nonane	ND	18	ND	3.5	
79-34-5	1,1,2,2-Tetrachloroethane	ND	18	ND	2.6	
98-82-8	Cumene	ND	18	ND	3.6	
80-56-8	alpha-Pinene	ND	17	ND	3.1	
103-65-1	n-Propylbenzene	ND	18	ND	3.7	
622-96-8	4-Ethyltoluene	ND	18	ND	3.6	
108-67-8	1,3,5-Trimethylbenzene	ND	18	ND	3.6	
95-63-6	1,2,4-Trimethylbenzene	ND	18	ND	3.6	
100-44-7	Benzyl Chloride	ND	37	ND	7.1	
541-73-1	1,3-Dichlorobenzene	ND	18	ND	3.0	
106-46-7	1,4-Dichlorobenzene	ND	18	ND	3.0	
95-50-1	1,2-Dichlorobenzene	ND	18	ND	3.0	
5989-27-5	d-Limonene	ND	17	ND	3.1	
96-12-8	1,2-Dibromo-3-chloropropane	ND	17	ND	1.8	
120-82-1	1,2,4-Trichlorobenzene	ND	18	ND	2.4	
91-20-3	Naphthalene	ND	17	ND	3.3	
87-68-3	Hexachlorobutadiene	ND	18	ND	1.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-5

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-005

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.0030 Liter(s)

Test Notes:

Container ID: SC01756

Initial Pressure (psig): -3.76      Final Pressure (psig): 3.86

Container Dilution Factor: 1.70

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	
115-07-1	Propene	ND	290	ND	170	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	290	ND	60	
74-87-3	Chloromethane	ND	280	ND	140	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	290	ND	41	
75-01-4	Vinyl Chloride	ND	300	ND	120	
106-99-0	1,3-Butadiene	ND	290	ND	130	
74-83-9	Bromomethane	ND	280	ND	73	
75-00-3	Chloroethane	ND	290	ND	110	
64-17-5	Ethanol	ND	2,900	ND	1,500	
75-05-8	Acetonitrile	ND	290	ND	180	
107-02-8	Acrolein	ND	570	ND	250	
67-64-1	Acetone	ND	3,100	ND	1,300	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	300	ND	53	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,200	ND	480	
107-13-1	Acrylonitrile	ND	290	ND	140	
75-35-4	1,1-Dichloroethene	ND	310	ND	77	
75-09-2	Methylene Chloride	ND	310	ND	88	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	300	ND	96	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	300	ND	39	
75-15-0	Carbon Disulfide	ND	620	ND	200	
156-60-5	trans-1,2-Dichloroethene	ND	300	ND	76	
75-34-3	1,1-Dichloroethane	ND	290	ND	73	
1634-04-4	Methyl tert-Butyl Ether	ND	310	ND	85	
108-05-4	Vinyl Acetate	ND	3,000	ND	850	
78-93-3	2-Butanone (MEK)	ND	570	ND	190	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-5

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-005

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.0030 Liter(s)

Test Notes:

Container ID: SC01756

Initial Pressure (psig): -3.76      Final Pressure (psig): 3.86

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	5,600	300	1,400	76	
141-78-6	Ethyl Acetate	ND	620	ND	170	
110-54-3	n-Hexane	1,900	310	530	87	
67-66-3	Chloroform	ND	310	ND	63	
109-99-9	Tetrahydrofuran (THF)	ND	300	ND	100	
107-06-2	1,2-Dichloroethane	ND	300	ND	74	
71-55-6	1,1,1-Trichloroethane	ND	310	ND	56	
71-43-2	Benzene	ND	290	ND	92	
56-23-5	Carbon Tetrachloride	ND	290	ND	47	
110-82-7	Cyclohexane	ND	570	ND	160	
78-87-5	1,2-Dichloropropane	ND	310	ND	66	
75-27-4	Bromodichloromethane	ND	300	ND	45	
79-01-6	Trichloroethene	44,000	300	8,200	56	
123-91-1	1,4-Dioxane	ND	300	ND	83	
80-62-6	Methyl Methacrylate	ND	620	ND	150	
142-82-5	n-Heptane	960	310	230	75	
10061-01-5	cis-1,3-Dichloropropene	ND	320	ND	70	
108-10-1	4-Methyl-2-pentanone	ND	300	ND	73	
10061-02-6	trans-1,3-Dichloropropene	ND	300	ND	66	
79-00-5	1,1,2-Trichloroethane	ND	310	ND	56	
108-88-3	Toluene	ND	300	ND	80	
591-78-6	2-Hexanone	ND	310	ND	75	
124-48-1	Dibromochloromethane	ND	310	ND	36	
106-93-4	1,2-Dibromoethane	ND	310	ND	40	
123-86-4	n-Butyl Acetate	ND	310	ND	64	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-5

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-005

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.0030 Liter(s)

Test Notes:

Container ID: SC01756

Initial Pressure (psig): -3.76      Final Pressure (psig): 3.86

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	320	310	69	66	
127-18-4	Tetrachloroethene	ND	300	ND	44	
108-90-7	Chlorobenzene	ND	300	ND	65	
100-41-4	Ethylbenzene	ND	290	ND	68	
179601-23-1	m,p-Xylenes	ND	620	ND	140	
75-25-2	Bromoform	ND	300	ND	29	
100-42-5	Styrene	ND	300	ND	71	
95-47-6	o-Xylene	ND	300	ND	69	
111-84-2	n-Nonane	ND	310	ND	58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	300	ND	44	
98-82-8	Cumene	ND	300	ND	61	
80-56-8	alpha-Pinene	ND	290	ND	53	
103-65-1	n-Propylbenzene	ND	310	ND	62	
622-96-8	4-Ethyltoluene	ND	300	ND	61	
108-67-8	1,3,5-Trimethylbenzene	ND	300	ND	61	
95-63-6	1,2,4-Trimethylbenzene	ND	300	ND	61	
100-44-7	Benzyl Chloride	ND	620	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	310	ND	51	
106-46-7	1,4-Dichlorobenzene	ND	310	ND	51	
95-50-1	1,2-Dichlorobenzene	ND	310	ND	51	
5989-27-5	d-Limonene	ND	290	ND	52	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	ND	30	
120-82-1	1,2,4-Trichlorobenzene	ND	300	ND	40	
91-20-3	Naphthalene	ND	290	ND	55	
87-68-3	Hexachlorobutadiene	ND	300	ND	28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-6

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-006

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: SC01745

Initial Pressure (psig): -4.17      Final Pressure (psig): 3.53

Container Dilution Factor: 1.73

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	
115-07-1	Propene	<b>2.9</b>	0.90	<b>1.7</b>	0.52	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>5.2</b>	0.90	<b>1.1</b>	0.18	
74-87-3	Chloromethane	ND	0.87	ND	0.42	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.88	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.92	ND	0.36	
106-99-0	1,3-Butadiene	ND	0.90	ND	0.41	
74-83-9	Bromomethane	ND	0.87	ND	0.22	
75-00-3	Chloroethane	ND	0.88	ND	0.33	
64-17-5	Ethanol	ND	8.8	ND	4.7	
75-05-8	Acetonitrile	ND	0.90	ND	0.54	
107-02-8	Acrolein	ND	1.7	ND	0.75	
67-64-1	Acetone	<b>26</b>	9.3	<b>11</b>	3.9	
75-69-4	Trichlorofluoromethane (CFC 11)	<b>1.4</b>	0.92	<b>0.24</b>	0.16	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	3.6	ND	1.5	
107-13-1	Acrylonitrile	ND	0.90	ND	0.41	
75-35-4	1,1-Dichloroethene	ND	0.93	ND	0.24	
75-09-2	Methylene Chloride	ND	0.93	ND	0.27	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.92	ND	0.29	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.92	ND	0.12	
75-15-0	Carbon Disulfide	<b>8.0</b>	1.9	<b>2.6</b>	0.61	
156-60-5	trans-1,2-Dichloroethene	ND	0.92	ND	0.23	
75-34-3	1,1-Dichloroethane	ND	0.90	ND	0.22	
1634-04-4	Methyl tert-Butyl Ether	ND	0.93	ND	0.26	
108-05-4	Vinyl Acetate	ND	9.2	ND	2.6	
78-93-3	2-Butanone (MEK)	<b>33</b>	1.7	<b>11</b>	0.59	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-6

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: SC01745

Date Collected: 9/5/18

Date Received: 9/6/18

Date Analyzed: 9/13/18

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -4.17      Final Pressure (psig): 3.53

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	2.0	0.92	0.50	0.23	
141-78-6	Ethyl Acetate	ND	1.9	ND	0.53	
110-54-3	n-Hexane	32	0.93	9.2	0.27	
67-66-3	Chloroform	ND	0.93	ND	0.19	
109-99-9	Tetrahydrofuran (THF)	ND	0.92	ND	0.31	
107-06-2	1,2-Dichloroethane	ND	0.92	ND	0.23	
71-55-6	1,1,1-Trichloroethane	ND	0.93	ND	0.17	
71-43-2	Benzene	10	0.90	3.2	0.28	
56-23-5	Carbon Tetrachloride	ND	0.90	ND	0.14	
110-82-7	Cyclohexane	11	1.7	3.2	0.50	
78-87-5	1,2-Dichloropropane	ND	0.93	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.92	ND	0.14	
79-01-6	Trichloroethene	320	9.2	59	1.7	D
123-91-1	1,4-Dioxane	ND	0.92	ND	0.25	
80-62-6	Methyl Methacrylate	ND	1.9	ND	0.46	
142-82-5	n-Heptane	21	0.93	5.2	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	ND	0.21	
108-10-1	4-Methyl-2-pentanone	1.2	0.92	0.29	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	0.92	ND	0.20	
79-00-5	1,1,2-Trichloroethane	1.1	0.93	0.20	0.17	
108-88-3	Toluene	120	0.92	33	0.24	
591-78-6	2-Hexanone	ND	0.93	ND	0.23	
124-48-1	Dibromochloromethane	ND	0.93	ND	0.11	
106-93-4	1,2-Dibromoethane	ND	0.93	ND	0.12	
123-86-4	n-Butyl Acetate	ND	0.93	ND	0.20	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** SSV-6

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P1804628-006

Test Code: EPA TO-15

Date Collected: 9/5/18

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/6/18

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: SC01745

Initial Pressure (psig): -4.17      Final Pressure (psig): 3.53

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	16	0.93	3.4	0.20	
127-18-4	Tetrachloroethene	6.2	0.92	0.91	0.14	
108-90-7	Chlorobenzene	ND	0.92	ND	0.20	
100-41-4	Ethylbenzene	7.7	0.90	1.8	0.21	
179601-23-1	m,p-Xylenes	35	1.9	8.2	0.44	
75-25-2	Bromoform	ND	0.92	ND	0.089	
100-42-5	Styrene	3.2	0.92	0.76	0.22	
95-47-6	o-Xylene	11	0.92	2.6	0.21	
111-84-2	n-Nonane	11	0.93	2.1	0.18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.92	ND	0.13	
98-82-8	Cumene	ND	0.92	ND	0.19	
80-56-8	alpha-Pinene	2.3	0.90	0.41	0.16	
103-65-1	n-Propylbenzene	1.9	0.93	0.39	0.19	
622-96-8	4-Ethyltoluene	2.7	0.92	0.55	0.19	
108-67-8	1,3,5-Trimethylbenzene	3.1	0.92	0.64	0.19	
95-63-6	1,2,4-Trimethylbenzene	8.4	0.92	1.7	0.19	
100-44-7	Benzyl Chloride	ND	1.9	ND	0.37	
541-73-1	1,3-Dichlorobenzene	ND	0.93	ND	0.16	
106-46-7	1,4-Dichlorobenzene	ND	0.93	ND	0.16	
95-50-1	1,2-Dichlorobenzene	ND	0.93	ND	0.16	
5989-27-5	d-Limonene	2.2	0.88	0.39	0.16	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.90	ND	0.093	
120-82-1	1,2,4-Trichlorobenzene	ND	0.92	ND	0.12	
91-20-3	Naphthalene	1.5	0.88	0.29	0.17	
87-68-3	Hexachlorobutadiene	ND	0.92	ND	0.086	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Day Environmental, Incorporated

**Client Sample ID:** Method Blank

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180912-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	
115-07-1	Propene	ND	0.52	ND	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
74-87-3	Chloromethane	ND	0.50	ND	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.51	ND	0.073	
75-01-4	Vinyl Chloride	ND	0.53	ND	0.21	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
64-17-5	Ethanol	ND	5.1	ND	2.7	
75-05-8	Acetonitrile	ND	0.52	ND	0.31	
107-02-8	Acrolein	ND	1.0	ND	0.44	
67-64-1	Acetone	ND	5.4	ND	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.53	ND	0.094	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	2.1	ND	0.85	
107-13-1	Acrylonitrile	ND	0.52	ND	0.24	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
75-09-2	Methylene Chloride	ND	0.54	ND	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.53	ND	0.069	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.52	ND	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.3	ND	1.5	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Method Blank

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180912-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.53	ND	0.13	
141-78-6	Ethyl Acetate	ND	1.1	ND	0.31	
110-54-3	n-Hexane	ND	0.54	ND	0.15	
67-66-3	Chloroform	ND	0.54	ND	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	0.53	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.54	ND	0.099	
71-43-2	Benzene	ND	0.52	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.52	ND	0.083	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.54	ND	0.12	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
79-01-6	Trichloroethene	ND	0.53	ND	0.099	
123-91-1	1,4-Dioxane	ND	0.53	ND	0.15	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
142-82-5	n-Heptane	ND	0.54	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.56	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	0.53	ND	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	0.53	ND	0.12	
79-00-5	1,1,2-Trichloroethane	ND	0.54	ND	0.099	
108-88-3	Toluene	ND	0.53	ND	0.14	
591-78-6	2-Hexanone	ND	0.54	ND	0.13	
124-48-1	Dibromochloromethane	ND	0.54	ND	0.063	
106-93-4	1,2-Dibromoethane	ND	0.54	ND	0.070	
123-86-4	n-Butyl Acetate	ND	0.54	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 3 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Method Blank

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180912-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 9/12/18

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.54	ND	0.12	
127-18-4	Tetrachloroethene	ND	0.53	ND	0.078	
108-90-7	Chlorobenzene	ND	0.53	ND	0.12	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.53	ND	0.051	
100-42-5	Styrene	ND	0.53	ND	0.12	
95-47-6	o-Xylene	ND	0.53	ND	0.12	
111-84-2	n-Nonane	ND	0.54	ND	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	ND	0.077	
98-82-8	Cumene	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.52	ND	0.093	
103-65-1	n-Propylbenzene	ND	0.54	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.53	ND	0.11	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.54	ND	0.090	
106-46-7	1,4-Dichlorobenzene	ND	0.54	ND	0.090	
95-50-1	1,2-Dichlorobenzene	ND	0.54	ND	0.090	
5989-27-5	d-Limonene	ND	0.51	ND	0.092	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.52	ND	0.054	
120-82-1	1,2,4-Trichlorobenzene	ND	0.53	ND	0.071	
91-20-3	Naphthalene	ND	0.51	ND	0.097	
87-68-3	Hexachlorobutadiene	ND	0.53	ND	0.050	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Method Blank

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180913-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 9/13/18

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	
115-07-1	Propene	ND	0.52	ND	0.30	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
74-87-3	Chloromethane	ND	0.50	ND	0.24	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.51	ND	0.073	
75-01-4	Vinyl Chloride	ND	0.53	ND	0.21	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
74-83-9	Bromomethane	ND	0.50	ND	0.13	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
64-17-5	Ethanol	ND	5.1	ND	2.7	
75-05-8	Acetonitrile	ND	0.52	ND	0.31	
107-02-8	Acrolein	ND	1.0	ND	0.44	
67-64-1	Acetone	ND	5.4	ND	2.3	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.53	ND	0.094	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	2.1	ND	0.85	
107-13-1	Acrylonitrile	ND	0.52	ND	0.24	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
75-09-2	Methylene Chloride	ND	0.54	ND	0.16	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.53	ND	0.069	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
75-34-3	1,1-Dichloroethane	ND	0.52	ND	0.13	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	ND	0.15	
108-05-4	Vinyl Acetate	ND	5.3	ND	1.5	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Method Blank

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180913-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 9/13/18

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.53	ND	0.13	
141-78-6	Ethyl Acetate	ND	1.1	ND	0.31	
110-54-3	n-Hexane	ND	0.54	ND	0.15	
67-66-3	Chloroform	ND	0.54	ND	0.11	
109-99-9	Tetrahydrofuran (THF)	ND	0.53	ND	0.18	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.54	ND	0.099	
71-43-2	Benzene	ND	0.52	ND	0.16	
56-23-5	Carbon Tetrachloride	ND	0.52	ND	0.083	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	0.54	ND	0.12	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
79-01-6	Trichloroethene	ND	0.53	ND	0.099	
123-91-1	1,4-Dioxane	ND	0.53	ND	0.15	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
142-82-5	n-Heptane	ND	0.54	ND	0.13	
10061-01-5	cis-1,3-Dichloropropene	ND	0.56	ND	0.12	
108-10-1	4-Methyl-2-pentanone	ND	0.53	ND	0.13	
10061-02-6	trans-1,3-Dichloropropene	ND	0.53	ND	0.12	
79-00-5	1,1,2-Trichloroethane	ND	0.54	ND	0.099	
108-88-3	Toluene	ND	0.53	ND	0.14	
591-78-6	2-Hexanone	ND	0.54	ND	0.13	
124-48-1	Dibromochloromethane	ND	0.54	ND	0.063	
106-93-4	1,2-Dibromoethane	ND	0.54	ND	0.070	
123-86-4	n-Butyl Acetate	ND	0.54	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 3 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Method Blank

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180913-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 9/13/18

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.54	ND	0.12	
127-18-4	Tetrachloroethene	ND	0.53	ND	0.078	
108-90-7	Chlorobenzene	ND	0.53	ND	0.12	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
75-25-2	Bromoform	ND	0.53	ND	0.051	
100-42-5	Styrene	ND	0.53	ND	0.12	
95-47-6	o-Xylene	ND	0.53	ND	0.12	
111-84-2	n-Nonane	ND	0.54	ND	0.10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	ND	0.077	
98-82-8	Cumene	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.52	ND	0.093	
103-65-1	n-Propylbenzene	ND	0.54	ND	0.11	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
95-63-6	1,2,4-Trimethylbenzene	ND	0.53	ND	0.11	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	0.54	ND	0.090	
106-46-7	1,4-Dichlorobenzene	ND	0.54	ND	0.090	
95-50-1	1,2-Dichlorobenzene	ND	0.54	ND	0.090	
5989-27-5	d-Limonene	ND	0.51	ND	0.092	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.52	ND	0.054	
120-82-1	1,2,4-Trichlorobenzene	ND	0.53	ND	0.071	
91-20-3	Naphthalene	ND	0.51	ND	0.097	
87-68-3	Hexachlorobutadiene	ND	0.53	ND	0.050	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** Day Environmental, Incorporated  
**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sample Type: 6.0 L Summa Canister(s)  
 Test Notes:

Date(s) Collected: 9/5/18  
 Date(s) Received: 9/6/18  
 Date(s) Analyzed: 9/12 - 9/13/18

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P180912-MB	117	100	99	70-130	
Method Blank	P180913-MB	117	96	97	70-130	
Lab Control Sample	P180912-LCS	107	100	102	70-130	
Lab Control Sample	P180913-LCS	104	97	99	70-130	
SSV-1	P1804628-001	97	99	97	70-130	
SSV-2	P1804628-002	99	100	95	70-130	
SSV-3	P1804628-003	107	98	97	70-130	
SSV-4	P1804628-004	105	100	98	70-130	
SSV-5	P1804628-005	102	98	97	70-130	
SSV-6	P1804628-006	99	99	100	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.



# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** Day Environmental, Incorporated  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628  
 ALS Sample ID: P180912-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sample Type: 6.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 9/12/18  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	211	196	93	54-133	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	192	91	64-115	
74-87-3	Chloromethane	211	204	97	47-140	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	184	87	60-112	
75-01-4	Vinyl Chloride	214	199	93	63-127	
106-99-0	1,3-Butadiene	210	205	98	57-149	
74-83-9	Bromomethane	212	215	101	63-132	
75-00-3	Chloroethane	214	196	92	68-129	
64-17-5	Ethanol	1,020	1020	100	62-131	
75-05-8	Acetonitrile	206	199	97	56-136	
107-02-8	Acrolein	205	168	82	60-132	
67-64-1	Acetone	1,060	1000	94	63-124	
75-69-4	Trichlorofluoromethane (CFC 11)	211	184	87	65-113	
67-63-0	2-Propanol (Isopropyl Alcohol)	413	444	108	62-135	
107-13-1	Acrylonitrile	207	190	92	68-138	
75-35-4	1,1-Dichloroethene	218	190	87	72-118	
75-09-2	Methylene Chloride	217	196	90	67-116	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	216	224	104	61-143	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	203	94	68-113	
75-15-0	Carbon Disulfide	218	197	90	68-120	
156-60-5	trans-1,2-Dichloroethene	214	210	98	71-125	
75-34-3	1,1-Dichloroethane	216	200	93	68-118	
1634-04-4	Methyl tert-Butyl Ether	214	209	98	60-123	
108-05-4	Vinyl Acetate	1,060	1170	110	73-135	
78-93-3	2-Butanone (MEK)	208	210	101	70-129	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Lab Control Sample

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180912-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	211	208	99	69-121	
141-78-6	Ethyl Acetate	436	437	100	66-140	
110-54-3	n-Hexane	216	206	95	61-124	
67-66-3	Chloroform	217	205	94	69-113	
109-99-9	Tetrahydrofuran (THF)	216	212	98	66-121	
107-06-2	1,2-Dichloroethane	215	209	97	62-120	
71-55-6	1,1,1-Trichloroethane	215	196	91	65-116	
71-43-2	Benzene	211	186	88	66-111	
56-23-5	Carbon Tetrachloride	212	205	97	64-122	
110-82-7	Cyclohexane	416	384	92	69-115	
78-87-5	1,2-Dichloropropane	216	195	90	69-121	
75-27-4	Bromodichloromethane	215	206	96	69-123	
79-01-6	Trichloroethene	213	185	87	69-112	
123-91-1	1,4-Dioxane	214	209	98	74-123	
80-62-6	Methyl Methacrylate	431	403	94	75-125	
142-82-5	n-Heptane	215	198	92	68-118	
10061-01-5	cis-1,3-Dichloropropene	214	206	96	74-129	
108-10-1	4-Methyl-2-pentanone	209	217	104	66-138	
10061-02-6	trans-1,3-Dichloropropene	213	210	99	75-130	
79-00-5	1,1,2-Trichloroethane	215	199	93	73-117	
108-88-3	Toluene	212	182	86	66-114	
591-78-6	2-Hexanone	214	214	100	58-146	
124-48-1	Dibromochloromethane	213	206	97	67-130	
106-93-4	1,2-Dibromoethane	216	198	92	70-127	
123-86-4	n-Butyl Acetate	219	208	95	62-140	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Lab Control Sample

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180912-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/12/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	217	200	92	65-121	
127-18-4	Tetrachloroethene	213	190	89	62-119	
108-90-7	Chlorobenzene	215	189	88	66-115	
100-41-4	Ethylbenzene	212	188	89	69-117	
179601-23-1	m,p-Xylenes	426	386	91	67-117	
75-25-2	Bromoform	213	214	100	67-135	
100-42-5	Styrene	212	205	97	70-128	
95-47-6	o-Xylene	214	192	90	67-118	
111-84-2	n-Nonane	215	202	94	61-127	
79-34-5	1,1,2,2-Tetrachloroethane	214	202	94	70-125	
98-82-8	Cumene	214	190	89	68-116	
80-56-8	alpha-Pinene	211	205	97	69-122	
103-65-1	n-Propylbenzene	218	197	90	70-118	
622-96-8	4-Ethyltoluene	214	204	95	69-124	
108-67-8	1,3,5-Trimethylbenzene	214	191	89	65-117	
95-63-6	1,2,4-Trimethylbenzene	215	196	91	67-124	
100-44-7	Benzyl Chloride	217	233	107	75-142	
541-73-1	1,3-Dichlorobenzene	216	203	94	70-124	
106-46-7	1,4-Dichlorobenzene	216	201	93	63-124	
95-50-1	1,2-Dichlorobenzene	216	202	94	66-125	
5989-27-5	d-Limonene	211	215	102	64-135	
96-12-8	1,2-Dibromo-3-chloropropane	209	232	111	73-136	
120-82-1	1,2,4-Trichlorobenzene	214	234	109	70-141	
91-20-3	Naphthalene	203	228	112	71-146	
87-68-3	Hexachlorobutadiene	209	192	92	63-126	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** Day Environmental, Incorporated  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628  
 ALS Sample ID: P180913-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sample Type: 6.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 9/13/18  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	211	195	92	54-133	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	187	89	64-115	
74-87-3	Chloromethane	211	208	99	47-140	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	183	87	60-112	
75-01-4	Vinyl Chloride	214	203	95	63-127	
106-99-0	1,3-Butadiene	210	202	96	57-149	
74-83-9	Bromomethane	212	206	97	63-132	
75-00-3	Chloroethane	214	195	91	68-129	
64-17-5	Ethanol	1,020	1040	102	62-131	
75-05-8	Acetonitrile	206	204	99	56-136	
107-02-8	Acrolein	205	164	80	60-132	
67-64-1	Acetone	1,060	992	94	63-124	
75-69-4	Trichlorofluoromethane (CFC 11)	211	180	85	65-113	
67-63-0	2-Propanol (Isopropyl Alcohol)	413	441	107	62-135	
107-13-1	Acrylonitrile	207	191	92	68-138	
75-35-4	1,1-Dichloroethene	218	186	85	72-118	
75-09-2	Methylene Chloride	217	193	89	67-116	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	216	234	108	61-143	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	187	87	68-113	
75-15-0	Carbon Disulfide	218	197	90	68-120	
156-60-5	trans-1,2-Dichloroethene	214	201	94	71-125	
75-34-3	1,1-Dichloroethane	216	196	91	68-118	
1634-04-4	Methyl tert-Butyl Ether	214	198	93	60-123	
108-05-4	Vinyl Acetate	1,060	1170	110	73-135	
78-93-3	2-Butanone (MEK)	208	201	97	70-129	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Lab Control Sample

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180913-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	211	201	95	69-121	
141-78-6	Ethyl Acetate	436	436	100	66-140	
110-54-3	n-Hexane	216	205	95	61-124	
67-66-3	Chloroform	217	194	89	69-113	
109-99-9	Tetrahydrofuran (THF)	216	200	93	66-121	
107-06-2	1,2-Dichloroethane	215	199	93	62-120	
71-55-6	1,1,1-Trichloroethane	215	193	90	65-116	
71-43-2	Benzene	211	188	89	66-111	
56-23-5	Carbon Tetrachloride	212	202	95	64-122	
110-82-7	Cyclohexane	416	390	94	69-115	
78-87-5	1,2-Dichloropropane	216	202	94	69-121	
75-27-4	Bromodichloromethane	215	208	97	69-123	
79-01-6	Trichloroethene	213	183	86	69-112	
123-91-1	1,4-Dioxane	214	211	99	74-123	
80-62-6	Methyl Methacrylate	431	397	92	75-125	
142-82-5	n-Heptane	215	202	94	68-118	
10061-01-5	cis-1,3-Dichloropropene	214	211	99	74-129	
108-10-1	4-Methyl-2-pentanone	209	226	108	66-138	
10061-02-6	trans-1,3-Dichloropropene	213	213	100	75-130	
79-00-5	1,1,2-Trichloroethane	215	198	92	73-117	
108-88-3	Toluene	212	175	83	66-114	
591-78-6	2-Hexanone	214	217	101	58-146	
124-48-1	Dibromochloromethane	213	196	92	67-130	
106-93-4	1,2-Dibromoethane	216	190	88	70-127	
123-86-4	n-Butyl Acetate	219	210	96	62-140	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** Day Environmental, Incorporated

**Client Sample ID:** Lab Control Sample

**Client Project ID:** 441 Chandler Street / 5529S-18

ALS Project ID: P1804628

ALS Sample ID: P180913-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/13/18

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	217	203	94	65-121	
127-18-4	Tetrachloroethene	213	177	83	62-119	
108-90-7	Chlorobenzene	215	180	84	66-115	
100-41-4	Ethylbenzene	212	181	85	69-117	
179601-23-1	m,p-Xylenes	426	371	87	67-117	
75-25-2	Bromoform	213	202	95	67-135	
100-42-5	Styrene	212	197	93	70-128	
95-47-6	o-Xylene	214	186	87	67-118	
111-84-2	n-Nonane	215	206	96	61-127	
79-34-5	1,1,2,2-Tetrachloroethane	214	199	93	70-125	
98-82-8	Cumene	214	182	85	68-116	
80-56-8	alpha-Pinene	211	198	94	69-122	
103-65-1	n-Propylbenzene	218	191	88	70-118	
622-96-8	4-Ethyltoluene	214	197	92	69-124	
108-67-8	1,3,5-Trimethylbenzene	214	182	85	65-117	
95-63-6	1,2,4-Trimethylbenzene	215	190	88	67-124	
100-44-7	Benzyl Chloride	217	227	105	75-142	
541-73-1	1,3-Dichlorobenzene	216	192	89	70-124	
106-46-7	1,4-Dichlorobenzene	216	192	89	63-124	
95-50-1	1,2-Dichlorobenzene	216	193	89	66-125	
5989-27-5	d-Limonene	211	216	102	64-135	
96-12-8	1,2-Dibromo-3-chloropropane	209	219	105	73-136	
120-82-1	1,2,4-Trichlorobenzene	214	224	105	70-141	
91-20-3	Naphthalene	203	219	108	71-146	
87-68-3	Hexachlorobutadiene	209	182	87	63-126	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



**EUROFINS SPECTRUM ANALYTICAL  
LABORATORY REPORT  
SC50096**

## Laboratory Report SC50096

Day Environmental, Inc.  
 1563 Lyell Avenue  
 Rochester, NY 14606  
 Attn: Charles Hampton

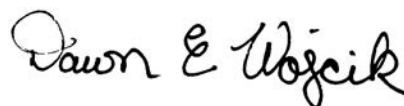
Project: 441 Chandler St - Jamestown, NY  
 Project #: 5529S-18

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 17 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.

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*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:** SC50096  
**Project:** 441 Chandler St - Jamestown, NY  
**Project Number:** 5529S-18

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC50096-01	CFS-A (0-2")	Concrete	05-Sep-18 14:30	06-Sep-18 17:21
SC50096-02	CFS-A (2-6")	Concrete	05-Sep-18 14:30	06-Sep-18 17:21
SC50096-03	CFS-B (0-1.75")	Concrete	05-Sep-18 15:30	06-Sep-18 17:21
SC50096-04	CFS-B (5.5-9")	Concrete	05-Sep-18 15:30	06-Sep-18 17:21
SC50096-05	CFS-C (0-2")	Concrete	05-Sep-18 14:00	06-Sep-18 17:21
SC50096-06	CFS-C (7.5-10")	Concrete	05-Sep-18 14:00	06-Sep-18 17:21
SC50096-07	CFS-D (0-2")	Concrete	05-Sep-18 15:00	06-Sep-18 17:21
SC50096-08	CFS-D (4-5.5")	Concrete	05-Sep-18 15:00	06-Sep-18 17:21
SC50096-09	CFS-E (0-2")	Concrete	05-Sep-18 12:25	06-Sep-18 17:21
SC50096-10	CFS-E (2-3.5")	Concrete	05-Sep-18 12:25	06-Sep-18 17:21
SC50096-11	CFS-F (0-2")	Concrete	05-Sep-18 16:00	06-Sep-18 17:21
SC50096-12	CFS-F (2-4.5")	Concrete	05-Sep-18 16:00	06-Sep-18 17:21

**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 2.2 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.

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

**SW846 6010C**

**Laboratory Control Samples:**

1812374 SRM/SRMD

---

Arsenic percent recoveries (91/83) are outside individual acceptance criteria (83.2-116.8), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

- CFS-A (0-2")
- CFS-A (2-6")
- CFS-B (0-1.75")
- CFS-B (5.5-9")
- CFS-C (0-2")
- CFS-C (7.5-10")
- CFS-D (0-2")
- CFS-D (4-5.5")
- CFS-E (0-2")
- CFS-E (2-3.5")
- CFS-F (0-2")
- CFS-F (2-4.5")

Cadmium percent recoveries (88/79) are outside individual acceptance criteria (83.4-116.6), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

- CFS-A (0-2")
- CFS-A (2-6")
- CFS-B (0-1.75")
- CFS-B (5.5-9")
- CFS-C (0-2")
- CFS-C (7.5-10")
- CFS-D (0-2")
- CFS-D (4-5.5")
- CFS-E (0-2")
- CFS-E (2-3.5")
- CFS-F (0-2")
- CFS-F (2-4.5")

**SW846 6010C**

**Laboratory Control Samples:**

1812374 SRM/SRMD

---

Lead percent recoveries (87/78) are outside individual acceptance criteria (83-117.1), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

- CFS-A (0-2")
- CFS-A (2-6")
- CFS-B (0-1.75")
- CFS-B (5.5-9")
- CFS-C (0-2")
- CFS-C (7.5-10")
- CFS-D (0-2")
- CFS-D (4-5.5")
- CFS-E (0-2")
- CFS-E (2-3.5")
- CFS-F (0-2")
- CFS-F (2-4.5")

## Sample Acceptance Check Form

Client: Day Environmental, Inc.  
 Project: 441 Chandler St - Jamestown, NY / 5529S-18  
 Work Order: SC50096  
 Sample(s) received on: 9/6/2018

*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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



### Summary of Hits

Lab ID: SC50096-01

Client ID: CFS-A (0-2")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.82		1.47	mg/kg	SW846 6010C
Barium	43.2		0.982	mg/kg	SW846 6010C
Cadmium	0.656		0.491	mg/kg	SW846 6010C
Chromium	79.1		0.982	mg/kg	SW846 6010C
Lead	8.74		1.47	mg/kg	SW846 6010C
Silver	1.70		1.47	mg/kg	SW846 6010C
Mercury	0.0098	J	0.0297	mg/kg	SW846 7471B
Cyanide (total)	1.49		0.358	mg/kg	SW846 9012B

Lab ID: SC50096-02

Client ID: CFS-A (2-6")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	6.64		1.52	mg/kg	SW846 6010C
Barium	37.0		1.01	mg/kg	SW846 6010C
Cadmium	0.909		0.506	mg/kg	SW846 6010C
Chromium	25.6		1.01	mg/kg	SW846 6010C
Lead	6.53		1.52	mg/kg	SW846 6010C

Lab ID: SC50096-03

Client ID: CFS-B (0-1.75")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	3.78		1.57	mg/kg	SW846 6010C
Barium	36.6		1.04	mg/kg	SW846 6010C
Cadmium	0.514	J	0.522	mg/kg	SW846 6010C
Chromium	10.3		1.04	mg/kg	SW846 6010C
Lead	6.26		1.57	mg/kg	SW846 6010C
Cyanide (total)	0.445		0.409	mg/kg	SW846 9012B

Lab ID: SC50096-04

Client ID: CFS-B (5.5-9")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	3.93		1.53	mg/kg	SW846 6010C
Barium	39.9		1.02	mg/kg	SW846 6010C
Cadmium	0.522		0.510	mg/kg	SW846 6010C
Chromium	11.7		1.02	mg/kg	SW846 6010C
Lead	6.39		1.53	mg/kg	SW846 6010C
Cyanide (total)	14.9		0.248	mg/kg	SW846 9012B

Lab ID: SC50096-05

Client ID: CFS-C (0-2")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.48		1.44	mg/kg	SW846 6010C
Barium	44.6		0.962	mg/kg	SW846 6010C
Cadmium	0.603		0.481	mg/kg	SW846 6010C
Chromium	12.2		0.962	mg/kg	SW846 6010C
Lead	7.42		1.44	mg/kg	SW846 6010C

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

Lab ID: SC50096-06

Client ID: CFS-C (7.5-10")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.01		1.53	mg/kg	SW846 6010C
Barium	39.4		1.02	mg/kg	SW846 6010C
Cadmium	0.478	J	0.512	mg/kg	SW846 6010C
Chromium	10.2		1.02	mg/kg	SW846 6010C
Lead	5.75		1.53	mg/kg	SW846 6010C

Lab ID: SC50096-07

Client ID: CFS-D (0-2")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.67		1.52	mg/kg	SW846 6010C
Barium	68.2		1.01	mg/kg	SW846 6010C
Cadmium	0.557		0.507	mg/kg	SW846 6010C
Chromium	10.5		1.01	mg/kg	SW846 6010C
Lead	4.87		1.52	mg/kg	SW846 6010C
Cyanide (total)	0.351		0.348	mg/kg	SW846 9012B

Lab ID: SC50096-08

Client ID: CFS-D (4-5.5")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.46		1.46	mg/kg	SW846 6010C
Barium	43.1		0.970	mg/kg	SW846 6010C
Cadmium	0.552		0.485	mg/kg	SW846 6010C
Chromium	11.4		0.970	mg/kg	SW846 6010C
Lead	5.61		1.46	mg/kg	SW846 6010C
Cyanide (total)	1.79		0.331	mg/kg	SW846 9012B

Lab ID: SC50096-09

Client ID: CFS-E (0-2")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.68		1.60	mg/kg	SW846 6010C
Barium	860		1.06	mg/kg	SW846 6010C
Cadmium	0.579		0.532	mg/kg	SW846 6010C
Chromium	23.3		1.06	mg/kg	SW846 6010C
Lead	72.5		1.60	mg/kg	SW846 6010C

Lab ID: SC50096-10

Client ID: CFS-E (2-3.5")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.50		1.48	mg/kg	SW846 6010C
Barium	46.6		0.985	mg/kg	SW846 6010C
Cadmium	0.668		0.492	mg/kg	SW846 6010C
Chromium	13.4		0.985	mg/kg	SW846 6010C
Lead	5.36		1.48	mg/kg	SW846 6010C

Lab ID: SC50096-11

Client ID: CFS-F (0-2")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	7.64		1.51	mg/kg	SW846 6010C
Barium	51.1		1.01	mg/kg	SW846 6010C
Cadmium	0.641		0.504	mg/kg	SW846 6010C
Chromium	14.4		1.01	mg/kg	SW846 6010C
Lead	6.57		1.51	mg/kg	SW846 6010C

Lab ID: SC50096-12

Client ID: CFS-F (2-4.5")

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	6.70		1.52	mg/kg	SW846 6010C
Barium	35.5		1.02	mg/kg	SW846 6010C
Cadmium	0.755		0.508	mg/kg	SW846 6010C
Chromium	15.1		1.02	mg/kg	SW846 6010C
Lead	6.57		1.52	mg/kg	SW846 6010C

*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

CFS-A (0-2")  
SC50096-01

Client Project #  
5529S-18

Matrix  
Concrete

Collection Date/Time  
05-Sep-18 14:30

Received  
06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**

Prepared by method SW846 3050B

7440-22-4	Silver	1.70		mg/kg dry	1.47	0.159	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	5.82		mg/kg dry	1.47	0.187	1	"	"	"	"	"	X
7440-39-3	Barium	43.2		mg/kg dry	0.982	0.116	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.656		mg/kg dry	0.491	0.0254	1	"	"	"	"	"	X
7440-47-3	Chromium	79.1		mg/kg dry	0.982	0.131	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0098	J	mg/kg dry	0.0297	0.0082	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	8.74		mg/kg dry	1.47	0.208	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.47	U	mg/kg dry	1.47	0.281	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed			N/A			1	SAI SOP	07-Sep-18		BD	1812257	
% Solids	94.9			%			1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	

Prepared by method SW846 9010B

57-12-5	Cyanide (total)	1.49		mg/kg dry	0.358	0.283	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-A (2-6")  
SC50096-02

Client Project #  
5529S-18

Matrix  
Concrete

Collection Date/Time  
05-Sep-18 14:30

Received  
06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**

Prepared by method SW846 3050B

7440-22-4	Silver	< 1.52	U	mg/kg dry	1.52	0.164	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	6.64		mg/kg dry	1.52	0.192	1	"	"	"	"	"	X
7440-39-3	Barium	37.0		mg/kg dry	1.01	0.120	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.909		mg/kg dry	0.506	0.0262	1	"	"	"	"	"	X
7440-47-3	Chromium	25.6		mg/kg dry	1.01	0.135	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0311	U	mg/kg dry	0.0311	0.0086	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	6.53		mg/kg dry	1.52	0.215	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.52	U	mg/kg dry	1.52	0.290	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed			N/A			1	SAI SOP	07-Sep-18		BD	1812257	
% Solids	94.3			%			1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	

Prepared by method SW846 9010B

57-12-5	Cyanide (total)	< 0.352	U	mg/kg dry	0.352	0.278	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-B (0-1.75")

SC50096-03

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 15:30

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.57	U	mg/kg dry	1.57	0.169	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	3.78		mg/kg dry	1.57	0.198	1	"	"	"	"	"	X
7440-39-3	Barium	36.6		mg/kg dry	1.04	0.123	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.514	J	mg/kg dry	0.522	0.0270	1	"	"	"	"	"	X
7440-47-3	Chromium	10.3		mg/kg dry	1.04	0.139	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0300	U	mg/kg dry	0.0300	0.0083	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	6.26		mg/kg dry	1.57	0.221	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.57	U	mg/kg dry	1.57	0.299	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed	N/A					1	SAI SOP	07-Sep-18		BD	1812257	
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% Solids	95.2	%					1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	
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Prepared by method SW846 9010B

57-12-5	Cyanide (total)	0.445		mg/kg dry	0.409	0.323	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-B (5.5-9")

SC50096-04

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 15:30

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.53	U	mg/kg dry	1.53	0.165	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	3.93		mg/kg dry	1.53	0.194	1	"	"	"	"	"	X
7440-39-3	Barium	39.9		mg/kg dry	1.02	0.120	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.522		mg/kg dry	0.510	0.0264	1	"	"	"	"	"	X
7440-47-3	Chromium	11.7		mg/kg dry	1.02	0.136	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0313	U	mg/kg dry	0.0313	0.0087	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	6.39		mg/kg dry	1.53	0.216	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.53	U	mg/kg dry	1.53	0.292	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed	N/A					1	SAI SOP	07-Sep-18		BD	1812257	
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% Solids	95.2	%					1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	
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Prepared by method SW846 9010B

57-12-5	Cyanide (total)	14.9		mg/kg dry	0.248	0.196	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-C (0-2")

SC50096-05

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 14:00

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.44	U	mg/kg dry	1.44	0.156	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	5.48		mg/kg dry	1.44	0.183	1	"	"	"	"	"	X
7440-39-3	Barium	44.6		mg/kg dry	0.962	0.113	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.603		mg/kg dry	0.481	0.0249	1	"	"	"	"	"	X
7440-47-3	Chromium	12.2		mg/kg dry	0.962	0.128	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0309	U	mg/kg dry	0.0309	0.0086	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	7.42		mg/kg dry	1.44	0.204	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.44	U	mg/kg dry	1.44	0.275	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed			N/A			1	SAI SOP	07-Sep-18		BD	1812257	
% Solids	95.3			%			1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	

Prepared by method SW846 9010B

57-12-5	Cyanide (total)	< 0.283	U	mg/kg dry	0.283	0.224	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-C (7.5-10")

SC50096-06

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 14:00

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.53	U	mg/kg dry	1.53	0.166	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	4.01		mg/kg dry	1.53	0.194	1	"	"	"	"	"	X
7440-39-3	Barium	39.4		mg/kg dry	1.02	0.121	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.478	J	mg/kg dry	0.512	0.0265	1	"	"	"	"	"	X
7440-47-3	Chromium	10.2		mg/kg dry	1.02	0.136	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0279	U	mg/kg dry	0.0279	0.0078	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	5.75		mg/kg dry	1.53	0.217	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.53	U	mg/kg dry	1.53	0.293	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed			N/A			1	SAI SOP	07-Sep-18		BD	1812257	
% Solids	96.3			%			1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	

Prepared by method SW846 9010B

57-12-5	Cyanide (total)	< 0.376	U	mg/kg dry	0.376	0.297	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-D (0-2")

SC50096-07

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 15:00

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.52	U	mg/kg dry	1.52	0.164	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	4.67		mg/kg dry	1.52	0.193	1	"	"	"	"	"	X
7440-39-3	Barium	68.2		mg/kg dry	1.01	0.120	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.557		mg/kg dry	0.507	0.0263	1	"	"	"	"	"	X
7440-47-3	Chromium	10.5		mg/kg dry	1.01	0.135	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0296	U	mg/kg dry	0.0296	0.0082	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	4.87		mg/kg dry	1.52	0.215	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.52	U	mg/kg dry	1.52	0.290	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed		N/A				1	SAI SOP	07-Sep-18		BD	1812257	
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% Solids	98.6		%				1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	
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Prepared by method SW846 9010B

57-12-5	Cyanide (total)	0.351		mg/kg dry	0.348	0.275	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-D (4-5.5")

SC50096-08

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 15:00

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.46	U	mg/kg dry	1.46	0.157	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	4.46		mg/kg dry	1.46	0.184	1	"	"	"	"	"	X
7440-39-3	Barium	43.1		mg/kg dry	0.970	0.114	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.552		mg/kg dry	0.485	0.0251	1	"	"	"	"	"	X
7440-47-3	Chromium	11.4		mg/kg dry	0.970	0.129	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0274	U	mg/kg dry	0.0274	0.0076	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	5.61		mg/kg dry	1.46	0.206	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.46	U	mg/kg dry	1.46	0.278	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed		N/A				1	SAI SOP	07-Sep-18		BD	1812257	
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% Solids	96.8		%				1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	
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Prepared by method SW846 9010B

57-12-5	Cyanide (total)	1.79		mg/kg dry	0.331	0.262	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-E (0-2")

SC50096-09

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 12:25

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.60	U	mg/kg dry	1.60	0.173	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	5.68		mg/kg dry	1.60	0.202	1	"	"	"	"	"	X
7440-39-3	Barium	860		mg/kg dry	1.06	0.126	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.579		mg/kg dry	0.532	0.0276	1	"	"	"	"	"	X
7440-47-3	Chromium	23.3		mg/kg dry	1.06	0.142	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0321	U	mg/kg dry	0.0321	0.0089	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	72.5		mg/kg dry	1.60	0.226	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.60	U	mg/kg dry	1.60	0.305	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed		N/A				1	SAI SOP	07-Sep-18		BD	1812257	
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% Solids	93.1		%				1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	
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Prepared by method SW846 9010B

57-12-5	Cyanide (total)	< 0.380	U	mg/kg dry	0.380	0.300	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-E (2-3.5")

SC50096-10

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 12:25

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.48	U	mg/kg dry	1.48	0.160	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	5.50		mg/kg dry	1.48	0.187	1	"	"	"	"	"	X
7440-39-3	Barium	46.6		mg/kg dry	0.985	0.116	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.668		mg/kg dry	0.492	0.0255	1	"	"	"	"	"	X
7440-47-3	Chromium	13.4		mg/kg dry	0.985	0.131	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0309	U	mg/kg dry	0.0309	0.0086	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	5.36		mg/kg dry	1.48	0.209	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.48	U	mg/kg dry	1.48	0.282	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed		N/A				1	SAI SOP	07-Sep-18		BD	1812257	
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% Solids	96.1		%				1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	
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Prepared by method SW846 9010B

57-12-5	Cyanide (total)	< 0.399	U	mg/kg dry	0.399	0.316	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

CFS-F (0-2")

SC50096-11

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 16:00

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.51	U	mg/kg dry	1.51	0.163	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	7.64		mg/kg dry	1.51	0.191	1	"	"	"	"	"	X
7440-39-3	Barium	51.1		mg/kg dry	1.01	0.119	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.641		mg/kg dry	0.504	0.0261	1	"	"	"	"	"	X
7440-47-3	Chromium	14.4		mg/kg dry	1.01	0.134	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0306	U	mg/kg dry	0.0306	0.0085	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	6.57		mg/kg dry	1.51	0.213	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.51	U	mg/kg dry	1.51	0.288	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed			N/A			1	SAI SOP	07-Sep-18		BD	1812257	
% Solids	97.3			%			1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	

Prepared by method SW846 9010B

57-12-5	Cyanide (total)	< 0.282	U	mg/kg dry	0.282	0.223	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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Sample Identification

CFS-F (2-4.5")

SC50096-12

Client Project #

5529S-18

Matrix

Concrete

Collection Date/Time

05-Sep-18 16:00

Received

06-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Total Metals by EPA 6000/7000 Series Methods**Prepared by method SW846 3050B

7440-22-4	Silver	< 1.52	U	mg/kg dry	1.52	0.165	1	SW846 6010C	11-Sep-18	13-Sep-18	TBC	1812374	X
7440-38-2	Arsenic	6.70		mg/kg dry	1.52	0.193	1	"	"	"	"	"	X
7440-39-3	Barium	35.5		mg/kg dry	1.02	0.120	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.755		mg/kg dry	0.508	0.0263	1	"	"	"	"	"	X
7440-47-3	Chromium	15.1		mg/kg dry	1.02	0.135	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0301	U	mg/kg dry	0.0301	0.0084	1	SW846 7471B	"	13-Sep-18	ABW	1812380	X

Prepared by method SW846 3050B

7439-92-1	Lead	6.57		mg/kg dry	1.52	0.216	1	SW846 6010C	"	13-Sep-18	TBC	1812374	X
7782-49-2	Selenium	< 1.52	U	mg/kg dry	1.52	0.291	1	"	"	"	"	"	X

**General Chemistry Parameters**

Sample Prep	Completed			N/A			1	SAI SOP	07-Sep-18		BD	1812257	
% Solids	97.7			%			1	SM2540 G (11) Mod.	07-Sep-18	07-Sep-18	BD	1812258	

Prepared by method SW846 9010B

57-12-5	Cyanide (total)	< 0.345	U	mg/kg dry	0.345	0.272	1	SW846 9012B	12-Sep-18	13-Sep-18	RLT	1812426	X
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW846 6010C</u></b>										
<b>Batch 1812374 - SW846 3050B</b>										
<b><u>Blank (1812374-BLK1)</u></b>					<b><u>Prepared: 11-Sep-18 Analyzed: 13-Sep-18</u></b>					
Chromium	0.159	J	mg/kg wet	0.961						
Silver	< 1.44	U	mg/kg wet	1.44						
Arsenic	< 1.44	U	mg/kg wet	1.44						
Cadmium	< 0.481	U	mg/kg wet	0.481						
Lead	0.255	J	mg/kg wet	1.44						
Selenium	0.279	J	mg/kg wet	1.44						
Barium	< 0.961	U	mg/kg wet	0.961						
<b><u>Reference (1812374-SRM1)</u></b>					<b><u>Prepared: 11-Sep-18 Analyzed: 13-Sep-18</u></b>					
Arsenic	75.0		mg/kg wet	1.50	81.9		91	83.2-116.8		
Silver	19.5		mg/kg wet	1.50	22.0		88	79.9-119.9		
Cadmium	94.3		mg/kg wet	0.500	107		88	83.4-116.6		
Chromium	65.6		mg/kg wet	1.00	69.2		95	82.4-117.6		
Lead	49.3		mg/kg wet	1.50	56.5		87	83-117.1		
Selenium	89.0		mg/kg wet	1.50	97.2		92	79.6-120.9		
Barium	134		mg/kg wet	1.00	132		102	82.7-117.3		
<b><u>Reference (1812374-SRM2)</u></b>					<b><u>Prepared: 11-Sep-18 Analyzed: 13-Sep-18</u></b>					
Selenium	80.8		mg/kg wet	1.50	98.6		82	79.6-120.9		
Silver	18.2		mg/kg wet	1.50	22.4		81	79.9-119.9		
Cadmium	85.9	QM9	mg/kg wet	0.500	109		79	83.4-116.6		
Chromium	60.3		mg/kg wet	1.00	70.2		86	82.4-117.6		
Arsenic	69.0	QM9	mg/kg wet	1.50	83.1		83	83.2-116.8		
Lead	44.5	QM9	mg/kg wet	1.50	57.3		78	83-117.1		
Barium	121		mg/kg wet	1.00	134		90	82.7-117.3		
<b><u>SW846 7471B</u></b>										
<b>Batch 1812380 - EPA200/SW7000 Series</b>										
<b><u>Blank (1812380-BLK1)</u></b>					<b><u>Prepared: 11-Sep-18 Analyzed: 13-Sep-18</u></b>					
Mercury	< 0.0262	U	mg/kg wet	0.0262						
<b><u>Reference (1812380-SRM1)</u></b>					<b><u>Prepared: 11-Sep-18 Analyzed: 13-Sep-18</u></b>					
Mercury	4.52	D	mg/kg wet	0.600	3.99		113	71.6-128		

**General Chemistry Parameters - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SM2540 G (11) Mod.</u></b>										
<b>Batch 1812258 - General Preparation</b>										
<b><u>Duplicate (1812258-DUP1)</u></b>										
% Solids	95.0		%				94.9		0.1	5
<b><u>Duplicate (1812258-DUP2)</u></b>										
% Solids	94.1		%				94.3		0.3	5
<b><u>SW846 9012B</u></b>										
<b>Batch 1812426 - General Preparation</b>										
<b><u>Blank (1812426-BLK1)</u></b>										
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
<b><u>Blank (1812426-BLK2)</u></b>										
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
<b><u>LCS (1812426-BS1)</u></b>										
Cyanide (total)	25.4		mg/kg wet	0.500	25.0		102	90-110		
<b><u>LCS (1812426-BS2)</u></b>										
Cyanide (total)	27.1		mg/kg wet	0.500	25.0		108	90-110		
<b><u>Calibration Blank (1812426-CCB1)</u></b>										
Cyanide (total)	0.000529		mg/kg wet							
<b><u>Calibration Blank (1812426-CCB2)</u></b>										
Cyanide (total)	0.00373		mg/kg wet							
<b><u>Calibration Blank (1812426-CCB3)</u></b>										
Cyanide (total)	0.000803		mg/kg wet							
<b><u>Calibration Check (1812426-CCV1)</u></b>										
Cyanide (total)	25.4		mg/kg wet	0.500	25.0		102	90-110		
<b><u>Calibration Check (1812426-CCV2)</u></b>										
Cyanide (total)	25.2		mg/kg wet	0.500	25.0		101	90-110		
<b><u>Calibration Check (1812426-CCV3)</u></b>										
Cyanide (total)	25.1		mg/kg wet	0.500	25.0		100	90-110		
<b><u>Duplicate (1812426-DUP1)</u></b>										
Cyanide (total)	< 0.358	U	mg/kg dry	0.358			BRL			35
<b><u>Matrix Spike (1812426-MS1)</u></b>										
Cyanide (total)	17.7		mg/kg dry	0.383	19.1	BRL	92	90-110		
<b><u>Matrix Spike Dup (1812426-MSD1)</u></b>										
Cyanide (total)	19.4		mg/kg dry	0.419	20.9	BRL	92	90-110	9	35
<b><u>Reference (1812426-SRM1)</u></b>										
Cyanide (total)	100		mg/kg wet	0.971	94.3		106	22.3-116		

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## 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).
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
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

Special Handling:

- Standard TAT - 7 to 10 business days
  - Rush TAT - Date Needed: 5 Day TAT
- All TATs subject to laboratory approval  
Min. 24-hr notification needed for rushes  
Samples disposed after 30 days unless otherwise instructed.

SC50096 Ben

Report To: Dan Environmental Inc  
1563 Lyell Avenue  
Rochester NY 14606

Telephone #: 585 454 0210  
 Project Mgr: C. Hampden

Invoice To: SAWE

P.O. No.: \_\_\_\_\_  
 Quote #: \_\_\_\_\_

Project No: 55295-18  
 Site Name: 441 Chandler Street  
 Location: Imweston State: NY  
 Sampler(s): C. Hampden

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
 7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=NONE 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=Concrete X2=\_\_\_\_\_ X3=\_\_\_\_\_

G=Grab C=Composite

List Preservative Code below:

QA/QC Reporting Notes:  
 \* additional charges may apply

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Analysis		Check if chlorinated
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic Bags			
SC50096	CFS-A (0-2")	9/5/18	14:30	G	X1				1	X	X	
	CFS-A (2-6")		14:30						1	X	X	
	CFS-B (0-1.75")		15:30						1	X	X	
	CFS-B (5.5-9")		15:30						1	X	X	
	CFS-C (0-2")		14:00						1	X	X	
	CFS-C (7.5-10")		14:00						1	X	X	
	CFS-D (0-2")		15:00						1	X	X	
	CFS-D (4-5.5")		15:00						1	X	X	
	CFS-E (0-2")		12:25						1	X	X	
	CFS-E (2-3.5")		12:25						1	X	X	

Relinquished by: Chadler J. Fedor

Received by: Blue M...

Date: 9/5/18 Time: ~17:30

Temp °C: 9.2

Condition upon receipt:  Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen

Custody Seals:  Present  Intact  Broken

Signature: Champion@daymwl.net



Spectrum Analytical

### CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling: *SS0096*

Standard TAT - 7 to 10 business days  
 Rush TAT - Date Needed: 5 day TAT

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

Report To: *Day Environmental, Inc*  
*1563 Lyell Ave*  
*Rochester NY 14606*

Invoice To: *SAME*

Project No: *5529 J-18*

Site Name: *441 Chandler Street*

Location: *Somersham* State: *MA*  
Sampler(s): *C. Hemphsen*

Telephone #: *585-854-0210*  
Project Mgr: *C. Hemphsen*

P.O. No.: \_\_\_\_\_ Quote #: \_\_\_\_\_

F=Field Filtered 1=Na<sub>2</sub>SO<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 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= *Concrete* X2= \_\_\_\_\_ X3= \_\_\_\_\_  
G=Grab C=Composite

Type

Matrix

# of VOA Vials  
# of Amber Glass  
# of Clear Glass  
# of Plastic *Bevs*

Containers

Analysis

Check if chlorinated

MA DEP MCP CAM Report?  Yes  No  
CT DPH RCP Report?  Yes  No  
Standard  No QC  
ASP A\*  ASP B\*   
NI Reduced\*  NI Full\*   
Tier II\*  Tier IV\*   
Other: \_\_\_\_\_  
State-specific reporting standards: \_\_\_\_\_

*Crush Samples*  
*prior to analysis*

Lab ID:	Sample ID:	Date:	Time:	Type
<i>SS0096-11</i>	<i>CFS-F (0-2")</i>	<i>9/5/18</i>	<i>16:00</i>	<i>G</i>
<i>J 12</i>	<i>CFS-F (2-4.5")</i>	<i>9/5/18</i>	<i>16:00</i>	<i>G</i>

Date:	Time:	Temp °C
<i>9/5/18</i>	<i>~17:30</i>	<i>2.9</i>
<i>9/5/18</i>	<i>17:21</i>	<i>2.9</i>

Original Temp °C *2.9*  
Correction Factor \_\_\_\_\_  
Corrected IR ID # *9.8*

Condition upon receipt: Custody Seals:  Present  Intact  Broken  
 Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen

EDD format:  Standard  
E-mail to: \_\_\_\_\_

Relinquished by: *[Signature]*

Received by: *[Signature]*

Date: *9/5/18*

Time: *~17:30*

Temp °C: *2.9*

EDD format:  Standard

E-mail to: \_\_\_\_\_

# Do Not Lift Using This Tag

ORIGIN ID:ROCA (585) 454-0210  
ATTN: CHARLES HAMPTON  
DAY ENVIRONMENTAL, INC.  
1563 LYELL AVE.

SHIP DATE: 05SEP18  
ACTWGT: 20.00 LB  
CAD: 0654830/CAFE3210

ROCHESTER, NY 14608  
UNITED STATES US

TO **ROBERT BRISTOL**  
**EUROFINS SPECTRUM ANALYTICAL, INC.**  
**11 ALMGREN DRIVE**

**AGAWAM MA 01001**

(413) 789-9018

REF:

INU:

DEPT:

RMA: ||| ||||| |||



**FedEx**  
Express



552J1/F78C/DCA5

J182110081501 w

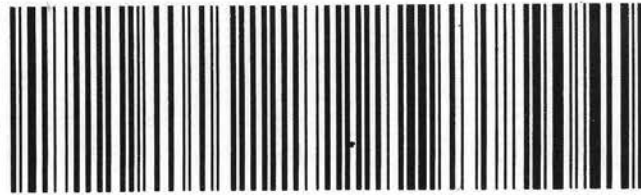
**FedEx**  
TRK# 4457 6111 4485  
0223

**THU - 06 SEP 10:30A**  
**PRIORITY OVERNIGHT**

**EB EHTA**

**01001**  
MA-US **BDL**

P-1111  
7-435  
6/1/80 P.P. 09/18



#708071 09/05 552J1/F78C/DCA5

## Batch Summary

### **1812257**

#### General Chemistry Parameters

SC50096-01 (CFS-A (0-2"))  
SC50096-02 (CFS-A (2-6"))  
SC50096-03 (CFS-B (0-1.75"))  
SC50096-04 (CFS-B (5.5-9"))  
SC50096-05 (CFS-C (0-2"))  
SC50096-06 (CFS-C (7.5-10"))  
SC50096-07 (CFS-D (0-2"))  
SC50096-08 (CFS-D (4-5.5"))  
SC50096-09 (CFS-E (0-2"))  
SC50096-10 (CFS-E (2-3.5"))  
SC50096-11 (CFS-F (0-2"))  
SC50096-12 (CFS-F (2-4.5"))

### **1812258**

#### General Chemistry Parameters

1812258-DUP1  
1812258-DUP2  
SC50096-01 (CFS-A (0-2"))  
SC50096-02 (CFS-A (2-6"))  
SC50096-03 (CFS-B (0-1.75"))  
SC50096-04 (CFS-B (5.5-9"))  
SC50096-05 (CFS-C (0-2"))  
SC50096-06 (CFS-C (7.5-10"))  
SC50096-07 (CFS-D (0-2"))  
SC50096-08 (CFS-D (4-5.5"))  
SC50096-09 (CFS-E (0-2"))  
SC50096-10 (CFS-E (2-3.5"))  
SC50096-11 (CFS-F (0-2"))  
SC50096-12 (CFS-F (2-4.5"))

### **1812374**

#### Total Metals by EPA 6000/7000 Series Methods

1812374-BLK1  
1812374-SRM1  
1812374-SRM2  
SC50096-01 (CFS-A (0-2"))  
SC50096-02 (CFS-A (2-6"))  
SC50096-03 (CFS-B (0-1.75"))  
SC50096-04 (CFS-B (5.5-9"))  
SC50096-05 (CFS-C (0-2"))  
SC50096-06 (CFS-C (7.5-10"))  
SC50096-07 (CFS-D (0-2"))  
SC50096-08 (CFS-D (4-5.5"))  
SC50096-09 (CFS-E (0-2"))  
SC50096-10 (CFS-E (2-3.5"))  
SC50096-11 (CFS-F (0-2"))  
SC50096-12 (CFS-F (2-4.5"))

### **1812380**

#### Total Metals by EPA 6000/7000 Series Methods

1812380-BLK1  
1812380-SRM1  
SC50096-01 (CFS-A (0-2"))  
SC50096-02 (CFS-A (2-6"))  
SC50096-03 (CFS-B (0-1.75"))  
SC50096-04 (CFS-B (5.5-9"))  
SC50096-05 (CFS-C (0-2"))  
SC50096-06 (CFS-C (7.5-10"))  
SC50096-07 (CFS-D (0-2"))  
SC50096-08 (CFS-D (4-5.5"))  
SC50096-09 (CFS-E (0-2"))  
SC50096-10 (CFS-E (2-3.5"))  
SC50096-11 (CFS-F (0-2"))  
SC50096-12 (CFS-F (2-4.5"))

### **1812426**

#### General Chemistry Parameters

1812426-BLK1  
1812426-BLK2  
1812426-BS1  
1812426-BS2  
1812426-CCB1  
1812426-CCB2  
1812426-CCB3  
1812426-CCV1  
1812426-CCV2  
1812426-CCV3  
1812426-DUP1  
1812426-MS1  
1812426-MSD1  
1812426-SRM1  
SC50096-01 (CFS-A (0-2"))  
SC50096-02 (CFS-A (2-6"))  
SC50096-03 (CFS-B (0-1.75"))  
SC50096-04 (CFS-B (5.5-9"))  
SC50096-05 (CFS-C (0-2"))  
SC50096-06 (CFS-C (7.5-10"))  
SC50096-07 (CFS-D (0-2"))  
SC50096-08 (CFS-D (4-5.5"))  
SC50096-09 (CFS-E (0-2"))  
SC50096-10 (CFS-E (2-3.5"))  
SC50096-11 (CFS-F (0-2"))  
SC50096-12 (CFS-F (2-4.5"))

**EUROFINS SPECTRUM ANALYTICAL  
LABORATORY REPORT  
SC51827**

## Laboratory Report SC51827

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, NY 14606  
Attn: Charles Hampton

Project: 441 Chandler St - Jamestown, NY  
Project #: 5529S-18

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:  
Rebecca Merz  
Quality Services Manager

A handwritten signature in cursive script that reads "Rebecca Merz".

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 53 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](http://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:** SC51827  
**Project:** 441 Chandler St - Jamestown, NY  
**Project Number:** 5529S-18

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC51827-01	MW A (4')	Soil	06-Nov-18 10:08	09-Nov-18 10:30
SC51827-02	MW A (8')	Soil	06-Nov-18 10:20	09-Nov-18 10:30
SC51827-03	MW A (11')	Soil	06-Nov-18 10:35	09-Nov-18 10:30
SC51827-04	MW A (13')	Soil	06-Nov-18 10:50	09-Nov-18 10:30
SC51827-05	MW B (9.5')	Soil	06-Nov-18 11:45	09-Nov-18 10:30
SC51827-06	MW B (11')	Soil	06-Nov-18 11:50	09-Nov-18 10:30
SC51827-07	MW D (9')	Soil	06-Nov-18 15:30	09-Nov-18 10:30
SC51827-08	TB-Soil	Trip Blank	06-Nov-18 00:00	09-Nov-18 10:30
SC51827-09	MW-A	Ground Water	08-Nov-18 13:25	09-Nov-18 10:30
SC51827-10	MW-B	Ground Water	08-Nov-18 11:35	09-Nov-18 10:30
SC51827-11	MW-C	Ground Water	08-Nov-18 10:35	09-Nov-18 10:30
SC51827-12	MW-D	Ground Water	08-Nov-18 11:05	09-Nov-18 10:30
SC51827-13	TB-Ground Water	Trip Blank	08-Nov-18 00:00	09-Nov-18 10:30
SC51827-14	MW-A Sediment	Sediment	08-Nov-18 12:30	09-Nov-18 10:30
SC51827-15	MW-A LNAPL	LNAPL	08-Nov-18 13:55	09-Nov-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 2.1 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.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

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.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

All volatile soil/product/solid samples should be collected in accordance method SW846 5035/5035A. Any sample with a result below 200ug/Kg that has not been collected in accordance with method 5035/5035 A must be evaluated as potentially biased low.

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

**SW846 8260C**

**Calibration:**

1810048

---

Analyte quantified by quadratic equation type calibration.

Bromoform

This affected the following samples:

1814950-BLK1  
1814950-BS1  
1814950-BSD1  
MW A (4')  
MW B (11')  
MW B (9.5')  
S822862-ICV1  
S823199-CCV1  
TB-Soil

1810070

---

Analyte quantified by quadratic equation type calibration.

Bromoform  
Bromomethane  
Carbon tetrachloride  
cis-1,3-Dichloropropene  
Dibromochloromethane  
trans-1,3-Dichloropropene  
Vinyl chloride

## **SW846 8260C**

### **Calibration:**

1810070

---

This affected the following samples:

S822956-ICV1

1811020

---

Analyte quantified by quadratic equation type calibration.

1,2-Dichlorobenzene  
1,3-Dichlorobenzene  
Bromoform  
cis-1,3-Dichloropropene  
Dibromochloromethane  
trans-1,3-Dichloropropene  
Vinyl chloride

This affected the following samples:

1814905-BLK1  
1814905-BS1  
1814905-BSD1  
MW-A  
MW-B  
MW-C  
MW-D  
S823142-ICV1  
S823188-CCV1  
TB-Ground Water

### **Laboratory Control Samples:**

1814905 BS/BSD

---

Bromomethane percent recoveries (135/128) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-A  
MW-B  
MW-C  
MW-D  
TB-Ground Water

1814913 BS/BSD

---

Bromoform percent recoveries (140/138) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-A LNAPL

Bromomethane percent recoveries (156/120) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-A LNAPL

Carbon tetrachloride percent recoveries (149/146) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-A LNAPL

Dibromochloromethane percent recoveries (130/133) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-A LNAPL

## **SW846 8260C**

### **Laboratory Control Samples:**

1814913 BS/BSD

---

Trichlorofluoromethane (Freon 11) percent recoveries (153/148) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-A LNAPL

1814951 BS/BSD

---

Bromoform percent recoveries (140/150) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (11')

MW A (13')

MW A (8')

MW-A Sediment

Carbon tetrachloride percent recoveries (145/149) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (11')

MW A (13')

MW A (8')

MW-A Sediment

Dibromochloromethane percent recoveries (135/143) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (11')

MW A (13')

MW A (8')

MW-A Sediment

Trichlorofluoromethane (Freon 11) percent recoveries (148/152) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (11')

MW A (13')

MW A (8')

MW-A Sediment

1815012 BS/BSD

---

Bromoform percent recoveries (142/141) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (11')

MW A (13')

MW A (4')

MW D (9')

MW-A Sediment

Bromomethane percent recoveries (167/155) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (11')

MW A (13')

MW A (4')

MW D (9')

MW-A Sediment

## **SW846 8260C**

### **Laboratory Control Samples:**

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#### 1815012 BS/BSD

Carbon tetrachloride percent recoveries (130/134) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (11')  
MW A (13')  
MW A (4')  
MW D (9')  
MW-A Sediment

Chloromethane percent recoveries (70/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW A (11')  
MW A (13')  
MW A (4')  
MW D (9')  
MW-A Sediment

---

#### 1815015 BS/BSD

Bromomethane percent recoveries (158/158) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-A LNAPL

Chloromethane percent recoveries (59/56) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-A LNAPL

---

#### 1815084 BS/BSD

Bromoform percent recoveries (150/142) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (4')  
TB-Soil

Bromomethane percent recoveries (181/169) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (4')  
TB-Soil

Carbon tetrachloride percent recoveries (149/145) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (4')  
TB-Soil

Dibromochloromethane percent recoveries (144/128) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (4')  
TB-Soil

Trichlorofluoromethane (Freon 11) percent recoveries (152/146) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW A (4')  
TB-Soil

### **Samples:**

---

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## SW846 8260C

### Samples:

#### S823177-CCV1

---

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

1,1,1-Trichloroethane (27.0%)  
Dichlorodifluoromethane (Freon12) (24.0%)  
Trichlorofluoromethane (Freon 11) (47.6%)

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

Bromoform (37.8%)  
Carbon tetrachloride (46.5%)  
Dibromochloromethane (32.6%)

This affected the following samples:

1814913-BLK1  
1814913-BS1  
1814913-BSD1  
MW-A LNAPL

#### S823188-CCV1

---

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

Bromomethane (38.4%)

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

Vinyl chloride (25.2%)

This affected the following samples:

1814905-BLK1  
1814905-BS1  
1814905-BSD1  
MW-A  
MW-B  
MW-C  
MW-D  
TB-Ground Water

#### S823197-CCV1

---

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

Trichlorofluoromethane (Freon 11) (52.3%)

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

Bromoform (49.8%)  
Bromomethane (25.6%)  
Carbon tetrachloride (49.3%)  
Dibromochloromethane (43.0%)

This affected the following samples:

1814951-BLK1  
1814951-BS1  
1814951-BSD1  
MW A (11')  
MW A (13')  
MW A (8')  
MW-A Sediment

#### S823199-CCV1

---

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## SW846 8260C

### Samples:

S823199-CCV1

---

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

Carbon tetrachloride (29.3%)  
Tetrachloroethene (29.2%)  
Trichlorofluoromethane (Freon 11) (26.7%)

This affected the following samples:

1814950-BLK1  
1814950-BS1  
1814950-BSD1  
MW A (4')  
MW B (11')  
MW B (9.5')  
TB-Soil

S823230-CCV1

---

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

Chloromethane (-31.2%)  
Trichlorofluoromethane (Freon 11) (29.0%)

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

Bromoform (40.7%)  
Bromomethane (54.8%)  
Carbon tetrachloride (34.0%)  
Dibromochloromethane (26.0%)

This affected the following samples:

1815012-BLK1  
1815012-BS1  
1815012-BSD1  
MW A (11')  
MW A (13')  
MW A (4')  
MW D (9')  
MW-A Sediment

S823231-CCV1

---

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

Chloromethane (-38.7%)

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

Bromoform (27.4%)  
Bromomethane (62.4%)

This affected the following samples:

1815015-BLK1  
1815015-BS1  
1815015-BSD1  
MW-A LNAPL

S823263-CCV1

---

**SW846 8260C**

**Samples:**

S823263-CCV1

---

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

Chloromethane (-30.0%)

Trichlorofluoromethane (Freon 11) (45.6%)

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

Bromoform (42.0%)

Bromomethane (69.0%)

Carbon tetrachloride (44.8%)

Dibromochloromethane (27.7%)

This affected the following samples:

1815084-BLK1

1815084-BS1

1815084-BSD1

MW A (4')

TB-Soil

SC51827-01                      *MW A (4')*

---

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC51827-01RE1                      *MW A (4')*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-01RE2                      *MW A (4')*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC51827-02                      *MW A (8')*

---

Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.

SC51827-03                      *MW A (11')*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-03RE1                      *MW A (11')*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-04                      *MW A (13')*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-04RE1                      *MW A (13')*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

**SW846 8260C**

**Samples:**

SC51827-07                    *MW-D (9')*

---

Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.

SC51827-09                    *MW-A*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-14                    *MW-A Sediment*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-14RE1                *MW-A Sediment*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-15                    *MW-A LNAPL*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC51827-15RE1                *MW-A LNAPL*

---

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

## Sample Acceptance Check Form

Client: Day Environmental, Inc.  
Project: 441 Chandler St - Jamestown, NY / 5529S-18  
Work Order: SC51827  
Sample(s) received on: 11/9/2018

*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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Summary of Hits

**Lab ID:** SC51827-01

**Client ID:** MW A (4')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	7.4		4.8	µg/kg	SW846 8260C
Trichloroethene	238	E	4.8	µg/kg	SW846 8260C

**Lab ID:** SC51827-01RE1

**Client ID:** MW A (4')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	237	D	66.7	µg/kg	SW846 8260C
Trichloroethene	19000	D, E	133	µg/kg	SW846 8260C

**Lab ID:** SC51827-01RE2

**Client ID:** MW A (4')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	260	J, D	334	µg/kg	SW846 8260C
Trichloroethene	24500	D	334	µg/kg	SW846 8260C

**Lab ID:** SC51827-02

**Client ID:** MW A (8')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	38.2	J, D	56.2	µg/kg	SW846 8260C

**Lab ID:** SC51827-03

**Client ID:** MW A (11')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	121	J, D	185	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	12000	D	185	µg/kg	SW846 8260C
Trichloroethene	28600	D, E	185	µg/kg	SW846 8260C
Vinyl chloride	480	D	185	µg/kg	SW846 8260C

**Lab ID:** SC51827-03RE1

**Client ID:** MW A (11')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	11800	D	464	µg/kg	SW846 8260C
Trichloroethene	32400	D	927	µg/kg	SW846 8260C
Vinyl chloride	876	D	464	µg/kg	SW846 8260C

**Lab ID:** SC51827-04

**Client ID:** MW A (13')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	12600	D	205	µg/kg	SW846 8260C
Trichloroethene	177000	D, E	205	µg/kg	SW846 8260C
Vinyl chloride	193	J, D	205	µg/kg	SW846 8260C

**Lab ID:** SC51827-04RE1

**Client ID:** MW A (13')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	12000	D	2570	µg/kg	SW846 8260C
Trichloroethene	198000	D	5130	µg/kg	SW846 8260C

**Lab ID:** SC51827-05**Client ID:** MW B (9.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	10.4		10.1	µg/kg	SW846 8260C

**Lab ID:** SC51827-06**Client ID:** MW B (11')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	1.8	J	4.2	µg/kg	SW846 8260C
Trichloroethene	4.8		4.2	µg/kg	SW846 8260C
Vinyl chloride	4.0	J	4.2	µg/kg	SW846 8260C

**Lab ID:** SC51827-07**Client ID:** MW D (9')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	108	D	81.0	µg/kg	SW846 8260C

**Lab ID:** SC51827-09**Client ID:** MW-A

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	1310	D	500	µg/l	SW846 8260C
Trichloroethene	46900	D	500	µg/l	SW846 8260C

**Lab ID:** SC51827-10**Client ID:** MW-B

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethane	0.8	J	1.0	µg/l	SW846 8260C
1,1-Dichloroethene	0.6	J	1.0	µg/l	SW846 8260C
cis-1,2-Dichloroethene	26.7		1.0	µg/l	SW846 8260C
trans-1,2-Dichloroethene	0.6	J	1.0	µg/l	SW846 8260C
Trichloroethene	42.5		1.0	µg/l	SW846 8260C
Vinyl chloride	15.6		1.0	µg/l	SW846 8260C

**Lab ID:** SC51827-11**Client ID:** MW-C

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	1.5		1.0	µg/l	SW846 8260C

**Lab ID:** SC51827-12**Client ID:** MW-D

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	3.2		1.0	µg/l	SW846 8260C
Trichloroethene	0.9	J	1.0	µg/l	SW846 8260C
Vinyl chloride	5.5		1.0	µg/l	SW846 8260C

**Lab ID:** SC51827-14**Client ID:** MW-A Sediment

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	1740	D	416	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	153000	D, E	416	µg/kg	SW846 8260C
Tetrachloroethene	1090	D	416	µg/kg	SW846 8260C
trans-1,2-Dichloroethene	587	D	416	µg/kg	SW846 8260C
Trichloroethene	3320000	D, E	416	µg/kg	SW846 8260C
Vinyl chloride	2320	D	416	µg/kg	SW846 8260C

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**Lab ID:** SC51827-14RE1

**Client ID:** MW-A Sediment

<b>Parameter</b>	<b>Result</b>	<b>Flag</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analytical Method</b>
Bromomethane	129000	J, D	208000	µg/kg	SW846 8260C
cis-1,2-Dichloroethene	163000	D	104000	µg/kg	SW846 8260C
Trichloroethene	10300000	D	208000	µg/kg	SW846 8260C

**Lab ID:** SC51827-15

**Client ID:** MW-A LNAPL

<b>Parameter</b>	<b>Result</b>	<b>Flag</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analytical Method</b>
cis-1,2-Dichloroethene	17800	D	4710	µg/kg	SW846 8260C
Trichloroethene	1710000	D, E	4710	µg/kg	SW846 8260C

**Lab ID:** SC51827-15RE1

**Client ID:** MW-A LNAPL

<b>Parameter</b>	<b>Result</b>	<b>Flag</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analytical Method</b>
Trichloroethene	1170000	D	47100	µg/kg	SW846 8260C

*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

MW A (4') Client Project # 5529S-18 Matrix Soil Collection Date/Time 06-Nov-18 10:08 Received 09-Nov-18  
 SC51827-01

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Volatile Organic Compounds**  
 Prepared by method Volatiles

VOC Extraction	Field extracted			N/A			1	VOC Soil Extraction			BD	1814877	
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**Volatile Organic Halocarbons by SW846 8260**

Prepared by method SW846 5035A Soil (low level)

Initial weight: 8.5 g

75-27-4	Bromodichloromethane	< 4.8	U	µg/kg dry	4.8	3.2	1	SW846 8260C	13-Nov-18	13-Nov-18	mp	1814950	X
75-25-2	Bromoform	< 4.8	U	µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.6	U	µg/kg dry	9.6	4.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.8	U	µg/kg dry	4.8	3.9	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.8	U	µg/kg dry	4.8	1.5	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.6	U	µg/kg dry	9.6	2.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.8	U	µg/kg dry	4.8	2.6	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.6	U	µg/kg dry	9.6	2.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.8	U	µg/kg dry	4.8	3.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.8	U	µg/kg dry	4.8	1.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.8	U	µg/kg dry	4.8	1.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.8	U	µg/kg dry	4.8	1.4	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.6	U	µg/kg dry	9.6	1.8	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.8	U	µg/kg dry	4.8	1.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.8	U	µg/kg dry	4.8	1.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.8	U	µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	7.4		µg/kg dry	4.8	1.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.8	U	µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.8	U	µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.8	U	µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.8	U	µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.6	U	µg/kg dry	9.6	1.9	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.8	U	µg/kg dry	4.8	4.0	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.8	U	µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4.8	U	µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.8	U	µg/kg dry	4.8	3.5	1	"	"	"	"	"	X
79-01-6	Trichloroethene	238	E	µg/kg dry	4.8	1.3	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.8	U	µg/kg dry	4.8	2.6	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.8	U	µg/kg dry	4.8	1.6	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	132	SGCMS		70-130 %			"	"	"	"	"	
			VOC										
1868-53-7	Dibromofluoromethane	118			70-130 %			"	"	"	"	"	

**Re-analysis of Volatile Organic Halocarbons by SW846 8260**

GS1

Prepared by method SW846 5035A Soil (high level)

Initial weight: 16.73 g

75-27-4	Bromodichloromethane	< 66.7	U, D	µg/kg dry	66.7	44.5	50	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
75-25-2	Bromoform	< 66.7	U, D	µg/kg dry	66.7	63.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 133	U, D	µg/kg dry	133	60.3	50	"	"	"	"	"	X

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Sample Identification

MW A (4') Client Project # 5529S-18 Matrix Soil Collection Date/Time 06-Nov-18 10:08 Received 09-Nov-18  
 SC51827-01

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

Volatile Organic Compounds

Re-analysis of Volatile Organic Halocarbons  
 by SW846 8260

GS1

Initial weight: 16.73 g

56-23-5	Carbon tetrachloride	< 66.7	U, D	µg/kg dry	66.7	54.6	50	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
108-90-7	Chlorobenzene	< 66.7	U, D	µg/kg dry	66.7	20.9	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 133	U, D	µg/kg dry	133	37.0	50	"	"	"	"	"	X
67-66-3	Chloroform	< 66.7	U, D	µg/kg dry	66.7	35.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 133	U, D	µg/kg dry	133	27.6	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 66.7	U, D	µg/kg dry	66.7	45.2	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 66.7	U, D	µg/kg dry	66.7	17.4	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 66.7	U, D	µg/kg dry	66.7	14.5	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 66.7	U, D	µg/kg dry	66.7	19.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 133	U, D	µg/kg dry	133	25.3	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 66.7	U, D	µg/kg dry	66.7	17.5	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 66.7	U, D	µg/kg dry	66.7	23.9	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 66.7	U, D	µg/kg dry	66.7	34.9	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	237	D	µg/kg dry	66.7	24.8	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 66.7	U, D	µg/kg dry	66.7	35.4	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 66.7	U, D	µg/kg dry	66.7	35.0	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 66.7	U, D	µg/kg dry	66.7	40.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 66.7	U, D	µg/kg dry	66.7	35.0	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 133	U, D	µg/kg dry	133	26.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 66.7	U, D	µg/kg dry	66.7	56.5	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 66.7	U, D	µg/kg dry	66.7	22.8	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 66.7	U, D	µg/kg dry	66.7	22.2	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 66.7	U, D	µg/kg dry	66.7	48.4	50	"	"	"	"	"	X
79-01-6	Trichloroethene	19,000	D, E	µg/kg dry	133	107	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 66.7	U, D	µg/kg dry	66.7	36.0	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 66.7	U, D	µg/kg dry	66.7	22.6	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	115			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	114			70-130 %			"	"	"	"	"	

Re-analysis of Volatile Organic Halocarbons  
 by SW846 8260

GS1

Prepared by method SW846 5035A Soil (high level)

Initial weight: 16.73 g

75-27-4	Bromodichloromethane	< 334	U, D	µg/kg dry	334	223	250	SW846 8260C	15-Nov-18	15-Nov-18	MP	1815084	X
75-25-2	Bromoform	< 334	U, D	µg/kg dry	334	318	250	"	"	"	"	"	X
74-83-9	Bromomethane	< 667	U, D	µg/kg dry	667	301	250	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 334	U, D	µg/kg dry	334	273	250	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 334	U, D	µg/kg dry	334	104	250	"	"	"	"	"	X
75-00-3	Chloroethane	< 667	U, D	µg/kg dry	667	185	250	"	"	"	"	"	X
67-66-3	Chloroform	< 334	U, D	µg/kg dry	334	179	250	"	"	"	"	"	X
74-87-3	Chloromethane	< 667	U, D	µg/kg dry	667	138	250	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 334	U, D	µg/kg dry	334	226	250	"	"	"	"	"	X

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Sample Identification

MW A (4\*) Client Project # 5529S-18 Matrix Soil Collection Date/Time 06-Nov-18 10:08 Received 09-Nov-18  
 SC51827-01

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

Re-analysis of Volatile Organic Halocarbons  
 by SW846 8260

GS1

Initial weight: 16.73 g

95-50-1	1,2-Dichlorobenzene	< 334	U, D	µg/kg dry	334	86.8	250	SW846 8260C	15-Nov-18	15-Nov-18	MP	1815084	X
541-73-1	1,3-Dichlorobenzene	< 334	U, D	µg/kg dry	334	72.4	250	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 334	U, D	µg/kg dry	334	98.8	250	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 667	U, D	µg/kg dry	667	126	250	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 334	U, D	µg/kg dry	334	87.4	250	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 334	U, D	µg/kg dry	334	119	250	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 334	U, D	µg/kg dry	334	175	250	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	260	J, D	µg/kg dry	334	124	250	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 334	U, D	µg/kg dry	334	177	250	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 334	U, D	µg/kg dry	334	175	250	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 334	U, D	µg/kg dry	334	201	250	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 334	U, D	µg/kg dry	334	175	250	"	"	"	"	"	X
75-09-2	Methylene chloride	< 667	U, D	µg/kg dry	667	132	250	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 334	U, D	µg/kg dry	334	282	250	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 334	U, D	µg/kg dry	334	114	250	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 334	U, D	µg/kg dry	334	111	250	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 334	U, D	µg/kg dry	334	242	250	"	"	"	"	"	X
79-01-6	Trichloroethene	24,500	D	µg/kg dry	334	91.1	250	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 334	U, D	µg/kg dry	334	180	250	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 334	U, D	µg/kg dry	334	113	250	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	103			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	135	SGCMS VOC		70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	115			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	81.2	%					1	SM2540 G (11) Mod.	09-Nov-18	09-Nov-18	BD	1814872	
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Sample Identification

MW A (8') Client Project # 5529S-18 Matrix Soil Collection Date/Time 06-Nov-18 10:20 Received 09-Nov-18  
 SC51827-02

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

Volatile Organic Compounds

Prepared by method Volatiles

VOC Extraction Field extracted N/A 1 VOC Soil Extraction BD 1814877

Volatile Organic Halocarbons by SW846

VOC8

8260

Prepared by method SW846 5035A Soil (high level)

Initial weight: 18.28 g

75-27-4	Bromodichloromethane	< 56.2	U, D	µg/kg dry	56.2	37.5	50	SW846 8260C	13-Nov-18	13-Nov-18	MP	1814951	X
75-25-2	Bromoform	< 56.2	U, D	µg/kg dry	56.2	53.6	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 112	U, D	µg/kg dry	112	50.7	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 56.2	U, D	µg/kg dry	56.2	45.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 56.2	U, D	µg/kg dry	56.2	17.6	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 112	U, D	µg/kg dry	112	31.2	50	"	"	"	"	"	X
67-66-3	Chloroform	< 56.2	U, D	µg/kg dry	56.2	30.2	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 112	U, D	µg/kg dry	112	23.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 56.2	U, D	µg/kg dry	56.2	38.1	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 56.2	U, D	µg/kg dry	56.2	14.6	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 56.2	U, D	µg/kg dry	56.2	12.2	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 56.2	U, D	µg/kg dry	56.2	16.6	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 112	U, D	µg/kg dry	112	21.3	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 56.2	U, D	µg/kg dry	56.2	14.7	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 56.2	U, D	µg/kg dry	56.2	20.1	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 56.2	U, D	µg/kg dry	56.2	29.4	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 56.2	U, D	µg/kg dry	56.2	20.8	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 56.2	U, D	µg/kg dry	56.2	29.8	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 56.2	U, D	µg/kg dry	56.2	29.4	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 56.2	U, D	µg/kg dry	56.2	33.9	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 56.2	U, D	µg/kg dry	56.2	29.5	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 112	U, D	µg/kg dry	112	22.3	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 56.2	U, D	µg/kg dry	56.2	47.5	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 56.2	U, D	µg/kg dry	56.2	19.2	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 56.2	U, D	µg/kg dry	56.2	18.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 56.2	U, D	µg/kg dry	56.2	40.7	50	"	"	"	"	"	X
79-01-6	Trichloroethene	38.2	J, D	µg/kg dry	56.2	15.3	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 56.2	U, D	µg/kg dry	56.2	30.3	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 56.2	U, D	µg/kg dry	56.2	19.0	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	114			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	103			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	118			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	106			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids 85.7 % 1 SM2540 G (11) Mod. 09-Nov-18 09-Nov-18 BD 1814872

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Sample Identification

MW A (11')  
SC51827-03

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
06-Nov-18 10:35

Received  
09-Nov-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Volatile Organic Compounds**  
Prepared by method Volatiles

VOC Extraction      **Field extracted**      N/A      1      VOC Soil Extraction      BD      1814877

Volatile Organic Halocarbons by SW846      GS1

8260  
Prepared by method SW846 5035A Soil (high level)      Initial weight: 22.76 g

75-27-4	Bromodichloromethane	< 185	U, D	µg/kg dry	185	124	200	SW846 8260C	13-Nov-18	13-Nov-18	MP	1814951	X
75-25-2	Bromoform	< 185	U, D	µg/kg dry	185	177	200	"	"	"	"	"	X
74-83-9	Bromomethane	< 371	U, D	µg/kg dry	371	167	200	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 185	U, D	µg/kg dry	185	152	200	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 185	U, D	µg/kg dry	185	58.0	200	"	"	"	"	"	X
75-00-3	Chloroethane	< 371	U, D	µg/kg dry	371	103	200	"	"	"	"	"	X
67-66-3	Chloroform	< 185	U, D	µg/kg dry	185	99.6	200	"	"	"	"	"	X
74-87-3	Chloromethane	< 371	U, D	µg/kg dry	371	76.6	200	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 185	U, D	µg/kg dry	185	126	200	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 185	U, D	µg/kg dry	185	48.2	200	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 185	U, D	µg/kg dry	185	40.2	200	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 185	U, D	µg/kg dry	185	54.9	200	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 371	U, D	µg/kg dry	371	70.3	200	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 185	U, D	µg/kg dry	185	48.6	200	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 185	U, D	µg/kg dry	185	66.4	200	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	<b>121</b>	J, D	µg/kg dry	185	97.0	200	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	<b>12,000</b>	D	µg/kg dry	185	68.8	200	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 185	U, D	µg/kg dry	185	98.3	200	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 185	U, D	µg/kg dry	185	97.2	200	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 185	U, D	µg/kg dry	185	112	200	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 185	U, D	µg/kg dry	185	97.4	200	"	"	"	"	"	X
75-09-2	Methylene chloride	< 371	U, D	µg/kg dry	371	73.6	200	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 185	U, D	µg/kg dry	185	157	200	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 185	U, D	µg/kg dry	185	63.4	200	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 185	U, D	µg/kg dry	185	61.6	200	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 185	U, D	µg/kg dry	185	134	200	"	"	"	"	"	X
79-01-6	Trichloroethene	<b>28,600</b>	D, E	µg/kg dry	185	50.6	200	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 185	U, D	µg/kg dry	185	100	200	"	"	"	"	"	X
75-01-4	Vinyl chloride	<b>480</b>	D	µg/kg dry	185	62.7	200	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	108			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	116			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	107			70-130 %			"	"	"	"	"	

Re-analysis of Volatile Organic Halocarbons      GS1  
by SW846 8260

Prepared by method SW846 5035A Soil (high level)      Initial weight: 22.76 g													
75-27-4	Bromodichloromethane	< 464	U, D	µg/kg dry	464	309	500	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
75-25-2	Bromoform	< 464	U, D	µg/kg dry	464	442	500	"	"	"	"	"	X
74-83-9	Bromomethane	< 927	U, D	µg/kg dry	927	419	500	"	"	"	"	"	X

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Sample Identification

MW A (11')  
SC51827-03

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
06-Nov-18 10:35

Received  
09-Nov-18

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

Re-analysis of Volatile Organic Halocarbons  
by SW846 8260

GS1

Initial weight: 22.76 g

56-23-5	Carbon tetrachloride	< 464	U, D	µg/kg dry	464	379	500	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
108-90-7	Chlorobenzene	< 464	U, D	µg/kg dry	464	145	500	"	"	"	"	"	X
75-00-3	Chloroethane	< 927	U, D	µg/kg dry	927	257	500	"	"	"	"	"	X
67-66-3	Chloroform	< 464	U, D	µg/kg dry	464	249	500	"	"	"	"	"	X
74-87-3	Chloromethane	< 927	U, D	µg/kg dry	927	191	500	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 464	U, D	µg/kg dry	464	314	500	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 464	U, D	µg/kg dry	464	121	500	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 464	U, D	µg/kg dry	464	101	500	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 464	U, D	µg/kg dry	464	137	500	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 927	U, D	µg/kg dry	927	176	500	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 464	U, D	µg/kg dry	464	121	500	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 464	U, D	µg/kg dry	464	166	500	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 464	U, D	µg/kg dry	464	242	500	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	11,800	D	µg/kg dry	464	172	500	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 464	U, D	µg/kg dry	464	246	500	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 464	U, D	µg/kg dry	464	243	500	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 464	U, D	µg/kg dry	464	280	500	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 464	U, D	µg/kg dry	464	243	500	"	"	"	"	"	X
75-09-2	Methylene chloride	< 927	U, D	µg/kg dry	927	184	500	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 464	U, D	µg/kg dry	464	392	500	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 464	U, D	µg/kg dry	464	159	500	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 464	U, D	µg/kg dry	464	154	500	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 464	U, D	µg/kg dry	464	336	500	"	"	"	"	"	X
79-01-6	Trichloroethene	32,400	D	µg/kg dry	927	742	500	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 464	U, D	µg/kg dry	464	250	500	"	"	"	"	"	X
75-01-4	Vinyl chloride	876	D	µg/kg dry	464	157	500	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	116			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.1	%					1	SM2540 G (11) Mod.	09-Nov-18	09-Nov-18	BD	1814872	
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Sample Identification

MW A (13')  
SC51827-04

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
06-Nov-18 10:50

Received  
09-Nov-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Volatile Organic Compounds**  
Prepared by method Volatiles

VOC Extraction      **Field extracted**      N/A      1      VOC Soil Extraction      BD      1814877

Volatile Organic Halocarbons by SW846      GS1

8260  
Prepared by method SW846 5035A Soil (high level)      Initial weight: 19.07 g

75-27-4	Bromodichloromethane	< 205	U, D	µg/kg dry	205	137	200	SW846 8260C	13-Nov-18	13-Nov-18	MP	1814951	X
75-25-2	Bromoform	< 205	U, D	µg/kg dry	205	196	200	"	"	"	"	"	X
74-83-9	Bromomethane	< 411	U, D	µg/kg dry	411	185	200	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 205	U, D	µg/kg dry	205	168	200	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 205	U, D	µg/kg dry	205	64.3	200	"	"	"	"	"	X
75-00-3	Chloroethane	< 411	U, D	µg/kg dry	411	114	200	"	"	"	"	"	X
67-66-3	Chloroform	< 205	U, D	µg/kg dry	205	110	200	"	"	"	"	"	X
74-87-3	Chloromethane	< 411	U, D	µg/kg dry	411	84.8	200	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 205	U, D	µg/kg dry	205	139	200	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 205	U, D	µg/kg dry	205	53.4	200	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 205	U, D	µg/kg dry	205	44.6	200	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 205	U, D	µg/kg dry	205	60.8	200	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 411	U, D	µg/kg dry	411	77.8	200	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 205	U, D	µg/kg dry	205	53.8	200	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 205	U, D	µg/kg dry	205	73.5	200	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 205	U, D	µg/kg dry	205	107	200	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	<b>12,600</b>	D	µg/kg dry	205	76.2	200	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 205	U, D	µg/kg dry	205	109	200	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 205	U, D	µg/kg dry	205	108	200	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 205	U, D	µg/kg dry	205	124	200	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 205	U, D	µg/kg dry	205	108	200	"	"	"	"	"	X
75-09-2	Methylene chloride	< 411	U, D	µg/kg dry	411	81.5	200	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 205	U, D	µg/kg dry	205	174	200	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 205	U, D	µg/kg dry	205	70.2	200	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 205	U, D	µg/kg dry	205	68.2	200	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 205	U, D	µg/kg dry	205	149	200	"	"	"	"	"	X
79-01-6	Trichloroethene	<b>177,000</b>	D, E	µg/kg dry	205	56.1	200	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 205	U, D	µg/kg dry	205	111	200	"	"	"	"	"	X
75-01-4	Vinyl chloride	<b>193</b>	J, D	µg/kg dry	205	69.4	200	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	106			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	118			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %			"	"	"	"	"	

Re-analysis of Volatile Organic Halocarbons      GS1  
by SW846 8260

Prepared by method SW846 5035A Soil (high level)      Initial weight: 19.07 g

75-27-4	Bromodichloromethane	< 2570	U, D	µg/kg dry	2570	1710	2500	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
75-25-2	Bromoform	< 2570	U, D	µg/kg dry	2570	2450	2500	"	"	"	"	"	X
74-83-9	Bromomethane	< 5130	U, D	µg/kg dry	5130	2320	2500	"	"	"	"	"	X

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Sample Identification

MW A (13')  
SC51827-04

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
06-Nov-18 10:50

Received  
09-Nov-18

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

Re-analysis of Volatile Organic Halocarbons  
by SW846 8260

GS1

Initial weight: 19.07 g

56-23-5	Carbon tetrachloride	< 2570	U, D	µg/kg dry	2570	2100	2500	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
108-90-7	Chlorobenzene	< 2570	U, D	µg/kg dry	2570	804	2500	"	"	"	"	"	X
75-00-3	Chloroethane	< 5130	U, D	µg/kg dry	5130	1420	2500	"	"	"	"	"	X
67-66-3	Chloroform	< 2570	U, D	µg/kg dry	2570	1380	2500	"	"	"	"	"	X
74-87-3	Chloromethane	< 5130	U, D	µg/kg dry	5130	1060	2500	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2570	U, D	µg/kg dry	2570	1740	2500	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2570	U, D	µg/kg dry	2570	667	2500	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2570	U, D	µg/kg dry	2570	557	2500	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2570	U, D	µg/kg dry	2570	760	2500	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 5130	U, D	µg/kg dry	5130	973	2500	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2570	U, D	µg/kg dry	2570	673	2500	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2570	U, D	µg/kg dry	2570	919	2500	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2570	U, D	µg/kg dry	2570	1340	2500	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	12,000	D	µg/kg dry	2570	952	2500	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 2570	U, D	µg/kg dry	2570	1360	2500	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2570	U, D	µg/kg dry	2570	1350	2500	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2570	U, D	µg/kg dry	2570	1550	2500	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2570	U, D	µg/kg dry	2570	1350	2500	"	"	"	"	"	X
75-09-2	Methylene chloride	< 5130	U, D	µg/kg dry	5130	1020	2500	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 2570	U, D	µg/kg dry	2570	2170	2500	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2570	U, D	µg/kg dry	2570	878	2500	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 2570	U, D	µg/kg dry	2570	852	2500	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2570	U, D	µg/kg dry	2570	1860	2500	"	"	"	"	"	X
79-01-6	Trichloroethene	198,000	D	µg/kg dry	5130	4110	2500	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2570	U, D	µg/kg dry	2570	1380	2500	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 2570	U, D	µg/kg dry	2570	868	2500	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	103			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	117			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.1	%					1	SM2540 G (11) Mod.	09-Nov-18	09-Nov-18	BD	1814872	
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Sample Identification

MW B (9.5')

SC51827-05

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

06-Nov-18 11:45

Received

09-Nov-18

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

Prepared by method Volatiles

VOC Extraction

Field  
extracted

N/A

1

VOC Soil  
Extraction

BD

1814877

**Volatile Organic Halocarbons by SW846**

8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 4.51 g

75-27-4	Bromodichloromethane	< 10.1	U	µg/kg dry	10.1	6.7	1	SW846 8260C	13-Nov-18	13-Nov-18	mp	1814950	X
75-25-2	Bromoform	< 10.1	U	µg/kg dry	10.1	9.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 20.2	U	µg/kg dry	20.2	9.1	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 10.1	U	µg/kg dry	10.1	8.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 10.1	U	µg/kg dry	10.1	3.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 20.2	U	µg/kg dry	20.2	5.6	1	"	"	"	"	"	X
67-66-3	Chloroform	< 10.1	U	µg/kg dry	10.1	5.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 20.2	U	µg/kg dry	20.2	4.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 10.1	U	µg/kg dry	10.1	6.8	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 10.1	U	µg/kg dry	10.1	2.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 10.1	U	µg/kg dry	10.1	2.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 10.1	U	µg/kg dry	10.1	3.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.2	U	µg/kg dry	20.2	3.8	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 10.1	U	µg/kg dry	10.1	2.6	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 10.1	U	µg/kg dry	10.1	3.6	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 10.1	U	µg/kg dry	10.1	5.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 10.1	U	µg/kg dry	10.1	3.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 10.1	U	µg/kg dry	10.1	5.3	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 10.1	U	µg/kg dry	10.1	5.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 10.1	U	µg/kg dry	10.1	6.1	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 10.1	U	µg/kg dry	10.1	5.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 20.2	U	µg/kg dry	20.2	4.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 10.1	U	µg/kg dry	10.1	8.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 10.1	U	µg/kg dry	10.1	3.4	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 10.1	U	µg/kg dry	10.1	3.3	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 10.1	U	µg/kg dry	10.1	7.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	10.4		µg/kg dry	10.1	2.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 10.1	U	µg/kg dry	10.1	5.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 10.1	U	µg/kg dry	10.1	3.4	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	85			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	122			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109			70-130 %			"	"	"	"	"	

**General Chemistry Parameters**

% Solids

69.9

%

1

SM2540 G (11)  
Mod.

09-Nov-18 09-Nov-18

BD

1814872

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Sample Identification

MW B (11')  
SC51827-06

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
06-Nov-18 11:50

Received  
09-Nov-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Volatile Organic Compounds**  
Prepared by method Volatiles

VOC Extraction      **Field extracted**      N/A      1      VOC Soil Extraction      BD      1814877

**Volatile Organic Halocarbons by SW846**  
8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 7.24 g

75-27-4	Bromodichloromethane	< 4.2	U	µg/kg dry	4.2	2.8	1	SW846 8260C	13-Nov-18	13-Nov-18	mp	1814950	X
75-25-2	Bromoform	< 4.2	U	µg/kg dry	4.2	4.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.4	U	µg/kg dry	8.4	3.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.2	U	µg/kg dry	4.2	3.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.2	U	µg/kg dry	4.2	1.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.4	U	µg/kg dry	8.4	2.3	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.2	U	µg/kg dry	4.2	2.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.4	U	µg/kg dry	8.4	1.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.2	U	µg/kg dry	4.2	2.9	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.2	U	µg/kg dry	4.2	1.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.2	U	µg/kg dry	4.2	0.9	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.2	U	µg/kg dry	4.2	1.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.4	U	µg/kg dry	8.4	1.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.2	U	µg/kg dry	4.2	1.1	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.2	U	µg/kg dry	4.2	1.5	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.2	U	µg/kg dry	4.2	2.2	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	<b>1.8</b>	J	µg/kg dry	4.2	1.6	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.2	U	µg/kg dry	4.2	2.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.2	U	µg/kg dry	4.2	2.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.2	U	µg/kg dry	4.2	2.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.2	U	µg/kg dry	4.2	2.2	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.4	U	µg/kg dry	8.4	1.7	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.2	U	µg/kg dry	4.2	3.6	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.2	U	µg/kg dry	4.2	1.4	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4.2	U	µg/kg dry	4.2	1.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.2	U	µg/kg dry	4.2	3.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	<b>4.8</b>		µg/kg dry	4.2	1.1	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.2	U	µg/kg dry	4.2	2.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	<b>4.0</b>	J	µg/kg dry	4.2	1.4	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	108			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	121			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %			"	"	"	"	"	

**General Chemistry Parameters**

% Solids      **91.8**      %      1      SM2540 G (11) Mod.      09-Nov-18      09-Nov-18      BD      1814872

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Sample Identification

MW D (9') Client Project # 5529S-18 Matrix Soil Collection Date/Time 06-Nov-18 15:30 Received 09-Nov-18  
 SC51827-07

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

Volatile Organic Compounds

Prepared by method Volatiles

VOC Extraction Field extracted N/A 1 VOC Soil Extraction BD 1814877

Volatile Organic Halocarbons by SW846

R05

8260

Prepared by method SW846 5035A Soil (high level)

Initial weight: 28.33 g

75-27-4	Bromodichloromethane	< 40.5	U, D	µg/kg dry	40.5	27.0	50	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
75-25-2	Bromoform	< 40.5	U, D	µg/kg dry	40.5	38.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 81.0	U, D	µg/kg dry	81.0	36.6	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 40.5	U, D	µg/kg dry	40.5	33.1	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 40.5	U, D	µg/kg dry	40.5	12.7	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 81.0	U, D	µg/kg dry	81.0	22.5	50	"	"	"	"	"	X
67-66-3	Chloroform	< 40.5	U, D	µg/kg dry	40.5	21.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 81.0	U, D	µg/kg dry	81.0	16.7	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 40.5	U, D	µg/kg dry	40.5	27.5	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 40.5	U, D	µg/kg dry	40.5	10.5	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 40.5	U, D	µg/kg dry	40.5	8.8	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 40.5	U, D	µg/kg dry	40.5	12.0	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 81.0	U, D	µg/kg dry	81.0	15.4	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 40.5	U, D	µg/kg dry	40.5	10.6	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 40.5	U, D	µg/kg dry	40.5	14.5	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 40.5	U, D	µg/kg dry	40.5	21.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 40.5	U, D	µg/kg dry	40.5	15.0	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 40.5	U, D	µg/kg dry	40.5	21.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 40.5	U, D	µg/kg dry	40.5	21.2	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 40.5	U, D	µg/kg dry	40.5	24.4	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 40.5	U, D	µg/kg dry	40.5	21.3	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 81.0	U, D	µg/kg dry	81.0	16.1	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 40.5	U, D	µg/kg dry	40.5	34.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 40.5	U, D	µg/kg dry	40.5	13.9	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 40.5	U, D	µg/kg dry	40.5	13.5	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 40.5	U, D	µg/kg dry	40.5	29.4	50	"	"	"	"	"	X
79-01-6	Trichloroethene	108	D	µg/kg dry	81.0	64.8	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 40.5	U, D	µg/kg dry	40.5	21.8	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 40.5	U, D	µg/kg dry	40.5	13.7	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	119			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	112			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids 84.5 % 1 SM2540 G (11) Mod. 09-Nov-18 09-Nov-18 BD 1814872

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Sample Identification

**TB-Soil** Client Project # 5529S-18 Matrix Trip Blank Collection Date/Time 06-Nov-18 00:00 Received 09-Nov-18  
 SC51827-08

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

Volatile Organic Halocarbons by SW846

8260

Prepared by method SW846 5035A Soil (low level)

75-27-4	Bromodichloromethane	< 5.0	U	µg/kg wet	5.0	3.3	1	SW846 8260C	13-Nov-18	13-Nov-18	mp	1814950	X
75-25-2	Bromoform	< 5.0	U	µg/kg wet	5.0	4.8	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg wet	10.0	4.5	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.0	U	µg/kg wet	5.0	4.1	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.0	U	µg/kg wet	5.0	1.6	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg wet	10.0	2.8	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.0	U	µg/kg wet	5.0	2.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg wet	10.0	2.1	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.0	U	µg/kg wet	5.0	3.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.0	U	µg/kg wet	5.0	1.3	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.0	U	µg/kg wet	5.0	1.1	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.0	U	µg/kg wet	5.0	1.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0	1.9	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.0	U	µg/kg wet	5.0	1.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.0	U	µg/kg wet	5.0	1.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.0	U	µg/kg wet	5.0	2.6	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.0	U	µg/kg wet	5.0	1.9	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.0	U	µg/kg wet	5.0	2.6	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.0	U	µg/kg wet	5.0	2.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.0	U	µg/kg wet	5.0	3.0	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.0	U	µg/kg wet	5.0	2.6	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg wet	10.0	2.0	1	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 5.0	U	µg/kg wet	5.0	4.2	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.0	U	µg/kg wet	5.0	1.7	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.0	U	µg/kg wet	5.0	1.7	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.0	U	µg/kg wet	5.0	3.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.0	U	µg/kg wet	5.0	1.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.0	U	µg/kg wet	5.0	2.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.0	U	µg/kg wet	5.0	1.7	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	106			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	121			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	107			70-130 %			"	"	"	"	"	

Re-analysis of Volatile Organic Halocarbons

by SW846 8260

Prepared by method SW846 5035A Soil (high level)

75-27-4	Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0	33.4	50	SW846 8260C	15-Nov-18	15-Nov-18	MP	1815084	X
75-25-2	Bromoform	< 50.0	U, D	µg/kg wet	50.0	47.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 100	U, D	µg/kg wet	100	45.2	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0	40.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.6	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 100	U, D	µg/kg wet	100	27.8	50	"	"	"	"	"	X

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Sample Identification

**TB-Soil** Client Project # 5529S-18 Matrix Trip Blank Collection Date/Time 06-Nov-18 00:00 Received 09-Nov-18  
 SC51827-08

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

Re-analysis of Volatile Organic Halocarbons  
 by SW846 8260

67-66-3	Chloroform	< 50.0	U, D	µg/kg wet	50.0	26.8	50	SW846 8260C	15-Nov-18	15-Nov-18	MP	1815084	X
74-87-3	Chloromethane	< 100	U, D	µg/kg wet	100	20.6	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0	33.9	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	13.0	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	14.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100	19.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	13.1	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	17.9	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	18.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	30.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 100	U, D	µg/kg wet	100	19.8	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0	17.1	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	16.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	36.2	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 50.0	U, D	µg/kg wet	50.0	13.6	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0	16.9	50	"	"	"	"	"	X

*Surrogate recoveries:*

460-00-4	4-Bromofluorobenzene	115			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	103			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	112			70-130 %			"	"	"	"	"	

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

Sample Identification

MW-A  
SC51827-09

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
08-Nov-18 13:25

Received  
09-Nov-18

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

Volatile Organic Halocarbons by SW846

GS1

8260

Prepared by method SW846 5030 Water MS

75-27-4	Bromodichloromethane	< 250	U, D	µg/l	250	146	500	SW846 8260C	12-Nov-18	13-Nov-18	MP	1814905	X
75-25-2	Bromoform	< 500	U, D	µg/l	500	121	500	"	"	"	"	"	X
74-83-9	Bromomethane	< 1000	U, D	µg/l	1000	223	500	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 500	U, D	µg/l	500	196	500	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 500	U, D	µg/l	500	150	500	"	"	"	"	"	X
75-00-3	Chloroethane	< 1000	U, D	µg/l	1000	202	500	"	"	"	"	"	X
67-66-3	Chloroform	< 500	U, D	µg/l	500	143	500	"	"	"	"	"	X
74-87-3	Chloromethane	< 1000	U, D	µg/l	1000	180	500	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 250	U, D	µg/l	250	146	500	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 500	U, D	µg/l	500	122	500	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 500	U, D	µg/l	500	150	500	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 500	U, D	µg/l	500	136	500	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 1000	U, D	µg/l	1000	172	500	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 500	U, D	µg/l	500	146	500	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 500	U, D	µg/l	500	90.5	500	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 500	U, D	µg/l	500	157	500	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	<b>1,310</b>	D	µg/l	500	198	500	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 500	U, D	µg/l	500	190	500	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 500	U, D	µg/l	500	144	500	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 250	U, D	µg/l	250	164	500	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 250	U, D	µg/l	250	153	500	"	"	"	"	"	X
75-09-2	Methylene chloride	< 1000	U, D	µg/l	1000	192	500	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 250	U, D	µg/l	250	128	500	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 500	U, D	µg/l	500	156	500	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 500	U, D	µg/l	500	122	500	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 500	U, D	µg/l	500	154	500	"	"	"	"	"	X
79-01-6	Trichloroethene	<b>46,900</b>	D	µg/l	500	178	500	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 500	U, D	µg/l	500	138	500	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 500	U, D	µg/l	500	201	500	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	88			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %			"	"	"	"	"	

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Sample Identification

MW-B  
SC51827-10

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
08-Nov-18 11:35

Received  
09-Nov-18

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

Volatile Organic Halocarbons by SW846

8260

Prepared by method SW846 5030 Water MS

75-27-4	Bromodichloromethane	< 0.5	U	µg/l	0.5	0.3	1	SW846 8260C	12-Nov-18	13-Nov-18	MP	1814905	X
75-25-2	Bromoform	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0	U	µg/l	2.0	0.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	0.8	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	0.6	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	26.7		µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	0.6	J	µg/l	1.0	0.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	42.5		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	15.6		µg/l	1.0	0.4	1	"	"	"	"	"	X

*Surrogate recoveries:*

460-00-4	4-Bromofluorobenzene	89			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %			"	"	"	"	"	

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Sample Identification

MW-C  
SC51827-11

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
08-Nov-18 10:35

Received  
09-Nov-18

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

Volatile Organic Halocarbons by SW846

8260

Prepared by method SW846 5030 Water MS

75-27-4	Bromodichloromethane	< 0.5	U	µg/l	0.5	0.3	1	SW846 8260C	12-Nov-18	13-Nov-18	MP	1814905	X
75-25-2	Bromoform	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0	U	µg/l	2.0	0.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	1.5		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X

*Surrogate recoveries:*

460-00-4	4-Bromofluorobenzene	91			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	94			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	78			70-130 %			"	"	"	"	"	

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Sample Identification

MW-D  
SC51827-12

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
08-Nov-18 11:05

Received  
09-Nov-18

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

Volatile Organic Halocarbons by SW846

8260

Prepared by method SW846 5030 Water MS

75-27-4	Bromodichloromethane	< 0.5	U	µg/l	0.5	0.3	1	SW846 8260C	12-Nov-18	13-Nov-18	MP	1814905	X
75-25-2	Bromoform	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0	U	µg/l	2.0	0.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	3.2		µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	0.9	J	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	5.5		µg/l	1.0	0.4	1	"	"	"	"	"	X

*Surrogate recoveries:*

460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	"	

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Sample Identification

TB-Ground Water

SC51827-13

Client Project #

5529S-18

Matrix

Trip Blank

Collection Date/Time

08-Nov-18 00:00

Received

09-Nov-18

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

Volatile Organic Halocarbons by SW846

8260

Prepared by method SW846 5030 Water MS

75-27-4	Bromodichloromethane	< 0.5	U	µg/l	0.5	0.3	1	SW846 8260C	12-Nov-18	13-Nov-18	MP	1814905	X
75-25-2	Bromoform	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0	U	µg/l	2.0	0.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X

*Surrogate recoveries:*

460-00-4	4-Bromofluorobenzene	90			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	106			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	106			70-130 %			"	"	"	"	"	

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Sample Identification

MW-A Sediment

SC51827-14

Client Project #

5529S-18

Matrix

Sediment

Collection Date/Time

08-Nov-18 12:30

Received

09-Nov-18

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

Prepared by method Volatiles

VOC Extraction

Lab  
extracted

N/A

1

VOC Soil  
Extraction

09-Nov-18

BD

1814877

Volatile Organic Halocarbons by SW846

GS1

8260

Prepared by method SW846 5035A Soil (high level)

Initial weight: 15.96 g

75-27-4	Bromodichloromethane	< 416	U, D	µg/kg dry	416	278	200	SW846 8260C	13-Nov-18	13-Nov-18	MP	1814951	X
75-25-2	Bromoform	< 416	U, D	µg/kg dry	416	397	200	"	"	"	"	"	X
74-83-9	Bromomethane	< 832	U, D	µg/kg dry	832	376	200	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 416	U, D	µg/kg dry	416	340	200	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 416	U, D	µg/kg dry	416	130	200	"	"	"	"	"	X
75-00-3	Chloroethane	< 832	U, D	µg/kg dry	832	231	200	"	"	"	"	"	X
67-66-3	Chloroform	< 416	U, D	µg/kg dry	416	224	200	"	"	"	"	"	X
74-87-3	Chloromethane	< 832	U, D	µg/kg dry	832	172	200	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 416	U, D	µg/kg dry	416	282	200	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 416	U, D	µg/kg dry	416	108	200	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 416	U, D	µg/kg dry	416	90.3	200	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 416	U, D	µg/kg dry	416	123	200	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 832	U, D	µg/kg dry	832	158	200	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 416	U, D	µg/kg dry	416	109	200	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 416	U, D	µg/kg dry	416	149	200	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	1,740	D	µg/kg dry	416	218	200	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	153,000	D, E	µg/kg dry	416	154	200	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	587	D	µg/kg dry	416	221	200	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 416	U, D	µg/kg dry	416	218	200	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 416	U, D	µg/kg dry	416	251	200	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 416	U, D	µg/kg dry	416	219	200	"	"	"	"	"	X
75-09-2	Methylene chloride	< 832	U, D	µg/kg dry	832	165	200	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 416	U, D	µg/kg dry	416	352	200	"	"	"	"	"	X
127-18-4	Tetrachloroethene	1,090	D	µg/kg dry	416	142	200	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 416	U, D	µg/kg dry	416	138	200	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 416	U, D	µg/kg dry	416	302	200	"	"	"	"	"	X
79-01-6	Trichloroethene	3,320,000	D, E	µg/kg dry	416	114	200	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 416	U, D	µg/kg dry	416	224	200	"	"	"	"	"	X
75-01-4	Vinyl chloride	2,320	D	µg/kg dry	416	141	200	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	105			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	112			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %			"	"	"	"	"	

Re-analysis of Volatile Organic Halocarbons by SW846 8260

GS1

Prepared by method SW846 5035A Soil (high level)

Initial weight: 15.96 g

75-27-4	Bromodichloromethane	< 104000	U, D	µg/kg dry	104000	69400	50000	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
75-25-2	Bromoform	< 104000	U, D	µg/kg dry	104000	99300	50000	"	"	"	"	"	X
74-83-9	Bromomethane	129,000	J, D	µg/kg dry	208000	94000	50000	"	"	"	"	"	X

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Sample Identification

MW-A Sediment

SC51827-14

Client Project #

5529S-18

Matrix

Sediment

Collection Date/Time

08-Nov-18 12:30

Received

09-Nov-18

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

Re-analysis of Volatile Organic Halocarbons  
by SW846 8260

GS1

Initial weight: 15.96 g

56-23-5	Carbon tetrachloride	< 104000	U, D	µg/kg dry	104000	85100	50000	SW846 8260C	14-Nov-18	14-Nov-18	MP	1815012	X
108-90-7	Chlorobenzene	< 104000	U, D	µg/kg dry	104000	32600	50000	"	"	"	"	"	X
75-00-3	Chloroethane	< 208000	U, D	µg/kg dry	208000	57800	50000	"	"	"	"	"	X
67-66-3	Chloroform	< 104000	U, D	µg/kg dry	104000	55900	50000	"	"	"	"	"	X
74-87-3	Chloromethane	< 208000	U, D	µg/kg dry	208000	43000	50000	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 104000	U, D	µg/kg dry	104000	70600	50000	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 104000	U, D	µg/kg dry	104000	27100	50000	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 104000	U, D	µg/kg dry	104000	22600	50000	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 104000	U, D	µg/kg dry	104000	30800	50000	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 208000	U, D	µg/kg dry	208000	39400	50000	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 104000	U, D	µg/kg dry	104000	27300	50000	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 104000	U, D	µg/kg dry	104000	37300	50000	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 104000	U, D	µg/kg dry	104000	54400	50000	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	163,000	D	µg/kg dry	104000	38600	50000	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 104000	U, D	µg/kg dry	104000	55200	50000	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 104000	U, D	µg/kg dry	104000	54500	50000	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 104000	U, D	µg/kg dry	104000	62700	50000	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 104000	U, D	µg/kg dry	104000	54600	50000	"	"	"	"	"	X
75-09-2	Methylene chloride	< 208000	U, D	µg/kg dry	208000	41300	50000	"	"	"	"	"	X
79-34-5	1,1,1,2-Tetrachloroethane	< 104000	U, D	µg/kg dry	104000	88000	50000	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 104000	U, D	µg/kg dry	104000	35600	50000	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 104000	U, D	µg/kg dry	104000	34500	50000	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 104000	U, D	µg/kg dry	104000	75400	50000	"	"	"	"	"	X
79-01-6	Trichloroethene	10,300,000	D	µg/kg dry	208000	166000	50000	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 104000	U, D	µg/kg dry	104000	56100	50000	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 104000	U, D	µg/kg dry	104000	35200	50000	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	106			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	116			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	107			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	63.0	%					1	SM2540 G (11) Mod.	09-Nov-18	09-Nov-18	BD	1814872	
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Sample Identification

MW-A LNAPL  
SC51827-15

Client Project #  
5529S-18

Matrix  
LNAPL

Collection Date/Time  
08-Nov-18 13:55

Received  
09-Nov-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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**Volatile Organic Compounds**  
Prepared by method Volatiles

VOC Extraction	Lab extracted			N/A			1	VOC Soil Extraction	09-Nov-18		BD	1814877	
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**Volatile Organic Halocarbons by SW846** GS1

8260  
Prepared by method SW846 5035A Soil (high level) Initial weight: 5.31 g

75-27-4	Bromodichloromethane	< 4710	U, D	µg/kg	4710	3140	5000	SW846 8260C	12-Nov-18	12-Nov-18	MP	1814913	X
75-25-2	Bromoform	< 4710	U, D	µg/kg	4710	4490	5000	"	"	"	"	"	X
74-83-9	Bromomethane	< 9420	U, D	µg/kg	9420	4250	5000	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4710	U, D	µg/kg	4710	3850	5000	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4710	U, D	µg/kg	4710	1470	5000	"	"	"	"	"	X
75-00-3	Chloroethane	< 9420	U, D	µg/kg	9420	2610	5000	"	"	"	"	"	X
67-66-3	Chloroform	< 4710	U, D	µg/kg	4710	2530	5000	"	"	"	"	"	X
74-87-3	Chloromethane	< 9420	U, D	µg/kg	9420	1940	5000	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4710	U, D	µg/kg	4710	3190	5000	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4710	U, D	µg/kg	4710	1220	5000	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4710	U, D	µg/kg	4710	1020	5000	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4710	U, D	µg/kg	4710	1390	5000	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9420	U, D	µg/kg	9420	1780	5000	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4710	U, D	µg/kg	4710	1230	5000	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4710	U, D	µg/kg	4710	1690	5000	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4710	U, D	µg/kg	4710	2460	5000	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	17,800	D	µg/kg	4710	1750	5000	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4710	U, D	µg/kg	4710	2500	5000	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4710	U, D	µg/kg	4710	2470	5000	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4710	U, D	µg/kg	4710	2840	5000	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4710	U, D	µg/kg	4710	2470	5000	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9420	U, D	µg/kg	9420	1870	5000	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4710	U, D	µg/kg	4710	3980	5000	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4710	U, D	µg/kg	4710	1610	5000	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4710	U, D	µg/kg	4710	1560	5000	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4710	U, D	µg/kg	4710	3410	5000	"	"	"	"	"	X
79-01-6	Trichloroethene	1,710,000	D, E	µg/kg	4710	1290	5000	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4710	U, D	µg/kg	4710	2540	5000	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4710	U, D	µg/kg	4710	1590	5000	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	106			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	125			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	110			70-130 %			"	"	"	"	"	

**Re-analysis of Volatile Organic Halocarbons** GS1  
by SW846 8260

75-27-4	Bromodichloromethane	< 47100	U, D	µg/kg	47100	31400	50000	SW846 8260C	14-Nov-18	15-Nov-18	MP	1815015	X
75-25-2	Bromoform	< 47100	U, D	µg/kg	47100	44900	50000	"	"	"	"	"	X
74-83-9	Bromomethane	< 94200	U, D	µg/kg	94200	61200	50000	"	"	"	"	"	X

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Sample Identification

MW-A LNAPL  
SC51827-15

Client Project #  
5529S-18

Matrix  
LNAPL

Collection Date/Time  
08-Nov-18 13:55

Received  
09-Nov-18

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

Re-analysis of Volatile Organic Halocarbons  
by SW846 8260

GS1

Initial weight: 5.31 g

56-23-5	Carbon tetrachloride	< 47100	U, D	µg/kg	47100	38500	50000	SW846 8260C	14-Nov-18	15-Nov-18	MP	1815015	X
108-90-7	Chlorobenzene	< 47100	U, D	µg/kg	47100	14700	50000	"	"	"	"	"	X
75-00-3	Chloroethane	< 94200	U, D	µg/kg	94200	26100	50000	"	"	"	"	"	X
67-66-3	Chloroform	< 47100	U, D	µg/kg	47100	38100	50000	"	"	"	"	"	X
74-87-3	Chloromethane	< 94200	U, D	µg/kg	94200	19400	50000	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 47100	U, D	µg/kg	47100	31900	50000	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 47100	U, D	µg/kg	47100	12200	50000	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 47100	U, D	µg/kg	47100	10200	50000	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 47100	U, D	µg/kg	47100	13900	50000	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 94200	U, D	µg/kg	94200	17800	50000	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 47100	U, D	µg/kg	47100	12300	50000	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 47100	U, D	µg/kg	47100	16900	50000	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 47100	U, D	µg/kg	47100	24600	50000	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 47100	U, D	µg/kg	47100	17500	50000	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 47100	U, D	µg/kg	47100	25000	50000	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 47100	U, D	µg/kg	47100	24700	50000	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 47100	U, D	µg/kg	47100	28400	50000	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 47100	U, D	µg/kg	47100	24700	50000	"	"	"	"	"	X
75-09-2	Methylene chloride	< 94200	U, D	µg/kg	94200	18700	50000	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 47100	U, D	µg/kg	47100	39800	50000	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 47100	U, D	µg/kg	47100	16100	50000	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 47100	U, D	µg/kg	47100	15600	50000	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 47100	U, D	µg/kg	47100	34100	50000	"	"	"	"	"	X
79-01-6	Trichloroethene	1,170,000	D	µg/kg	47100	28200	50000	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 47100	U, D	µg/kg	47100	25400	50000	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 47100	U, D	µg/kg	47100	15900	50000	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	106			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	109			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	106			70-130 %			"	"	"	"	"	

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814905 - SW846 5030 Water MS</b>										
<b>Blank (1814905-BLK1)</b>					<u>Prepared &amp; Analyzed: 12-Nov-18</u>					
Bromodichloromethane	< 0.5	U	µg/l	0.5						
Bromoform	< 1.0	U	µg/l	1.0						
Bromomethane	< 2.0	U	µg/l	2.0						
Carbon tetrachloride	< 1.0	U	µg/l	1.0						
Chlorobenzene	< 1.0	U	µg/l	1.0						
Chloroethane	< 2.0	U	µg/l	2.0						
Chloroform	< 1.0	U	µg/l	1.0						
Chloromethane	< 2.0	U	µg/l	2.0						
Dibromochloromethane	< 0.5	U	µg/l	0.5						
1,2-Dichlorobenzene	< 1.0	U	µg/l	1.0						
1,3-Dichlorobenzene	< 1.0	U	µg/l	1.0						
1,4-Dichlorobenzene	< 1.0	U	µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0	U	µg/l	2.0						
1,1-Dichloroethane	< 1.0	U	µg/l	1.0						
1,2-Dichloroethane	< 1.0	U	µg/l	1.0						
1,1-Dichloroethene	< 1.0	U	µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0	U	µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0	U	µg/l	1.0						
1,2-Dichloropropane	< 1.0	U	µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5	U	µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5						
Methylene chloride	< 2.0	U	µg/l	2.0						
1,1,1,2-Tetrachloroethane	< 0.5	U	µg/l	0.5						
Tetrachloroethene	< 1.0	U	µg/l	1.0						
1,1,1-Trichloroethane	< 1.0	U	µg/l	1.0						
1,1,2-Trichloroethane	< 1.0	U	µg/l	1.0						
Trichloroethene	< 1.0	U	µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0	U	µg/l	1.0						
Vinyl chloride	< 1.0	U	µg/l	1.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	45.2		µg/l		50.0		90	70-130		
<i>Surrogate: Toluene-d8</i>	49.4		µg/l		50.0		99	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.6		µg/l		50.0		107	70-130		
<i>Surrogate: Dibromofluoromethane</i>	52.8		µg/l		50.0		106	70-130		
<b>LCS (1814905-BS1)</b>					<u>Prepared &amp; Analyzed: 12-Nov-18</u>					
Bromodichloromethane	19.6		µg/l		20.0		98	70-130		
Bromoform	19.6		µg/l		20.0		98	70-130		
Bromomethane	27.1	QM9	µg/l		20.0		135	70-130		
Carbon tetrachloride	18.4		µg/l		20.0		92	70-130		
Chlorobenzene	21.4		µg/l		20.0		107	70-130		
Chloroethane	21.4		µg/l		20.0		107	70-130		
Chloroform	21.6		µg/l		20.0		108	70-130		
Chloromethane	20.5		µg/l		20.0		102	70-130		
Dibromochloromethane	20.4		µg/l		20.0		102	70-130		
1,2-Dichlorobenzene	20.5		µg/l		20.0		103	70-130		
1,3-Dichlorobenzene	22.7		µg/l		20.0		113	70-130		
1,4-Dichlorobenzene	21.1		µg/l		20.0		105	70-130		
Dichlorodifluoromethane (Freon12)	22.7		µg/l		20.0		113	70-130		
1,1-Dichloroethane	21.4		µg/l		20.0		107	70-130		
1,2-Dichloroethane	21.8		µg/l		20.0		109	70-130		
1,1-Dichloroethene	21.9		µg/l		20.0		109	70-130		

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814905 - SW846 5030 Water MS</b>										
<b>LCS (1814905-BS1)</b>					<u>Prepared &amp; Analyzed: 12-Nov-18</u>					
cis-1,2-Dichloroethene	21.5		µg/l		20.0		107	70-130		
trans-1,2-Dichloroethene	21.7		µg/l		20.0		108	70-130		
1,2-Dichloropropane	22.0		µg/l		20.0		110	70-130		
cis-1,3-Dichloropropene	19.6		µg/l		20.0		98	70-130		
trans-1,3-Dichloropropene	19.1		µg/l		20.0		95	70-130		
Methylene chloride	21.0		µg/l		20.0		105	70-130		
1,1,2,2-Tetrachloroethane	21.6		µg/l		20.0		108	70-130		
Tetrachloroethene	22.4		µg/l		20.0		112	70-130		
1,1,1-Trichloroethane	21.6		µg/l		20.0		108	70-130		
1,1,2-Trichloroethane	22.0		µg/l		20.0		110	70-130		
Trichloroethene	21.4		µg/l		20.0		107	70-130		
Trichlorofluoromethane (Freon 11)	22.4		µg/l		20.0		112	70-130		
Vinyl chloride	24.4		µg/l		20.0		122	70-130		
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Surrogate: 4-Bromofluorobenzene	52.3		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	51.3		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.6		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	51.2		µg/l		50.0		102	70-130		
<b>LCS Dup (1814905-BSD1)</b>					<u>Prepared &amp; Analyzed: 12-Nov-18</u>					
Bromodichloromethane	17.8		µg/l		20.0		89	70-130	10	20
Bromoform	19.7		µg/l		20.0		99	70-130	0.8	20
Bromomethane	25.7		µg/l		20.0		128	70-130	5	20
Carbon tetrachloride	17.4		µg/l		20.0		87	70-130	6	20
Chlorobenzene	19.9		µg/l		20.0		99	70-130	7	20
Chloroethane	19.0		µg/l		20.0		95	70-130	12	20
Chloroform	20.4		µg/l		20.0		102	70-130	6	20
Chloromethane	19.2		µg/l		20.0		96	70-130	6	20
Dibromochloromethane	19.8		µg/l		20.0		99	70-130	3	20
1,2-Dichlorobenzene	19.9		µg/l		20.0		99	70-130	3	20
1,3-Dichlorobenzene	19.0		µg/l		20.0		95	70-130	17	20
1,4-Dichlorobenzene	19.8		µg/l		20.0		99	70-130	6	20
Dichlorodifluoromethane (Freon12)	20.9		µg/l		20.0		105	70-130	8	20
1,1-Dichloroethane	20.1		µg/l		20.0		101	70-130	6	20
1,2-Dichloroethane	21.3		µg/l		20.0		107	70-130	2	20
1,1-Dichloroethene	19.7		µg/l		20.0		99	70-130	10	20
cis-1,2-Dichloroethene	20.4		µg/l		20.0		102	70-130	5	20
trans-1,2-Dichloroethene	19.7		µg/l		20.0		99	70-130	10	20
1,2-Dichloropropane	21.3		µg/l		20.0		107	70-130	3	20
cis-1,3-Dichloropropene	18.6		µg/l		20.0		93	70-130	5	20
trans-1,3-Dichloropropene	18.1		µg/l		20.0		90	70-130	5	20
Methylene chloride	20.1		µg/l		20.0		100	70-130	5	20
1,1,2,2-Tetrachloroethane	21.2		µg/l		20.0		106	70-130	2	20
Tetrachloroethene	20.4		µg/l		20.0		102	70-130	9	20
1,1,1-Trichloroethane	19.6		µg/l		20.0		98	70-130	10	20
1,1,2-Trichloroethane	21.7		µg/l		20.0		109	70-130	1	20
Trichloroethene	20.4		µg/l		20.0		102	70-130	4	20
Trichlorofluoromethane (Freon 11)	20.7		µg/l		20.0		104	70-130	8	20
Vinyl chloride	22.4		µg/l		20.0		112	70-130	9	20
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Surrogate: 4-Bromofluorobenzene	51.1		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	51.4		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.2		µg/l		50.0		100	70-130		

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814905 - SW846 5030 Water MS</b>										
<b>LCS Dup (1814905-BSD1)</b>					<b>Prepared &amp; Analyzed: 12-Nov-18</b>					
<i>Surrogate: Dibromofluoromethane</i>	50.7		µg/l		50.0		101	70-130		
<b>Batch 1814913 - SW846 5035A Soil (high level)</b>										
<b>Blank (1814913-BLK1)</b>					<b>Prepared &amp; Analyzed: 12-Nov-18</b>					
Bromodichloromethane	< 50.0	U, D	µg/kg	50.0						
Bromoform	< 50.0	U, D	µg/kg	50.0						
Bromomethane	< 100	U, D	µg/kg	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg	50.0						
Chloroethane	< 100	U, D	µg/kg	100						
Chloroform	< 50.0	U, D	µg/kg	50.0						
Chloromethane	< 100	U, D	µg/kg	100						
Dibromochloromethane	< 50.0	U, D	µg/kg	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg	50.0						
Methylene chloride	< 100	U, D	µg/kg	100						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg	50.0						
Trichloroethene	< 50.0	U, D	µg/kg	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg	50.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	52.0		µg/kg		50.0		104	70-130		
<i>Surrogate: Toluene-d8</i>	51.3		µg/kg		50.0		103	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	62.3		µg/kg		50.0		125	70-130		
<i>Surrogate: Dibromofluoromethane</i>	55.8		µg/kg		50.0		112	70-130		
<b>LCS (1814913-BS1)</b>					<b>Prepared &amp; Analyzed: 12-Nov-18</b>					
Bromodichloromethane	25.6	D	µg/kg		20.0		128	70-130		
Bromoform	28.0	QC2, D	µg/kg		20.0		140	70-130		
Bromomethane	31.2	D	µg/kg		20.0		156	70-130		
Carbon tetrachloride	29.8	QC2, D	µg/kg		20.0		149	70-130		
Chlorobenzene	19.4	D	µg/kg		20.0		97	70-130		
Chloroethane	24.4	D	µg/kg		20.0		122	70-130		
Chloroform	23.0	D	µg/kg		20.0		115	70-130		
Chloromethane	21.1	D	µg/kg		20.0		105	70-130		
Dibromochloromethane	26.0	D	µg/kg		20.0		130	70-130		
1,2-Dichlorobenzene	21.0	D	µg/kg		20.0		105	70-130		
1,3-Dichlorobenzene	21.0	D	µg/kg		20.0		105	70-130		
1,4-Dichlorobenzene	20.1	D	µg/kg		20.0		101	70-130		

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814913 - SW846 5035A Soil (high level)</b>										
<b>LCS (1814913-BS1)</b>					<u>Prepared &amp; Analyzed: 12-Nov-18</u>					
Dichlorodifluoromethane (Freon12)	25.9	D	µg/kg		20.0		129	70-130		
1,1-Dichloroethane	20.8	D	µg/kg		20.0		104	70-130		
1,2-Dichloroethane	25.5	D	µg/kg		20.0		127	70-130		
1,1-Dichloroethene	24.0	D	µg/kg		20.0		120	70-130		
cis-1,2-Dichloroethene	20.2	D	µg/kg		20.0		101	70-130		
trans-1,2-Dichloroethene	19.9	D	µg/kg		20.0		100	70-130		
1,2-Dichloropropane	19.0	D	µg/kg		20.0		95	70-130		
cis-1,3-Dichloropropene	20.5	D	µg/kg		20.0		102	70-130		
trans-1,3-Dichloropropene	21.1	D	µg/kg		20.0		105	70-130		
Methylene chloride	24.2	D	µg/kg		20.0		121	70-130		
1,1,2,2-Tetrachloroethane	18.8	D	µg/kg		20.0		94	70-130		
Tetrachloroethene	22.3	D	µg/kg		20.0		112	70-130		
1,1,1-Trichloroethane	25.1	D	µg/kg		20.0		126	70-130		
1,1,2-Trichloroethane	20.0	D	µg/kg		20.0		100	70-130		
Trichloroethene	18.1	D	µg/kg		20.0		91	70-130		
Trichlorofluoromethane (Freon 11)	30.7	QC2, D	µg/kg		20.0		153	70-130		
Vinyl chloride	25.8	D	µg/kg		20.0		129	70-130		
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Surrogate: 4-Bromofluorobenzene	50.7		µg/kg		50.0		101	70-130		
Surrogate: Toluene-d8	52.0		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	61.9		µg/kg		50.0		124	70-130		
Surrogate: Dibromofluoromethane	55.1		µg/kg		50.0		110	70-130		
<b>LCS Dup (1814913-BS1)</b>					<u>Prepared &amp; Analyzed: 12-Nov-18</u>					
Bromodichloromethane	23.8	D	µg/kg		20.0		119	70-130	7	30
Bromoform	27.6	QC2, D	µg/kg		20.0		138	70-130	2	30
Bromomethane	23.9	D	µg/kg		20.0		120	70-130	26	30
Carbon tetrachloride	29.3	QC2, D	µg/kg		20.0		146	70-130	2	30
Chlorobenzene	18.4	D	µg/kg		20.0		92	70-130	5	30
Chloroethane	23.0	D	µg/kg		20.0		115	70-130	6	30
Chloroform	22.3	D	µg/kg		20.0		112	70-130	3	30
Chloromethane	20.7	D	µg/kg		20.0		103	70-130	2	30
Dibromochloromethane	26.5	QM9, D	µg/kg		20.0		133	70-130	2	30
1,2-Dichlorobenzene	19.9	D	µg/kg		20.0		100	70-130	6	30
1,3-Dichlorobenzene	19.6	D	µg/kg		20.0		98	70-130	7	30
1,4-Dichlorobenzene	19.0	D	µg/kg		20.0		95	70-130	6	30
Dichlorodifluoromethane (Freon12)	24.8	D	µg/kg		20.0		124	70-130	4	30
1,1-Dichloroethane	20.2	D	µg/kg		20.0		101	70-130	3	30
1,2-Dichloroethane	23.8	D	µg/kg		20.0		119	70-130	7	30
1,1-Dichloroethene	23.5	D	µg/kg		20.0		117	70-130	2	30
cis-1,2-Dichloroethene	19.5	D	µg/kg		20.0		98	70-130	3	30
trans-1,2-Dichloroethene	19.6	D	µg/kg		20.0		98	70-130	2	30
1,2-Dichloropropane	18.2	D	µg/kg		20.0		91	70-130	5	30
cis-1,3-Dichloropropene	20.0	D	µg/kg		20.0		100	70-130	2	30
trans-1,3-Dichloropropene	20.5	D	µg/kg		20.0		103	70-130	3	30
Methylene chloride	23.6	D	µg/kg		20.0		118	70-130	3	30
1,1,2,2-Tetrachloroethane	18.7	D	µg/kg		20.0		94	70-130	0.3	30
Tetrachloroethene	21.5	D	µg/kg		20.0		108	70-130	4	30
1,1,1-Trichloroethane	25.4	D	µg/kg		20.0		127	70-130	1	30
1,1,2-Trichloroethane	19.8	D	µg/kg		20.0		99	70-130	1	30
Trichloroethene	18.0	D	µg/kg		20.0		90	70-130	0.5	30
Trichlorofluoromethane (Freon 11)	29.5	QC2, D	µg/kg		20.0		148	70-130	4	30

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814913 - SW846 5035A Soil (high level)</b>										
<b>LCS Dup (1814913-BSD1)</b>					<u>Prepared &amp; Analyzed: 12-Nov-18</u>					
Vinyl chloride	23.1	D	µg/kg		20.0		116	70-130	11	30
Surrogate: 4-Bromofluorobenzene	50.6		µg/kg		50.0		101	70-130		
Surrogate: Toluene-d8	51.8		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	63.8		µg/kg		50.0		128	70-130		
Surrogate: Dibromofluoromethane	56.0		µg/kg		50.0		112	70-130		
<b>Batch 1814950 - SW846 5035A Soil (low level)</b>										
<b>Blank (1814950-BLK1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Bromodichloromethane	< 5.0	U	µg/kg wet	5.0						
Bromoform	< 5.0	U	µg/kg wet	5.0						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.0	U	µg/kg wet	5.0						
Chlorobenzene	< 5.0	U	µg/kg wet	5.0						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.0	U	µg/kg wet	5.0						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.0	U	µg/kg wet	5.0						
1,2-Dichlorobenzene	< 5.0	U	µg/kg wet	5.0						
1,3-Dichlorobenzene	< 5.0	U	µg/kg wet	5.0						
1,4-Dichlorobenzene	< 5.0	U	µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.0	U	µg/kg wet	5.0						
1,2-Dichloroethane	< 5.0	U	µg/kg wet	5.0						
1,1-Dichloroethene	< 5.0	U	µg/kg wet	5.0						
cis-1,2-Dichloroethene	< 5.0	U	µg/kg wet	5.0						
trans-1,2-Dichloroethene	< 5.0	U	µg/kg wet	5.0						
1,2-Dichloropropane	< 5.0	U	µg/kg wet	5.0						
cis-1,3-Dichloropropene	< 5.0	U	µg/kg wet	5.0						
trans-1,3-Dichloropropene	< 5.0	U	µg/kg wet	5.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
1,1,2,2-Tetrachloroethane	< 5.0	U	µg/kg wet	5.0						
Tetrachloroethene	< 5.0	U	µg/kg wet	5.0						
1,1,1-Trichloroethane	< 5.0	U	µg/kg wet	5.0						
1,1,2-Trichloroethane	< 5.0	U	µg/kg wet	5.0						
Trichloroethene	< 5.0	U	µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	< 5.0	U	µg/kg wet	5.0						
Vinyl chloride	< 5.0	U	µg/kg wet	5.0						
Surrogate: 4-Bromofluorobenzene	46.7		µg/kg		50.0		93	70-130		
Surrogate: Toluene-d8	53.4		µg/kg		50.0		107	70-130		
Surrogate: 1,2-Dichloroethane-d4	64.1		µg/kg		50.0		128	70-130		
Surrogate: Dibromofluoromethane	55.1		µg/kg		50.0		110	70-130		
<b>LCS (1814950-BS1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Bromodichloromethane	23.9		µg/kg		20.0		119	70-130		
Bromoform	22.2		µg/kg		20.0		111	70-130		
Bromomethane	19.3		µg/kg		20.0		96	70-130		
Carbon tetrachloride	25.9		µg/kg		20.0		129	70-130		
Chlorobenzene	20.5		µg/kg		20.0		102	70-130		
Chloroethane	19.8		µg/kg		20.0		99	70-130		
Chloroform	22.1		µg/kg		20.0		111	70-130		
Chloromethane	23.2		µg/kg		20.0		116	70-130		

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## Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814950 - SW846 5035A Soil (low level)</b>										
<b>LCS (1814950-BS1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Dibromochloromethane	23.9		µg/kg		20.0		119	70-130		
1,2-Dichlorobenzene	19.8		µg/kg		20.0		99	70-130		
1,3-Dichlorobenzene	21.9		µg/kg		20.0		110	70-130		
1,4-Dichlorobenzene	20.1		µg/kg		20.0		101	70-130		
Dichlorodifluoromethane (Freon12)	21.4		µg/kg		20.0		107	70-130		
1,1-Dichloroethane	22.6		µg/kg		20.0		113	70-130		
1,2-Dichloroethane	22.8		µg/kg		20.0		114	70-130		
1,1-Dichloroethene	22.3		µg/kg		20.0		112	70-130		
cis-1,2-Dichloroethene	22.0		µg/kg		20.0		110	70-130		
trans-1,2-Dichloroethene	22.5		µg/kg		20.0		112	70-130		
1,2-Dichloropropane	22.8		µg/kg		20.0		114	70-130		
cis-1,3-Dichloropropene	20.9		µg/kg		20.0		105	70-130		
trans-1,3-Dichloropropene	21.1		µg/kg		20.0		106	70-130		
Methylene chloride	20.2		µg/kg		20.0		101	70-130		
1,1,2,2-Tetrachloroethane	22.1		µg/kg		20.0		110	70-130		
Tetrachloroethene	25.8		µg/kg		20.0		129	70-130		
1,1,1-Trichloroethane	23.8		µg/kg		20.0		119	70-130		
1,1,2-Trichloroethane	23.1		µg/kg		20.0		115	70-130		
Trichloroethene	23.6		µg/kg		20.0		118	70-130		
Trichlorofluoromethane (Freon 11)	25.3		µg/kg		20.0		127	70-130		
Vinyl chloride	19.4		µg/kg		20.0		97	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	50.4		µg/kg		50.0		101	70-130		
<i>Surrogate: Toluene-d8</i>	53.1		µg/kg		50.0		106	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.4		µg/kg		50.0		105	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.3		µg/kg		50.0		107	70-130		
<b>LCS Dup (1814950-BSD1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Bromodichloromethane	22.9		µg/kg		20.0		114	70-130	4	30
Bromoform	23.3		µg/kg		20.0		116	70-130	5	30
Bromomethane	22.0		µg/kg		20.0		110	70-130	13	30
Carbon tetrachloride	25.2		µg/kg		20.0		126	70-130	3	30
Chlorobenzene	20.5		µg/kg		20.0		102	70-130	0.1	30
Chloroethane	19.1		µg/kg		20.0		95	70-130	4	30
Chloroform	22.0		µg/kg		20.0		110	70-130	0.4	30
Chloromethane	23.7		µg/kg		20.0		118	70-130	2	30
Dibromochloromethane	22.9		µg/kg		20.0		114	70-130	4	30
1,2-Dichlorobenzene	20.5		µg/kg		20.0		102	70-130	3	30
1,3-Dichlorobenzene	23.1		µg/kg		20.0		115	70-130	5	30
1,4-Dichlorobenzene	20.7		µg/kg		20.0		103	70-130	3	30
Dichlorodifluoromethane (Freon12)	23.4		µg/kg		20.0		117	70-130	9	30
1,1-Dichloroethane	22.6		µg/kg		20.0		113	70-130	0.4	30
1,2-Dichloroethane	22.4		µg/kg		20.0		112	70-130	2	30
1,1-Dichloroethene	20.9		µg/kg		20.0		105	70-130	6	30
cis-1,2-Dichloroethene	22.8		µg/kg		20.0		114	70-130	4	30
trans-1,2-Dichloroethene	22.5		µg/kg		20.0		113	70-130	0.2	30
1,2-Dichloropropane	23.0		µg/kg		20.0		115	70-130	0.7	30
cis-1,3-Dichloropropene	21.2		µg/kg		20.0		106	70-130	1	30
trans-1,3-Dichloropropene	20.8		µg/kg		20.0		104	70-130	2	30
Methylene chloride	20.0		µg/kg		20.0		100	70-130	1	30
1,1,2,2-Tetrachloroethane	21.5		µg/kg		20.0		108	70-130	3	30
Tetrachloroethene	25.1		µg/kg		20.0		125	70-130	3	30

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814950 - SW846 5035A Soil (low level)</b>										
<b>LCS Dup (1814950-BSD1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
1,1,1-Trichloroethane	24.0		µg/kg		20.0		120	70-130	1	30
1,1,2-Trichloroethane	22.5		µg/kg		20.0		113	70-130	2	30
Trichloroethene	23.7		µg/kg		20.0		119	70-130	0.8	30
Trichlorofluoromethane (Freon 11)	25.5		µg/kg		20.0		127	70-130	0.6	30
Vinyl chloride	18.3		µg/kg		20.0		91	70-130	6	30
<i>Surrogate: 4-Bromofluorobenzene</i>	51.2		µg/kg		50.0		102	70-130		
<i>Surrogate: Toluene-d8</i>	52.0		µg/kg		50.0		104	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.7		µg/kg		50.0		101	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.8		µg/kg		50.0		104	70-130		
<b>Batch 1814951 - SW846 5035A Soil (high level)</b>										
<b>Blank (1814951-BLK1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Bromodichloromethane	< 1.0	U	µg/kg wet	1.0						
Bromoform	< 1.0	U	µg/kg wet	1.0						
Bromomethane	< 2.0	U	µg/kg wet	2.0						
Carbon tetrachloride	< 1.0	U	µg/kg wet	1.0						
Chlorobenzene	< 1.0	U	µg/kg wet	1.0						
Chloroethane	< 2.0	U	µg/kg wet	2.0						
Chloroform	< 1.0	U	µg/kg wet	1.0						
Chloromethane	< 2.0	U	µg/kg wet	2.0						
Dibromochloromethane	< 1.0	U	µg/kg wet	1.0						
1,2-Dichlorobenzene	< 1.0	U	µg/kg wet	1.0						
1,3-Dichlorobenzene	< 1.0	U	µg/kg wet	1.0						
1,4-Dichlorobenzene	< 1.0	U	µg/kg wet	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0	U	µg/kg wet	2.0						
1,1-Dichloroethane	< 1.0	U	µg/kg wet	1.0						
1,2-Dichloroethane	< 1.0	U	µg/kg wet	1.0						
1,1-Dichloroethene	< 1.0	U	µg/kg wet	1.0						
cis-1,2-Dichloroethene	< 1.0	U	µg/kg wet	1.0						
trans-1,2-Dichloroethene	< 1.0	U	µg/kg wet	1.0						
1,2-Dichloropropane	< 1.0	U	µg/kg wet	1.0						
cis-1,3-Dichloropropene	< 1.0	U	µg/kg wet	1.0						
trans-1,3-Dichloropropene	< 1.0	U	µg/kg wet	1.0						
Methylene chloride	< 2.0	U	µg/kg wet	2.0						
1,1,2,2-Tetrachloroethane	< 1.0	U	µg/kg wet	1.0						
Tetrachloroethene	< 1.0	U	µg/kg wet	1.0						
1,1,1-Trichloroethane	< 1.0	U	µg/kg wet	1.0						
1,1,2-Trichloroethane	< 1.0	U	µg/kg wet	1.0						
Trichloroethene	< 1.0	U	µg/kg wet	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0	U	µg/kg wet	1.0						
Vinyl chloride	< 1.0	U	µg/kg wet	1.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	52.9		µg/kg		50.0		106	70-130		
<i>Surrogate: Toluene-d8</i>	51.6		µg/kg		50.0		103	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	63.5		µg/kg		50.0		127	70-130		
<i>Surrogate: Dibromofluoromethane</i>	57.1		µg/kg		50.0		114	70-130		
<b>LCS (1814951-BS1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Bromodichloromethane	25.2		µg/kg		20.0		126	70-130		
Bromoform	27.9	QC2	µg/kg		20.0		140	70-130		
Bromomethane	22.2		µg/kg		20.0		111	70-130		
Carbon tetrachloride	29.1	QC2	µg/kg		20.0		145	70-130		

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814951 - SW846 5035A Soil (high level)</b>										
<b>LCS (1814951-BS1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Chlorobenzene	19.2		µg/kg		20.0		96	70-130		
Chloroethane	23.4		µg/kg		20.0		117	70-130		
Chloroform	22.9		µg/kg		20.0		115	70-130		
Chloromethane	21.8		µg/kg		20.0		109	70-130		
Dibromochloromethane	27.1	QC2	µg/kg		20.0		135	70-130		
1,2-Dichlorobenzene	20.7		µg/kg		20.0		103	70-130		
1,3-Dichlorobenzene	21.2		µg/kg		20.0		106	70-130		
1,4-Dichlorobenzene	19.6		µg/kg		20.0		98	70-130		
Dichlorodifluoromethane (Freon12)	25.4		µg/kg		20.0		127	70-130		
1,1-Dichloroethane	20.2		µg/kg		20.0		101	70-130		
1,2-Dichloroethane	25.3		µg/kg		20.0		127	70-130		
1,1-Dichloroethene	23.6		µg/kg		20.0		118	70-130		
cis-1,2-Dichloroethene	20.0		µg/kg		20.0		100	70-130		
trans-1,2-Dichloroethene	18.8		µg/kg		20.0		94	70-130		
1,2-Dichloropropane	18.7		µg/kg		20.0		94	70-130		
cis-1,3-Dichloropropene	19.7		µg/kg		20.0		99	70-130		
trans-1,3-Dichloropropene	20.3		µg/kg		20.0		102	70-130		
Methylene chloride	23.8		µg/kg		20.0		119	70-130		
1,1,1,2-Tetrachloroethane	19.1		µg/kg		20.0		95	70-130		
Tetrachloroethene	21.5		µg/kg		20.0		107	70-130		
1,1,1-Trichloroethane	25.3		µg/kg		20.0		127	70-130		
1,1,2-Trichloroethane	20.0		µg/kg		20.0		100	70-130		
Trichloroethene	19.0		µg/kg		20.0		95	70-130		
Trichlorofluoromethane (Freon 11)	29.6	QC2	µg/kg		20.0		148	70-130		
Vinyl chloride	24.8		µg/kg		20.0		124	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	51.6		µg/kg		50.0		103	70-130		
<i>Surrogate: Toluene-d8</i>	51.8		µg/kg		50.0		104	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	64.2		µg/kg		50.0		128	70-130		
<i>Surrogate: Dibromofluoromethane</i>	56.6		µg/kg		50.0		113	70-130		
<b>LCS Dup (1814951-BSD1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
Bromodichloromethane	24.0		µg/kg		20.0		120	70-130	5	30
Bromoform	30.0	QC2	µg/kg		20.0		150	70-130	7	30
Bromomethane	25.1		µg/kg		20.0		126	70-130	12	30
Carbon tetrachloride	29.9	QC2	µg/kg		20.0		149	70-130	3	30
Chlorobenzene	20.5		µg/kg		20.0		102	70-130	6	30
Chloroethane	23.7		µg/kg		20.0		118	70-130	1	30
Chloroform	23.4		µg/kg		20.0		117	70-130	2	30
Chloromethane	20.1		µg/kg		20.0		101	70-130	8	30
Dibromochloromethane	28.6	QC2	µg/kg		20.0		143	70-130	5	30
1,2-Dichlorobenzene	21.8		µg/kg		20.0		109	70-130	5	30
1,3-Dichlorobenzene	22.1		µg/kg		20.0		110	70-130	4	30
1,4-Dichlorobenzene	20.6		µg/kg		20.0		103	70-130	5	30
Dichlorodifluoromethane (Freon12)	23.9		µg/kg		20.0		120	70-130	6	30
1,1-Dichloroethane	21.0		µg/kg		20.0		105	70-130	4	30
1,2-Dichloroethane	24.0		µg/kg		20.0		120	70-130	6	30
1,1-Dichloroethene	22.9		µg/kg		20.0		114	70-130	3	30
cis-1,2-Dichloroethene	20.6		µg/kg		20.0		103	70-130	3	30
trans-1,2-Dichloroethene	19.7		µg/kg		20.0		98	70-130	5	30
1,2-Dichloropropane	19.3		µg/kg		20.0		97	70-130	3	30
cis-1,3-Dichloropropene	20.8		µg/kg		20.0		104	70-130	5	30

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1814951 - SW846 5035A Soil (high level)</b>										
<b>LCS Dup (1814951-BSD1)</b>					<u>Prepared &amp; Analyzed: 13-Nov-18</u>					
trans-1,3-Dichloropropene	21.1		µg/kg		20.0		105	70-130	4	30
Methylene chloride	22.8		µg/kg		20.0		114	70-130	4	30
1,1,2,2-Tetrachloroethane	20.1		µg/kg		20.0		101	70-130	5	30
Tetrachloroethene	22.1		µg/kg		20.0		111	70-130	3	30
1,1,1-Trichloroethane	23.7		µg/kg		20.0		119	70-130	7	30
1,1,2-Trichloroethane	20.9		µg/kg		20.0		105	70-130	4	30
Trichloroethene	18.8		µg/kg		20.0		94	70-130	0.7	30
Trichlorofluoromethane (Freon 11)	30.5	QC2	µg/kg		20.0		152	70-130	3	30
Vinyl chloride	23.9		µg/kg		20.0		120	70-130	4	30
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Surrogate: 4-Bromofluorobenzene	51.8		µg/kg		50.0		104	70-130		
Surrogate: Toluene-d8	50.8		µg/kg		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	63.6		µg/kg		50.0		127	70-130		
Surrogate: Dibromofluoromethane	56.4		µg/kg		50.0		113	70-130		
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<b>Batch 1815012 - SW846 5035A Soil (high level)</b>										
<b>Blank (1815012-BLK1)</b>					<u>Prepared &amp; Analyzed: 14-Nov-18</u>					
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Methylene chloride	< 100	U, D	µg/kg wet	100						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 100	U, D	µg/kg wet	100						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
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Surrogate: 4-Bromofluorobenzene	51.6		µg/kg		50.0		103	70-130		
Surrogate: Toluene-d8	50.7		µg/kg		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	62.4		µg/kg		50.0		125	70-130		
Surrogate: Dibromofluoromethane	55.5		µg/kg		50.0		111	70-130		
<b>LCS (1815012-BS1)</b>					<u>Prepared &amp; Analyzed: 14-Nov-18</u>					

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1815012 - SW846 5035A Soil (high level)</b>										
<b>LCS (1815012-BS1)</b>					<u>Prepared &amp; Analyzed: 14-Nov-18</u>					
Bromodichloromethane	24.0	D	µg/kg		20.0		120	70-130		
Bromoform	28.3	QC2, D	µg/kg		20.0		142	70-130		
Bromomethane	33.4	QM9, D	µg/kg		20.0		167	70-130		
Carbon tetrachloride	26.0	D	µg/kg		20.0		130	70-130		
Chlorobenzene	20.1	D	µg/kg		20.0		100	70-130		
Chloroethane	21.9	D	µg/kg		20.0		110	70-130		
Chloroform	22.0	D	µg/kg		20.0		110	70-130		
Chloromethane	14.0	D	µg/kg		20.0		70	70-130		
Dibromochloromethane	26.0	D	µg/kg		20.0		130	70-130		
1,2-Dichlorobenzene	20.7	D	µg/kg		20.0		104	70-130		
1,3-Dichlorobenzene	20.8	D	µg/kg		20.0		104	70-130		
1,4-Dichlorobenzene	20.0	D	µg/kg		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	20.9	D	µg/kg		20.0		104	70-130		
1,1-Dichloroethane	20.0	D	µg/kg		20.0		100	70-130		
1,2-Dichloroethane	23.1	D	µg/kg		20.0		116	70-130		
1,1-Dichloroethene	22.6	D	µg/kg		20.0		113	70-130		
cis-1,2-Dichloroethene	20.1	D	µg/kg		20.0		101	70-130		
trans-1,2-Dichloroethene	19.7	D	µg/kg		20.0		99	70-130		
1,2-Dichloropropane	18.5	D	µg/kg		20.0		92	70-130		
cis-1,3-Dichloropropene	19.5	D	µg/kg		20.0		98	70-130		
trans-1,3-Dichloropropene	19.2	D	µg/kg		20.0		96	70-130		
Methylene chloride	20.1	D	µg/kg		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	18.7	D	µg/kg		20.0		93	70-130		
Tetrachloroethene	21.6	D	µg/kg		20.0		108	70-130		
1,1,1-Trichloroethane	24.0	D	µg/kg		20.0		120	70-130		
1,1,2-Trichloroethane	19.5	D	µg/kg		20.0		97	70-130		
Trichloroethene	20.2	D	µg/kg		20.0		101	70-130		
Trichlorofluoromethane (Freon 11)	25.8	D	µg/kg		20.0		129	70-130		
Vinyl chloride	23.0	D	µg/kg		20.0		115	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	50.2		µg/kg		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	50.4		µg/kg		50.0		101	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	57.6		µg/kg		50.0		115	70-130		
<i>Surrogate: Dibromofluoromethane</i>	54.2		µg/kg		50.0		108	70-130		
<b>LCS Dup (1815012-BSD1)</b>					<u>Prepared &amp; Analyzed: 14-Nov-18</u>					
Bromodichloromethane	23.6	D	µg/kg		20.0		118	70-130	2	30
Bromoform	28.1	QC2, D	µg/kg		20.0		141	70-130	0.6	30
Bromomethane	31.0	D	µg/kg		20.0		155	70-130	8	30
Carbon tetrachloride	26.8	QM9, D	µg/kg		20.0		134	70-130	3	30
Chlorobenzene	20.1	D	µg/kg		20.0		101	70-130	0.1	30
Chloroethane	21.6	D	µg/kg		20.0		108	70-130	2	30
Chloroform	22.2	D	µg/kg		20.0		111	70-130	0.8	30
Chloromethane	13.8	D	µg/kg		20.0		69	70-130	2	30
Dibromochloromethane	25.2	D	µg/kg		20.0		126	70-130	3	30
1,2-Dichlorobenzene	21.0	D	µg/kg		20.0		105	70-130	1	30
1,3-Dichlorobenzene	21.0	D	µg/kg		20.0		105	70-130	1	30
1,4-Dichlorobenzene	19.8	D	µg/kg		20.0		99	70-130	1	30
Dichlorodifluoromethane (Freon12)	21.0	D	µg/kg		20.0		105	70-130	0.6	30
1,1-Dichloroethane	20.1	D	µg/kg		20.0		101	70-130	0.6	30
1,2-Dichloroethane	23.6	D	µg/kg		20.0		118	70-130	2	30
1,1-Dichloroethene	22.8	D	µg/kg		20.0		114	70-130	1	30

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1815012 - SW846 5035A Soil (high level)</b>										
<b>LCS Dup (1815012-BSD1)</b>					<u>Prepared &amp; Analyzed: 14-Nov-18</u>					
cis-1,2-Dichloroethene	20.3	D	µg/kg		20.0		102	70-130	1	30
trans-1,2-Dichloroethene	19.5	D	µg/kg		20.0		97	70-130	1	30
1,2-Dichloropropane	19.1	D	µg/kg		20.0		95	70-130	3	30
cis-1,3-Dichloropropene	19.5	D	µg/kg		20.0		98	70-130	0.05	30
trans-1,3-Dichloropropene	19.4	D	µg/kg		20.0		97	70-130	1	30
Methylene chloride	23.6	D	µg/kg		20.0		118	70-130	16	30
1,1,1,2-Tetrachloroethane	19.3	D	µg/kg		20.0		96	70-130	3	30
Tetrachloroethene	21.9	D	µg/kg		20.0		110	70-130	1	30
1,1,1-Trichloroethane	23.6	D	µg/kg		20.0		118	70-130	2	30
1,1,2-Trichloroethane	19.9	D	µg/kg		20.0		100	70-130	2	30
Trichloroethene	19.5	D	µg/kg		20.0		97	70-130	3	30
Trichlorofluoromethane (Freon 11)	25.8	D	µg/kg		20.0		129	70-130	0.1	30
Vinyl chloride	23.0	D	µg/kg		20.0		115	70-130	0	30
<i>Surrogate: 4-Bromofluorobenzene</i>	50.3		µg/kg		50.0		101	70-130		
<i>Surrogate: Toluene-d8</i>	50.5		µg/kg		50.0		101	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	57.8		µg/kg		50.0		116	70-130		
<i>Surrogate: Dibromofluoromethane</i>	55.2		µg/kg		50.0		110	70-130		
<b>Batch 1815015 - SW846 5035A Soil (high level)</b>										
<b>Blank (1815015-BLK1)</b>					<u>Prepared &amp; Analyzed: 14-Nov-18</u>					
Bromodichloromethane	< 50.0	U, D	µg/kg	50.0						
Bromoform	< 50.0	U, D	µg/kg	50.0						
Bromomethane	< 100	U, D	µg/kg	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg	50.0						
Chloroethane	< 100	U, D	µg/kg	100						
Chloroform	< 50.0	U, D	µg/kg	50.0						
Chloromethane	< 100	U, D	µg/kg	100						
Dibromochloromethane	< 50.0	U, D	µg/kg	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg	50.0						
Methylene chloride	< 100	U, D	µg/kg	100						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg	50.0						
Trichloroethene	< 50.0	U, D	µg/kg	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg	50.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	52.5		µg/kg		50.0		105	70-130		
<i>Surrogate: Toluene-d8</i>	49.7		µg/kg		50.0		99	70-130		

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1815015 - SW846 5035A Soil (high level)</b>										
<b>Blank (1815015-BLK1)</b>					<b>Prepared &amp; Analyzed: 14-Nov-18</b>					
Surrogate: 1,2-Dichloroethane-d4	53.2		µg/kg		50.0		106	70-130		
Surrogate: Dibromofluoromethane	52.6		µg/kg		50.0		105	70-130		
<b>LCS (1815015-BS1)</b>					<b>Prepared: 14-Nov-18 Analyzed: 15-Nov-18</b>					
Bromodichloromethane	22.7	D	µg/kg		20.0		114	70-130		
Bromoform	25.9	D	µg/kg		20.0		129	70-130		
Bromomethane	31.7	D	µg/kg		20.0		158	70-130		
Carbon tetrachloride	23.5	D	µg/kg		20.0		117	70-130		
Chlorobenzene	20.3	D	µg/kg		20.0		102	70-130		
Chloroethane	20.3	D	µg/kg		20.0		101	70-130		
Chloroform	21.4	D	µg/kg		20.0		107	70-130		
Chloromethane	11.8	D	µg/kg		20.0		59	70-130		
Dibromochloromethane	24.4	D	µg/kg		20.0		122	70-130		
1,2-Dichlorobenzene	20.8	D	µg/kg		20.0		104	70-130		
1,3-Dichlorobenzene	20.3	D	µg/kg		20.0		101	70-130		
1,4-Dichlorobenzene	20.0	D	µg/kg		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	17.0	D	µg/kg		20.0		85	70-130		
1,1-Dichloroethane	19.9	D	µg/kg		20.0		100	70-130		
1,2-Dichloroethane	21.7	D	µg/kg		20.0		109	70-130		
1,1-Dichloroethene	22.1	D	µg/kg		20.0		110	70-130		
cis-1,2-Dichloroethene	20.0	D	µg/kg		20.0		100	70-130		
trans-1,2-Dichloroethene	19.7	D	µg/kg		20.0		99	70-130		
1,2-Dichloropropane	18.7	D	µg/kg		20.0		94	70-130		
cis-1,3-Dichloropropene	17.8	D	µg/kg		20.0		89	70-130		
trans-1,3-Dichloropropene	16.7	D	µg/kg		20.0		84	70-130		
Methylene chloride	19.9	D	µg/kg		20.0		99	70-130		
1,1,2,2-Tetrachloroethane	18.7	D	µg/kg		20.0		94	70-130		
Tetrachloroethene	21.1	D	µg/kg		20.0		106	70-130		
1,1,1-Trichloroethane	22.1	D	µg/kg		20.0		111	70-130		
1,1,2-Trichloroethane	19.6	D	µg/kg		20.0		98	70-130		
Trichloroethene	18.2	D	µg/kg		20.0		91	70-130		
Trichlorofluoromethane (Freon 11)	23.2	D	µg/kg		20.0		116	70-130		
Vinyl chloride	20.3	D	µg/kg		20.0		102	70-130		
Surrogate: 4-Bromofluorobenzene	49.6		µg/kg		50.0		99	70-130		
Surrogate: Toluene-d8	49.9		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	54.2		µg/kg		50.0		108	70-130		
Surrogate: Dibromofluoromethane	53.4		µg/kg		50.0		107	70-130		
<b>LCS Dup (1815015-BSD1)</b>					<b>Prepared: 14-Nov-18 Analyzed: 15-Nov-18</b>					
Bromodichloromethane	21.9	D	µg/kg		20.0		110	70-130	3	30
Bromoform	26.0	D	µg/kg		20.0		130	70-130	0.4	30
Bromomethane	31.5	D	µg/kg		20.0		158	70-130	0.5	30
Carbon tetrachloride	23.2	D	µg/kg		20.0		116	70-130	1	30
Chlorobenzene	19.7	D	µg/kg		20.0		98	70-130	3	30
Chloroethane	19.5	D	µg/kg		20.0		97	70-130	4	30
Chloroform	20.8	D	µg/kg		20.0		104	70-130	3	30
Chloromethane	11.1	D	µg/kg		20.0		56	70-130	6	30
Dibromochloromethane	23.8	D	µg/kg		20.0		119	70-130	3	30
1,2-Dichlorobenzene	20.6	D	µg/kg		20.0		103	70-130	0.8	30
1,3-Dichlorobenzene	20.1	D	µg/kg		20.0		100	70-130	0.9	30
1,4-Dichlorobenzene	19.7	D	µg/kg		20.0		99	70-130	1	30
Dichlorodifluoromethane (Freon12)	16.7	D	µg/kg		20.0		83	70-130	2	30

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1815015 - SW846 5035A Soil (high level)</b>										
<b>LCS Dup (1815015-BSD1)</b>					<u>Prepared: 14-Nov-18 Analyzed: 15-Nov-18</u>					
1,1-Dichloroethane	19.4	D	µg/kg		20.0		97	70-130	2	30
1,2-Dichloroethane	21.2	D	µg/kg		20.0		106	70-130	3	30
1,1-Dichloroethene	21.2	D	µg/kg		20.0		106	70-130	4	30
cis-1,2-Dichloroethene	19.5	D	µg/kg		20.0		98	70-130	2	30
trans-1,2-Dichloroethene	19.3	D	µg/kg		20.0		96	70-130	2	30
1,2-Dichloropropane	18.2	D	µg/kg		20.0		91	70-130	3	30
cis-1,3-Dichloropropene	17.6	D	µg/kg		20.0		88	70-130	1	30
trans-1,3-Dichloropropene	16.6	D	µg/kg		20.0		83	70-130	0.7	30
Methylene chloride	19.1	D	µg/kg		20.0		95	70-130	4	30
1,1,2,2-Tetrachloroethane	18.7	D	µg/kg		20.0		93	70-130	0.2	30
Tetrachloroethene	20.4	D	µg/kg		20.0		102	70-130	3	30
1,1,1-Trichloroethane	21.2	D	µg/kg		20.0		106	70-130	4	30
1,1,2-Trichloroethane	19.1	D	µg/kg		20.0		95	70-130	3	30
Trichloroethene	17.6	D	µg/kg		20.0		88	70-130	3	30
Trichlorofluoromethane (Freon 11)	22.7	D	µg/kg		20.0		114	70-130	2	30
Vinyl chloride	19.5	D	µg/kg		20.0		98	70-130	4	30
<i>Surrogate: 4-Bromofluorobenzene</i>	50.4		µg/kg		50.0		101	70-130		
<i>Surrogate: Toluene-d8</i>	50.2		µg/kg		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	54.3		µg/kg		50.0		109	70-130		
<i>Surrogate: Dibromofluoromethane</i>	52.9		µg/kg		50.0		106	70-130		
<b>Batch 1815084 - SW846 5035A Soil (high level)</b>										
<b>Blank (1815084-BLK1)</b>					<u>Prepared &amp; Analyzed: 15-Nov-18</u>					
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Methylene chloride	< 100	U, D	µg/kg wet	100						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						

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**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1815084 - SW846 5035A Soil (high level)</b>										
<b>Blank (1815084-BLK1)</b>					<u>Prepared &amp; Analyzed: 15-Nov-18</u>					
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	52.9		µg/kg		50.0		106	70-130		
<i>Surrogate: Toluene-d8</i>	51.0		µg/kg		50.0		102	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	63.4		µg/kg		50.0		127	70-130		
<i>Surrogate: Dibromofluoromethane</i>	56.6		µg/kg		50.0		113	70-130		
<b>LCS (1815084-BS1)</b>					<u>Prepared &amp; Analyzed: 15-Nov-18</u>					
Bromodichloromethane	25.5	D	µg/kg		20.0		127	70-130		
Bromoform	30.0	QC2, D	µg/kg		20.0		150	70-130		
Bromomethane	36.2	QC2, D	µg/kg		20.0		181	70-130		
Carbon tetrachloride	29.8	QC2, D	µg/kg		20.0		149	70-130		
Chlorobenzene	19.9	D	µg/kg		20.0		99	70-130		
Chloroethane	22.7	D	µg/kg		20.0		114	70-130		
Chloroform	24.1	D	µg/kg		20.0		120	70-130		
Chloromethane	14.1	D	µg/kg		20.0		70	70-130		
Dibromochloromethane	28.7	QM9, D	µg/kg		20.0		144	70-130		
1,2-Dichlorobenzene	21.7	D	µg/kg		20.0		109	70-130		
1,3-Dichlorobenzene	21.1	D	µg/kg		20.0		106	70-130		
1,4-Dichlorobenzene	21.1	D	µg/kg		20.0		105	70-130		
Dichlorodifluoromethane (Freon12)	23.3	D	µg/kg		20.0		116	70-130		
1,1-Dichloroethane	21.2	D	µg/kg		20.0		106	70-130		
1,2-Dichloroethane	25.5	D	µg/kg		20.0		128	70-130		
1,1-Dichloroethene	23.8	D	µg/kg		20.0		119	70-130		
cis-1,2-Dichloroethene	20.9	D	µg/kg		20.0		104	70-130		
trans-1,2-Dichloroethene	20.0	D	µg/kg		20.0		100	70-130		
1,2-Dichloropropane	19.4	D	µg/kg		20.0		97	70-130		
cis-1,3-Dichloropropene	20.8	D	µg/kg		20.0		104	70-130		
trans-1,3-Dichloropropene	21.2	D	µg/kg		20.0		106	70-130		
Methylene chloride	21.8	D	µg/kg		20.0		109	70-130		
1,1,2,2-Tetrachloroethane	19.9	D	µg/kg		20.0		99	70-130		
Tetrachloroethene	22.2	D	µg/kg		20.0		111	70-130		
1,1,1-Trichloroethane	25.3	D	µg/kg		20.0		127	70-130		
1,1,2-Trichloroethane	21.2	D	µg/kg		20.0		106	70-130		
Trichloroethene	19.0	D	µg/kg		20.0		95	70-130		
Trichlorofluoromethane (Freon 11)	30.4	QC2, D	µg/kg		20.0		152	70-130		
Vinyl chloride	25.6	D	µg/kg		20.0		128	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	50.2		µg/kg		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	51.6		µg/kg		50.0		103	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	63.8		µg/kg		50.0		128	70-130		
<i>Surrogate: Dibromofluoromethane</i>	57.3		µg/kg		50.0		115	70-130		
<b>LCS Dup (1815084-BSD1)</b>					<u>Prepared &amp; Analyzed: 15-Nov-18</u>					
Bromodichloromethane	24.0	D	µg/kg		20.0		120	70-130	6	30
Bromoform	28.4	QC2, D	µg/kg		20.0		142	70-130	5	30
Bromomethane	33.8	QC2, D	µg/kg		20.0		169	70-130	7	30
Carbon tetrachloride	29.0	QC2, D	µg/kg		20.0		145	70-130	3	30
Chlorobenzene	19.5	D	µg/kg		20.0		97	70-130	2	30
Chloroethane	22.1	D	µg/kg		20.0		111	70-130	2	30
Chloroform	23.0	D	µg/kg		20.0		115	70-130	5	30
Chloromethane	14.0	D	µg/kg		20.0		70	70-130	0.6	30
Dibromochloromethane	25.5	D	µg/kg		20.0		128	70-130	12	30
1,2-Dichlorobenzene	20.8	D	µg/kg		20.0		104	70-130	4	30

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

**Volatile Organic Compounds - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW846 8260C</b>										
<b>Batch 1815084 - SW846 5035A Soil (high level)</b>										
<b>LCS Dup (1815084-BSD1)</b>					<b>Prepared &amp; Analyzed: 15-Nov-18</b>					
1,3-Dichlorobenzene	20.6	D	µg/kg		20.0		103	70-130	2	30
1,4-Dichlorobenzene	20.3	D	µg/kg		20.0		101	70-130	4	30
Dichlorodifluoromethane (Freon12)	22.5	D	µg/kg		20.0		113	70-130	3	30
1,1-Dichloroethane	20.3	D	µg/kg		20.0		101	70-130	4	30
1,2-Dichloroethane	23.9	D	µg/kg		20.0		120	70-130	6	30
1,1-Dichloroethene	23.2	D	µg/kg		20.0		116	70-130	3	30
cis-1,2-Dichloroethene	20.1	D	µg/kg		20.0		101	70-130	4	30
trans-1,2-Dichloroethene	19.0	D	µg/kg		20.0		95	70-130	6	30
1,2-Dichloropropane	18.4	D	µg/kg		20.0		92	70-130	5	30
cis-1,3-Dichloropropene	19.8	D	µg/kg		20.0		99	70-130	5	30
trans-1,3-Dichloropropene	20.0	D	µg/kg		20.0		100	70-130	6	30
Methylene chloride	20.7	D	µg/kg		20.0		103	70-130	5	30
1,1,2,2-Tetrachloroethane	18.4	D	µg/kg		20.0		92	70-130	8	30
Tetrachloroethene	21.3	D	µg/kg		20.0		107	70-130	4	30
1,1,1-Trichloroethane	23.8	D	µg/kg		20.0		119	70-130	6	30
1,1,2-Trichloroethane	19.8	D	µg/kg		20.0		99	70-130	7	30
Trichloroethene	18.4	D	µg/kg		20.0		92	70-130	3	30
Trichlorofluoromethane (Freon 11)	29.1	QC2, D	µg/kg		20.0		146	70-130	4	30
Vinyl chloride	23.8	D	µg/kg		20.0		119	70-130	7	30
Surrogate: 4-Bromofluorobenzene	50.4		µg/kg		50.0		101	70-130		
Surrogate: Toluene-d8	51.5		µg/kg		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	63.3		µg/kg		50.0		127	70-130		
Surrogate: Dibromofluoromethane	56.6		µg/kg		50.0		113	70-130		

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC51827-01	<i>MW A (4')</i>	11/9/2018 10:30 AM
SC51827-02	<i>MW A (8')</i>	11/9/2018 10:30 AM
SC51827-03	<i>MW A (11')</i>	11/9/2018 10:30 AM
SC51827-04	<i>MW A (13')</i>	11/9/2018 10:30 AM
SC51827-05	<i>MW B (9.5')</i>	11/9/2018 10:30 AM
SC51827-06	<i>MW B (11')</i>	11/9/2018 10:30 AM
SC51827-07	<i>MW D (9')</i>	11/9/2018 10:30 AM
SC51827-14	<i>MW-A Sediment</i>	11/9/2018 6:07 PM
SC51827-15	<i>MW-A LNAPL</i>	11/9/2018 6:07 PM

## 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).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.
SGCMSVOC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
U	Analyte included in the analysis, but not detected at or above the MDL.
VOC8	Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.
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

Special Handling:

Standard TAT - 7 to 10 business days  
 Rush TAT - Date Needed: COB 11/14/18

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

Report To: Day Environmental Inc

1563 Lyell Avenue  
Rochester NY 14606

Invoice To: SAWME

Project No: 55295-18  
Site Name: 411 Chandler St.  
Location: Sametston State: NY  
Sampler(s): C. Hampton

Telephone #: 585 454 0210  
Project Mgr: C. Hampton

P.O. No.:  
Quote #:

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=  
12=

List Preservative Code below:

QA/QC Reporting Notes:  
\* additional changes 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=Compsite

Lab ID: Sample ID: Date: Time: Type Matrix

SCS182701 MW A (4') 11/6/18 10:08 50 G 8

02 MW A (8') 11/6/18 10:20 50 G 3

03 MW A (11') 11/6/18 10:35 50 G 3

04 MW A (13') 11/6/18 10:50 50 G 3

05 MW B (9.5') 11/6/18 11:45 50 G 3

06 MW B (11') 11/6/18 11:50 50 G 3

07 MW D (9') 11/6/18 15:30 50 G 3

08 TB-Soil - - - 3

09 MW-A 11/8/18 13:25 50 G 3

10 MW-B 11/8/18 11:35 50 G 3

Relinquished by: Charles Hampton Received by: Fed EX Date: 11/8/18 Time: 15:45

Signature: Charles Hampton Signature: Dr. [unclear] Date: 11/9/18 Time: 1030

Temp °C Observed: 21 Corrected: 21 Correction Factor: 0

Condition upon receipt: Ambient  Iced  Refrigerated  DI VOA Frozen  Present  Intact  Broken

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum Rev. Nov 2016

SCS182701 [Signature]

Samples Frozen 11/6/18 @ 19:30



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 2 of 2

### Special Handling:

- Standard TAT - 7 to 10 business days
  - Rush TAT - Date Needed: COB 11/14/18
- All TATs subject to laboratory approval  
Min. 24-hr notification needed for rushes  
Samples disposed after 30 days unless otherwise instructed.

Report To: Dag Environmental, Inc  
1563 Lyell Avenue  
Rocky Hill, NY 14606

Telephone #: 585 454 0210

Project Mgr: C Hampton

Invoice To: Same

P.O. No.: \_\_\_\_\_

Quote #: \_\_\_\_\_

Project No: 5529 8-18

Site Name: 491 Chandler St.

Location: Sawston

Sampler(s): C Hampton

State: NY

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
 7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=None 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=Sediment X2=LNAPL X3=\_\_\_\_\_

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Analysis	Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
SCS1627-11	MW-C	11/8/18	10:35	GA	GA	3				X	Halocarbons x 8260	<input checked="" type="checkbox"/> MA DEP MCP CAM Report? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CT DPH RCP Report? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> ASP A* <input type="checkbox"/> DON* <input type="checkbox"/> ASP B* <input checked="" type="checkbox"/> ASP B* <input type="checkbox"/> NJ Reduced* <input type="checkbox"/> NJ Full* <input type="checkbox"/> Tier II* <input type="checkbox"/> Tier IV* <input type="checkbox"/> Other: _____ State-specific reporting standards: _____
	MW-D	11/8/18	11:05	GA	GA	3				X	Halocarbons x 8260	
	TB - Groundwater											
	MW-A Sediment	11/8/18	12:30	G	X <sub>1</sub>					X		
	MW-A LNAPL	11/8/18	13:55	G	X <sub>2</sub>					X		

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Temp °C: 21

Observed: 21

Correction Factor: 0

Condition upon receipt:  Ambient  Iced  Refrigerated  DI VOA Frozen  Present  Intact  Broken

EDD format: NYSDIR EQ.15

Email to: Champton@dayconline.net

Custody Seals:  Present  Intact  Broken

SCS1627  
 Pm

ORIGIN ID: EHTA (585) 454-0210  
ATTN: CHARLES HAMPTON  
DAY ENVIRONMENTAL, INC.  
1563 LYELL AVE.

ROCHESTER, NY 14606  
UNITED STATES US

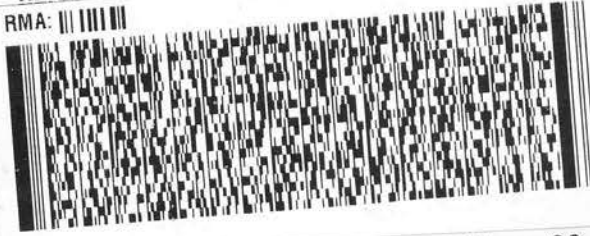
SHIP DATE: 30OCT18  
ACTWGT: 40.00 LB MAN  
CAD: 0654830/CAFE3210

TO **ROBERT BRISTOL**  
**EUROFINS SPECTRUM ANALYTICAL, INC.**  
**830 SILVER STREET**

**AGAWAM MA 01001**

(413) 789-9018  
REF: # 45840

RMA: ||| ||| |||



**FedEx**  
Express



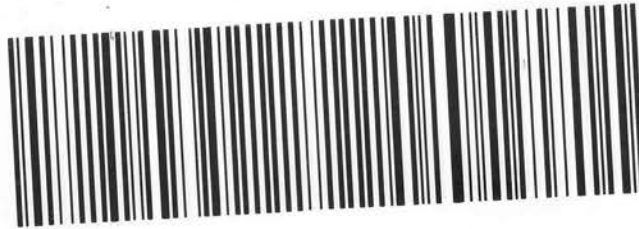
**FedEx**

TRK# 4663 8817 3639  
0221

**EB EHTA**

**FRI - 09 NOV 10:30A**  
**PRIORITY OVERNIGHT**

01001  
MA-US BD



#5108604 11/08 552J3/C3B2/DCA5

RT 745 4 A  
ST 21 10:30 3639  
11.09



## Batch Summary

### **1814872**

#### *General Chemistry Parameters*

SC51827-01 (MW A (4'))  
SC51827-02 (MW A (8'))  
SC51827-03 (MW A (11'))  
SC51827-04 (MW A (13'))  
SC51827-05 (MW B (9.5'))  
SC51827-06 (MW B (11'))  
SC51827-07 (MW D (9'))  
SC51827-14 (MW-A Sediment)

### **1814905**

#### *Volatile Organic Compounds*

1814905-BLK1  
1814905-BS1  
1814905-BSD1  
SC51827-09 (MW-A)  
SC51827-10 (MW-B)  
SC51827-11 (MW-C)  
SC51827-12 (MW-D)  
SC51827-13 (TB-Ground Water)

### **1814913**

#### *Volatile Organic Compounds*

1814913-BLK1  
1814913-BS1  
1814913-BSD1  
SC51827-15 (MW-A LNAPL)

### **1814950**

#### *Volatile Organic Compounds*

1814950-BLK1  
1814950-BS1  
1814950-BSD1  
SC51827-01 (MW A (4'))  
SC51827-05 (MW B (9.5'))  
SC51827-06 (MW B (11'))  
SC51827-08 (TB-Soil)

### **1814951**

#### *Volatile Organic Compounds*

1814951-BLK1  
1814951-BS1  
1814951-BSD1  
SC51827-02 (MW A (8'))  
SC51827-03 (MW A (11'))  
SC51827-04 (MW A (13'))  
SC51827-14 (MW-A Sediment)

### **1815012**

#### *Volatile Organic Compounds*

1815012-BLK1

1815012-BS1  
1815012-BSD1  
SC51827-01RE1 (MW A (4'))  
SC51827-03RE1 (MW A (11'))  
SC51827-04RE1 (MW A (13'))  
SC51827-07 (MW D (9'))  
SC51827-14RE1 (MW-A Sediment)

### **1815015**

#### *Volatile Organic Compounds*

1815015-BLK1  
1815015-BS1  
1815015-BSD1  
SC51827-15RE1 (MW-A LNAPL)

### **1815084**

#### *Volatile Organic Compounds*

1815084-BLK1  
1815084-BS1  
1815084-BSD1  
SC51827-01RE2 (MW A (4'))  
SC51827-08RE1 (TB-Soil)

### **S822862**

#### *Volatile Organic Compounds*

S822862-CAL1  
S822862-CAL2  
S822862-CAL3  
S822862-CAL4  
S822862-CAL5  
S822862-CAL6  
S822862-CAL7  
S822862-CAL8  
S822862-CAL9  
S822862-ICV1  
S822862-LCV1  
S822862-LCV2  
S822862-LCV3  
S822862-TUN1

**S822956***Volatile Organic Compounds*

S822956-CAL1  
S822956-CAL2  
S822956-CAL3  
S822956-CAL4  
S822956-CAL5  
S822956-CAL6  
S822956-CAL7  
S822956-CAL8  
S822956-CAL9  
S822956-ICV1  
S822956-LCV1  
S822956-LCV2  
S822956-TUN1

**S823142***Volatile Organic Compounds*

S823142-CAL1  
S823142-CAL2  
S823142-CAL3  
S823142-CAL4  
S823142-CAL5  
S823142-CAL6  
S823142-CAL7  
S823142-CAL8  
S823142-CAL9  
S823142-ICV1  
S823142-LCV1  
S823142-LCV2  
S823142-LCV3  
S823142-TUN1

**S823177***Volatile Organic Compounds*

S823177-CCV1  
S823177-TUN1

**S823188***Volatile Organic Compounds*

S823188-CCV1  
S823188-TUN1

**S823197***Volatile Organic Compounds*

S823197-CCV1  
S823197-TUN1

**S823199***Volatile Organic Compounds*

S823199-CCV1  
S823199-TUN1

**S823230***Volatile Organic Compounds*

S823230-CCV1  
S823230-TUN1

**S823231***Volatile Organic Compounds*

S823231-CCV1  
S823231-TUN1

**S823263***Volatile Organic Compounds*

S823263-CCV1  
S823263-TUN1

**EUROFINS SPECTRUM ANALYTICAL  
LABORATORY REPORT  
SC52856**

## **Laboratory Report** **SC52856**

Day Environmental, Inc.  
 1563 Lyell Avenue  
 Rochester, NY 14606  
 Attn: Charles Hampton

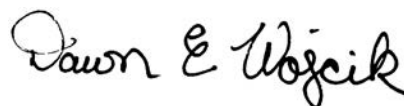
Project: 415+441 Chandler St - Jamestown, NY  
 Project #: 5529S-18

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 151 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](http://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:** SC52856  
**Project:** 415+441 Chandler St - Jamestown, NY  
**Project Number:** 5529S-18

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC52856-01	TB-01 (11')	Soil	19-Dec-18 14:50	28-Dec-18 10:36
SC52856-02	TB-01 (12.5')	Soil	19-Dec-18 15:10	28-Dec-18 10:36
SC52856-03	TB-02 (11.5')	Soil	19-Dec-18 10:15	28-Dec-18 10:36
SC52856-04	TB-03 (9')	Soil	20-Dec-18 08:20	28-Dec-18 10:36
SC52856-05	TB-04 (11.5')	Soil	20-Dec-18 07:50	28-Dec-18 10:36
SC52856-06	TB-04 (12.9')	Soil	20-Dec-18 08:00	28-Dec-18 10:36
SC52856-07	TB-05 (12.5')	Soil	19-Dec-18 16:45	28-Dec-18 10:36
SC52856-08	TB-10 (4')	Soil	18-Dec-18 12:00	28-Dec-18 10:36
SC52856-09	TB-10 (4-5')	Soil	18-Dec-18 12:05	28-Dec-18 10:36
SC52856-10	TB-19 (7-8')	Soil	17-Dec-18 10:35	28-Dec-18 10:36
SC52856-11	TB-21 (5-6')	Soil	17-Dec-18 15:30	28-Dec-18 10:36
SC52856-12	TB-22 (13')	Soil	20-Dec-18 10:45	28-Dec-18 10:36
SC52856-13	MW-A	Ground Water	27-Dec-18 09:53	28-Dec-18 10:36
SC52856-14	MW-B	Ground Water	27-Dec-18 11:09	28-Dec-18 10:36
SC52856-15	MW-C	Ground Water	27-Dec-18 08:40	28-Dec-18 10:36
SC52856-16	MW-D	Ground Water	27-Dec-18 10:00	28-Dec-18 10:36
SC52856-17	MW-E	Ground Water	27-Dec-18 08:56	28-Dec-18 10:36
SC52856-18	MW-F	Ground Water	27-Dec-18 10:30	28-Dec-18 10:36
SC52856-19	MW-G	Ground Water	27-Dec-18 08:17	28-Dec-18 10:36
SC52856-20	MW-H	Ground Water	27-Dec-18 07:25	28-Dec-18 10:36
SC52856-21	MW-I	Ground Water	27-Dec-18 11:25	28-Dec-18 10:36
SC52856-22	MW-J	Ground Water	26-Dec-18 13:44	28-Dec-18 10:36
SC52856-23	MW-K	Ground Water	27-Dec-18 11:20	28-Dec-18 10:36
SC52856-24	MW-L	Ground Water	26-Dec-18 17:10	28-Dec-18 10:36
SC52856-25	MW-N	Ground Water	26-Dec-18 16:22	28-Dec-18 10:36
SC52856-26	MW-O	Ground Water	26-Dec-18 10:01	28-Dec-18 10:36
SC52856-27	MW-P	Ground Water	26-Dec-18 11:06	28-Dec-18 10:36
SC52856-28	MW-Q	Ground Water	26-Dec-18 11:05	28-Dec-18 10:36
SC52856-29	MW-R	Ground Water	26-Dec-18 12:35	28-Dec-18 10:36
SC52856-30	MW-S	Ground Water	26-Dec-18 12:31	28-Dec-18 10:36
SC52856-31	MW-T	Ground Water	26-Dec-18 14:15	28-Dec-18 10:36
SC52856-32	TB-11 (GW)	Ground Water	26-Dec-18 16:20	28-Dec-18 10:36
SC52856-33	TB-18 (GW)	Ground Water	26-Dec-18 10:15	28-Dec-18 10:36
SC52856-34	Trip Blank 12/27/18	Trip Blank	27-Dec-18 00:00	28-Dec-18 10:36
SC52856-35	Trip Blank 12/27/18	Trip Blank	27-Dec-18 00:00	28-Dec-18 10:36

**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 1.1 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.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

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**

CC21270-LCSD

---

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

trans-1,4-dichloro-2-butene

CC21618-MS

---

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

Acetone  
Methylacetate  
Trichloroethene

CC21618-MSD

---

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

Acetone  
Methylacetate  
Trichloroethene

**SW8270D**

**Laboratory Control Samples:**

CC21515-LCS

---

This parameter is outside laboratory rpd specified recovery limits.

% Nitrobenzene-d5  
2,4-Dinitrophenol  
Benzaldehyde  
Di-n-octylphthalate

CC21618-LCS

---

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

2,4-Dinitrophenol  
Benzaldehyde

## **SW8270D**

### CC21515-LCSD

---

This parameter is outside laboratory rpd specified recovery limits.

2,4-Dinitrophenol  
Benzaldehyde  
Di-n-octylphthalate

### CC21618-LCSD

---

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

2,4-Dinitrophenol  
Benzaldehyde

### CC21618-MS

---

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

Hexachlorocyclopentadiene

This parameter is outside laboratory rpd specified recovery limits.

2,4-Dinitrophenol  
4,6-Dinitro-2-methylphenol

### CC21618-MSD

---

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

Benzaldehyde  
Hexachlorocyclopentadiene

This parameter is outside laboratory rpd specified recovery limits.

2,4-Dinitrophenol  
4,6-Dinitro-2-methylphenol

## **SW8270D (SIM)**

### **Laboratory Control Samples:**

#### CC21515-LCS

---

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

Hexachlorocyclopentadiene

This parameter is outside laboratory rpd specified recovery limits.

% Nitrobenzene-d5

#### CC21515-LCSD

---

This parameter is outside laboratory rpd specified recovery limits.

% Nitrobenzene-d5

## **SW8270D MOD(SIM)**

### **Laboratory Control Samples:**

#### CC20774-LCS

---

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

Naphthalene



**SW8270D MOD(SIM)**

**Laboratory Control Samples:**

CC20774-LCS

---

This parameter is outside laboratory rpd specified recovery limits.

- Acenaphthylene
- Benzo(a)pyrene
- Benzo(ghi)perylene
- Benzo(k)fluoranthene
- Indeno(1,2,3-cd)pyrene
- Pyrene

CC20774-LCSD

---

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

- Naphthalene

This parameter is outside laboratory rpd specified recovery limits.

- Acenaphthylene
- Benzo(a)pyrene
- Benzo(ghi)perylene
- Benzo(k)fluoranthene
- Indeno(1,2,3-cd)pyrene
- Pyrene

**SW-846 6010C**

**Samples:**

SC52856-15                      *MW-C*

---

Estimated value

- Lead

SC52856-16                      *MW-D*

---

Estimated value

- Cadmium

SC52856-20                      *MW-H*

---

Estimated value

- Arsenic

SC52856-27                      *MW-P*

---

Estimated value

- Arsenic

SC52856-31                      *MW-T*

---

Estimated value

- Arsenic
- Lead

**SW-846 8260C**

**Laboratory Control Samples:**

LCSL07QL190071AA

---

**SW-846 8260C**

**Laboratory Control Samples:**

LCSL07QL190071AA

---

Estimated value

Ethanol

LCSL14QL190082AA

---

Estimated value

Ethanol

**Samples:**

SC52856-13                      *MW-A*

---

Estimated value

trans-1,2-Dichloroethene

SC52856-14                      *MW-B*

---

Estimated value

1,1-Dichloroethane  
1,1-Dichloroethene  
trans-1,2-Dichloroethene

SC52856-15                      *MW-C*

---

Estimated value

Trichloroethene

SC52856-16                      *MW-D*

---

Estimated value

1H-Indene, 2,3-dihydro-1,6-d  
1H-Indene, 2,3-dihydro-4,7-d  
2,2-Dimethylindene, 2,3-dihy  
3-Phenylbut-1-ene  
Benzene  
Benzene, 1,2,4,5-tetramethyl  
Benzene, pentamethyl-  
cis-1,2-Dichloroethene  
Cyclohexane  
Isopropylbenzene  
Methylcyclohexane  
Naphthalene, 1,2,3,4-tetr  
Naphthalene, 1,2,3,4-tetra  
Naphthalene, 1,2,3,4-tetra  
Naphthalene, 1,2,3,4-tetrahy  
Naphthalene, 1,2,3,4-tetrahy  
Naphthalene, 1-methyl-  
n-Butylbenzene  
n-Propylbenzene  
sec-Butylbenzene  
Total VOC TICs  
trans-1,2-Dichloroethene  
Unknown  
Unknown aromatic  
Unknown aromatic 1

SC52856-17                      *MW-E*

---

**SW-846 8260C**

**Samples:**

SC52856-17            *MW-E*

---

Estimated value

Chloroethane

SC52856-18            *MW-F*

---

Estimated value

1,1-Dichloroethene  
Chloroethane  
trans-1,2-Dichloroethene

SC52856-20            *MW-H*

---

Estimated value

cis-1,2-Dichloroethene  
Vinyl Chloride

SC52856-21            *MW-I*

---

Estimated value

Vinyl Chloride

SC52856-22            *MW-J*

---

Estimated value

Trichloroethene  
Vinyl Chloride

SC52856-23            *MW-K*

---

Estimated value

1H-Indene, 2,3-dihydro-1,1,3  
1H-Indene, 2,3-dihydro-1,6-d  
1H-Indene, 2,3-dihydro-4,7-d  
1H-Indene, 2,3-dihydro-5,6-d  
cis-1,2-Dichloroethene  
Naphthalene, 1,2,3,4-tetra  
sec-Butylbenzene  
Total VOC TICs  
Trichloroethene  
Unknown aromatic  
Unknown aromatic1

SC52856-24            *MW-L*

---

Estimated value

Acetone  
cis-1,2-Dichloroethene  
Trichloroethene  
Vinyl Chloride

SC52856-26            *MW-O*

---

Estimated value

Vinyl Chloride

SC52856-27            *MW-P*

---

**SW-846 8260C**

**Samples:**

SC52856-27                      *MW-P*

---

Estimated value

Acetone

SC52856-28                      *MW-Q*

---

Estimated value

1,1-Dichloroethane

SC52856-29                      *MW-R*

---

Estimated value

1,1,2-Trichloroethane

Methylcyclohexane

SC52856-31                      *MW-T*

---

Estimated value

Acetone

cis-1,2-Dichloroethene

Vinyl Chloride

SC52856-32                      *TB-11 (GW)*

---

Estimated value

cis-1,2-Dichloroethene

Trichloroethene

SC52856-33                      *TB-18 (GW)*

---

Estimated value

1,1-Dichloroethane

trans-1,2-Dichloroethene

LCSL07YL190071AA

---

Estimated value

Ethanol

LCSL14YL190082AA

---

Estimated value

Ethanol

## Sample Acceptance Check Form

Client: Day Environmental, Inc.  
Project: 415+441 Chandler St - Jamestown, NY / 5529S-18  
Work Order: SC52856  
Sample(s) received on: 12/28/2018

*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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Summary of Hits

**Lab ID:** SC52856-01

**Client ID:** TB-01 (11')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	34000	J	46000	ug/Kg	SW8260C

**Lab ID:** SC52856-01RE1

**Client ID:** TB-01 (11')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	4400000		160000	ug/Kg	SW8260C

**Lab ID:** SC52856-02RE1

**Client ID:** TB-01 (12.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	260	J	660	ug/Kg	SW8260C
Trichloroethene	10000		660	ug/Kg	SW8260C

**Lab ID:** SC52856-03

**Client ID:** TB-02 (11.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	110	J	240	ug/Kg	SW8260C
trans-1,2-Dichloroethene	49	J	240	ug/Kg	SW8260C
Vinyl chloride	1500		240	ug/Kg	SW8260C

**Lab ID:** SC52856-03RE1

**Client ID:** TB-02 (11.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	17000		9600	ug/Kg	SW8260C
Trichloroethene	81000		9600	ug/Kg	SW8260C

**Lab ID:** SC52856-04

**Client ID:** TB-03 (9')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.37	J	2.5	ug/Kg	SW8260C
Trichloroethene	0.87	J	2.5	ug/Kg	SW8260C

**Lab ID:** SC52856-05

**Client ID:** TB-04 (11.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	70	J	190	ug/Kg	SW8260C
trans-1,2-Dichloroethene	50	J	190	ug/Kg	SW8260C
Vinyl chloride	1700		190	ug/Kg	SW8260C

**Lab ID:** SC52856-05RE1

**Client ID:** TB-04 (11.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	22000		2000	ug/Kg	SW8260C
Trichloroethene	29000		2000	ug/Kg	SW8260C

**Lab ID:** SC52856-06

**Client ID:** TB-04 (12.9')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	3600		210	ug/Kg	SW8260C
Trichloroethene	1500		210	ug/Kg	SW8260C
Vinyl chloride	420		210	ug/Kg	SW8260C

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

Lab ID: SC52856-07

Client ID: TB-05 (12.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	2900		200	ug/Kg	SW8260C
Tetrachloroethene	67	J	200	ug/Kg	SW8260C
trans-1,2-Dichloroethene	22	J	200	ug/Kg	SW8260C
Vinyl chloride	21	J	200	ug/Kg	SW8260C

Lab ID: SC52856-07RE1

Client ID: TB-05 (12.5')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	100000		4000	ug/Kg	SW8260C

Lab ID: SC52856-08

Client ID: TB-10 (4')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
n-Butylbenzene	250		59	ug/Kg	SW8260C
sec-Butylbenzene	160		59	ug/Kg	SW8260C

Lab ID: SC52856-11

Client ID: TB-21 (5-6')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benz(a)anthracene	360		330	ug/Kg	SW8270D
Chrysene	540		330	ug/Kg	SW8270D
Pyrene	200	J	330	ug/Kg	SW8270D

Lab ID: SC52856-12

Client ID: TB-22 (13')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	1.9	J	2.4	ug/Kg	SW8260C
trans-1,2-Dichloroethene	1.3	J	2.4	ug/Kg	SW8260C

Lab ID: SC52856-12RE1

Client ID: TB-22 (13')

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	2900		140	ug/Kg	SW8260C
Trichloroethene	1400		140	ug/Kg	SW8260C
Vinyl chloride	25	J	140	ug/Kg	SW8260C

Lab ID: SC52856-13

Client ID: MW-A

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	230		100	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	20000		100	ug/l	SW-846 8260C
trans-1,2-Dichloroethene	52	J.	100	ug/l	SW-846 8260C
Trichloroethene	82000		1000	ug/l	SW-846 8260C
Vinyl Chloride	1500		100	ug/l	SW-846 8260C



Lab ID: SC52856-14

Client ID: MW-B

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethane	0.7	J.	1	ug/l	SW-846 8260C
1,1-Dichloroethene	0.3	J.	1	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	44		1	ug/l	SW-846 8260C
trans-1,2-Dichloroethene	0.3	J.	1	ug/l	SW-846 8260C
Trichloroethene	3		1	ug/l	SW-846 8260C
Vinyl Chloride	36		1	ug/l	SW-846 8260C

Lab ID: SC52856-15

Client ID: MW-C

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Fluoranthene	1.6	J	4.7	ug/L	SW8270D
Fluorene	1.8	J	4.7	ug/L	SW8270D
Phenanthrene	2.9	J	3.3	ug/L	SW8270D
Acenaphthene	1.0		0.47	ug/L	SW8270D (SIM)
Anthracene	0.70		0.47	ug/L	SW8270D (SIM)
Benz(a)anthracene	0.28		0.02	ug/L	SW8270D (SIM)
Benzo(a)pyrene	0.18		0.02	ug/L	SW8270D (SIM)
Benzo(b)fluoranthene	0.16		0.02	ug/L	SW8270D (SIM)
Benzo(k)fluoranthene	0.16		0.02	ug/L	SW8270D (SIM)
Chrysene	0.30		0.02	ug/L	SW8270D (SIM)
Fluoranthene	1.4		0.47	ug/L	SW8270D (SIM)
Fluorene	1.9		0.47	ug/L	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.14		0.02	ug/L	SW8270D (SIM)
Phenanthrene	2.8		0.47	ug/L	SW8270D (SIM)
Pyrene	0.94		0.47	ug/L	SW8270D (SIM)
Barium	0.312		0.0050	mg/l	SW-846 6010C
Lead	0.0074	J.	0.0150	mg/l	SW-846 6010C
Trichloroethene	0.8	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-16

Client ID: MW-D

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acenaphthene	1.5	J	4.8	ug/L	SW8270D
Acenaphthene	1.3		0.48	ug/L	SW8270D (SIM)
Fluorene	0.76		0.48	ug/L	SW8270D (SIM)
Phenanthrene	0.80		0.48	ug/L	SW8270D (SIM)
Arsenic	0.134		0.0500	mg/l	SW-846 6010C
Barium	0.217		0.0050	mg/l	SW-846 6010C
Cadmium	0.0013	J.	0.0050	mg/l	SW-846 6010C
Benzene	0.7	J.	1	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	0.8	J.	1	ug/l	SW-846 8260C
Cyclohexane	3	J.	5	ug/l	SW-846 8260C
Isopropylbenzene	1	J.	5	ug/l	SW-846 8260C
Methylcyclohexane	4	J.	5	ug/l	SW-846 8260C
n-Butylbenzene	0.9	J.	5	ug/l	SW-846 8260C
n-Propylbenzene	0.3	J.	5	ug/l	SW-846 8260C
sec-Butylbenzene	2	J.	5	ug/l	SW-846 8260C
trans-1,2-Dichloroethene	0.3	J.	1	ug/l	SW-846 8260C
Vinyl Chloride	6		1	ug/l	SW-846 8260C

Lab ID: SC52856-17

Client ID: MW-E

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Chloroethane	340	J.	1000	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	32000		1000	ug/l	SW-846 8260C
Trichloroethene	780000		5000	ug/l	SW-846 8260C
Vinyl Chloride	1100		1000	ug/l	SW-846 8260C

Lab ID: SC52856-18

Client ID: MW-F

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethene	500	J.	500	ug/l	SW-846 8260C
Chloroethane	150	J.	500	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	140000		500	ug/l	SW-846 8260C
trans-1,2-Dichloroethene	240	J.	500	ug/l	SW-846 8260C
Trichloroethene	230000		2000	ug/l	SW-846 8260C
Vinyl Chloride	6200		500	ug/l	SW-846 8260C

Lab ID: SC52856-19

Client ID: MW-G

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	2		1	ug/l	SW-846 8260C
Vinyl Chloride	3		1	ug/l	SW-846 8260C

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Lab ID: SC52856-20

Client ID: MW-H

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.0180	J.	0.0500	mg/l	SW-846 6010C
Barium	0.549		0.0050	mg/l	SW-846 6010C
cis-1,2-Dichloroethene	0.8	J.	1	ug/l	SW-846 8260C
Vinyl Chloride	0.5	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-21

Client ID: MW-I

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	8		1	ug/l	SW-846 8260C
Trichloroethene	61		1	ug/l	SW-846 8260C
Vinyl Chloride	0.8	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-22

Client ID: MW-J

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	3		1	ug/l	SW-846 8260C
Trichloroethene	0.5	J.	1	ug/l	SW-846 8260C
Vinyl Chloride	0.6	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-23

Client ID: MW-K

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diethyl phthalate	2.2	J	4.8	ug/L	SW8270D
Acenaphthene	1.0		0.48	ug/L	SW8270D (SIM)
Fluorene	0.82		0.48	ug/L	SW8270D (SIM)
Phenanthrene	0.58		0.48	ug/L	SW8270D (SIM)
Barium	0.151		0.0050	mg/l	SW-846 6010C
cis-1,2-Dichloroethene	0.2	J.	1	ug/l	SW-846 8260C
sec-Butylbenzene	0.2	J.	5	ug/l	SW-846 8260C
Trichloroethene	0.4	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-24

Client ID: MW-L

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	1	J.	20	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	0.4	J.	1	ug/l	SW-846 8260C
Trichloroethene	0.7	J.	1	ug/l	SW-846 8260C
Vinyl Chloride	0.3	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-25

Client ID: MW-N

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Phenanthrene	0.58		0.49	ug/L	SW8270D MOD(SIM)

Lab ID: SC52856-26

Client ID: MW-O

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.274		0.0050	mg/l	SW-846 6010C
Vinyl Chloride	0.2	J.	1	ug/l	SW-846 8260C

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

Lab ID: SC52856-27

Client ID: MW-P

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.0225	J.	0.0500	mg/l	SW-846 6010C
Barium	0.157		0.0050	mg/l	SW-846 6010C
Acetone	1	J.	20	ug/l	SW-846 8260C

Lab ID: SC52856-28

Client ID: MW-Q

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.0721		0.0500	mg/l	SW-846 6010C
Barium	0.309		0.0050	mg/l	SW-846 6010C
1,1-Dichloroethane	0.2	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-29

Client ID: MW-R

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.268		0.0050	mg/l	SW-846 6010C
1,1,2-Trichloroethane	2	J.	5	ug/l	SW-846 8260C
1,1-Dichloroethene	38		5	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	3500		50	ug/l	SW-846 8260C
Methylcyclohexane	1	J.	25	ug/l	SW-846 8260C
trans-1,2-Dichloroethene	12		5	ug/l	SW-846 8260C
Trichloroethene	1100		5	ug/l	SW-846 8260C
Vinyl Chloride	840		5	ug/l	SW-846 8260C

Lab ID: SC52856-30

Client ID: MW-S

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.142		0.0050	mg/l	SW-846 6010C

Lab ID: SC52856-31

Client ID: MW-T

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.0371	J.	0.0500	mg/l	SW-846 6010C
Barium	0.256		0.0050	mg/l	SW-846 6010C
Lead	0.0092	J.	0.0150	mg/l	SW-846 6010C
Acetone	2	J.	20	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	0.4	J.	1	ug/l	SW-846 8260C
Vinyl Chloride	0.3	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-32

Client ID: TB-11 (GW)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.3	J.	1	ug/l	SW-846 8260C
Trichloroethene	0.5	J.	1	ug/l	SW-846 8260C

Lab ID: SC52856-33

Client ID: TB-18 (GW)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethane	0.6	J.	1	ug/l	SW-846 8260C
cis-1,2-Dichloroethene	13		1	ug/l	SW-846 8260C
trans-1,2-Dichloroethene	0.4	J.	1	ug/l	SW-846 8260C
Trichloroethene	2		1	ug/l	SW-846 8260C
Vinyl Chloride	8		1	ug/l	SW-846 8260C

*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

**TB-01 (11')**  
SC52856-01

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
19-Dec-18 14:50

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW8260C

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

10061-02-6	trans-1,3-Dichloropropene	< 46000		ug/Kg	46000	4600	10000	SW8260C	19-Dec-18 14:50	31-Dec-18 21:05	CT007	461826A	
74-95-3	Dibromomethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
75-09-2	Methylene chloride	< 46000		ug/Kg	46000	46000	10000	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-buten e	< 91000		ug/Kg	91000	23000	10000	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
75-01-4	Vinyl chloride	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
108-86-1	Bromobenzene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
75-25-2	Bromoform	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
74-83-9	Bromomethane	< 46000		ug/Kg	46000	18000	10000	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
75-00-3	Chloroethane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
67-66-3	Chloroform	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"
74-87-3	Chloromethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	<b>34,000</b>	J	ug/Kg	46000	4600	10000	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 46000		ug/Kg	46000	9100	10000	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 46000		ug/Kg	46000	4600	10000	"	"	"	"	"	"

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	96			70-130 %			"	"	"	"	"	"
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*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

**TB-01 (11')**  
SC52856-01

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
19-Dec-18 14:50

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

460-00-4	% Bromofluorobenzene	98			70-130 %			SW8260C	19-Dec-18 14:50	28-Dec-18 21:13	CT007	461826A	
2037-26-5	% Toluene-d8	100			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	92			70-130 %			"	"	"	"	"	"

Re-analysis of Subcontracted Analyses

Prepared by method SW8260C

79-01-6	Trichloroethene	4,400,000		ug/Kg	160000	16000	50000	SW8260C	19-Dec-18 14:50	02-Jan-19 11:43	CT007	461964A	
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Prepared by method SW846-%Solid

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

	Percent Solid	87		%			1	SW846-%Solid	19-Dec-18 14:50	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

**TB-01 (12.5')**

SC52856-02

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

19-Dec-18 15:10

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW8260C

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

96-12-8	1,2-Dibromo-3-chloropropane	< 160		ug/Kg	160	33	50	SW8260C	19-Dec-18 15:10	30-Dec-18 14:20	CT007	461716A	
74-83-9	Bromomethane	< 160		ug/Kg	160	65	50	"	"	"	"	"	"
75-25-2	Bromoform	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
108-86-1	Bromobenzene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
75-00-3	Chloroethane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-butene	< 330		ug/Kg	330	81	50	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
75-09-2	Methylene chloride	< 160		ug/Kg	160	160	50	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
74-95-3	Dibromomethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
74-87-3	Chloromethane	< 160		ug/Kg	160	33	50	"	"	"	"	"	"
67-66-3	Chloroform	< 160		ug/Kg	160	16	50	"	"	"	"	"	"
75-01-4	Vinyl chloride	< 160		ug/Kg	160	16	50	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	% Toluene-d8	107			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	96			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	98			70-130 %			"	"	"	"	"	"

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

Sample Identification

**TB-01 (12.5')**  
SC52856-02

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
19-Dec-18 15:10

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

2199-69-1	% 1,2-dichlorobenzene-d4	96			70-130 %			SW8260C	19-Dec-18 15:10	28-Dec-18 14:15:10	CT007	461716A	
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Re-analysis of Subcontracted Analyses

Prepared by method SW8260C

79-01-6	Trichloroethene	10,000		ug/Kg	660	66	200	SW8260C	19-Dec-18 15:10	31-Dec-18 21:26	CT007	461826A	
156-59-2	cis-1,2-Dichloroethene	260	J	ug/Kg	660	66	200	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	% Toluene-d8	99			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	94			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	"
2199-69-1	% 1,2-dichlorobenzene-d4	98			70-130 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

	Percent Solid	93		%			1	SW846-%Solid	19-Dec-18 15:10	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

TB-02 (11.5')

SC52856-03

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

19-Dec-18 10:15

Received

28-Dec-18

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

Subcontracted Analyses

Prepared by method SW8260C

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

10061-02-6	trans-1,3-Dichloropropene	< 240		ug/Kg	240	24	50	SW8260C	19-Dec-18 10:15	30-Dec-18 13:59	CT007	461716A	
75-01-4	Vinyl chloride	1,500		ug/Kg	240	24	50	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	49	J	ug/Kg	240	24	50	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	110	J	ug/Kg	240	24	50	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-buten e	< 480		ug/Kg	480	120	50	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
75-09-2	Methylene chloride	< 240		ug/Kg	240	240	50	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
74-95-3	Dibromomethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
74-87-3	Chloromethane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
67-66-3	Chloroform	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
75-00-3	Chloroethane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
75-25-2	Bromoform	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
108-86-1	Bromobenzene	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 240		ug/Kg	240	48	50	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 240		ug/Kg	240	24	50	"	"	"	"	"	"
74-83-9	Bromomethane	< 240		ug/Kg	240	96	50	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	% Toluene-d8	117			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	95			70-130 %			"	"	"	"	"	"

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

Sample Identification

**TB-02 (11.5')**  
SC52856-03

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
19-Dec-18 10:15

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

460-00-4	% Bromofluorobenzene	97			70-130 %			SW8260C	19-Dec-18 10:15	28-Dec-18 13:10	CT007	461716A	
2199-69-1	% 1,2-dichlorobenzene-d4	97			70-130 %			"	"	"	"	"	"

Re-analysis of Subcontracted Analyses

Prepared by method SW8260C

79-01-6	Trichloroethene	<b>81,000</b>		ug/Kg	9600	960	2000	SW8260C	19-Dec-18 10:15	31-Dec-18 21:47	CT007	461826A	
156-59-2	cis-1,2-Dichloroethene	<b>17,000</b>		ug/Kg	9600	960	2000	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	% Toluene-d8	99			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	95			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	"
2199-69-1	% 1,2-dichlorobenzene-d4	98			70-130 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

	Percent Solid	<b>89</b>		%			1	SW846-%Solid	19-Dec-18 10:15	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

**TB-03 (9')** Client Project # 5529S-18 Matrix Soil Collection Date/Time 20-Dec-18 08:20 Received 28-Dec-18  
 SC52856-04

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

Subcontracted Analyses

Prepared by method SW8260C

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

75-69-4	Trichlorofluoromethane	< 2.5		ug/Kg	2.5	0.49	1	SW8260C	20-Dec-18 08:20	31-Dec-18 22:29	CT007	461826A	
95-50-1	1,2-Dichlorobenzene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
75-01-4	Vinyl chloride	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
67-66-3	Chloroform	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
79-01-6	Trichloroethene	0.87	J	ug/Kg	2.5	0.25	1	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-butene	< 4.9		ug/Kg	4.9	1.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
75-09-2	Methylene chloride	< 2.5		ug/Kg	2.5	2.5	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 2.5		ug/Kg	2.5	0.99	1	"	"	"	"	"	"
75-25-2	Bromoform	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 2.5		ug/Kg	2.5	0.49	1	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 2.5		ug/Kg	2.5	0.25	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	0.37	J	ug/Kg	2.5	0.25	1	"	"	"	"	"	"

Surrogate recoveries:

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

Sample Identification

<b>TB-03 (9')</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52856-04	5529S-18	Soil	20-Dec-18 08:20	28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

1868-53-7	% Dibromofluoromethane	99			70-130 %			SW8260C	20-Dec-18	-Dec-18 22:08:20	CT007	461826A	
2037-26-5	% Toluene-d8	97			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	"
2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

Percent Solid	<b>95</b>	%					1	SW846-%Solid	"	28-Dec-18	CT007	'[none]'	
										19:56			

Sample Identification

**TB-04 (11.5')**

SC52856-05

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

20-Dec-18 07:50

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW8260C

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

563-58-6	1,1-Dichloropropene	< 190		ug/Kg	190	19	50	SW8260C	20-Dec-18 07:50	31-Dec-18 22:50	CT007	461826A	
75-25-2	Bromoform	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
108-86-1	Bromobenzene	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	<b>70</b>	J	ug/Kg	190	19	50	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
75-01-4	Vinyl chloride	<b>1,700</b>		ug/Kg	190	19	50	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
74-83-9	Bromomethane	< 190		ug/Kg	190	78	50	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-butene	< 390		ug/Kg	390	97	50	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	<b>50</b>	J	ug/Kg	190	19	50	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
75-09-2	Methylene chloride	< 190		ug/Kg	190	190	50	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
74-95-3	Dibromomethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
74-87-3	Chloromethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"
67-66-3	Chloroform	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
75-00-3	Chloroethane	< 190		ug/Kg	190	19	50	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 190		ug/Kg	190	39	50	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	% Toluene-d8	103			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	88			70-130 %			"	"	"	"	"	"

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Sample Identification

**TB-04 (11.5')**  
SC52856-05

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
20-Dec-18 07:50

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

460-00-4	% Bromofluorobenzene	97			70-130 %			SW8260C	20-Dec-18 07:50	-Dec-18 22:07:50	CT007	461826A	
2199-69-1	% 1,2-dichlorobenzene-d4	98			70-130 %			"	"	"	"	"	"

Re-analysis of Subcontracted Analyses

Prepared by method SW8260C

79-01-6	Trichloroethene	29,000		ug/Kg	2000	200	500	SW8260C	20-Dec-18 07:50	02-Jan-19 12:04	CT007	461964A	
156-59-2	cis-1,2-Dichloroethene	22,000		ug/Kg	2000	200	500	"	"	"	"	"	"

Prepared by method SW846-%Solid

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

	Percent Solid	86		%			1	SW846-%Solid	20-Dec-18 07:50	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

**TB-04 (12.9')**

SC52856-06

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

20-Dec-18 08:00

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW8260C

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

79-34-5	1,1,2,2-Tetrachloroethane	< 210		ug/Kg	210	42	50	SW8260C	20-Dec-18 08:00	31-Dec-18 23:11	CT007	461826A	
71-55-6	1,1,1-Trichloroethane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	<b>3,600</b>		ug/Kg	210	21	50	"	"	"	"	"	"
74-87-3	Chloromethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
67-66-3	Chloroform	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
75-00-3	Chloroethane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
74-83-9	Bromomethane	< 210		ug/Kg	210	83	50	"	"	"	"	"	"
75-25-2	Bromoform	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
108-86-1	Bromobenzene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
75-09-2	Methylene chloride	< 210		ug/Kg	210	210	50	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
74-95-3	Dibromomethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
75-01-4	Vinyl chloride	<b>420</b>		ug/Kg	210	21	50	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 210		ug/Kg	210	42	50	"	"	"	"	"	"
79-01-6	Trichloroethene	<b>1,500</b>		ug/Kg	210	21	50	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-butene	< 420		ug/Kg	420	100	50	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 210		ug/Kg	210	21	50	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 210		ug/Kg	210	42	50	"	"	"	"	"	"

Surrogate recoveries:

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

Sample Identification

TB-04 (12.9')

SC52856-06

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

20-Dec-18 08:00

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

2037-26-5	% Toluene-d8	99			70-130 %			SW8260C	20-Dec-18	-Dec-18 23:08:00	CT007	461826A	
1868-53-7	% Dibromofluoromethane	90			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	"
2199-69-1	% 1,2-dichlorobenzene-d4	97			70-130 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

Percent Solid		87		%			1	SW846-%Solid	"	28-Dec-18	CT007	'[none]'	
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Sample Identification

TB-05 (12.5')

SC52856-07

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

19-Dec-18 16:45

Received

28-Dec-18

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

Subcontracted Analyses

Prepared by method SW8260C

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

156-59-2	cis-1,2-Dichloroethene	2,900		ug/Kg	200	20	50	SW8260C	19-Dec-18 16:45	31-Dec-18 23:32	CT007	461826A	
142-28-9	1,3-Dichloropropane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
75-01-4	Vinyl chloride	21	J	ug/Kg	200	20	50	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-buten e	< 400		ug/Kg	400	99	50	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	22	J	ug/Kg	200	20	50	"	"	"	"	"	"
127-18-4	Tetrachloroethene	67	J	ug/Kg	200	40	50	"	"	"	"	"	"
75-09-2	Methylene chloride	< 200		ug/Kg	200	200	50	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
74-95-3	Dibromomethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
74-87-3	Chloromethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
67-66-3	Chloroform	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
75-00-3	Chloroethane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
74-83-9	Bromomethane	< 200		ug/Kg	200	80	50	"	"	"	"	"	"
75-25-2	Bromoform	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
108-86-1	Bromobenzene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 200		ug/Kg	200	20	50	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 200		ug/Kg	200	40	50	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 200		ug/Kg	200	20	50	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	% Toluene-d8	105			70-130 %			"	"	"	"	"	"
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Sample Identification

TB-05 (12.5')  
SC52856-07

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
19-Dec-18 16:45

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

1868-53-7	% Dibromofluoromethane	90			70-130 %			SW8260C	19-Dec-18 16:45	-Dec-18 23:16:45	CT007	461826A	
460-00-4	% Bromofluorobenzene	99			70-130 %			"	"	"	"	"	"
2199-69-1	% 1,2-dichlorobenzene-d4	97			70-130 %			"	"	"	"	"	"

Re-analysis of Subcontracted Analyses

Prepared by method SW8260C

79-01-6	Trichloroethene	100,000		ug/Kg	4000	400	1000	SW8260C	19-Dec-18 16:45	02-Jan-19 12:25	CT007	461964A	
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Prepared by method SW846-%Solid

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

	Percent Solid	88		%			1	SW846-%Solid	19-Dec-18 16:45	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

**TB-10 (4')** Client Project # 5529S-18 Matrix Soil Collection Date/Time 18-Dec-18 12:00 Received 28-Dec-18  
 SC52856-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
<b>Subcontracted Analyses</b>													
<u>Subcontracted Analyses</u>													
<u>Prepared by method SW8260C</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. * - CT007</i>													
106-93-4	1,2-Dibromoethane	< 290		ug/Kg	290	29	50	SW8260C	18-Dec-18 12:00	01-Jan-19 00:35	CT007	461826A	
71-43-2	Benzene	< 120		ug/Kg	120	29	50	"	"	"	"	"	"
67-64-1	Acetone	< 1500		ug/Kg	1500	290	50	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 1500		ug/Kg	1500	290	50	"	"	"	"	"	"
591-78-6	2-Hexanone	< 1500		ug/Kg	1500	290	50	"	"	"	"	"	"
123-91-1	1,4-dioxane	< 4400		ug/Kg	4400	2400	50	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 59		ug/Kg	59	29	50	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 59		ug/Kg	59	29	50	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
1634-04-4	Methyl t-butyl ether (MTBE)	< 590		ug/Kg	590	59	50	"	"	"	"	"	"
75-00-3	Chloroethane	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
67-66-3	Chloroform	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
74-87-3	Chloromethane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
110-82-7	Cyclohexane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 120		ug/Kg	120	29	50	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 59		ug/Kg	59	29	50	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
78-93-3	Methyl ethyl ketone	< 1800		ug/Kg	1800	290	50	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
79-20-9	Methylacetate	< 290		ug/Kg	290	290	50	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
75-09-2	Methylene chloride	< 290		ug/Kg	290	290	50	"	"	"	"	"	"
104-51-8	n-Butylbenzene	250		ug/Kg	59	29	50	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 59		ug/Kg	59	59	50	"	"	"	"	"	"
91-20-3	Naphthalene	< 59		ug/Kg	59	59	50	"	"	"	"	"	"

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Sample Identification

**TB-10 (4')** Client Project # 5529S-18 Matrix Soil Collection Date/Time 18-Dec-18 12:00 Received 28-Dec-18  
 SC52856-08

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

Subcontracted Analyses

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

95-47-6	o-Xylene	< 290		ug/Kg	290	59	50	SW8260C	18-Dec-18 12:00	01-Jan-19 00:35	CT007	461826A	
99-87-6	p-Isopropyltoluene	< 59		ug/Kg	59	29	50	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	160		ug/Kg	59	29	50	"	"	"	"	"	"
100-42-5	Styrene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
179601-23-1	m&p-Xylene	< 120		ug/Kg	120	59	50	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
75-25-2	Bromoform	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
74-83-9	Bromomethane	< 290		ug/Kg	290	120	50	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 59		ug/Kg	59	29	50	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
108-88-3	Toluene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
79-01-6	Trichloroethene	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 290		ug/Kg	290	59	50	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 290		ug/Kg	290	29	50	"	"	"	"	"	"
75-01-4	Vinyl chloride	< 290		ug/Kg	290	29	50	"	"	"	"	"	"

Surrogate recoveries:

2199-69-1	% 1,2-Dichlorobenzene-d4	98			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	114			70-130 %			"	"	"	"	"	"
2037-26-5	% Toluene-d8	98			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	89			70-130 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

Percent Solid	84	%					1	SW846-%Solid	"	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

**TB-10 (4-5')**

SC52856-09

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

18-Dec-18 12:05

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW3545A

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

37324-23-5	PCB-1262	< 120		ug/Kg	120	120	2	SW8082A	28-Dec-18	31-Dec-18 22:25	CT007	461564A	
12674-11-2	PCB-1016	< 120		ug/Kg	120	120	2	"	"	"	"	"	"
11104-28-2	PCB-1221	< 120		ug/Kg	120	120	2	"	"	"	"	"	"
11141-16-5	PCB-1232	< 120		ug/Kg	120	120	2	"	"	"	"	"	"
53469-21-9	PCB-1242	< 120		ug/Kg	120	120	2	"	"	"	"	"	"
12672-29-6	PCB-1248	< 120		ug/Kg	120	120	2	"	"	"	"	"	"
11096-82-5	PCB-1260	< 120		ug/Kg	120	120	2	"	"	"	"	"	"
11100-14-4	PCB-1268	< 120		ug/Kg	120	120	2	"	"	"	"	"	"
11097-69-1	PCB-1254	< 120		ug/Kg	120	120	2	"	"	"	"	"	"

*Surrogate recoveries:*

2051-24-3	% DCBP	69			40-140 %			"	"	"	"	"	"
877-09-8	% TCMX	63			40-140 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

Percent Solid		<b>53</b>		%			1	SW846-%Solid	18-Dec-18 12:05	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

**TB-19 (7-8')**

SC52856-10

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

17-Dec-18 10:35

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW3545A

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

37324-23-5	PCB-1262	< 77		ug/Kg	77	77	2	SW8082A	28-Dec-18	31-Dec-18 22:48	CT007	461564A	
12674-11-2	PCB-1016	< 77		ug/Kg	77	77	2	"	"	"	"	"	"
11100-14-4	PCB-1268	< 77		ug/Kg	77	77	2	"	"	"	"	"	"
11104-28-2	PCB-1221	< 77		ug/Kg	77	77	2	"	"	"	"	"	"
11141-16-5	PCB-1232	< 77		ug/Kg	77	77	2	"	"	"	"	"	"
53469-21-9	PCB-1242	< 77		ug/Kg	77	77	2	"	"	"	"	"	"
12672-29-6	PCB-1248	< 77		ug/Kg	77	77	2	"	"	"	"	"	"
11097-69-1	PCB-1254	< 77		ug/Kg	77	77	2	"	"	"	"	"	"
11096-82-5	PCB-1260	< 77		ug/Kg	77	77	2	"	"	"	"	"	"

*Surrogate recoveries:*

877-09-8	% TCMX	60			40-140 %			"	"	"	"	"	"
2051-24-3	% DCBP	70			40-140 %			"	"	"	"	"	"

**Subcontracted Analyses**

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

7005-72-3	4-Chlorophenyl phenyl ether	< 270		ug/Kg	270	130	1	SW8270D	"	30-Dec-18 02:32	CT007	461562A	
1912-24-9	Atrazine	< 270		ug/Kg	270	99	1	"	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	< 270		ug/Kg	270	270	1	"	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
106-47-8	4-Chloroaniline	< 760		ug/Kg	760	180	1	"	"	"	"	"	"
108-95-2	Phenol	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
100-01-6	4-Nitroaniline	< 1900		ug/Kg	1900	130	1	"	"	"	"	"	"
83-32-9	Acenaphthene	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 150		ug/Kg	150	110	1	"	"	"	"	"	"
100-02-7	4-Nitrophenol	< 270		ug/Kg	270	170	1	"	"	"	"	"	"
120-12-7	Anthracene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
100-52-7	Benzaldehyde	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	< 150		ug/Kg	150	120	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
85-68-7	Benzyl butyl phthalate	< 270		ug/Kg	270	99	1	"	"	"	"	"	"
111-91-1	Bis(2-chloroethoxy)methane	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
98-86-2	Acetophenone	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
84-66-2	Diethyl phthalate	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
78-59-1	Isophorone	< 150		ug/Kg	150	110	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
67-72-1	Hexachloroethane	< 150		ug/Kg	150	110	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 270		ug/Kg	270	120	1	"	"	"	"	"	"

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Sample Identification

TB-19 (7-8')

SC52856-10

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

17-Dec-18 10:35

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

87-68-3	Hexachlorobutadiene	< 270		ug/Kg	270	140	1	SW8270D	28-Dec-18	30-Dec-18 02:32	CT007	461562A	
118-74-1	Hexachlorobenzene	< 150		ug/Kg	150	110	1	"	"	"	"	"	"
86-73-7	Fluorene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
131-11-3	Dimethylphthalate	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
86-30-6	N-Nitrosodiphenylamine	< 150		ug/Kg	150	150	1	"	"	"	"	"	"
132-64-9	Dibenzofuran	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 150		ug/Kg	150	120	1	"	"	"	"	"	"
117-84-0	Di-n-octylphthalate	< 270		ug/Kg	270	99	1	"	"	"	"	"	"
84-74-2	Di-n-butylphthalate	< 270		ug/Kg	270	100	1	"	"	"	"	"	"
218-01-9	Chrysene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
86-74-8	Carbazole	< 270		ug/Kg	270	190	1	"	"	"	"	"	"
105-60-2	Caprolactam	< 270		ug/Kg	270	270	1	"	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
39638-32-9	Bis(2-chloroisopropyl)ether	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	< 150		ug/Kg	150	120	1	"	"	"	"	"	"
99-09-2	3-Nitroaniline	< 760		ug/Kg	760	270	1	"	"	"	"	"	"
129-00-0	Pyrene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	< 270		ug/Kg	270	130	1	"	"	"	"	"	"
85-01-8	Phenanthrene	< 150		ug/Kg	150	110	1	"	"	"	"	"	"
87-86-5	Pentachlorophenol	< 270		ug/Kg	270	140	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	< 150		ug/Kg	150	130	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	< 270		ug/Kg	270	210	1	"	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	< 150		ug/Kg	150	150	1	"	"	"	"	"	"
88-74-4	2-Nitroaniline	< 270		ug/Kg	270	270	1	"	"	"	"	"	"
88-75-5	2-Nitrophenol	< 270		ug/Kg	270	240	1	"	"	"	"	"	"
	3&4-Methylphenol (m&p-cresol)	< 270		ug/Kg	270	150	1	"	"	"	"	"	"
95-48-7	2-Methylphenol (o-cresol)	< 270		ug/Kg	270	180	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
95-57-8	2-Chlorophenol	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	< 150		ug/Kg	150	120	1	"	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	< 150		ug/Kg	150	150	1	"	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	< 270		ug/Kg	270	270	1	"	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	< 270		ug/Kg	270	95	1	"	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	< 150		ug/Kg	150	130	1	"	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	< 150		ug/Kg	150	120	1	"	"	"	"	"	"
91-58-7	2-Chloronaphthalene	< 270		ug/Kg	270	110	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 150		ug/Kg	150	100	1	"	"	"	"	"	"
92-52-4	1,1-Biphenyl	< 270		ug/Kg	270	120	1	"	"	"	"	"	"
58-90-2	2,3,4,6-tetrachlorophenol	< 270		ug/Kg	270	180	1	"	"	"	"	"	"

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Sample Identification

**TB-19 (7-8')**  
SC52856-10

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
17-Dec-18 10:35

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

Surrogate recoveries:

118-79-6	% 2,4,6-Tribromophenol	76			30-130 %			SW8270D	28-Dec-18	-Dec-18 02:	CT007	461562A	
321-60-8	% 2-Fluorobiphenyl	64			30-130 %			"	"	"	"	"	"
367-12-4	% 2-Fluorophenol	66			30-130 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	62			30-130 %			"	"	"	"	"	"
4165-62-2	% Phenol-d5	64			30-130 %			"	"	"	"	"	"
98904-43-9	% Terphenyl-d14	75			30-130 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

Percent Solid		<b>87</b>		%			1	SW846-%Solid	17-Dec-18 10:35	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

TB-21 (5-6')

SC52856-11

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

17-Dec-18 15:30

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW3545A

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

12674-11-2	PCB-1016	< 94		ug/Kg	94	94	2	SW8082A	28-Dec-18	31-Dec-18 23:11	CT007	461564A	
11104-28-2	PCB-1221	< 94		ug/Kg	94	94	2	"	"	"	"	"	"
11141-16-5	PCB-1232	< 94		ug/Kg	94	94	2	"	"	"	"	"	"
53469-21-9	PCB-1242	< 94		ug/Kg	94	94	2	"	"	"	"	"	"
12672-29-6	PCB-1248	< 94		ug/Kg	94	94	2	"	"	"	"	"	"
11097-69-1	PCB-1254	< 94		ug/Kg	94	94	2	"	"	"	"	"	"
37324-23-5	PCB-1262	< 94		ug/Kg	94	94	2	"	"	"	"	"	"
11096-82-5	PCB-1260	< 94		ug/Kg	94	94	2	"	"	"	"	"	"
11100-14-4	PCB-1268	< 94		ug/Kg	94	94	2	"	"	"	"	"	"

*Surrogate recoveries:*

877-09-8	% TCMX	65			40-140 %			"	"	"	"	"	"
2051-24-3	% DCBP	67			40-140 %			"	"	"	"	"	"

**Subcontracted Analyses**

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

121-14-2	2,4-Dinitrotoluene	< 190		ug/Kg	190	190	1	SW8270D	"	30-Dec-18 02:58	CT007	461562A	
91-94-1	3,3'-Dichlorobenzidine	< 280		ug/Kg	280	280	1	"	"	"	"	"	"
88-75-5	2-Nitrophenol	< 330		ug/Kg	330	300	1	"	"	"	"	"	"
	3&4-Methylphenol (m&p-cresol)	< 330		ug/Kg	330	190	1	"	"	"	"	"	"
95-48-7	2-Methylphenol (o-cresol)	< 330		ug/Kg	330	220	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
95-57-8	2-Chlorophenol	< 330		ug/Kg	330	130	1	"	"	"	"	"	"
91-58-7	2-Chloronaphthalene	< 330		ug/Kg	330	130	1	"	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	< 190		ug/Kg	190	150	1	"	"	"	"	"	"
88-74-4	2-Nitroaniline	< 330		ug/Kg	330	330	1	"	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	< 330		ug/Kg	330	330	1	"	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	< 330		ug/Kg	330	120	1	"	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	< 190		ug/Kg	190	170	1	"	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	< 190		ug/Kg	190	150	1	"	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	< 330		ug/Kg	330	260	1	"	"	"	"	"	"
58-90-2	2,3,4,6-tetrachlorophenol	< 330		ug/Kg	330	220	1	"	"	"	"	"	"
92-52-4	1,1-Biphenyl	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
99-09-2	3-Nitroaniline	< 940		ug/Kg	940	330	1	"	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 330		ug/Kg	330	170	1	"	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	< 330		ug/Kg	330	330	1	"	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
111-91-1	Bis(2-chloroethoxy)metha ne	< 330		ug/Kg	330	130	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
98-86-2	Acetophenone	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
120-12-7	Anthracene	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
1912-24-9	Atrazine	< 330		ug/Kg	330	120	1	"	"	"	"	"	"

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Sample Identification

TB-21 (5-6')

SC52856-11

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

17-Dec-18 15:30

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

56-55-3	Benz(a)anthracene	360		ug/Kg	330	160	1	SW8270D	28-Dec-18	30-Dec-18 02:58	CT007	461562A	
100-52-7	Benzaldehyde	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 330		ug/Kg	330	160	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 330		ug/Kg	330	160	1	"	"	"	"	"	"
85-68-7	Benzyl butyl phthalate	< 330		ug/Kg	330	120	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	< 190		ug/Kg	190	150	1	"	"	"	"	"	"
117-84-0	Di-n-octylphthalate	< 330		ug/Kg	330	120	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 190		ug/Kg	190	150	1	"	"	"	"	"	"
132-64-9	Dibenzofuran	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
84-66-2	Diethyl phthalate	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
106-47-8	4-Chloroaniline	< 940		ug/Kg	940	220	1	"	"	"	"	"	"
131-11-3	Dimethylphthalate	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
86-73-7	Fluorene	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	< 190		ug/Kg	190	140	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 330		ug/Kg	330	170	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
67-72-1	Hexachloroethane	< 190		ug/Kg	190	140	1	"	"	"	"	"	"
84-74-2	Di-n-butylphthalate	< 330		ug/Kg	330	120	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 190		ug/Kg	190	130	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 330		ug/Kg	330	160	1	"	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	< 190		ug/Kg	190	150	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 330		ug/Kg	330	130	1	"	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	< 330		ug/Kg	330	160	1	"	"	"	"	"	"
86-30-6	N-Nitrosodiphenylamine	< 190		ug/Kg	190	180	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	< 190		ug/Kg	190	160	1	"	"	"	"	"	"
87-86-5	Pentachlorophenol	< 330		ug/Kg	330	180	1	"	"	"	"	"	"
100-01-6	4-Nitroaniline	< 2300		ug/Kg	2300	160	1	"	"	"	"	"	"
100-02-7	4-Nitrophenol	< 330		ug/Kg	330	210	1	"	"	"	"	"	"
83-32-9	Acenaphthene	< 330		ug/Kg	330	140	1	"	"	"	"	"	"
85-01-8	Phenanthrene	< 190		ug/Kg	190	130	1	"	"	"	"	"	"
108-95-2	Phenol	< 330		ug/Kg	330	150	1	"	"	"	"	"	"
129-00-0	Pyrene	200	J	ug/Kg	330	160	1	"	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	< 330		ug/Kg	330	170	1	"	"	"	"	"	"
78-59-1	Isophorone	< 190		ug/Kg	190	130	1	"	"	"	"	"	"
218-01-9	Chrysene	540		ug/Kg	330	160	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 190		ug/Kg	190	130	1	"	"	"	"	"	"
86-74-8	Carbazole	< 330		ug/Kg	330	230	1	"	"	"	"	"	"
105-60-2	Caprolactam	< 330		ug/Kg	330	330	1	"	"	"	"	"	"
39638-32-9	Bis(2-chloroisopropyl)ether	< 330		ug/Kg	330	130	1	"	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	< 330		ug/Kg	330	140	1	"	"	"	"	"	"

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

Sample Identification

**TB-21 (5-6')**

SC52856-11

Client Project #

5529S-18

Matrix

Soil

Collection Date/Time

17-Dec-18 15:30

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

Surrogate recoveries:

98904-43-9	% Terphenyl-d14	82			30-130 %			SW8270D	28-Dec-18	-Dec-18 02:	CT007	461562A	
4165-62-2	% Phenol-d5	56			30-130 %			"	"	"	"	"	"
367-12-4	% 2-Fluorophenol	52			30-130 %			"	"	"	"	"	"
321-60-8	% 2-Fluorobiphenyl	61			30-130 %			"	"	"	"	"	"
118-79-6	% 2,4,6-Tribromophenol	69			30-130 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	42			30-130 %			"	"	"	"	"	"

Prepared by method SW846-%Solid

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

Percent Solid	<b>70</b>	%					1	SW846-%Solid	17-Dec-18 15:30	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

**TB-22 (13')**  
SC52856-12

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
20-Dec-18 10:45

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW8260C

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

76-13-1	Trichlorotrifluoroethane	< 2.4		ug/Kg	2.4	0.24	1	SW8260C	20-Dec-18 10:45	30-Dec-18 16:47	CT007	461716A	
75-69-4	Trichlorofluoromethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	1.9	J	ug/Kg	2.4	0.24	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-buten e	< 4.7		ug/Kg	4.7	1.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	1.3	J	ug/Kg	2.4	0.24	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
75-09-2	Methylene chloride	< 2.4		ug/Kg	2.4	2.4	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
67-66-3	Chloroform	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 2.4		ug/Kg	2.4	0.95	1	"	"	"	"	"	"
75-25-2	Bromoform	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 2.4		ug/Kg	2.4	0.24	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 2.4		ug/Kg	2.4	0.47	1	"	"	"	"	"	"

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %			"	"	"	"	"	"
2037-26-5	% Toluene-d8	106			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	96			70-130 %			"	"	"	"	"	"

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Sample Identification

**TB-22 (13')**  
SC52856-12

Client Project #  
5529S-18

Matrix  
Soil

Collection Date/Time  
20-Dec-18 10:45

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

1868-53-7	% Dibromofluoromethane	96			70-130 %			SW8260C	20-Dec-18 10:45	28-Dec-18 16:00	CT007	461716A	
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Re-analysis of Subcontracted Analyses

Prepared by method SW8260C

156-59-2	cis-1,2-Dichloroethene	<b>2,900</b>		ug/Kg	140	14	50	SW8260C	20-Dec-18 10:45	01-Jan-19 00:14	CT007	461826A	
79-01-6	Trichloroethene	<b>1,400</b>		ug/Kg	140	14	50	"	"	"	"	"	
75-01-4	Vinyl chloride	<b>25</b>	J	ug/Kg	140	14	50	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	97			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	88			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	100			70-130 %			"	"	"	"	"	

Prepared by method SW846-%Solid

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

	Percent Solid	<b>91</b>		%			1	SW846-%Solid	20-Dec-18 10:45	28-Dec-18 19:56	CT007	'[none]'	
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Sample Identification

MW-A Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 09:53 Received 28-Dec-18  
 SC52856-13

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

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

56-23-5	Carbon Tetrachloride	< 100		ug/l	100	20	100	SW-846 8260C	08-Jan-19 04:23	08-Jan-19 04:24	10670	/190072A	
74-83-9	Bromomethane	< 100		ug/l	100	30	100	"	"	"	"	"	"
75-25-2	Bromoform	< 400		ug/l	400	20	100	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 25000		ug/l	25000	2900	100	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 500		ug/l	500	20	100	"	"	"	"	"	"
75-00-3	Chloroethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 100		ug/l	100	20	100	"	"	"	"	"	"
67-66-3	Chloroform	< 100		ug/l	100	20	100	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 100		ug/l	100	30	100	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 500		ug/l	500	20	100	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	230		ug/l	100	20	100	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 100		ug/l	100	30	100	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 500		ug/l	500	20	100	"	"	"	"	"	"
75-01-4	Vinyl Chloride	1,500		ug/l	100	20	100	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
79-01-6	Trichloroethene	82,000		ug/l	1000	200	1000	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 100		ug/l	100	20	100	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	52	J.	ug/l	100	20	100	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 100		ug/l	100	20	100	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 100		ug/l	100	30	100	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 100		ug/l	100	20	100	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	20,000		ug/l	100	20	100	"	"	"	"	"	"
74-87-3	Chloromethane	< 100		ug/l	100	20	100	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 100		ug/l	100	20	100	"	"	"	"	"	"

Surrogate recoveries:

17060-07-0	1,2-Dichloroethane-d4	103			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	93			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	96			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	105			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-B

SC52856-14

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

27-Dec-18 11:09

Received

28-Dec-18

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

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	SW-846 8260C	08-Jan-19 05:10	08-Jan-19 05:11	10670	/190072A	
156-59-2	cis-1,2-Dichloroethene	44		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	36		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	3		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	0.3	J.	ug/l	1	0.2	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	0.3	J.	ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	0.7	J.	ug/l	1	0.2	1	"	"	"	"	"	"
79-34-5	1,1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"

*Surrogate recoveries:*

460-00-4	4-Bromofluorobenzene	92			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	104			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	95			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-C  
SC52856-15

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
27-Dec-18 08:40

Received  
28-Dec-18

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

Subcontracted Analyses

Prepared by method SW3510C

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

11097-69-1	PCB-1254	< 0.048		ug/L	0.048	0.048	1	SW8082A	28-Dec-18	31-Dec-18 20:32	CT007	461572A	
12674-11-2	PCB-1016	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
37324-23-5	PCB-1262	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11104-28-2	PCB-1221	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11141-16-5	PCB-1232	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
12672-29-6	PCB-1248	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11096-82-5	PCB-1260	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
53469-21-9	PCB-1242	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11100-14-4	PCB-1268	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"

*Surrogate recoveries:*

2051-24-3	% DCBP	63			40-140 %			"	"	"	"	"	"
877-09-8	% TCMX	58			40-140 %			"	"	"	"	"	"

Subcontracted Analyses

Prepared by method SW3520C

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

50-32-8	Benzo(a)pyrene	< 3.3		ug/L	3.3	1.5	1	SW8270D	"	03-Jan-19 12:39	CT007	461615A	
86-74-8	Carbazole	< 4.7		ug/L	4.7	3.6	1	"	"	"	"	"	"
105-60-2	Caprolactam	< 4.7		ug/L	4.7	8.4	1	"	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	< 0.94		ug/L	0.94	0.94	1	"	"	"	"	"	"
39638-32-9	Bis(2-chloroisopropyl)ether	< 4.7		ug/L	4.7	1.3	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 4.7		ug/L	4.7	1.3	1	"	"	"	"	"	"
111-91-1	Bis(2-chloroethoxy)methane	< 4.7		ug/L	4.7	1.3	1	"	"	"	"	"	"
85-68-7	Benzyl butyl phthalate	< 4.7		ug/L	4.7	1.2	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
84-74-2	Di-n-butylphthalate	< 4.7		ug/L	4.7	1.3	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
117-84-0	Di-n-octylphthalate	< 4.7		ug/L	4.7	1.2	1	"	"	"	"	"	"
100-52-7	Benzaldehyde	< 4.7		ug/L	4.7	1.4	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
1912-24-9	Atrazine	< 0.94		ug/L	0.94	0.94	1	"	"	"	"	"	"
120-12-7	Anthracene	< 4.7		ug/L	4.7	1.5	1	"	"	"	"	"	"
98-86-2	Acetophenone	< 4.7		ug/L	4.7	1.5	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 3.3		ug/L	3.3	1.3	1	"	"	"	"	"	"
83-32-9	Acenaphthene	< 4.7		ug/L	4.7	1.4	1	"	"	"	"	"	"
100-02-7	4-Nitrophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
100-01-6	4-Nitroaniline	< 4.7		ug/L	4.7	1.6	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 4.7		ug/L	4.7	1.5	1	"	"	"	"	"	"
67-72-1	Hexachloroethane	< 0.94		ug/L	0.94	0.94	1	"	"	"	"	"	"
129-00-0	Pyrene	< 4.7		ug/L	4.7	1.6	1	"	"	"	"	"	"
108-95-2	Phenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
85-01-8	Phenanthrene	2.9	J	ug/L	3.3	1.3	1	"	"	"	"	"	"

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Sample Identification

MW-C  
SC52856-15

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
27-Dec-18 08:40

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

87-86-5	Pentachlorophenol	< 3.3		ug/L	3.3	1.8	1	SW8270D	28-Dec-18	03-Jan-19 12:39	CT007	461615A	
98-95-3	Nitrobenzene	< 4.7		ug/L	4.7	1.6	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 4.7		ug/L	4.7	1.4	1	"	"	"	"	"	"
86-30-6	N-Nitrosodiphenylamine	< 4.7		ug/L	4.7	1.8	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 3.3		ug/L	3.3	1.3	1	"	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	< 4.7		ug/L	4.7	1.5	1	"	"	"	"	"	"
218-01-9	Chrysene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 4.7		ug/L	4.7	1.4	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 3.3		ug/L	3.3	1.7	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	< 3.3		ug/L	3.3	1.4	1	"	"	"	"	"	"
86-73-7	Fluorene	1.8	J	ug/L	4.7	1.6	1	"	"	"	"	"	"
206-44-0	Fluoranthene	1.6	J	ug/L	4.7	1.5	1	"	"	"	"	"	"
131-11-3	Dimethylphthalate	< 4.7		ug/L	4.7	1.5	1	"	"	"	"	"	"
84-66-2	Diethyl phthalate	< 4.7		ug/L	4.7	1.5	1	"	"	"	"	"	"
132-64-9	Dibenzofuran	< 4.7		ug/L	4.7	1.4	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 3.3		ug/L	3.3	1.5	1	"	"	"	"	"	"
78-59-1	Isophorone	< 4.7		ug/L	4.7	1.3	1	"	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	< 4.7		ug/L	4.7	1.6	1	"	"	"	"	"	"
92-52-4	1,1-Biphenyl	< 3.3		ug/L	3.3	3.3	1	"	"	"	"	"	"
91-58-7	2-Chloronaphthalene	< 4.7		ug/L	4.7	1.3	1	"	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	< 4.7		ug/L	4.7	1.4	1	"	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	< 4.7		ug/L	4.7	5.1	1	"	"	"	"	"	"
99-09-2	3-Nitroaniline	< 4.7		ug/L	4.7	10	1	"	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	< 4.7		ug/L	4.7	2.2	1	"	"	"	"	"	"
	3&4-Methylphenol (m&p-cresol)	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
88-75-5	2-Nitrophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
88-74-4	2-Nitroaniline	< 4.7		ug/L	4.7	4.7	1	"	"	"	"	"	"
95-48-7	2-Methylphenol (o-cresol)	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
95-57-8	2-Chlorophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	< 4.7		ug/L	4.7	1.5	1	"	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	< 4.7		ug/L	4.7	1.9	1	"	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
58-90-2	2,3,4,6-tetrachlorophenol	< 4.7		ug/L	4.7	0.85	1	"	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3.3		ug/L	3.3	3.3	1	"	"	"	"	"	"
106-47-8	4-Chloroaniline	< 4.7		ug/L	4.7	2.2	1	"	"	"	"	"	"

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Sample Identification

MW-C Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 08:40 Received 28-Dec-18  
 SC52856-15

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

Subcontracted Analyses

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

91-57-6	2-Methylnaphthalene	< 4.7		ug/L	4.7	1.4	1	SW8270D	28-Dec-18	03-Jan-19 12:39	CT007	461615A	
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*Surrogate recoveries:*

4165-60-0	% Nitrobenzene-d5	46											
367-12-4	% 2-Fluorophenol	35											
321-60-8	% 2-Fluorobiphenyl	53											
118-79-6	% 2,4,6-Tribromophenol	BRL											
4165-62-2	% Phenol-d5	35											
98904-43-9	% Terphenyl-d14	57											

Subcontracted Analyses

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

87-86-5	Pentachlorophenol	< 0.47		ug/L	0.47	0.47	1	SW8270D (SIM)		03-Jan-19 04:28	CT007	461615B	
206-44-0	Fluoranthene	1.4		ug/L	0.47	0.47	1	"	"	"	"	"	"
86-73-7	Fluorene	1.9		ug/L	0.47	0.47	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	< 0.04		ug/L	0.04	0.04	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	0.14		ug/L	0.02	0.02	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 0.19		ug/L	0.19	0.19	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	< 0.38		ug/L	0.38	0.38	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
129-00-0	Pyrene	0.94		ug/L	0.47	0.47	1	"	"	"	"	"	"
85-01-8	Phenanthrene	2.8		ug/L	0.47	0.47	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
120-12-7	Anthracene	0.70		ug/L	0.47	0.47	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
218-01-9	Chrysene	0.30		ug/L	0.02	0.02	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	0.28		ug/L	0.02	0.02	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	0.18		ug/L	0.02	0.02	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	0.16		ug/L	0.02	0.02	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	0.16		ug/L	0.02	0.02	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
83-32-9	Acenaphthene	1.0		ug/L	0.47	0.47	1	"	"	"	"	"	"

*Surrogate recoveries:*

367-12-4	% 2-Fluorophenol	37											
118-79-6	% 2,4,6-Tribromophenol	82											
321-60-8	% 2-Fluorobiphenyl	58											
4165-60-0	% Nitrobenzene-d5	64											
98904-43-9	% Terphenyl-d14	57											
4165-62-2	% Phenol-d5	43											

**Subcontracted Analyses**

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Sample Identification

MW-C Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 08:40 Received 28-Dec-18  
 SC52856-15

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

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:00	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 17:42	10670	00314044	
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7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	"
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7440-39-3	Barium	0.312		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
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7439-92-1	Lead	0.0074	J.	mg/l	0.0150	0.0071	1	"	"	"	"	"	"
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7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
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Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:14	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	SW-846 8260C	08-Jan-19 22:07	08-Jan-19 22:08	10670	190082A	
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75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
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630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
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95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
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91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
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103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
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108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
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100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
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637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
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75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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Sample Identification

MW-C Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 08:40 Received 28-Dec-18  
 SC52856-15

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

Subcontracted Analyses

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	SW-846 8260C	08-Jan-19 22:07	08-Jan-19 22:08	10670	.190082A	
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	0.8	J.	ug/l	1	0.2	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-C

SC52856-15

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

27-Dec-18 08:40

Received

28-Dec-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>
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**Subcontracted Analyses**Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	SW-846 8260C	08-Jan-19 22:07	08-Jan-19 22:08	10670	.190082A	
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

Surrogate recoveries:

1868-53-7	Dibromofluoromethane	103			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	102			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"

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Sample Identification

**MW-D** Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 10:00 Received 28-Dec-18  
 SC52856-16

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

Subcontracted Analyses

Prepared by method SW3510C

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

53469-21-9	PCB-1242	< 0.048		ug/L	0.048	0.048	1	SW8082A	28-Dec-18	31-Dec-18 20:54	CT007	461572A	
11100-14-4	PCB-1268	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
37324-23-5	PCB-1262	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11096-82-5	PCB-1260	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11097-69-1	PCB-1254	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
12672-29-6	PCB-1248	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11141-16-5	PCB-1232	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
12674-11-2	PCB-1016	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"
11104-28-2	PCB-1221	< 0.048		ug/L	0.048	0.048	1	"	"	"	"	"	"

*Surrogate recoveries:*

877-09-8	% TCMX	59			40-140 %			"	"	"	"	"	"
2051-24-3	% DCBP	91			40-140 %			"	"	"	"	"	"

Subcontracted Analyses

Prepared by method SW3520C

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

50-32-8	Benzo(a)pyrene	< 3.3		ug/L	3.3	1.5	1	SW8270D	"	03-Jan-19 13:04	CT007	461615A	
98-86-2	Acetophenone	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
39638-32-9	Bis(2-chloroisopropyl)ether	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
131-11-3	Dimethylphthalate	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
84-66-2	Diethyl phthalate	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
132-64-9	Dibenzofuran	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 3.3		ug/L	3.3	1.5	1	"	"	"	"	"	"
117-84-0	Di-n-octylphthalate	< 4.8		ug/L	4.8	1.2	1	"	"	"	"	"	"
84-74-2	Di-n-butylphthalate	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
218-01-9	Chrysene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
86-74-8	Carbazole	< 4.8		ug/L	4.8	3.6	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	< 0.95		ug/L	0.95	0.95	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 3.3		ug/L	3.3	1.7	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
111-91-1	Bis(2-chloroethoxy)methane	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
85-68-7	Benzyl butyl phthalate	< 4.8		ug/L	4.8	1.2	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
100-52-7	Benzaldehyde	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
1912-24-9	Atrazine	< 0.95		ug/L	0.95	0.95	1	"	"	"	"	"	"
120-12-7	Anthracene	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
105-60-2	Caprolactam	< 4.8		ug/L	4.8	8.5	1	"	"	"	"	"	"
87-86-5	Pentachlorophenol	< 3.3		ug/L	3.3	1.8	1	"	"	"	"	"	"

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Sample Identification

MW-D

SC52856-16

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

27-Dec-18 10:00

Received

28-Dec-18

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

Subcontracted Analyses

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

129-00-0	Pyrene	< 4.8		ug/L	4.8	1.6	1	SW8270D	28-Dec-18	03-Jan-19 13:04	CT007	461615A	
86-73-7	Fluorene	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
85-01-8	Phenanthrene	< 3.3		ug/L	3.3	1.4	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	< 3.3		ug/L	3.3	1.4	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	< 4.8		ug/L	4.8	1.7	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
86-30-6	N-Nitrosodiphenylamine	< 4.8		ug/L	4.8	1.8	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 3.3		ug/L	3.3	1.3	1	"	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
78-59-1	Isophorone	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
67-72-1	Hexachloroethane	< 0.95		ug/L	0.95	0.95	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
108-95-2	Phenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	< 4.8		ug/L	4.8	1.9	1	"	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
92-52-4	1,1-Biphenyl	< 3.3		ug/L	3.3	3.3	1	"	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3.3		ug/L	3.3	3.3	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 3.3		ug/L	3.3	1.3	1	"	"	"	"	"	"
58-90-2	2,3,4,6-tetrachlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
83-32-9	Acenaphthene	1.5	J	ug/L	4.8	1.4	1	"	"	"	"	"	"
91-58-7	2-Chloronaphthalene	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
100-01-6	4-Nitroaniline	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
100-02-7	4-Nitrophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	< 4.8		ug/L	4.8	5.1	1	"	"	"	"	"	"
88-74-4	2-Nitroaniline	< 4.8		ug/L	4.8	4.8	1	"	"	"	"	"	"
95-57-8	2-Chlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
106-47-8	4-Chloroaniline	< 4.8		ug/L	4.8	2.2	1	"	"	"	"	"	"
95-48-7	2-Methylphenol (o-cresol)	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
99-09-2	3-Nitroaniline	< 4.8		ug/L	4.8	10	1	"	"	"	"	"	"
88-75-5	2-Nitrophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
	3&4-Methylphenol (m&p-cresol)	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"

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Sample Identification

MW-D

SC52856-16

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

27-Dec-18 10:00

Received

28-Dec-18

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

Subcontracted Analyses

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

91-94-1	3,3'-Dichlorobenzidine	< 4.8		ug/L	4.8	2.2	1	SW8270D	28-Dec-18	03-Jan-19 13:04	CT007	461615A	
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Surrogate recoveries:

4165-62-2	% Phenol-d5	31			15-110 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	67			30-130 %			"	"	"	"	"	"
367-12-4	% 2-Fluorophenol	48			15-110 %			"	"	"	"	"	"
321-60-8	% 2-Fluorobiphenyl	73			30-130 %			"	"	"	"	"	"
118-79-6	% 2,4,6-Tribromophenol	110			15-110 %			"	"	"	"	"	"
98904-43-9	% Terphenyl-d14	78			30-130 %			"	"	"	"	"	"

Subcontracted Analyses

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

85-01-8	Phenanthrene	<b>0.80</b>		ug/L	0.48	0.48	1	SW8270D (SIM)	"	03-Jan-19 04:51	CT007	461615B	
87-86-5	Pentachlorophenol	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
83-32-9	Acenaphthene	<b>1.3</b>		ug/L	0.48	0.48	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
120-12-7	Anthracene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
129-00-0	Pyrene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
218-01-9	Chrysene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
86-73-7	Fluorene	<b>0.76</b>		ug/L	0.48	0.48	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	< 0.04		ug/L	0.04	0.04	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 0.19		ug/L	0.19	0.19	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	< 0.38		ug/L	0.38	0.38	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"

Surrogate recoveries:

118-79-6	% 2,4,6-Tribromophenol	93			15-110 %			"	"	"	"	"	"
321-60-8	% 2-Fluorobiphenyl	62			30-130 %			"	"	"	"	"	"
367-12-4	% 2-Fluorophenol	46			15-110 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	77			30-130 %			"	"	"	"	"	"
4165-62-2	% Phenol-d5	43			15-110 %			"	"	"	"	"	"
98904-43-9	% Terphenyl-d14	72			30-130 %			"	"	"	"	"	"

**Subcontracted Analyses**

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

Sample Identification

**MW-D** Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 10:00 Received 28-Dec-18  
 SC52856-16

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

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:02	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-38-2	Arsenic	<b>0.134</b>		mg/l	0.0500	0.0160	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 17:45	10670	00314044	
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7440-39-3	Barium	<b>0.217</b>		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
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7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"
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7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
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7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	"	"	"	"	"	"
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7440-43-9	Cadmium	<b>0.0013</b>	J.	mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:16	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	07-Jan-19 13:22	07-Jan-19 13:23	10670	190071A	
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79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
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630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
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99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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	Unknown aromatic	<b>9</b>	J.	ug/l			1	"	"	"	"	"	"
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	Total VOC TICs	<b>160</b>	J.	ug/l			1	"	"	"	"	"	"
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100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
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75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
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98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
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127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
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75-01-4	Vinyl Chloride	<b>6</b>		ug/l	1	0.2	1	"	"	"	"	"	"
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	Unknown aromatic1	<b>17</b>	J.	ug/l			1	"	"	"	"	"	"
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156-60-5	trans-1,2-Dichloroethene	<b>0.3</b>	J.	ug/l	1	0.2	1	"	"	"	"	"	"
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10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
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79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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	Unknown	<b>11</b>	J.	ug/l			1	"	"	"	"	"	"
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108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
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Sample Identification

MW-D

SC52856-16

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

27-Dec-18 10:00

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	SW-846 8260C	07-Jan-19 13:22	07-Jan-19 13:23	10670	.190071A	
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
20836-11-7	2,2-Dimethylindene, 2,3-dihy	7	J.	ug/l			1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
934-10-1	3-Phenylbut-1-ene	10	J.	ug/l			1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	2	J.	ug/l	5	0.2	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
71-43-2	Benzene	0.7	J.	ug/l	1	0.2	1	"	"	"	"	"	"
95-93-2	Benzene, 1,2,4,5-tetramethyl	21	J.	ug/l			1	"	"	"	"	"	"
700-12-9	Benzene, pentamethyl-	6	J.	ug/l			1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	8	J.	ug/l			1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	12	J.	ug/l			1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	0.3	J.	ug/l	5	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	1	J.	ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-D

SC52856-16

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

27-Dec-18 10:00

Received

28-Dec-18

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	SW-846 8260C	07-Jan-19 13:22	07-Jan-19 13:23	10670	.190071A	
108-87-2	Methylcyclohexane	4	J.	ug/l	5	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	0.9	J.	ug/l	5	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
21564-91-0	Naphthalene, 1,2,3,4-tetr	5	J.	ug/l			1	"	"	"	"	"	"
4175-54-6	Naphthalene, 1,2,3,4-tetra	8	J.	ug/l			1	"	"	"	"	"	"
2809-64-5	Naphthalene, 1,2,3,4-tetra	16	J.	ug/l			1	"	"	"	"	"	"
1559-81-5	Naphthalene, 1,2,3,4-tetrahy	15	J.	ug/l			1	"	"	"	"	"	"
3877-19-8	Naphthalene, 1,2,3,4-tetrahy1	9	J.	ug/l			1	"	"	"	"	"	"
90-12-0	Naphthalene, 1-methyl-	11	J.	ug/l			1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
110-82-7	Cyclohexane	3	J.	ug/l	5	0.2	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	0.8	J.	ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

*Surrogate recoveries:*

2037-26-5	Toluene-d8	100			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	98			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	103			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-E Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 08:56 Received 28-Dec-18  
 SC52856-17

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

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

71-55-6	1,1,1-Trichloroethane	< 1000		ug/l	1000	300	1000	SW-846 8260C	09-Jan-19 04:41	09-Jan-19 04:42	10670	.190082A/	
79-34-5	1,1,2,2-Tetrachloroethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1000		ug/l	1000	300	1000	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5000		ug/l	5000	200	1000	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5000		ug/l	5000	200	1000	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250000		ug/l	250000	29000	1000	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
75-25-2	Bromoform	< 4000		ug/l	4000	200	1000	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5000		ug/l	5000	200	1000	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
74-83-9	Bromomethane	< 1000		ug/l	1000	300	1000	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1000		ug/l	1000	300	1000	"	"	"	"	"	"
75-00-3	Chloroethane	340	J.	ug/l	1000	200	1000	"	"	"	"	"	"
67-66-3	Chloroform	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
74-87-3	Chloromethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	32,000		ug/l	1000	200	1000	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
79-01-6	Trichloroethene	780,000		ug/l	5000	1000	5000	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1000		ug/l	1000	200	1000	"	"	"	"	"	"
75-01-4	Vinyl Chloride	1,100		ug/l	1000	200	1000	"	"	"	"	"	"

*Surrogate recoveries:*

17060-07-0	1,2-Dichloroethane-d4	100			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	101			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	101			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	99			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-F

SC52856-18

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

27-Dec-18 10:30

Received

28-Dec-18

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

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

67-66-3	Chloroform	< 500		ug/l	500	100	500	SW-846 8260C	09-Jan-19 05:03	09-Jan-19 05:04	10670	.190082A/	
123-91-1	1,4-Dioxane	< 130000		ug/l	130000	15000	500	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	500	J.	ug/l	500	100	500	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 2500		ug/l	2500	100	500	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 500		ug/l	500	150	500	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 500		ug/l	500	100	500	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 2500		ug/l	2500	100	500	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 500		ug/l	500	150	500	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
75-25-2	Bromoform	< 2000		ug/l	2000	100	500	"	"	"	"	"	"
74-83-9	Bromomethane	< 500		ug/l	500	150	500	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 500		ug/l	500	100	500	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 500		ug/l	500	100	500	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 2500		ug/l	2500	100	500	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
74-87-3	Chloromethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
75-00-3	Chloroethane	150	J.	ug/l	500	100	500	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 500		ug/l	500	100	500	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	140,000		ug/l	500	100	500	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 500		ug/l	500	100	500	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 500		ug/l	500	150	500	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 500		ug/l	500	100	500	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	240	J.	ug/l	500	100	500	"	"	"	"	"	"
79-01-6	Trichloroethene	230,000		ug/l	2000	400	2000	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 500		ug/l	500	100	500	"	"	"	"	"	"
75-01-4	Vinyl Chloride	6,200		ug/l	500	100	500	"	"	"	"	"	"

*Surrogate recoveries:*

17060-07-0	1,2-Dichloroethane-d4	102			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	100			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	100			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	100			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-G Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 08:17 Received 28-Dec-18  
 SC52856-19

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

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-25-2	Bromoform	< 4		ug/l	4	0.2	1	SW-846 8260C	07-Jan-19 16:37	07-Jan-19 16:38	10670	.190071A/	
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	2		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	3		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

*Surrogate recoveries:*

17060-07-0	1,2-Dichloroethane-d4	100			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	103			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-H Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 07:25 Received 28-Dec-18  
 SC52856-20

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

Subcontracted Analyses

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 17:49	10670	00314044	
7440-39-3	Barium	<b>0.549</b>		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"
7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	"	"	"	"	"	"
7440-38-2	Arsenic	<b>0.0180</b>	J.	mg/l	0.0500	0.0160	1	"	"	"	"	"	"

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:18	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	SW-846 8260C	07-Jan-19 17:21	07-Jan-19 17:22	10670	.190071A	
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	<b>0.5</b>	J.	ug/l	1	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	<b>0.8</b>	J.	ug/l	1	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

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Sample Identification

<b>MW-H</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52856-20	5529S-18	Ground Water	27-Dec-18 07:25	28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	SW-846 8260C	07-Jan-19 17:21	07-Jan-19 17:22	10670	.190071A	
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*Surrogate recoveries:*

2037-26-5	Toluene-d8	99							"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102							"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	102							"	"	"	"	"
1868-53-7	Dibromofluoromethane	104							"	"	"	"	"

Sample Identification

MW-I Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 11:25 Received 28-Dec-18  
 SC52856-21

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

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

156-59-2	cis-1,2-Dichloroethene	8		ug/l	1	0.2	1	SW-846 8260C	07-Jan-19 13:44	07-Jan-19 13:45	10670	.190071A/	
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	61		ug/l	1	0.2	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	0.8	J.	ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

Surrogate recoveries:

1868-53-7	Dibromofluoromethane	104			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	101			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	104			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-J Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 13:44 Received 28-Dec-18  
 SC52856-22

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

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	SW-846 8260C	03-Jan-19 12:55	03-Jan-19 12:56	10670	.190031A/	
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	3		ug/l	1	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	0.5	J.	ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	0.6	J.	ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

*Surrogate recoveries:*

1868-53-7	Dibromofluoromethane	100			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	100			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	101			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	101			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-K  
SC52856-23

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
27-Dec-18 11:20

Received  
28-Dec-18

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

Subcontracted Analyses

Prepared by method SW3520C

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

88-74-4	2-Nitroaniline	< 4.8		ug/L	4.8	4.8	1	SW8270D	28-Dec-18	03-Jan-19 13:28	CT007	461615A	
84-66-2	Diethyl phthalate	2.2	J	ug/L	4.8	1.5	1	"	"	"	"	"	"
100-01-6	4-Nitroaniline	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
106-47-8	4-Chloroaniline	< 4.8		ug/L	4.8	2.2	1	"	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	< 4.8		ug/L	4.8	5.1	1	"	"	"	"	"	"
99-09-2	3-Nitroaniline	< 4.8		ug/L	4.8	10	1	"	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	< 4.8		ug/L	4.8	2.2	1	"	"	"	"	"	"
83-32-9	Acenaphthene	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
88-75-5	2-Nitrophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 3.3		ug/L	3.3	1.3	1	"	"	"	"	"	"
95-48-7	2-Methylphenol (o-cresol)	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
95-57-8	2-Chlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
91-58-7	2-Chloronaphthalene	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	< 4.8		ug/L	4.8	1.9	1	"	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
	3&4-Methylphenol (m&p-cresol)	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
85-68-7	Benzyl butyl phthalate	< 4.8		ug/L	4.8	1.2	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 3.3		ug/L	3.3	1.5	1	"	"	"	"	"	"
117-84-0	Di-n-octylphthalate	< 4.8		ug/L	4.8	1.2	1	"	"	"	"	"	"
84-74-2	Di-n-butylphthalate	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
218-01-9	Chrysene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
86-74-8	Carbazole	< 4.8		ug/L	4.8	3.6	1	"	"	"	"	"	"
105-60-2	Caprolactam	< 4.8		ug/L	4.8	8.5	1	"	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	< 0.95		ug/L	0.95	0.95	1	"	"	"	"	"	"
39638-32-9	Bis(2-chloroisopropyl)ether	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
100-02-7	4-Nitrophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
111-91-1	Bis(2-chloroethoxy)methane	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3.3		ug/L	3.3	3.3	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	< 3.3		ug/L	3.3	1.5	1	"	"	"	"	"	"

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Sample Identification

MW-K Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 11:20 Received 28-Dec-18  
 SC52856-23

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

Subcontracted Analyses

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

100-52-7	Benzaldehyde	< 4.8		ug/L	4.8	1.4	1	SW8270D	28-Dec-18	03-Jan-19 13:28	CT007	461615A	
56-55-3	Benz(a)anthracene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
1912-24-9	Atrazine	< 0.95		ug/L	0.95	0.95	1	"	"	"	"	"	"
120-12-7	Anthracene	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
98-86-2	Acetophenone	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
131-11-3	Dimethylphthalate	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
92-52-4	1,1-Biphenyl	< 3.3		ug/L	3.3	3.3	1	"	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
132-64-9	Dibenzofuran	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 3.3		ug/L	3.3	1.3	1	"	"	"	"	"	"
129-00-0	Pyrene	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
108-95-2	Phenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
85-01-8	Phenanthrene	< 3.3		ug/L	3.3	1.4	1	"	"	"	"	"	"
87-86-5	Pentachlorophenol	< 3.3		ug/L	3.3	1.8	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	< 4.8		ug/L	4.8	1.7	1	"	"	"	"	"	"
86-30-6	N-Nitrosodiphenylamine	< 4.8		ug/L	4.8	1.8	1	"	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
78-59-1	Isophorone	< 4.8		ug/L	4.8	1.3	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 3.3		ug/L	3.3	1.6	1	"	"	"	"	"	"
67-72-1	Hexachloroethane	< 0.95		ug/L	0.95	0.95	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 3.3		ug/L	3.3	1.7	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	< 3.3		ug/L	3.3	1.4	1	"	"	"	"	"	"
86-73-7	Fluorene	< 4.8		ug/L	4.8	1.6	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 4.8		ug/L	4.8	1.5	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 4.8		ug/L	4.8	1.4	1	"	"	"	"	"	"
58-90-2	2,3,4,6-tetrachlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	< 4.8		ug/L	4.8	0.86	1	"	"	"	"	"	"

Surrogate recoveries:

98904-43-9	% Terphenyl-d14	87			30-130 %			"	"	"	"	"	"
4165-62-2	% Phenol-d5	11			15-110 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	46			30-130 %			"	"	"	"	"	"
367-12-4	% 2-Fluorophenol	28			15-110 %			"	"	"	"	"	"
321-60-8	% 2-Fluorobiphenyl	67			30-130 %			"	"	"	"	"	"
118-79-6	% 2,4,6-Tribromophenol	112			15-110 %			"	"	"	"	"	"

Subcontracted Analyses

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

91-20-3	Naphthalene	< 0.48		ug/L	0.48	0.48	1	SW8270D (SIM)	"	03-Jan-19 03:42	CT007	461615B	
191-24-2	Benzo(ghi)perylene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
85-01-8	Phenanthrene	0.58		ug/L	0.48	0.48	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"

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Sample Identification

MW-K Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 11:20 Received 28-Dec-18  
 SC52856-23

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

Subcontracted Analyses

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

83-32-9	Acenaphthene	1.0		ug/L	0.48	0.48	1	SW8270D (SIM)	28-Dec-18	03-Jan-19 03:42	CT007	461615B	
208-96-8	Acenaphthylene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
120-12-7	Anthracene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
111-44-4	Bis(2-chloroethyl)ether	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
218-01-9	Chrysene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
86-73-7	Fluorene	0.82		ug/L	0.48	0.48	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	< 0.04		ug/L	0.04	0.04	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	< 0.19		ug/L	0.19	0.19	1	"	"	"	"	"	"
87-86-5	Pentachlorophenol	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
129-00-0	Pyrene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	< 0.38		ug/L	0.38	0.38	1	"	"	"	"	"	"

Surrogate recoveries:

118-79-6	% 2,4,6-Tribromophenol	91			15-110 %			"	"	"	"	"	"
321-60-8	% 2-Fluorobiphenyl	71			30-130 %			"	"	"	"	"	"
367-12-4	% 2-Fluorophenol	28			15-110 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	49			30-130 %			"	"	"	"	"	"
4165-62-2	% Phenol-d5	14			15-110 %			"	"	"	"	"	"
98904-43-9	% Terphenyl-d14	80			30-130 %			"	"	"	"	"	"

**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846 3005A

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 17:58	10670	00314044	
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	"
7440-39-3	Barium	0.151		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"

Prepared by method METHOD

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:20	10670	00305713	
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Subcontracted Analyses

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Sample Identification

MW-K Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 27-Dec-18 11:20 Received 28-Dec-18  
 SC52856-23

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

**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	SW-846 8260C	07-Jan-19 14:05	07-Jan-19 14:06	10670	.190071A/
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	0.2	J.	ug/l	5	0.2	1	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"
4175-54-6	Naphthalene, 1,2,3,4-tetra	7	J.	ug/l			1	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"
79-01-6	Trichloroethene	0.4	J.	ug/l	1	0.2	1	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"
	Unknown aromatic1	7	J.	ug/l			1	"	"	"	"	"
	Unknown aromatic	9	J.	ug/l			1	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"
	Total VOC TICs	56	J.	ug/l			1	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"

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Sample Identification

MW-K  
SC52856-23

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
27-Dec-18 11:20

Received  
28-Dec-18

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	SW-846 8260C	07-Jan-19 14:05	07-Jan-19 14:06	10670	.190071A	
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
2613-76-5	1H-Indene, 2,3-dihydro-1,1,3	9	J.	ug/l			1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
17059-48-2	1H-Indene, 2,3-dihydro-1,6-d	9	J.	ug/l			1	"	"	"	"	"	"
6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	5	J.	ug/l			1	"	"	"	"	"	"
1075-22-5	1H-Indene, 2,3-dihydro-5,6-d	10	J.	ug/l			1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	0.2	J.	ug/l	1	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-K  
SC52856-23

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
27-Dec-18 11:20

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	SW-846 8260C	07-Jan-19 14:05	07-Jan-19 14:06	10670	.190071A	
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

*Surrogate recoveries:*

2037-26-5	Toluene-d8	98				80-120 %		"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102				80-120 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	100				80-120 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	102				80-120 %		"	"	"	"	"	"

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Sample Identification

MW-L Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 17:10 Received 28-Dec-18  
 SC52856-24

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

Subcontracted Analyses

Prepared by method SW3520C

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

208-96-8	Acenaphthylene	< 0.47		ug/L	0.47	0.47	1	SW8270D MOD(SIM)	28-Dec-18	31-Dec-18 17:34	CT007	461581A	
206-44-0	Fluoranthene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
83-32-9	Acenaphthene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
120-12-7	Anthracene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
218-01-9	Chrysene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
129-00-0	Pyrene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
85-01-8	Phenanthrene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
86-73-7	Fluorene	< 0.47		ug/L	0.47	0.47	1	"	"	"	"	"	"

*Surrogate recoveries:*

98904-43-9	% Terphenyl-d14	45			30-130 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	95			30-130 %			"	"	"	"	"	"
321-60-8	% 2-Fluorobiphenyl	69			30-130 %			"	"	"	"	"	"

**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846 5030C

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	SW-846 8260C	08-Jan-19 22:30	08-Jan-19 22:31	10670	.190082A	
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	0.4	J.	ug/l	1	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-L  
SC52856-24

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 17:10

Received  
28-Dec-18

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	SW-846 8260C	08-Jan-19 22:30	08-Jan-19 22:31	10670	.190082A	
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
67-64-1	Acetone	1	J.	ug/l	20	0.7	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	0.3	J.	ug/l	1	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"

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

Sample Identification

MW-L

SC52856-24

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 17:10

Received

28-Dec-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>
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**Subcontracted Analyses**Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	SW-846 8260C	08-Jan-19 22:30	08-Jan-19 22:31	10670	.190082A	
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-01-6	Trichloroethene	0.7	J.	ug/l	1	0.2	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

Surrogate recoveries:

1868-53-7	Dibromofluoromethane	102			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	102			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	101			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-N Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 16:22 Received 28-Dec-18  
 SC52856-25

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

**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW3520C

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

50-32-8	Benzo(a)pyrene	< 0.02		ug/L	0.02	0.02	1	SW8270D MOD(SIM)	28-Dec-18	31-Dec-18 18:20	CT007	461581A	
205-99-2	Benzo(b)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
218-01-9	Chrysene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
86-73-7	Fluorene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
85-01-8	Phenanthrene	0.58		ug/L	0.49	0.49	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
129-00-0	Pyrene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
83-32-9	Acenaphthene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"
120-12-7	Anthracene	< 0.49		ug/L	0.49	0.49	1	"	"	"	"	"	"

*Surrogate recoveries:*

98904-43-9	% Terphenyl-d14	56			30-130 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	78			30-130 %			"	"	"	"	"	"
321-60-8	% 2-Fluorobiphenyl	62			30-130 %			"	"	"	"	"	"

**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	SW-846 8260C	08-Jan-19 22:51	08-Jan-19 22:52	10670	.190082A	
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-N Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 16:22 Received 28-Dec-18  
 SC52856-25

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-25-2	Bromoform	< 4		ug/l	4	0.2	1	SW-846 8260C	08-Jan-19 22:51	08-Jan-19 22:52	10670	.190082A	
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	< 50		ug/l	50	6	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-N

SC52856-25

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 16:22

Received

28-Dec-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>
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**Subcontracted Analyses**Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

64-17-5	Ethanol	< 750		ug/l	750	280	1	SW-846 8260C	08-Jan-19 22:51	08-Jan-19 22:52	10670	.190082A	
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"

Surrogate recoveries:

17060-07-0	1,2-Dichloroethane-d4	101			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	103			80-120 %			"	"	"	"	"	"

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Sample Identification

**MW-O** Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 10:01 Received 28-Dec-18  
 SC52856-26

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

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:03	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 18:01	10670	00314044	
7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
7440-39-3	Barium	0.274		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	"

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:22	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	SW-846 8260C	08-Jan-19 23:13	08-Jan-19 23:14	10670	190082A	
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	0.2	J.	ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"

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Sample Identification

MW-O  
SC52856-26

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 10:01

Received  
28-Dec-18

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	SW-846 8260C	08-Jan-19 23:13	08-Jan-19 23:14	10670	.190082A	
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-O

SC52856-26

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 10:01

Received

28-Dec-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>
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**Subcontracted Analyses**Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	08-Jan-19 23:13	08-Jan-19 23:14	10670	.190082A	
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	104			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	102			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-P Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 11:06 Received 28-Dec-18  
 SC52856-27

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

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:04	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 18:04	10670	00314044	
7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
7440-39-3	Barium	0.157		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
7440-38-2	Arsenic	0.0225	J.	mg/l	0.0500	0.0160	1	"	"	"	"	"	"
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:29	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	SW-846 8260C	08-Jan-19 23:35	08-Jan-19 23:36	10670	190082A	
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-P  
SC52856-27

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 11:06

Received  
28-Dec-18

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

156-59-2	cis-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	SW-846 8260C	08-Jan-19 23:35	08-Jan-19 23:36	10670	.190082A	
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-64-1	Acetone	1	J.	ug/l	20	0.7	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-P

SC52856-27

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 11:06

Received

28-Dec-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>
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**Subcontracted Analyses**Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	SW-846 8260C	08-Jan-19 23:35	08-Jan-19 23:36	10670	.190082A	
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"

*Surrogate recoveries:*

17060-07-0	1,2-Dichloroethane-d4	103			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	103			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	98			80-120 %			"	"	"	"	"	"

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Sample Identification

**MW-Q** Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 11:05 Received 28-Dec-18  
 SC52856-28

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

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:06	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-38-2	Arsenic	<b>0.0721</b>		mg/l	0.0500	0.0160	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 18:07	10670	00314044	
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7440-39-3	Barium	<b>0.309</b>		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
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7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"
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7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
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7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	"	"	"	"	"	"
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Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:31	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	SW-846 8260C	09-Jan-19 04:19	09-Jan-19 04:20	10670	190082A	
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110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
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95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
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99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
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75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
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127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
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108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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	Total VOC TICs	<b>0</b>		ug/l			1	"	"	"	"	"	"
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156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
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100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
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124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
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103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
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Sample Identification

MW-Q

SC52856-28

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 11:05

Received

28-Dec-18

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	SW-846 8260C	09-Jan-19 04:19	09-Jan-19 04:20	10670	.190082A	
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	< 50		ug/l	50	6	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	0.2	J.	ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"

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Sample Identification

MW-Q

SC52856-28

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 11:05

Received

28-Dec-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>
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**Subcontracted Analyses**Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	SW-846 8260C	09-Jan-19 04:19	09-Jan-19 04:20	10670	.190082A	
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

*Surrogate recoveries:*

2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	99			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	101			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	100			80-120 %			"	"	"	"	"	"

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Sample Identification

MW-R Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 12:35 Received 28-Dec-18  
 SC52856-29

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

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:07	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 18:11	10670	00314044	
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7440-39-3	Barium	<b>0.268</b>		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
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7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"
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7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
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7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	"	"	"	"	"	"
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Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:33	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

108-86-1	Bromobenzene	< 25		ug/l	25	1	5	SW-846 8260C	08-Jan-19 23:57	08-Jan-19 23:58	10670	190082A	
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79-20-9	Methyl Acetate	< 25		ug/l	25	1	5	"	"	"	"	"	"
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60-29-7	Ethyl ether	< 25		ug/l	25	1	5	"	"	"	"	"	"
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637-92-3	Ethyl t-butyl ether	< 5		ug/l	5	1	5	"	"	"	"	"	"
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100-41-4	Ethylbenzene	< 5		ug/l	5	2	5	"	"	"	"	"	"
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76-13-1	Freon 113	< 50		ug/l	50	1	5	"	"	"	"	"	"
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87-68-3	Hexachlorobutadiene	< 25		ug/l	25	4	5	"	"	"	"	"	"
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75-71-8	Dichlorodifluoromethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
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179601-23-1	m+p-Xylene	< 25		ug/l	25	5	5	"	"	"	"	"	"
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74-95-3	Dibromomethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
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1634-04-4	Methyl Tertiary Butyl Ether	< 5		ug/l	5	1	5	"	"	"	"	"	"
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108-87-2	Methylcyclohexane	<b>1</b>	J.	ug/l	25	1	5	"	"	"	"	"	"
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75-09-2	Methylene Chloride	< 5		ug/l	5	2	5	"	"	"	"	"	"
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104-51-8	n-Butylbenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
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103-65-1	n-Propylbenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
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91-20-3	Naphthalene	< 25		ug/l	25	5	5	"	"	"	"	"	"
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95-47-6	o-Xylene	< 5		ug/l	5	2	5	"	"	"	"	"	"
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98-82-8	Isopropylbenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
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67-66-3	Chloroform	< 5		ug/l	5	1	5	"	"	"	"	"	"
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75-27-4	Bromodichloromethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
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75-25-2	Bromoform	< 20		ug/l	20	1	5	"	"	"	"	"	"
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74-83-9	Bromomethane	< 5		ug/l	5	2	5	"	"	"	"	"	"
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75-15-0	Carbon Disulfide	< 25		ug/l	25	1	5	"	"	"	"	"	"
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56-23-5	Carbon Tetrachloride	< 5		ug/l	5	1	5	"	"	"	"	"	"
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64-17-5	Ethanol	< 3800		ug/l	3800	1400	5	"	"	"	"	"	"
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75-00-3	Chloroethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
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Sample Identification

MW-R

SC52856-29

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 12:35

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

100-42-5	Styrene	< 25		ug/l	25	1	5	SW-846 8260C	08-Jan-19 23:57	08-Jan-19 23:58	10670	.190082A	
74-87-3	Chloromethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	<b>3,500</b>		ug/l	50	10	50	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 5		ug/l	5	1	5	"	"	"	"	"	"
110-82-7	Cyclohexane	< 25		ug/l	25	1	5	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 5		ug/l	5	1	5	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 5		ug/l	5	1	5	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 25		ug/l	25	1	5	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	<b>12</b>		ug/l	5	1	5	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 25		ug/l	25	4	5	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 250		ug/l	250	60	5	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 25		ug/l	25	2	5	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 5		ug/l	5	1	5	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 50		ug/l	50	4	5	"	"	"	"	"	"
108-88-3	Toluene	< 5		ug/l	5	1	5	"	"	"	"	"	"
	Total VOC TICs	<b>0</b>		ug/l			5	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 5		ug/l	5	1	5	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	< 250		ug/l	250	30	5	"	"	"	"	"	"
79-01-6	Trichloroethene	<b>1,100</b>		ug/l	5	1	5	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
75-01-4	Vinyl Chloride	<b>840</b>		ug/l	5	1	5	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 25		ug/l	25	5	5	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
71-43-2	Benzene	< 5		ug/l	5	1	5	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 25		ug/l	25	1	5	"	"	"	"	"	"
78-93-3	2-Butanone	< 50		ug/l	50	2	5	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 5		ug/l	5	1	5	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 25		ug/l	25	2	5	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 5		ug/l	5	1	5	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 5		ug/l	5	2	5	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 25		ug/l	25	1	5	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 25		ug/l	25	1	5	"	"	"	"	"	"
591-78-6	2-Hexanone	< 50		ug/l	50	2	5	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 25		ug/l	25	1	5	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 50		ug/l	50	3	5	"	"	"	"	"	"
67-64-1	Acetone	< 100		ug/l	100	4	5	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 100		ug/l	100	2	5	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 1300		ug/l	1300	150	5	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 25		ug/l	25	1	5	"	"	"	"	"	"

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Sample Identification

MW-R Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 12:35 Received 28-Dec-18  
 SC52856-29

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

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

630-20-6	1,1,1,2-Tetrachloroethane	< 5		ug/l	5	1	5	SW-846 8260C	08-Jan-19 23:57	08-Jan-19 23:58	10670	.190082A	
71-55-6	1,1,1-Trichloroethane	< 5		ug/l	5	2	5	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	2	J.	ug/l	5	1	5	"	"	"	"	"	"
75-35-4	1,1-Dichloroethane	38		ug/l	5	1	5	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 5		ug/l	5	2	5	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 25		ug/l	25	2	5	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 25		ug/l	25	1	5	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 25		ug/l	25	2	5	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 25		ug/l	25	5	5	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 25		ug/l	25	2	5	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 5		ug/l	5	1	5	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 5		ug/l	5	1	5	"	"	"	"	"	"

*Surrogate recoveries:*

1868-53-7	Dibromofluoromethane	105			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	104			80-120 %			"	"	"	"	"	"

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Sample Identification

<b>MW-S</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52856-30	5529S-18	Ground Water	26-Dec-18 12:31	28-Dec-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>
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**Subcontracted Analyses**

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:08	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 18:14	10670	00314044	
7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	"
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	"
7440-39-3	Barium	<b>0.142</b>		mg/l	0.0050	0.0010	1	"	"	"	"	"	"

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:35	10670	00305713	
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Sample Identification

MW-T Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 26-Dec-18 14:15 Received 28-Dec-18  
 SC52856-31

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

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	EPA 335.4	07-Jan-19 06:30	07-Jan-19 13:12	10670	00710210	
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**Subcontracted Analyses**

Prepared by method SW-846 3005A

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-38-2	Arsenic	<b>0.0371</b>	J.	mg/l	0.0500	0.0160	1	SW-846 6010C	07-Jan-19 05:50	08-Jan-19 18:17	10670	00314044	
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7440-39-3	Barium	<b>0.256</b>		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7439-92-1	Lead	<b>0.0092</b>	J.	mg/l	0.0150	0.0071	1	"	"	"	"	"	"
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7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	"
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7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0050	1	"	"	"	"	"	"
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7782-49-2	Selenium	< 0.0500		mg/l	0.0500	0.0210	1	"	"	"	"	"	"
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7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	"
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Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	07-Jan-19 06:30	07-Jan-19 11:37	10670	00305713	
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**Subcontracted Analyses**

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	SW-846 8260C	09-Jan-19 00:41	09-Jan-19 00:42	10670	190082A	
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100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
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108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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156-59-2	cis-1,2-Dichloroethene	<b>0.4</b>	J.	ug/l	1	0.2	1	"	"	"	"	"	"
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75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
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124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
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60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
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106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
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594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
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78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
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95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
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56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
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106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
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76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
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Sample Identification

MW-T  
SC52856-31

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 14:15

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

67-64-1	Acetone	2	J.	ug/l	20	0.7	1	SW-846 8260C	09-Jan-19 00:41	09-Jan-19 00:42	10670	.190082A	
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	0.3	J.	ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloroprop ane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

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Sample Identification

MW-T

SC52856-31

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 14:15

Received

28-Dec-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>
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**Subcontracted Analyses**Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	SW-846 8260C	09-Jan-19 00:41	09-Jan-19 00:42	10670	.190082A	
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
79-34-5	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"

*Surrogate recoveries:*

1868-53-7	Dibromofluoromethane	102			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	101			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	103			80-120 %			"	"	"	"	"	"

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Sample Identification

**TB-11 (GW)**  
SC52856-32

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 16:20

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW3520C

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

129-00-0	Pyrene	< 0.48		ug/L	0.48	0.48	1	SW8270D MOD(SIM)	28-Dec-18	31-Dec-18 17:57	CT007	461581A	
91-57-6	2-Methylnaphthalene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
208-96-8	Acenaphthylene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
53-70-3	Dibenz(a,h)anthracene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
120-12-7	Anthracene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
56-55-3	Benz(a)anthracene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
50-32-8	Benzo(a)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
205-99-2	Benzo(b)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
191-24-2	Benzo(ghi)perylene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
218-01-9	Chrysene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
83-32-9	Acenaphthene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
206-44-0	Fluoranthene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
86-73-7	Fluorene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
85-01-8	Phenanthrene	< 0.48		ug/L	0.48	0.48	1	"	"	"	"	"	"
207-08-9	Benzo(k)fluoranthene	< 0.02		ug/L	0.02	0.02	1	"	"	"	"	"	"

*Surrogate recoveries:*

321-60-8	% 2-Fluorobiphenyl	63			30-130 %			"	"	"	"	"	"
4165-60-0	% Nitrobenzene-d5	97			30-130 %			"	"	"	"	"	"
98904-43-9	% Terphenyl-d14	33			30-130 %			"	"	"	"	"	"

**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846 5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	09-Jan-19 01:02	09-Jan-19 01:03	10670	.190082A	
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	< 50		ug/l	50	6	1	"	"	"	"	"	"
79-01-6	Trichloroethene	0.5	J.	ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"

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Sample Identification

**TB-11 (GW)**  
SC52856-32

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 16:20

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	SW-846 8260C	09-Jan-19 01:02	09-Jan-19 01:03	10670	.190082A	
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"

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

Sample Identification

**TB-11 (GW)**  
SC52856-32

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 16:20

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	SW-846 8260C	09-Jan-19 01:02	09-Jan-19 01:03	10670	.190082A	
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	0.3	J.	ug/l	1	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

*Surrogate recoveries:*

460-00-4	4-Bromofluorobenzene	101			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	100			80-120 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	102			80-120 %			"	"	"	"	"	"

Sample Identification

**TB-18 (GW)**  
SC52856-33

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
26-Dec-18 10:15

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

91-20-3	Naphthalene	< 5		ug/l	5	1	1	SW-846 8260C	09-Jan-19 01:24	09-Jan-19 01:25	10670	.190082A/	
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	0.4	J.	ug/l	1	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
79-01-6	Trichloroethene	2		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	8		ug/l	1	0.2	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropan e	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	0.6	J.	ug/l	1	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

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Sample Identification

**TB-18 (GW)**

SC52856-33

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 10:15

Received

28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	SW-846 8260C	09-Jan-19 01:24	09-Jan-19 01:25	10670	.190082A	
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	13		ug/l	1	0.2	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

Surrogate recoveries:

2037-26-5	Toluene-d8	99			80-120 %			"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	102			80-120 %			"	"	"	"	"	"

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Sample Identification

**TB-18 (GW)**

SC52856-33

Client Project #

5529S-18

Matrix

Ground Water

Collection Date/Time

26-Dec-18 10:15

Received

28-Dec-18

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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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

460-00-4	4-Bromofluorobenzene	101			80-120 %			SW-846 8260C	09-Jan-19 01:24	10-Jan-19 01:24	10670	190082A	
1868-53-7	Dibromofluoromethane	103			80-120 %			"	"	"	"	"	"

Sample Identification

**Trip Blank 12/27/18**  
SC52856-34

Client Project #  
5529S-18

Matrix  
Trip Blank

Collection Date/Time  
27-Dec-18 00:00

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW8260C

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

75-71-8	Dichlorodifluoromethane	< 250		ug/Kg	250	25	50	SW8260CHL	20-Dec-18 10:45	30-Dec-18 12:56	CT007	461716A	
95-47-6	o-Xylene	< 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	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 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	"	"	"	"	"	"
1634-04-4	Methyl t-butyl ether (MTBE)	< 500		ug/Kg	500	50	50	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
75-09-2	Methylene chloride	< 250		ug/Kg	250	250	50	"	"	"	"	"	"
78-93-3	Methyl ethyl ketone	< 1500		ug/Kg	1500	250	50	"	"	"	"	"	"
100-42-5	Styrene	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 250		ug/Kg	250	50	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	"	"	"	"	"	"
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	"	"	"	"	"	"
110-82-7	Cyclohexane	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
79-20-9	Methylacetate	< 250		ug/Kg	250	250	50	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 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	"	"	"	"	"	"

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Sample Identification

**Trip Blank 12/27/18**  
SC52856-34

Client Project #  
5529S-18

Matrix  
Trip Blank

Collection Date/Time  
27-Dec-18 00:00

Received  
28-Dec-18

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

Subcontracted Analyses

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

74-97-5	Bromochloromethane	< 250		ug/Kg	250	25	50	SW8260CHL	20-Dec-18 10:45	30-Dec-18 12:56	CT007	461716A	
71-43-2	Benzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
67-64-1	Acetone	< 1300		ug/Kg	1300	250	50	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 1300		ug/Kg	1300	250	50	"	"	"	"	"	"
591-78-6	2-Hexanone	< 1300		ug/Kg	1300	250	50	"	"	"	"	"	"
123-91-1	1,4-dioxane	< 3800		ug/Kg	3800	2000	50	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 250		ug/Kg	250	25	50	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 250		ug/Kg	250	50	50	"	"	"	"	"	"
74-83-9	Bromomethane	< 250		ug/Kg	250	100	50	"	"	"	"	"	"

*Surrogate recoveries:*

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

Subcontracted Analyses

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

74-87-3	Chloromethane	< 5.0		ug/Kg	5.0	1.0	1	SW8260CLL	27-Dec-18	30-Dec-18 12:35	CT007	"	
78-93-3	Methyl ethyl ketone	< 30		ug/Kg	30	5.0	1	"	"	"	"	"	"
179601-23-1	m&p-Xylene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 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	"	"	"	"	"	"
67-66-3	Chloroform	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
1634-04-4	Methyl t-butyl ether (MTBE)	< 10		ug/Kg	10	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 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	"	"	"	"	"	"
79-20-9	Methylacetate	< 5.0		ug/Kg	5.0	5.0	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
75-09-2	Methylene chloride	< 5.0		ug/Kg	5.0	5.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
76-13-1	Trichlorotrifluoroethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 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	"	"	"	"	"	"
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	"	"	"	"	"	"

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Sample Identification

**Trip Blank 12/27/18**  
SC52856-34

Client Project #  
5529S-18

Matrix  
Trip Blank

Collection Date/Time  
27-Dec-18 00:00

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

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

75-01-4	Vinyl chloride	< 5.0		ug/Kg	5.0	0.50	1	SW8260CLL	27-Dec-18	30-Dec-18 12:35	CT007	461716A	
100-42-5	Styrene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
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	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 5.0		ug/Kg	5.0	1.0	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"
123-91-1	1,4-dioxane	< 75		ug/Kg	75	40	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 25		ug/Kg	25	5.0	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	"	"	"	"	"	"
71-43-2	Benzene	< 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	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/Kg	5.0	0.50	1	"	"	"	"	"	"

*Surrogate recoveries:*

2199-69-1	% 1,2-dichlorobenzene-d4	97			70-130 %			"	"	"	"	"	"
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	"
2037-26-5	% Toluene-d8	96			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	98			70-130 %			"	"	"	"	"	"

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Sample Identification

**Trip Blank 12/27/18**  
SC52856-35

Client Project #  
5529S-18

Matrix  
Trip Blank

Collection Date/Time  
27-Dec-18 00:00

Received  
28-Dec-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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.5030C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

142-28-9	1,3-Dichloropropane	< 1		ug/l	1	0.2	1	SW-846 8260C	07-Jan-19 12:38	07-Jan-19 12:39	10670	.190071A/	
96-18-4	1,2,3-Trichloropropane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	< 5		ug/l	5	1	1	"	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
106-93-4	1,2-Dibromoethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
71-43-2	Benzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 250		ug/l	250	29	1	"	"	"	"	"	"
594-20-7	2,2-Dichloropropane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
95-49-8	2-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 10		ug/l	10	0.3	1	"	"	"	"	"	"
106-43-4	4-Chlorotoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 10		ug/l	10	0.5	1	"	"	"	"	"	"
67-64-1	Acetone	< 20		ug/l	20	0.7	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	< 5		ug/l	5	0.4	1	"	"	"	"	"	"
563-58-6	1,1-Dichloropropene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 5		ug/l	5	0.3	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-87-2	Methylcyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 5		ug/l	5	1	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
100-42-5	Styrene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"

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Sample Identification

Trip Blank 12/27/18  
SC52856-35

Client Project #  
5529S-18

Matrix  
Trip Blank

Collection Date/Time  
27-Dec-18 00:00

Received  
28-Dec-18

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

Subcontracted Analyses

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	SW-846 8260C	07-Jan-19 12:38	07-Jan-19 12:39	10670	.190071A	
75-65-0	t-Butyl alcohol	< 50		ug/l	50	12	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran	< 10		ug/l	10	0.7	1	"	"	"	"	"	"
108-88-3	Toluene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
	Total VOC TICs	0		ug/l			1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-buten e	< 50		ug/l	50	6	1	"	"	"	"	"	"
79-01-6	Trichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
994-05-8	t-Amyl methyl ether	< 5		ug/l	5	0.8	1	"	"	"	"	"	"
108-20-3	di-Isopropyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-25-2	Bromoform	< 4		ug/l	4	0.2	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1		ug/l	1	0.3	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
79-20-9	Methyl Acetate	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
110-82-7	Cyclohexane	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
64-17-5	Ethanol	< 750		ug/l	750	280	1	"	"	"	"	"	"
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	"	"	"	"	"	"
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	"	"	"	"	"	"
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	"
1330-20-7	Xylene (Total)	< 5		ug/l	5	1	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	"

Surrogate recoveries:

17060-07-0	1,2-Dichloroethane-d4	102			80-120 %			"	"	"	"	"	"
460-00-4	4-Bromofluorobenzene	102			80-120 %			"	"	"	"	"	"

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Sample Identification

**Trip Blank 12/27/18**

SC52856-35

Client Project #

5529S-18

Matrix

Trip Blank

Collection Date/Time

27-Dec-18 00:00

Received

28-Dec-18

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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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

2037-26-5	Toluene-d8	99			80-120 %			SW-846 8260C	07-Jan-19	12:38	10670	190071A	
1868-53-7	Dibromofluoromethane	103			80-120 %			"	"	"	"	"	"

**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW8082A</b>										
<b>Batch 461564A - SW3545A</b>										
<b>BLK (CC21618-BLK)</b>					<u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u>					
PCB-1262	ND		ug/Kg	33			ND	-		
PCB-1268	ND		ug/Kg	33			ND	-		
PCB-1260	ND		ug/Kg	33			ND	-		
PCB-1254	ND		ug/Kg	33			ND	-		
PCB-1248	ND		ug/Kg	33			ND	-		
PCB-1242	ND		ug/Kg	33			ND	-		
PCB-1221	ND		ug/Kg	33			ND	-		
PCB-1016	ND		ug/Kg	33			ND	-		
PCB-1232	ND		ug/Kg	33			ND	-		
Surrogate: % TCMX	83		ug/Kg		100		83	40-140		
Surrogate: % DCBP	87		ug/Kg		100		87	40-140		
<b>LGS (CC21618-LGS)</b>					<u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u>					
PCB-1016	416.0		ug/Kg	33	500		83	40-140		30
PCB-1248	ND		ug/Kg	33	500			40-140		30
PCB-1254	ND		ug/Kg	33	500			40-140		30
PCB-1260	456.1		ug/Kg	33	500		91	40-140		30
PCB-1262	ND		ug/Kg	33				40-140		30
PCB-1268	ND		ug/Kg	33	500			40-140		30
PCB-1221	ND		ug/Kg	33	500			40-140		30
PCB-1232	ND		ug/Kg	33	500			40-140		30
PCB-1242	ND		ug/Kg	33	500			40-140		30
Surrogate: % DCBP	37.49		ug/Kg		40		94	40-140		
Surrogate: % TCMX	35.42		ug/Kg		40		89	40-140		
<b>LCSD (CC21618-LCSD)</b>					<u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u>					
PCB-1221	ND		ug/Kg	33	500			40-140		30
PCB-1248	ND		ug/Kg	33	500			40-140		30
PCB-1232	ND		ug/Kg	33	500			40-140		30
PCB-1268	ND		ug/Kg	33	500			40-140		30
PCB-1016	394.7		ug/Kg	33	500		79	40-140	4.9	30
PCB-1242	ND		ug/Kg	33	500			40-140		30
PCB-1254	ND		ug/Kg	33	500			40-140		30
PCB-1262	ND		ug/Kg	33				40-140		30
PCB-1260	435.0		ug/Kg	33	500		87	40-140	4.5	30
Surrogate: % DCBP	36.76		ug/Kg		40		92	40-140		
Surrogate: % TCMX	34.64		ug/Kg		40		87	40-140		
<b>MS (CC21618-MS)</b>			<b>Source: CC21618</b>			<u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u>				
PCB-1242	ND		ug/Kg	33				40-140		30
PCB-1016	388.6		ug/Kg	33	500		78	40-140		30
PCB-1221	ND		ug/Kg	33				40-140		30
PCB-1232	ND		ug/Kg	33				40-140		30
PCB-1248	ND		ug/Kg	33				40-140		30
PCB-1260	424.9		ug/Kg	33	500		85	40-140		30
PCB-1262	ND		ug/Kg	33				40-140		30
PCB-1268	ND		ug/Kg	33				40-140		30
PCB-1254	ND		ug/Kg	33				40-140		30
Surrogate: % TCMX	33.28		ug/Kg		40		83	40-140		
Surrogate: % DCBP	34.18		ug/Kg		40		85	40-140		
<b>MSD (CC21618-MSD)</b>			<b>Source: CC21618</b>			<u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u>				
PCB-1016	464.6		ug/Kg	33	500		93	40-140	17.5	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
<b>SW8082A</b>										
<b>Batch 461564A - SW3545A</b>										
<b>MSD (CC21618-MSD)</b>			<b>Source: CC21618</b>		<b>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</b>					
PCB-1268	ND		ug/Kg	33				40-140		30
PCB-1262	ND		ug/Kg	33				40-140		30
PCB-1260	509.0		ug/Kg	33	500		102	40-140	18.2	30
PCB-1254	ND		ug/Kg	33				40-140		30
PCB-1248	ND		ug/Kg	33				40-140		30
PCB-1242	ND		ug/Kg	33				40-140		30
PCB-1232	ND		ug/Kg	33				40-140		30
PCB-1221	ND		ug/Kg	33				40-140		30
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Surrogate: % DCBP	40.99		ug/Kg		40		102	40-140		
Surrogate: % TCMX	40.54		ug/Kg		40		101	40-140		
<b>Batch 461572A - SW3510C</b>										
<b>BLK (CC21102-BLK)</b>			<b>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</b>							
PCB-1254	ND		ug/L	0.050			ND	-		
PCB-1016	ND		ug/L	0.050			ND	-		
PCB-1232	ND		ug/L	0.050			ND	-		
PCB-1242	ND		ug/L	0.050			ND	-		
PCB-1248	ND		ug/L	0.050			ND	-		
PCB-1268	ND		ug/L	0.050			ND	-		
PCB-1260	ND		ug/L	0.050			ND	-		
PCB-1262	ND		ug/L	0.050			ND	-		
PCB-1221	ND		ug/L	0.050			ND	-		
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Surrogate: % DCBP	71		ug/L		100		71	40-140		
Surrogate: % TCMX	67		ug/L		100		67	40-140		
<b>LCS (CC21102-LCS)</b>			<b>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</b>							
PCB-1221	ND		ug/L	0.050	500			40-140		20
PCB-1232	ND		ug/L	0.050	500			40-140		20
PCB-1242	ND		ug/L	0.050	500			40-140		20
PCB-1268	ND		ug/L	0.050	500			40-140		20
PCB-1262	ND		ug/L	0.050				40-140		20
PCB-1254	ND		ug/L	0.050	500			40-140		20
PCB-1260	501.6		ug/L	0.050	500		100	40-140		20
PCB-1016	388.8		ug/L	0.050	500		78	40-140		20
PCB-1248	ND		ug/L	0.050	500			40-140		20
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Surrogate: % DCBP	40.05		ug/L		40		100	40-140		
Surrogate: % TCMX	30.03		ug/L		40		75	40-140		
<b>LCSD (CC21102-LCSD)</b>			<b>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</b>							
PCB-1221	ND		ug/L	0.050	500			40-140		20
PCB-1016	382.1		ug/L	0.050	500		76	40-140	2.6	20
PCB-1232	ND		ug/L	0.050	500			40-140		20
PCB-1242	ND		ug/L	0.050	500			40-140		20
PCB-1248	ND		ug/L	0.050	500			40-140		20
PCB-1254	ND		ug/L	0.050	500			40-140		20
PCB-1262	ND		ug/L	0.050				40-140		20
PCB-1268	ND		ug/L	0.050	500			40-140		20
PCB-1260	483.6		ug/L	0.050	500		97	40-140	3.0	20
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Surrogate: % TCMX	31.75		ug/L		40		79	40-140		
Surrogate: % DCBP	37.05		ug/L		40		93	40-140		

**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
<b>SW8260C</b>										
<b>Batch 461716A - SW8260C</b>										
<b>BLK (CC21270-BLK)</b>					Prepared: Analyzed: 30-Dec-18					
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	-		
Ethylbenzene	ND		ug/kg	1.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
Dichlorodifluoromethane	ND		ug/kg	5.0			ND	-		
Dibromomethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
Cyclohexane	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Methyl t-butyl ether (MTBE)	ND		ug/kg	1.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
Dibromochloromethane	ND		ug/kg	3.0			ND	-		
Methylacetate	ND		ug/kg	5.0			ND	-		
Methylcyclohexane	ND		ug/kg	5.0			ND	-		
Methylene chloride	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
Styrene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
Trichlorofluoromethane	ND		ug/kg	5.0			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	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
1,1-Dichloroethane	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
1,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Vinyl chloride	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-Dichloroethene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	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-Dibromo-3-chloropropane	ND		ug/kg	5.0			ND	-		
1,2-Dibromoethane	ND		ug/kg	5.0			ND	-		
1,1-Dichloropropene	ND		ug/kg	5.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			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	-		
1,4-dioxane	ND		ug/kg	100			ND	-		
2,2-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
<b>SW8260C</b>										
<b>Batch 461716A - SW8260C</b>										
<b>BLK (CC21270-BLK)</b>					<u>Prepared: Analyzed: 30-Dec-18</u>					
2-Hexanone	ND		ug/kg	25			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
Acetone	ND		ug/kg	10			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	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
<i>Surrogate: % 1,2-dichlorobenzene-d4</i>	97		ug/kg		50		97	70-130		
<i>Surrogate: % Bromofluorobenzene</i>	98		ug/kg		50		98	70-130		
<i>Surrogate: % Dibromofluoromethane</i>	101		ug/kg		50		101	70-130		
<i>Surrogate: % Toluene-d8</i>	97		ug/kg		50		97	70-130		
<b>LCS (CC21270-LCS)</b>					<u>Prepared: Analyzed: 30-Dec-18</u>					
Bromochloromethane	54.55		ug/kg	5.0	50		109	70-130		30
1,3-Dichloropropane	53.06		ug/kg	5.0	50		106	70-130		30
1,4-Dichlorobenzene	54.88		ug/kg	5.0	50		110	70-130		30
1,4-dioxane	1154		ug/kg	100	1000		115	70-130		30
2,2-Dichloropropane	60.50		ug/kg	5.0	50		121	70-130		30
2-Hexanone	47.02		ug/kg	25	50		94	70-130		30
4-Methyl-2-pentanone	52.71		ug/kg	25	50		105	70-130		30
Acetone	35.58		ug/kg	10	50		71	70-130		30
1,3-Dichlorobenzene	56.25		ug/kg	5.0	50		112	70-130		30
Bromobenzene	55.39		ug/kg	5.0	50		111	70-130		30
1,2-Dibromoethane	55.04		ug/kg	5.0	50		110	70-130		30
Bromodichloromethane	57.85		ug/kg	5.0	50		116	70-130		30
Bromoform	59.64		ug/kg	5.0	50		119	70-130		30
Benzene	53.95		ug/kg	1.0	50		108	70-130		30
1,2-Dichloropropane	56.27		ug/kg	5.0	50		113	70-130		30
Bromomethane	48.77		ug/kg	5.0	50		98	70-130		30
1,2-Dichlorobenzene	53.81		ug/kg	5.0	50		108	70-130		30
Chloroethane	54.99		ug/kg	5.0	50		110	70-130		30
1,2-Dibromo-3-chloropropane	60.89		ug/kg	5.0	50		122	70-130		30
1,2,4-Trichlorobenzene	59.28		ug/kg	5.0	50		119	70-130		30
1,2,3-Trichloropropane	52.47		ug/kg	5.0	50		105	70-130		30
1,2,3-Trichlorobenzene	59.37		ug/kg	5.0	50		119	70-130		30
1,1-Dichloropropene	57.82		ug/kg	5.0	50		116	70-130		30
1,1-Dichloroethene	52.35		ug/kg	5.0	50		105	70-130		30
1,1-Dichloroethane	56.17		ug/kg	5.0	50		112	70-130		30
1,1,2-Trichloroethane	53.57		ug/kg	5.0	50		107	70-130		30
1,1,2,2-Tetrachloroethane	56.01		ug/kg	3.0	50		112	70-130		30
1,1,1-Trichloroethane	55.64		ug/kg	5.0	50		111	70-130		30
1,2-Dichloroethane	52.33		ug/kg	5.0	50		105	70-130		30
m&p-Xylene	107.3		ug/kg	2.0	100		107	70-130		30
Trichlorotrifluoroethane	50.33		ug/kg	5.0	50		101	70-130		30
Trichloroethene	56.01		ug/kg	5.0	50		112	70-130		30
trans-1,4-dichloro-2-butene	316.6		ug/kg	5.0	250		127	70-130		30
trans-1,3-Dichloropropene	58.08		ug/kg	5.0	50		116	70-130		30
trans-1,2-Dichloroethene	53.11		ug/kg	5.0	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
<b>SW8260C</b>										
<b>Batch 461716A - SW8260C</b>										
<b>LCS (CC21270-LCS)</b>					<u>Prepared: Analyzed: 30-Dec-18</u>					
Toluene	54.34		ug/kg	1.0	50		109	70-130		30
Tetrachloroethene	56.73		ug/kg	5.0	50		113	70-130		30
Styrene	55.87		ug/kg	5.0	50		112	70-130		30
o-Xylene	56.22		ug/kg	2.0	50		112	70-130		30
Methylene chloride	45.63		ug/kg	5.0	50		91	70-130		30
Methylcyclohexane	52.96		ug/kg	5.0	50		106	70-130		30
Methylacetate	41.88		ug/kg	5.0	50		84	70-130		30
Carbon tetrachloride	57.21		ug/kg	5.0	50		114	70-130		30
Methyl ethyl ketone	45.62		ug/kg	5.0	50		91	70-130		30
Carbon Disulfide	55.08		ug/kg	5.0	50		110	70-130		30
Isopropylbenzene	56.74		ug/kg	1.0	50		113	70-130		30
Ethylbenzene	53.73		ug/kg	1.0	50		107	70-130		30
Dichlorodifluoromethane	63.28		ug/kg	5.0	50		127	70-130		30
Dibromomethane	53.61		ug/kg	5.0	50		107	70-130		30
Dibromochloromethane	62.43		ug/kg	3.0	50		125	70-130		30
Cyclohexane	47.99		ug/kg	5.0	50		96	70-130		30
cis-1,3-Dichloropropene	61.58		ug/kg	5.0	50		123	70-130		30
cis-1,2-Dichloroethene	56.95		ug/kg	5.0	50		114	70-130		30
Chloromethane	53.21		ug/kg	5.0	50		106	70-130		30
Chloroform	53.20		ug/kg	5.0	50		106	70-130		30
Trichlorofluoromethane	49.75		ug/kg	5.0	50		100	70-130		30
Chlorobenzene	53.47		ug/kg	5.0	50		107	70-130		30
1,1,1,2-Tetrachloroethane	55.80		ug/kg	5.0	50		112	70-130		30
Methyl t-butyl ether (MTBE)	47.98		ug/kg	1.0	50		96	70-130		30
Vinyl chloride	51.82		ug/kg	5.0	50		104	70-130		30
Surrogate: % Bromofluorobenzene	49.93		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	50.01		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	51.25		ug/kg		50		103	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.34		ug/kg		50		101	70-130		
<b>LCSD (CC21270-LCSD)</b>					<u>Prepared: Analyzed: 30-Dec-18</u>					
Benzene	54.19		ug/kg	1.0	50		108	70-130	0.0	30
1,3-Dichlorobenzene	56.04		ug/kg	5.0	50		112	70-130	0.0	30
1,3-Dichloropropane	54.26		ug/kg	5.0	50		109	70-130	2.8	30
1,4-Dichlorobenzene	54.91		ug/kg	5.0	50		110	70-130	0.0	30
1,4-dioxane	1129		ug/kg	100	1000		113	70-130	1.8	30
2,2-Dichloropropane	60.46		ug/kg	5.0	50		121	70-130	0.0	30
2-Hexanone	51.60		ug/kg	25	50		103	70-130	9.1	30
1,2-Dichloropropane	56.05		ug/kg	5.0	50		112	70-130	0.9	30
Acetone	37.32		ug/kg	10	50		75	70-130	5.5	30
1,2-Dibromo-3-chloropropane	63.47		ug/kg	5.0	50		127	70-130	4.0	30
Bromobenzene	56.18		ug/kg	5.0	50		112	70-130	0.9	30
Bromochloromethane	55.42		ug/kg	5.0	50		111	70-130	1.8	30
4-Methyl-2-pentanone	55.75		ug/kg	25	50		111	70-130	5.6	30
1,2-Dichloroethane	53.03		ug/kg	5.0	50		106	70-130	0.9	30
Bromoform	62.46		ug/kg	5.0	50		125	70-130	4.9	30
1,2-Dibromoethane	57.11		ug/kg	5.0	50		114	70-130	3.6	30
Bromomethane	48.90		ug/kg	5.0	50		98	70-130	0.0	30
1,2,4-Trichlorobenzene	59.64		ug/kg	5.0	50		119	70-130	0.0	30
1,2,3-Trichloropropane	54.04		ug/kg	5.0	50		108	70-130	2.8	30
1,2,3-Trichlorobenzene	60.79		ug/kg	5.0	50		122	70-130	2.5	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
<b>SW8260C</b>										
<b>Batch 461716A - SW8260C</b>										
<b>LCSD (CC21270-LCSD)</b>					Prepared: Analyzed: 30-Dec-18					
1,1-Dichloropropene	57.89		ug/kg	5.0	50		116	70-130	0.0	30
1,1-Dichloroethene	52.30		ug/kg	5.0	50		105	70-130	0.0	30
1,1-Dichloroethane	56.26		ug/kg	5.0	50		113	70-130	0.9	30
1,1,2-Trichloroethane	54.36		ug/kg	5.0	50		109	70-130	1.9	30
1,1,2,2-Tetrachloroethane	58.36		ug/kg	3.0	50		117	70-130	4.4	30
1,1,1-Trichloroethane	55.24		ug/kg	5.0	50		110	70-130	0.9	30
1,1,1,2-Tetrachloroethane	57.26		ug/kg	5.0	50		115	70-130	2.6	30
1,2-Dichlorobenzene	54.76		ug/kg	5.0	50		110	70-130	1.8	30
trans-1,2-Dichloroethene	53.07		ug/kg	5.0	50		106	70-130	0.0	30
Methylacetate	43.65		ug/kg	5.0	50		87	70-130	3.5	30
Methylcyclohexane	52.90		ug/kg	5.0	50		106	70-130	0.0	30
Methylene chloride	45.30		ug/kg	5.0	50		91	70-130	0.0	30
o-Xylene	57.37		ug/kg	2.0	50		115	70-130	2.6	30
Styrene	57.27		ug/kg	5.0	50		115	70-130	2.6	30
Bromodichloromethane	58.30		ug/kg	5.0	50		117	70-130	0.9	30
Toluene	54.27		ug/kg	1.0	50		109	70-130	0.0	30
m&p-Xylene	109.1		ug/kg	2.0	100		109	70-130	1.9	30
trans-1,3-Dichloropropene	58.35		ug/kg	5.0	50		117	70-130	0.9	30
trans-1,4-dichloro-2-butene	331.4	I	ug/kg	5.0	250		133	70-130	4.6	30
Trichloroethene	56.48		ug/kg	5.0	50		113	70-130	0.9	30
Trichlorofluoromethane	49.69		ug/kg	5.0	50		99	70-130	1.0	30
Trichlorotrifluoroethane	50.31		ug/kg	5.0	50		101	70-130	0.0	30
Vinyl chloride	51.48		ug/kg	5.0	50		103	70-130	1.0	30
Tetrachloroethene	55.93		ug/kg	5.0	50		112	70-130	0.9	30
Cyclohexane	48.17		ug/kg	5.0	50		96	70-130	0.0	30
Carbon Disulfide	54.89		ug/kg	5.0	50		110	70-130	0.0	30
Carbon tetrachloride	57.42		ug/kg	5.0	50		115	70-130	0.9	30
Chlorobenzene	54.47		ug/kg	5.0	50		109	70-130	1.9	30
Chloroethane	54.60		ug/kg	5.0	50		109	70-130	0.9	30
Chloroform	53.57		ug/kg	5.0	50		107	70-130	0.9	30
Chloromethane	54.01		ug/kg	5.0	50		108	70-130	1.9	30
Methyl t-butyl ether (MTBE)	44.08		ug/kg	1.0	50		88	70-130	8.7	30
cis-1,3-Dichloropropene	60.62		ug/kg	5.0	50		121	70-130	1.6	30
Methyl ethyl ketone	47.74		ug/kg	5.0	50		95	70-130	4.3	30
Dibromochloromethane	63.33		ug/kg	3.0	50		127	70-130	1.6	30
Dibromomethane	54.22		ug/kg	5.0	50		108	70-130	0.9	30
Dichlorodifluoromethane	63.84		ug/kg	5.0	50		128	70-130	0.8	30
Ethylbenzene	54.10		ug/kg	1.0	50		108	70-130	0.9	30
Isopropylbenzene	57.32		ug/kg	1.0	50		115	70-130	1.8	30
cis-1,2-Dichloroethene	56.88		ug/kg	5.0	50		114	70-130	0.0	30
Surrogate: % Bromofluorobenzene	51.10		ug/kg		50		102	70-130		
Surrogate: % Toluene-d8	50.91		ug/kg		50		102	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	50.13		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	50.40		ug/kg		50		101	70-130		
<b>MS (CC21270-MS)</b>			<b>Source: CC21270</b>			<b>Prepared: Analyzed: 30-Dec-18</b>				
Cyclohexane	52.74		ug/kg	5.0	50		105	70-130		30
m&p-Xylene	94.56		ug/kg	2.0	100		95	70-130		30
Isopropylbenzene	51.23		ug/kg	1.0	50		102	70-130		30
Ethylbenzene	47.98		ug/kg	1.0	50		96	70-130		30
Dichlorodifluoromethane	51.36		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
<b>SW8260C</b>										
<b>Batch 461716A - SW8260C</b>										
<b>MS (CC21270-MS)</b>				<b>Source: CC21270</b>			<b>Prepared: Analyzed: 30-Dec-18</b>			
1,1,1,2-Tetrachloroethane	52.40		ug/kg	5.0	50		105	70-130		30
Dibromochloromethane	56.07		ug/kg	3.0	50		112	70-130		30
cis-1,3-Dichloropropene	54.04		ug/kg	5.0	50		108	70-130		30
cis-1,2-Dichloroethene	51.94		ug/kg	5.0	50		104	70-130		30
Chloromethane	50.51		ug/kg	5.0	50		101	70-130		30
Chloroform	49.84		ug/kg	5.0	50		100	70-130		30
Chloroethane	48.79		ug/kg	5.0	50		98	70-130		30
Carbon tetrachloride	51.42		ug/kg	5.0	50		103	70-130		30
Dibromomethane	51.44		ug/kg	5.0	50		103	70-130		30
Methyl t-butyl ether (MTBE)	50.46		ug/kg	1.0	50		101	70-130		30
Methylacetate	43.40		ug/kg	5.0	50		87	70-130		30
Methylcyclohexane	49.45		ug/kg	5.0	50		99	70-130		30
Methylene chloride	41.25		ug/kg	5.0	50		83	70-130		30
o-Xylene	50.26		ug/kg	2.0	50		101	70-130		30
Styrene	50.49		ug/kg	5.0	50		101	70-130		30
Tetrachloroethene	48.23		ug/kg	5.0	50		96	70-130		30
Toluene	48.85		ug/kg	1.0	50		98	59-139		30
trans-1,2-Dichloroethene	46.08		ug/kg	5.0	50		92	70-130		30
trans-1,3-Dichloropropene	53.98		ug/kg	5.0	50		108	70-130		30
trans-1,4-dichloro-2-butene	281.8		ug/kg	5.0	250		113	70-130		30
Trichloroethene	51.92		ug/kg	5.0	50		104	62-137		30
Trichlorofluoromethane	46.65		ug/kg	5.0	50		93	70-130		30
Trichlorotrifluoroethane	46.69		ug/kg	5.0	50		93	70-130		30
Methyl ethyl ketone	46.11		ug/kg	5.0	50		92	70-130		30
1,2-Dichloropropane	51.67		ug/kg	5.0	50		103	70-130		30
1,1,2,2-Tetrachloroethane	51.41		ug/kg	3.0	50		103	70-130		30
1,1,2-Trichloroethane	51.74		ug/kg	5.0	50		103	70-130		30
1,1-Dichloroethane	52.10		ug/kg	5.0	50		104	70-130		30
1,1-Dichloroethene	45.87		ug/kg	5.0	50		92	59-172		30
1,1-Dichloropropene	49.80		ug/kg	5.0	50		100	70-130		30
1,2,3-Trichlorobenzene	44.97		ug/kg	5.0	50		90	70-130		30
1,2,3-Trichloropropane	52.50		ug/kg	5.0	50		105	70-130		30
1,2,4-Trichlorobenzene	39.88		ug/kg	5.0	50		80	70-130		30
1,2-Dibromo-3-chloropropane	58.64		ug/kg	5.0	50		117	70-130		30
1,2-Dibromoethane	53.71		ug/kg	5.0	50		107	70-130		30
1,2-Dichlorobenzene	45.74		ug/kg	5.0	50		91	70-130		30
Vinyl chloride	47.21		ug/kg	5.0	50		94	70-130		30
Bromomethane	45.90		ug/kg	5.0	50		92	70-130		30
1,2-Dichloroethane	48.90		ug/kg	5.0	50		98	70-130		30
Bromoform	56.58		ug/kg	5.0	50		113	70-130		30
1,3-Dichlorobenzene	44.18		ug/kg	5.0	50		88	70-130		30
1,3-Dichloropropane	52.18		ug/kg	5.0	50		104	70-130		30
1,4-Dichlorobenzene	42.75		ug/kg	5.0	50		86	70-130		30
1,4-dioxane	1122		ug/kg	100	1000		112	70-130		30
2,2-Dichloropropane	51.93		ug/kg	5.0	50		104	70-130		30
2-Hexanone	52.90		ug/kg	25	50		106	70-130		30
4-Methyl-2-pentanone	55.91		ug/kg	25	50		112	70-130		30
Acetone	43.89		ug/kg	10	50		88	70-130		30
Benzene	48.96		ug/kg	1.0	50		98	66-142		30
Bromobenzene	49.50		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
<b>SW8260C</b>										
<b>Batch 461716A - SW8260C</b>										
<b>MS (CC21270-MS)</b>			<b>Source: CC21270</b>		<b>Prepared: Analyzed: 30-Dec-18</b>					
Bromochloromethane	52.26		ug/kg	5.0	50		105	70-130		30
Bromodichloromethane	53.08		ug/kg	5.0	50		106	70-130		30
1,1,1-Trichloroethane	51.26		ug/kg	5.0	50		103	70-130		30
Chlorobenzene	48.05		ug/kg	5.0	50		96	60-133		30
Carbon Disulfide	48.08		ug/kg	5.0	50		96	70-130		30
<i>Surrogate: % Toluene-d8</i>	50.79		ug/kg		50		102	70-130		
<i>Surrogate: % Dibromofluoromethane</i>	50.03		ug/kg		50		100	70-130		
<i>Surrogate: % Bromofluorobenzene</i>	50.42		ug/kg		50		101	70-130		
<i>Surrogate: % 1,2-dichlorobenzene-d4</i>	49.67		ug/kg		50		99	70-130		
<b>MSD (CC21270-MSD)</b>			<b>Source: CC21270</b>		<b>Prepared: Analyzed: 30-Dec-18</b>					
Cyclohexane	54.31		ug/kg	5.0	50		109	70-130	3.7	30
Methyl ethyl ketone	47.22		ug/kg	5.0	50		94	70-130	2.2	30
m&p-Xylene	97.99		ug/kg	2.0	100		98	70-130	3.1	30
Isopropylbenzene	52.68		ug/kg	1.0	50		105	70-130	2.9	30
Ethylbenzene	49.16		ug/kg	1.0	50		98	70-130	2.1	30
Dichlorodifluoromethane	53.56		ug/kg	5.0	50		107	70-130	3.8	30
Methyl t-butyl ether (MTBE)	52.28		ug/kg	1.0	50		105	70-130	3.9	30
Dibromochloromethane	56.23		ug/kg	3.0	50		112	70-130	0.0	30
o-Xylene	51.18		ug/kg	2.0	50		102	70-130	1.0	30
cis-1,3-Dichloropropene	55.13		ug/kg	5.0	50		110	70-130	1.8	30
cis-1,2-Dichloroethene	53.32		ug/kg	5.0	50		107	70-130	2.8	30
Chloromethane	51.97		ug/kg	5.0	50		104	70-130	2.9	30
Dibromomethane	52.76		ug/kg	5.0	50		106	70-130	2.9	30
Methylacetate	43.06		ug/kg	5.0	50		86	70-130	1.2	30
Chloroethane	51.63		ug/kg	5.0	50		103	70-130	5.0	30
Methylene chloride	42.68		ug/kg	5.0	50		85	70-130	2.4	30
Styrene	51.15		ug/kg	5.0	50		102	70-130	1.0	30
Tetrachloroethene	50.55		ug/kg	5.0	50		101	70-130	5.1	30
Toluene	50.13		ug/kg	1.0	50		100	59-139	2.0	30
trans-1,2-Dichloroethene	48.00		ug/kg	5.0	50		96	70-130	4.3	30
trans-1,3-Dichloropropene	53.73		ug/kg	5.0	50		107	70-130	0.9	30
trans-1,4-dichloro-2-butene	285.1		ug/kg	5.0	250		114	70-130	0.9	30
Trichloroethene	54.07		ug/kg	5.0	50		108	62-137	3.8	30
Trichlorofluoromethane	49.09		ug/kg	5.0	50		98	70-130	5.2	30
Trichlorotrifluoroethane	48.93		ug/kg	5.0	50		98	70-130	5.2	30
Vinyl chloride	49.63		ug/kg	5.0	50		99	70-130	5.2	30
Methylcyclohexane	51.22		ug/kg	5.0	50		102	70-130	3.0	30
1,1-Dichloropropene	52.27		ug/kg	5.0	50		105	70-130	4.9	30
Chloroform	50.54		ug/kg	5.0	50		101	70-130	1.0	30
1,2-Dichloroethane	49.63		ug/kg	5.0	50		99	70-130	1.0	30
1,2-Dichlorobenzene	47.89		ug/kg	5.0	50		96	70-130	5.3	30
1,2-Dibromoethane	54.29		ug/kg	5.0	50		109	70-130	1.9	30
1,2-Dibromo-3-chloropropane	59.58		ug/kg	5.0	50		119	70-130	1.7	30
1,2,4-Trichlorobenzene	43.40		ug/kg	5.0	50		87	70-130	8.4	30
1,3-Dichlorobenzene	46.46		ug/kg	5.0	50		93	70-130	5.5	30
1,2,3-Trichlorobenzene	47.74		ug/kg	5.0	50		95	70-130	5.4	30
1,3-Dichloropropane	52.44		ug/kg	5.0	50		105	70-130	1.0	30
1,1-Dichloroethene	47.84		ug/kg	5.0	50		96	59-172	4.3	30
1,1-Dichloroethane	53.24		ug/kg	5.0	50		106	70-130	1.9	30
1,1,2-Trichloroethane	52.23		ug/kg	5.0	50		104	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
<b>SW8260C</b>										
<b>Batch 461716A - SW8260C</b>										
<b>MSD (CC21270-MSD)</b>			<b>Source: CC21270</b>		<b>Prepared: Analyzed: 30-Dec-18</b>					
1,1,2,2-Tetrachloroethane	51.98		ug/kg	3.0	50		104	70-130	1.0	30
1,1,1-Trichloroethane	52.58		ug/kg	5.0	50		105	70-130	1.9	30
1,1,1,2-Tetrachloroethane	53.18		ug/kg	5.0	50		106	70-130	0.9	30
1,2,3-Trichloropropane	52.86		ug/kg	5.0	50		106	70-130	0.9	30
Bromobenzene	50.94		ug/kg	5.0	50		102	70-130	3.0	30
Carbon tetrachloride	52.85		ug/kg	5.0	50		106	70-130	2.9	30
Carbon Disulfide	50.33		ug/kg	5.0	50		101	70-130	5.1	30
Bromomethane	47.12		ug/kg	5.0	50		94	70-130	2.2	30
Bromoform	56.39		ug/kg	5.0	50		113	70-130	0.0	30
1,2-Dichloropropane	52.53		ug/kg	5.0	50		105	70-130	1.9	30
Bromochloromethane	52.93		ug/kg	5.0	50		106	70-130	0.9	30
Chlorobenzene	49.17		ug/kg	5.0	50		98	60-133	2.1	30
Benzene	50.24		ug/kg	1.0	50		100	66-142	2.0	30
Acetone	40.58		ug/kg	10	50		81	70-130	8.3	30
4-Methyl-2-pentanone	56.15		ug/kg	25	50		112	70-130	0.0	30
2-Hexanone	52.62		ug/kg	25	50		105	70-130	0.9	30
2,2-Dichloropropane	52.84		ug/kg	5.0	50		106	70-130	1.9	30
1,4-dioxane	1145		ug/kg	100	1000		114	70-130	1.8	30
1,4-Dichlorobenzene	45.10		ug/kg	5.0	50		90	70-130	4.5	30
Bromodichloromethane	54.31		ug/kg	5.0	50		109	70-130	2.8	30
Surrogate: % 1,2-dichlorobenzene-d4	49.92		ug/kg		50		100	70-130		
Surrogate: % Bromofluorobenzene	50.18		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	51.36		ug/kg		50		103	70-130		
Surrogate: % Toluene-d8	51.27		ug/kg		50		103	70-130		
<b>Batch 461826A - SW8260C</b>										
<b>BLK (CC21618-BLK)</b>			<b>Prepared: Analyzed: 31-Dec-18</b>							
Acetone	ND		ug/kg	10			ND	-		
1,3,5-Trimethylbenzene	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	-		
1,4-dioxane	ND		ug/kg	100			ND	-		
2,2-Dichloropropane	ND		ug/kg	5.0			ND	-		
Bromomethane	ND		ug/kg	5.0			ND	-		
4-Methyl-2-pentanone	ND		ug/kg	25			ND	-		
1,2-Dichlorobenzene	ND		ug/kg	5.0			ND	-		
Benzene	ND		ug/kg	1.0			ND	-		
Bromobenzene	ND		ug/kg	5.0			ND	-		
1,2,3-Trichlorobenzene	ND		ug/kg	5.0			ND	-		
trans-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Bromoform	ND		ug/kg	5.0			ND	-		
2-Hexanone	ND		ug/kg	25			ND	-		
sec-Butylbenzene	ND		ug/kg	1.0			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	-		
1,2-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
<b>SW8260C</b>										
<b>Batch 461826A - SW8260C</b>										
<b>BLK (CC21618-BLK)</b>					Prepared: Analyzed: 31-Dec-18					
p-Isopropyltoluene	ND		ug/kg	1.0			ND	-		
1,2-Dichloroethane	ND		ug/kg	5.0			ND	-		
Styrene	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	-		
Bromodichloromethane	ND		ug/kg	5.0			ND	-		
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.0			ND	-		
Trichlorotrifluoroethane	ND		ug/kg	5.0			ND	-		
Methylacetate	ND		ug/kg	5.0			ND	-		
Methylcyclohexane	ND		ug/kg	5.0			ND	-		
Carbon Disulfide	ND		ug/kg	5.0			ND	-		
Naphthalene	ND		ug/kg	5.0			ND	-		
Bromochloromethane	ND		ug/kg	5.0			ND	-		
n-Propylbenzene	ND		ug/kg	1.0			ND	-		
Methyl t-Butyl Ether (MTBE)	ND		ug/kg	1.0			ND	-		
Vinyl chloride	ND		ug/kg	5.0			ND	-		
Methylene chloride	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	-		
Tetrachloroethene	ND		ug/kg	5.0			ND	-		
Toluene	ND		ug/kg	1.0			ND	-		
tert-Butylbenzene	ND		ug/kg	1.0			ND	-		
cis-1,3-Dichloropropene	ND		ug/kg	5.0			ND	-		
Chloroethane	ND		ug/kg	5.0			ND	-		
o-Xylene	ND		ug/kg	2.0			ND	-		
n-Butylbenzene	ND		ug/kg	1.0			ND	-		
Chlorobenzene	ND		ug/kg	5.0			ND	-		
Methyl ethyl ketone	ND		ug/kg	5.0			ND	-		
Chloromethane	ND		ug/kg	5.0			ND	-		
Chloroform	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		
Cyclohexane	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	-		
Isopropylbenzene	ND		ug/kg	1.0			ND	-		
m&p-Xylene	ND		ug/kg	2.0			ND	-		
Carbon tetrachloride	ND		ug/kg	5.0			ND	-		
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Surrogate: % Bromofluorobenzene	97		ug/kg		50		97	70-130		
Surrogate: % Dibromofluoromethane	98		ug/kg		50		98	70-130		
Surrogate: % 1,2-Dichlorobenzene-d4	98		ug/kg		50		98	70-130		
Surrogate: % Toluene-d8	97		ug/kg		50		97	70-130		
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<b>LCS (CC21618-LCS)</b>					Prepared: Analyzed: 31-Dec-18					
Benzene	51.39		ug/kg	1.0	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
<b>SW8260C</b>										
<b>Batch 461826A - SW8260C</b>										
<b>LCS (CC21618-LCS)</b>					Prepared: Analyzed: 31-Dec-18					
Trichloroethene	50.97		ug/kg	5.0	50		102	70-130		30
Vinyl chloride	49.20		ug/kg	5.0	50		98	70-130		30
Trichlorotrifluoroethane	52.43		ug/kg	5.0	50		105	70-130		30
Trichlorofluoromethane	51.03		ug/kg	5.0	50		102	70-130		30
1,2-Dichlorobenzene	52.19		ug/kg	5.0	50		104	70-130		30
Bromomethane	48.91		ug/kg	5.0	50		98	70-130		30
trans-1,4-dichloro-2-butene	308.7		ug/kg	5.0	250		123	70-130		30
Bromodichloromethane	57.02		ug/kg	5.0	50		114	70-130		30
Bromochloromethane	53.12		ug/kg	5.0	50		106	70-130		30
Acetone	43.69		ug/kg	10	50		87	70-130		30
4-Methyl-2-pentanone	53.12		ug/kg	25	50		106	70-130		30
2-Hexanone	49.79		ug/kg	25	50		100	70-130		30
2,2-Dichloropropane	56.74		ug/kg	5.0	50		113	70-130		30
1,4-dioxane	1049		ug/kg	100	1000		105	70-130		30
1,4-Dichlorobenzene	52.01		ug/kg	5.0	50		104	70-130		30
1,3-Dichloropropane	52.74		ug/kg	5.0	50		105	70-130		30
1,3-Dichlorobenzene	53.02		ug/kg	5.0	50		106	70-130		30
1,3,5-Trimethylbenzene	52.16		ug/kg	1.0	50		104	70-130		30
Carbon Disulfide	58.31		ug/kg	5.0	50		117	70-130		30
1,2,3-Trichlorobenzene	60.23		ug/kg	5.0	50		120	70-130		30
1,1,1,2-Tetrachloroethane	56.05		ug/kg	5.0	50		112	70-130		30
1,1,1-Trichloroethane	53.09		ug/kg	5.0	50		106	70-130		30
1,1,2,2-Tetrachloroethane	55.47		ug/kg	3.0	50		111	70-130		30
1,1,2-Trichloroethane	52.83		ug/kg	5.0	50		106	70-130		30
1,1-Dichloroethane	52.37		ug/kg	5.0	50		105	70-130		30
1,2-Dichloropropane	53.23		ug/kg	5.0	50		106	70-130		30
1,1-Dichloropropene	53.74		ug/kg	5.0	50		107	70-130		30
1,2-Dichloroethane	53.63		ug/kg	5.0	50		107	70-130		30
1,2,3-Trichloropropane	51.70		ug/kg	5.0	50		103	70-130		30
1,2,4-Trichlorobenzene	59.06		ug/kg	5.0	50		118	70-130		30
1,2,4-Trimethylbenzene	52.72		ug/kg	1.0	50		105	70-130		30
1,2-Dibromo-3-chloropropane	61.47		ug/kg	5.0	50		123	70-130		30
1,2-Dibromoethane	53.75		ug/kg	5.0	50		107	70-130		30
Bromoform	59.05		ug/kg	5.0	50		118	70-130		30
1,1-Dichloroethene	54.92		ug/kg	5.0	50		110	70-130		30
sec-Butylbenzene	54.16		ug/kg	1.0	50		108	70-130		30
Methylcyclohexane	49.09		ug/kg	5.0	50		98	70-130		30
Methylene chloride	53.19		ug/kg	5.0	50		106	70-130		30
Carbon tetrachloride	53.13		ug/kg	5.0	50		106	70-130		30
n-Butylbenzene	55.80		ug/kg	1.0	50		112	70-130		30
Bromobenzene	52.81		ug/kg	5.0	50		106	70-130		30
Methylacetate	49.32		ug/kg	5.0	50		99	70-130		30
p-Isopropyltoluene	53.78		ug/kg	1.0	50		108	70-130		30
Naphthalene	65.17		ug/kg	5.0	50		130	70-130		30
Styrene	53.87		ug/kg	5.0	50		108	70-130		30
tert-Butylbenzene	52.06		ug/kg	1.0	50		104	70-130		30
Tetrachloroethene	53.01		ug/kg	5.0	50		106	70-130		30
Toluene	51.48		ug/kg	1.0	50		103	70-130		30
trans-1,2-Dichloroethene	57.20		ug/kg	5.0	50		114	70-130		30
trans-1,3-Dichloropropene	57.13		ug/kg	5.0	50		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
<b>SW8260C</b>										
<b>Batch 461826A - SW8260C</b>										
<b>LCS (CC21618-LCS)</b>					<u>Prepared: Analyzed: 31-Dec-18</u>					
o-Xylene	53.29		ug/kg	2.0	50		107	70-130		30
Chloromethane	46.22		ug/kg	5.0	50		92	70-130		30
Chlorobenzene	52.15		ug/kg	5.0	50		104	70-130		30
n-Propylbenzene	52.53		ug/kg	1.0	50		105	70-130		30
Chloroform	51.21		ug/kg	5.0	50		102	70-130		30
Methyl t-Butyl Ether (MTBE)	51.08		ug/kg	1.0	50		102	70-130		30
cis-1,2-Dichloroethene	52.09		ug/kg	5.0	50		104	70-130		30
cis-1,3-Dichloropropene	58.54		ug/kg	5.0	50		117	70-130		30
Cyclohexane	41.74		ug/kg	5.0	50		83	70-130		30
Dibromomethane	54.10		ug/kg	5.0	50		108	70-130		30
Dichlorodifluoromethane	48.36		ug/kg	5.0	50		97	70-130		30
Ethylbenzene	51.63		ug/kg	1.0	50		103	70-130		30
Isopropylbenzene	52.07		ug/kg	1.0	50		104	70-130		30
m&p-Xylene	102.6		ug/kg	2.0	100		103	70-130		30
Methyl ethyl ketone	46.95		ug/kg	5.0	50		94	70-130		30
Dibromochloromethane	61.82		ug/kg	3.0	50		124	70-130		30
Chloroethane	52.75		ug/kg	5.0	50		106	70-130		30
Surrogate: % Toluene-d8	50.78		ug/kg		50		102	70-130		
Surrogate: % 1,2-Dichlorobenzene-d4	50.76		ug/kg		50		102	70-130		
Surrogate: % Dibromofluoromethane	51.98		ug/kg		50		104	70-130		
Surrogate: % Bromofluorobenzene	50.51		ug/kg		50		101	70-130		
<b>LCSD (CC21618-LCSD)</b>					<u>Prepared: Analyzed: 31-Dec-18</u>					
1,1,2,2-Tetrachloroethane	53.77		ug/kg	3.0	50		108	70-130	2.7	30
1,2,3-Trichlorobenzene	58.79		ug/kg	5.0	50		118	70-130	1.7	30
1,1,1,2-Tetrachloroethane	55.70		ug/kg	5.0	50		111	70-130	0.9	30
1,1,1-Trichloroethane	53.16		ug/kg	5.0	50		106	70-130	0.0	30
Dibromochloromethane	61.46		ug/kg	3.0	50		123	70-130	0.8	30
Chlorobenzene	51.55		ug/kg	5.0	50		103	70-130	1.0	30
Methyl t-Butyl Ether (MTBE)	49.15		ug/kg	1.0	50		98	70-130	4.0	30
Methyl ethyl ketone	45.50		ug/kg	5.0	50		91	70-130	3.2	30
m&p-Xylene	102.6		ug/kg	2.0	100		103	70-130	0.0	30
Isopropylbenzene	52.43		ug/kg	1.0	50		105	70-130	1.0	30
Ethylbenzene	51.24		ug/kg	1.0	50		102	70-130	1.0	30
Methylcyclohexane	48.56		ug/kg	5.0	50		97	70-130	1.0	30
Dibromomethane	53.63		ug/kg	5.0	50		107	70-130	0.9	30
Methylene chloride	50.84		ug/kg	5.0	50		102	70-130	3.8	30
Cyclohexane	41.74		ug/kg	5.0	50		83	70-130	0.0	30
cis-1,3-Dichloropropene	57.63		ug/kg	5.0	50		115	70-130	1.7	30
cis-1,2-Dichloroethene	51.43		ug/kg	5.0	50		103	70-130	1.0	30
Chloromethane	46.08		ug/kg	5.0	50		92	70-130	0.0	30
Chloroform	51.52		ug/kg	5.0	50		103	70-130	1.0	30
Chloroethane	51.11		ug/kg	5.0	50		102	70-130	3.8	30
Dichlorodifluoromethane	47.88		ug/kg	5.0	50		96	70-130	1.0	30
Tetrachloroethene	52.92		ug/kg	5.0	50		106	70-130	0.0	30
Vinyl chloride	49.62		ug/kg	5.0	50		99	70-130	1.0	30
Trichlorotrifluoroethane	51.22		ug/kg	5.0	50		102	70-130	2.9	30
Trichlorofluoromethane	49.65		ug/kg	5.0	50		99	70-130	3.0	30
Trichloroethene	50.87		ug/kg	5.0	50		102	70-130	0.0	30
trans-1,4-dichloro-2-butene	291.9		ug/kg	5.0	250		117	70-130	5.0	30
trans-1,3-Dichloropropene	56.46		ug/kg	5.0	50		113	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
<b>SW8260C</b>										
<b>Batch 461826A - SW8260C</b>										
<b>LCSD (CC21618-LCSD)</b>					Prepared: Analyzed: 31-Dec-18					
Methylacetate	43.97		ug/kg	5.0	50		88	70-130	11.8	30
Toluene	51.79		ug/kg	1.0	50		104	70-130	1.0	30
Naphthalene	62.95		ug/kg	5.0	50		126	70-130	3.1	30
tert-Butylbenzene	52.53		ug/kg	1.0	50		105	70-130	1.0	30
Styrene	53.44		ug/kg	5.0	50		107	70-130	0.9	30
sec-Butylbenzene	54.37		ug/kg	1.0	50		109	70-130	0.9	30
p-Isopropyltoluene	53.77		ug/kg	1.0	50		108	70-130	0.0	30
o-Xylene	53.10		ug/kg	2.0	50		106	70-130	0.9	30
n-Butylbenzene	55.46		ug/kg	1.0	50		111	70-130	0.9	30
trans-1,2-Dichloroethene	55.25		ug/kg	5.0	50		111	70-130	2.7	30
1,2,4-Trichlorobenzene	57.32		ug/kg	5.0	50		115	70-130	2.6	30
n-Propylbenzene	52.90		ug/kg	1.0	50		106	70-130	0.9	30
Carbon tetrachloride	53.21		ug/kg	5.0	50		106	70-130	0.0	30
1,1-Dichloroethane	52.86		ug/kg	5.0	50		106	70-130	0.9	30
1,1,2-Trichloroethane	52.30		ug/kg	5.0	50		105	70-130	0.9	30
1,1-Dichloropropene	53.58		ug/kg	5.0	50		107	70-130	0.0	30
1,2,3-Trichloropropane	49.96		ug/kg	5.0	50		100	70-130	3.0	30
1,2,4-Trimethylbenzene	53.44		ug/kg	1.0	50		107	70-130	1.9	30
1,2-Dibromo-3-chloropropane	59.42		ug/kg	5.0	50		119	70-130	3.3	30
1,2-Dibromoethane	53.66		ug/kg	5.0	50		107	70-130	0.0	30
1,2-Dichlorobenzene	52.27		ug/kg	5.0	50		105	70-130	1.0	30
1,2-Dichloroethane	52.84		ug/kg	5.0	50		106	70-130	0.9	30
1,2-Dichloropropane	53.02		ug/kg	5.0	50		106	70-130	0.0	30
1,3,5-Trimethylbenzene	52.68		ug/kg	1.0	50		105	70-130	1.0	30
1,3-Dichlorobenzene	52.48		ug/kg	5.0	50		105	70-130	0.9	30
Bromodichloromethane	55.92		ug/kg	5.0	50		112	70-130	1.8	30
Carbon Disulfide	55.88		ug/kg	5.0	50		112	70-130	4.4	30
1,1-Dichloroethene	52.80		ug/kg	5.0	50		106	70-130	3.7	30
Bromoform	57.04		ug/kg	5.0	50		114	70-130	3.4	30
1,3-Dichloropropane	51.37		ug/kg	5.0	50		103	70-130	1.9	30
Bromochloromethane	51.88		ug/kg	5.0	50		104	70-130	1.9	30
Bromobenzene	53.68		ug/kg	5.0	50		107	70-130	0.9	30
Benzene	51.17		ug/kg	1.0	50		102	70-130	1.0	30
2,2-Dichloropropane	56.85		ug/kg	5.0	50		114	70-130	0.9	30
4-Methyl-2-pentanone	49.47		ug/kg	25	50		99	70-130	6.8	30
2-Hexanone	45.78		ug/kg	25	50		92	70-130	8.3	30
1,4-Dichlorobenzene	51.92		ug/kg	5.0	50		104	70-130	0.0	30
Bromomethane	48.51		ug/kg	5.0	50		97	70-130	1.0	30
1,4-dioxane	1072		ug/kg	100	1000		107	70-130	1.9	30
Acetone	36.95		ug/kg	10	50		74	70-130	16.1	30
Surrogate: % 1,2-Dichlorobenzene-d4	50.90		ug/kg		50		102	70-130		
Surrogate: % Bromofluorobenzene	50.53		ug/kg		50		101	70-130		
Surrogate: % Dibromofluoromethane	51.90		ug/kg		50		104	70-130		
Surrogate: % Toluene-d8	50.82		ug/kg		50		102	70-130		
<b>MS (CC21618-MS)</b>			<b>Source: CC21618</b>			<b>Prepared: Analyzed: 01-Jan-19</b>				
Dibromomethane	46.90		ug/kg	5.0	50		94	70-130		30
Dichlorodifluoromethane	45.72		ug/kg	5.0	50		91	70-130		30
Ethylbenzene	48.13		ug/kg	1.0	50		96	70-130		30
Isopropylbenzene	53.02		ug/kg	1.0	50		106	70-130		30
Dibromochloromethane	53.47		ug/kg	3.0	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
<b>SW8260C</b>										
<b>Batch 461826A - SW8260C</b>										
<b>MS (CC21618-MS)</b>				<b>Source: CC21618</b>			<b>Prepared: Analyzed: 01-Jan-19</b>			
Methyl ethyl ketone	39.66		ug/kg	5.0	50		79	70-130		30
Methyl t-Butyl Ether (MTBE)	42.70		ug/kg	1.0	50		85	70-130		30
Methylacetate	11.09	m	ug/kg	5.0	50		22	70-130		30
m&p-Xylene	89.60		ug/kg	2.0	100		90	70-130		30
Cyclohexane	37.36		ug/kg	5.0	50		75	70-130		30
cis-1,3-Dichloropropene	48.30		ug/kg	5.0	50		97	70-130		30
cis-1,2-Dichloroethene	46.95		ug/kg	5.0	50		94	70-130		30
Chloroform	47.45		ug/kg	5.0	50		95	70-130		30
Chloroethane	49.86		ug/kg	5.0	50		100	70-130		30
Carbon tetrachloride	48.85		ug/kg	5.0	50		98	70-130		30
Chlorobenzene	46.95		ug/kg	5.0	50		94	60-133		30
Methylcyclohexane	40.32		ug/kg	5.0	50		81	70-130		30
Vinyl chloride	46.80		ug/kg	5.0	50		94	70-130		30
Chloromethane	43.86		ug/kg	5.0	50		88	70-130		30
tert-Butylbenzene	53.58		ug/kg	1.0	50		107	70-130		30
1,2-Dichlorobenzene	51.55		ug/kg	5.0	50		103	70-130		30
Carbon Disulfide	44.83		ug/kg	5.0	50		90	70-130		30
Trichlorotrifluoroethane	45.97		ug/kg	5.0	50		92	70-130		30
Trichloroethene	83.73	m	ug/kg	5.0	50		167	62-137		30
trans-1,4-dichloro-2-butene	264.9		ug/kg	5.0	250		106	70-130		30
trans-1,3-Dichloropropene	44.00		ug/kg	5.0	50		88	70-130		30
trans-1,2-Dichloroethene	48.45		ug/kg	5.0	50		97	70-130		30
Trichlorofluoromethane	46.71		ug/kg	5.0	50		93	70-130		30
Tetrachloroethene	46.78		ug/kg	5.0	50		94	70-130		30
Methylene chloride	49.85		ug/kg	5.0	50		100	70-130		30
Styrene	45.82		ug/kg	5.0	50		92	70-130		30
sec-Butylbenzene	55.86		ug/kg	1.0	50		112	70-130		30
p-Isopropyltoluene	54.97		ug/kg	1.0	50		110	70-130		30
o-Xylene	48.39		ug/kg	2.0	50		97	70-130		30
n-Propylbenzene	53.59		ug/kg	1.0	50		107	70-130		30
n-Butylbenzene	56.23		ug/kg	1.0	50		112	70-130		30
Naphthalene	64.85		ug/kg	5.0	50		130	70-130		30
Toluene	46.89		ug/kg	1.0	50		94	59-139		30
1,1-Dichloroethene	48.32		ug/kg	5.0	50		97	59-172		30
1,2-Dibromoethane	49.09		ug/kg	5.0	50		98	70-130		30
1,2-Dibromo-3-chloropropane	55.75		ug/kg	5.0	50		112	70-130		30
1,2,4-Trimethylbenzene	53.08		ug/kg	1.0	50		106	70-130		30
1,2,4-Trichlorobenzene	56.78		ug/kg	5.0	50		114	70-130		30
1,2,3-Trichloropropane	50.66		ug/kg	5.0	50		101	70-130		30
1,2-Dichloroethane	48.77		ug/kg	5.0	50		98	70-130		30
1,1-Dichloropropene	49.94		ug/kg	5.0	50		100	70-130		30
1,2-Dichloropropane	49.35		ug/kg	5.0	50		99	70-130		30
1,1-Dichloroethane	49.10		ug/kg	5.0	50		98	70-130		30
1,1,2-Trichloroethane	46.28		ug/kg	5.0	50		93	70-130		30
1,1,2,2-Tetrachloroethane	51.72		ug/kg	3.0	50		103	70-130		30
1,1,1-Trichloroethane	50.38		ug/kg	5.0	50		101	70-130		30
1,1,1,2-Tetrachloroethane	52.04		ug/kg	5.0	50		104	70-130		30
Bromomethane	46.30		ug/kg	5.0	50		93	70-130		30
1,2,3-Trichlorobenzene	58.91		ug/kg	5.0	50		118	70-130		30
2,2-Dichloropropane	52.08		ug/kg	5.0	50		104	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
<b>SW8260C</b>										
<b>Batch 461826A - SW8260C</b>										
<b>MS (CC21618-MS)</b>			<b>Source: CC21618</b>			<b>Prepared: Analyzed: 01-Jan-19</b>				
Bromoform	45.53		ug/kg	5.0	50		91	70-130		30
Bromodichloromethane	50.97		ug/kg	5.0	50		102	70-130		30
Bromochloromethane	47.89		ug/kg	5.0	50		96	70-130		30
Bromobenzene	51.82		ug/kg	5.0	50		104	70-130		30
Benzene	48.20		ug/kg	1.0	50		96	66-142		30
Acetone	50.98	m	ug/kg	10	50		45	70-130		30
2-Hexanone	41.02		ug/kg	25	50		82	70-130		30
1,4-dioxane	1067		ug/kg	100	1000		107	70-130		30
1,4-Dichlorobenzene	51.39		ug/kg	5.0	50		103	70-130		30
1,3-Dichloropropane	49.08		ug/kg	5.0	50		98	70-130		30
1,3-Dichlorobenzene	52.41		ug/kg	5.0	50		105	70-130		30
1,3,5-Trimethylbenzene	53.31		ug/kg	1.0	50		107	70-130		30
4-Methyl-2-pentanone	45.65		ug/kg	25	50		91	70-130		30
<hr/>										
Surrogate: % Bromofluorobenzene	50.77		ug/kg		50		102	70-130		
Surrogate: % 1,2-Dichlorobenzene-d4	50.19		ug/kg		50		100	70-130		
Surrogate: % Dibromofluoromethane	50.16		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	50.04		ug/kg		50		100	70-130		
<b>MSD (CC21618-MSD)</b>			<b>Source: CC21618</b>			<b>Prepared: Analyzed: 01-Jan-19</b>				
cis-1,2-Dichloroethene	47.18		ug/kg	5.0	50		94	70-130	0.0	30
Methyl ethyl ketone	44.21		ug/kg	5.0	50		88	70-130	10.8	30
m&p-Xylene	90.89		ug/kg	2.0	100		91	70-130	1.1	30
Isopropylbenzene	53.09		ug/kg	1.0	50		106	70-130	0.0	30
Ethylbenzene	48.02		ug/kg	1.0	50		96	70-130	0.0	30
Dichlorodifluoromethane	46.92		ug/kg	5.0	50		94	70-130	3.2	30
Dibromomethane	48.62		ug/kg	5.0	50		97	70-130	3.1	30
Dibromochloromethane	55.30		ug/kg	3.0	50		111	70-130	3.7	30
trans-1,4-dichloro-2-butene	264.4		ug/kg	5.0	250		106	70-130	0.0	30
cis-1,3-Dichloropropene	49.44		ug/kg	5.0	50		99	70-130	2.0	30
Methylcyclohexane	40.62		ug/kg	5.0	50		81	70-130	0.0	30
Chloromethane	44.51		ug/kg	5.0	50		89	70-130	1.1	30
Chloroform	48.67		ug/kg	5.0	50		97	70-130	2.1	30
Chloroethane	48.76		ug/kg	5.0	50		98	70-130	2.0	30
Chlorobenzene	47.05		ug/kg	5.0	50		94	60-133	0.0	30
Carbon tetrachloride	50.15		ug/kg	5.0	50		100	70-130	2.0	30
Carbon Disulfide	44.64		ug/kg	5.0	50		89	70-130	1.1	30
Bromomethane	46.49		ug/kg	5.0	50		93	70-130	0.0	30
Cyclohexane	37.62		ug/kg	5.0	50		75	70-130	0.0	30
sec-Butylbenzene	54.88		ug/kg	1.0	50		110	70-130	1.8	30
Trichloroethene	84.38	m	ug/kg	5.0	50		169	62-137	1.2	30
n-Butylbenzene	55.10		ug/kg	1.0	50		110	70-130	1.8	30
Bromoform	49.26		ug/kg	5.0	50		99	70-130	8.4	30
trans-1,3-Dichloropropene	47.07		ug/kg	5.0	50		94	70-130	6.6	30
trans-1,2-Dichloroethene	48.28		ug/kg	5.0	50		97	70-130	0.0	30
Toluene	47.73		ug/kg	1.0	50		95	59-139	1.1	30
Tetrachloroethene	48.61		ug/kg	5.0	50		97	70-130	3.1	30
Methyl t-Butyl Ether (MTBE)	43.21		ug/kg	1.0	50		86	70-130	1.2	30
Styrene	46.01		ug/kg	5.0	50		92	70-130	0.0	30
Methylacetate	8.940	m	ug/kg	5.0	50		18	70-130	20.0	30
p-Isopropyltoluene	54.15		ug/kg	1.0	50		108	70-130	1.8	30
Trichlorotrifluoroethane	47.04		ug/kg	5.0	50		94	70-130	2.2	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
<b>SW8260C</b>										
<b>Batch 461826A - SW8260C</b>										
<b>MSD (CC21618-MSD)</b>			<b>Source: CC21618</b>		<b>Prepared: Analyzed: 01-Jan-19</b>					
n-Propylbenzene	53.26		ug/kg	1.0	50		107	70-130	0.0	30
Vinyl chloride	46.73		ug/kg	5.0	50		93	70-130	1.1	30
Naphthalene	65.25		ug/kg	5.0	50		130	70-130	0.0	30
Methylene chloride	49.65		ug/kg	5.0	50		99	70-130	1.0	30
Trichlorofluoromethane	47.22		ug/kg	5.0	50		94	70-130	1.1	30
tert-Butylbenzene	52.68		ug/kg	1.0	50		105	70-130	1.9	30
1,2,4-Trimethylbenzene	52.54		ug/kg	1.0	50		105	70-130	0.9	30
o-Xylene	48.58		ug/kg	2.0	50		97	70-130	0.0	30
1,1,1,2-Tetrachloroethane	51.93		ug/kg	5.0	50		104	70-130	0.0	30
1,1,1-Trichloroethane	51.50		ug/kg	5.0	50		103	70-130	2.0	30
1,1,2,2-Tetrachloroethane	51.52		ug/kg	3.0	50		103	70-130	0.0	30
1,1,2-Trichloroethane	47.29		ug/kg	5.0	50		95	70-130	2.1	30
1,1-Dichloroethane	50.33		ug/kg	5.0	50		101	70-130	3.0	30
1,1-Dichloroethene	48.86		ug/kg	5.0	50		98	59-172	1.0	30
1,1-Dichloropropene	50.27		ug/kg	5.0	50		101	70-130	1.0	30
1,2,3-Trichlorobenzene	59.09		ug/kg	5.0	50		118	70-130	0.0	30
1,2,4-Trichlorobenzene	56.17		ug/kg	5.0	50		112	70-130	1.8	30
Bromodichloromethane	52.14		ug/kg	5.0	50		104	70-130	1.9	30
1,2-Dibromo-3-chloropropane	54.16		ug/kg	5.0	50		108	70-130	3.6	30
1,2-Dibromoethane	50.11		ug/kg	5.0	50		100	70-130	2.0	30
1,2-Dichlorobenzene	51.14		ug/kg	5.0	50		102	70-130	1.0	30
Acetone	52.14	m	ug/kg	10	50		47	70-130	4.3	30
Bromochloromethane	49.28		ug/kg	5.0	50		99	70-130	3.1	30
1,2,3-Trichloropropane	50.70		ug/kg	5.0	50		101	70-130	0.0	30
Benzene	48.40		ug/kg	1.0	50		97	66-142	1.0	30
1,2-Dichloroethane	50.64		ug/kg	5.0	50		101	70-130	3.0	30
4-Methyl-2-pentanone	49.42		ug/kg	25	50		99	70-130	8.4	30
2-Hexanone	44.15		ug/kg	25	50		88	70-130	7.1	30
2,2-Dichloropropane	53.02		ug/kg	5.0	50		106	70-130	1.9	30
1,4-Dichlorobenzene	50.79		ug/kg	5.0	50		102	70-130	1.0	30
1,2-Dichloropropane	49.74		ug/kg	5.0	50		99	70-130	0.0	30
1,3-Dichloropropane	49.99		ug/kg	5.0	50		100	70-130	2.0	30
1,3-Dichlorobenzene	51.99		ug/kg	5.0	50		104	70-130	1.0	30
1,3,5-Trimethylbenzene	52.20		ug/kg	1.0	50		104	70-130	2.8	30
1,4-dioxane	1085		ug/kg	100	1000		109	70-130	1.9	30
Bromobenzene	51.70		ug/kg	5.0	50		103	70-130	1.0	30
Surrogate: % Dibromofluoromethane	50.43		ug/kg		50		101	70-130		
Surrogate: % 1,2-Dichlorobenzene-d4	50.23		ug/kg		50		100	70-130		
Surrogate: % Bromofluorobenzene	50.22		ug/kg		50		100	70-130		
Surrogate: % Toluene-d8	49.70		ug/kg		50		99	70-130		

**Batch 461964A - SW8260C**

**BLK (CC21849-BLK)**

Prepared: Analyzed: 02-Jan-19

Trichloroethene	ND		ug/kg	5.0			ND	-		
cis-1,2-Dichloroethene	ND		ug/kg	5.0			ND	-		

**LCS (CC21849-LCS)**

Prepared: Analyzed: 02-Jan-19

cis-1,2-Dichloroethene	55.23		ug/kg	5.0	50		110	70-130		30
Trichloroethene	55.65		ug/kg	5.0	50		111	70-130		30

**LCSD (CC21849-LCSD)**

Prepared: Analyzed: 02-Jan-19

Trichloroethene	54.18		ug/kg	5.0	50		108	70-130	2.7	30
cis-1,2-Dichloroethene	53.99		ug/kg	5.0	50		108	70-130	1.8	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
<b>SW8260C</b>										
<b>Batch 461964A - SW8260C</b>										
<b>MS (CC21849-MS)</b>			<b>Source: CC21849</b>		<b>Prepared: Analyzed: 02-Jan-19</b>					
cis-1,2-Dichloroethene	46.29		ug/kg	5.0	50		93	70-130		30
Trichloroethene	48.20		ug/kg	5.0	50		96	62-137		30
<b>MSD (CC21849-MSD)</b>			<b>Source: CC21849</b>		<b>Prepared: Analyzed: 02-Jan-19</b>					
cis-1,2-Dichloroethene	40.65		ug/kg	5.0	50		81	70-130	13.8	30
Trichloroethene	40.66		ug/kg	5.0	50		81	62-137	16.9	30
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>BLK (CC21618-BLK)</b>			<b>Prepared: 28-Dec-18 Analyzed: 29-Dec-18</b>							
4-Nitrophenol	ND		ug/kg	230			ND	-		
3-Nitroaniline	ND		ug/kg	330			ND	-		
4,6-Dinitro-2-methylphenol	ND		ug/kg	230			ND	-		
4-Bromophenyl phenyl ether	ND		ug/kg	230			ND	-		
4-Chloro-3-methylphenol	ND		ug/kg	230			ND	-		
4-Chloroaniline	ND		ug/kg	230			ND	-		
3,3'-Dichlorobenzidine	ND		ug/kg	130			ND	-		
4-Nitroaniline	ND		ug/kg	230			ND	-		
Acenaphthene	ND		ug/kg	230			ND	-		
Acenaphthylene	ND		ug/kg	130			ND	-		
Acetophenone	ND		ug/kg	230			ND	-		
Anthracene	ND		ug/kg	230			ND	-		
Atrazine	ND		ug/kg	130			ND	-		
Benz(a)anthracene	ND		ug/kg	230			ND	-		
4-Chlorophenyl phenyl ether	ND		ug/kg	230			ND	-		
2,6-Dinitrotoluene	ND		ug/kg	130			ND	-		
Benzaldehyde	ND		ug/kg	230			ND	-		
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230			ND	-		
2,3,4,6-tetrachlorophenol	ND		ug/kg	230			ND	-		
2,4,5-Trichlorophenol	ND		ug/kg	230			ND	-		
2,4,6-Trichlorophenol	ND		ug/kg	130			ND	-		
2,4-Dichlorophenol	ND		ug/kg	130			ND	-		
2,4-Dimethylphenol	ND		ug/kg	230			ND	-		
3&4-Methylphenol (m&p-cresol)	ND		ug/kg	230			ND	-		
2,4-Dinitrotoluene	ND		ug/kg	130			ND	-		
1,1-Biphenyl	ND		ug/kg	230			ND	-		
2-Chloronaphthalene	ND		ug/kg	230			ND	-		
2-Chlorophenol	ND		ug/kg	230			ND	-		
2-Methylnaphthalene	ND		ug/kg	230			ND	-		
2-Methylphenol (o-cresol)	ND		ug/kg	230			ND	-		
2-Nitroaniline	ND		ug/kg	330			ND	-		
Fluorene	ND		ug/kg	230			ND	-		
2-Nitrophenol	ND		ug/kg	230			ND	-		
2,4-Dinitrophenol	ND		ug/kg	230			ND	-		
N-Nitrosodimethylamine	ND		ug/kg	230			ND	-		
Di-n-octylphthalate	ND		ug/kg	230			ND	-		
Hexachlorobutadiene	ND		ug/kg	230			ND	-		
Hexachlorocyclopentadiene	ND		ug/kg	230			ND	-		
Hexachloroethane	ND		ug/kg	130			ND	-		
Indeno(1,2,3-cd)pyrene	ND		ug/kg	230			ND	-		
Isophorone	ND		ug/kg	130			ND	-		
Hexachlorobenzene	ND		ug/kg	130			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
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>BLK (CC21618-BLK)</b>										
						Prepared: 28-Dec-18 Analyzed: 29-Dec-18				
Nitrobenzene	ND		ug/kg	130			ND	-		
Fluoranthene	ND		ug/kg	230			ND	-		
N-Nitrosodi-n-propylamine	ND		ug/kg	130			ND	-		
N-Nitrosodiphenylamine	ND		ug/kg	130			ND	-		
Pentachlorophenol	ND		ug/kg	230			ND	-		
Phenanthrene	ND		ug/kg	130			ND	-		
Phenol	ND		ug/kg	230			ND	-		
Pyrene	ND		ug/kg	230			ND	-		
Naphthalene	ND		ug/kg	230			ND	-		
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230			ND	-		
Benzo(b)fluoranthene	ND		ug/kg	160			ND	-		
Benzo(ghi)perylene	ND		ug/kg	230			ND	-		
Benzo(k)fluoranthene	ND		ug/kg	230			ND	-		
Benzyl butyl phthalate	ND		ug/kg	230			ND	-		
Bis(2-chloroethoxy)methane	ND		ug/kg	230			ND	-		
Bis(2-chloroisopropyl)ether	ND		ug/kg	230			ND	-		
Benzo(a)pyrene	ND		ug/kg	130			ND	-		
Caprolactam	ND		ug/kg	230			ND	-		
Carbazole	ND		ug/kg	230			ND	-		
Chrysene	ND		ug/kg	230			ND	-		
Dibenz(a,h)anthracene	ND		ug/kg	130			ND	-		
Dibenzofuran	ND		ug/kg	230			ND	-		
Diethyl phthalate	ND		ug/kg	230			ND	-		
Dimethylphthalate	ND		ug/kg	230			ND	-		
Di-n-butylphthalate	ND		ug/kg	670			ND	-		
Bis(2-chloroethyl)ether	ND		ug/kg	130			ND	-		
<i>Surrogate: % 2-Fluorobiphenyl</i>	70		ug/kg		50		70	30-130		
<i>Surrogate: % Terphenyl-d14</i>	72		ug/kg		50		72	30-130		
<i>Surrogate: % Phenol-d5</i>	72		ug/kg		75		72	30-130		
<i>Surrogate: % Nitrobenzene-d5</i>	69		ug/kg		50		69	30-130		
<i>Surrogate: % 2-Fluorophenol</i>	70		ug/kg		75		70	30-130		
<i>Surrogate: % 2,4,6-Tribromophenol</i>	58		ug/kg		75		58	30-130		
<b>LCS (CC21618-LCS)</b>										
						Prepared: 28-Dec-18 Analyzed: 29-Dec-18				
Bis(2-chloroethoxy)methane	36.47		ug/kg	230	50		73	30-130		30
Dibenzofuran	38.29		ug/kg	230	50		77	30-130		30
Dibenz(a,h)anthracene	43.00		ug/kg	130	50		86	30-130		30
Chrysene	39.08		ug/kg	230	50		78	30-130		30
Carbazole	41.00		ug/kg	230	50		82	30-130		30
Caprolactam	41.12		ug/kg	230	50		82	30-130		30
Bis(2-ethylhexyl)phthalate	46.40		ug/kg	230	50		93	30-130		30
Atrazine	39.31		ug/kg	130	50		79	30-130		30
Bis(2-chloroethyl)ether	29.38		ug/kg	130	50		59	30-130		30
Fluoranthene	41.29		ug/kg	230	50		83	30-130		30
Benzyl butyl phthalate	44.61		ug/kg	230	50		89	30-130		30
Benzo(k)fluoranthene	40.71		ug/kg	230	50		81	30-130		30
Benzo(ghi)perylene	39.12		ug/kg	230	50		78	30-130		30
Benzo(b)fluoranthene	40.92		ug/kg	160	50		82	30-130		30
Benzo(a)pyrene	40.56		ug/kg	130	50		81	30-130		30
Benzaldehyde	7.766	l	ug/kg	230	50		16	30-130		30
Benz(a)anthracene	39.87		ug/kg	230	50		80	30-130		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
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>LCS (CC21618-LCS)</b>										
						Prepared: 28-Dec-18 Analyzed: 29-Dec-18				
Bis(2-chloroisopropyl)ether	28.70		ug/kg	230	50		57	30-130		30
Isophorone	33.31		ug/kg	130	50		67	30-130		30
Pyrene	42.03		ug/kg	230	50		84	30-130		30
Phenol	41.38		ug/kg	230	50		83	30-130		30
Phenanthrene	38.16		ug/kg	130	50		76	30-130		30
Pentachlorophenol	38.30		ug/kg	230	50		77	30-130		30
N-Nitrosodiphenylamine	40.88		ug/kg	130	50		82	30-130		30
N-Nitrosodi-n-propylamine	36.92		ug/kg	130	50		74	30-130		30
N-Nitrosodimethylamine	32.95		ug/kg	230	50		66	30-130		30
Diethyl phthalate	40.28		ug/kg	230	50		81	30-130		30
Naphthalene	33.26		ug/kg	230	50		67	30-130		30
Di-n-butylphthalate	43.94		ug/kg	670	50		88	30-130		30
Indeno(1,2,3-cd)pyrene	43.01		ug/kg	230	50		86	30-130		30
Hexachloroethane	30.52		ug/kg	130	50		61	30-130		30
Hexachlorocyclopentadiene	30.17		ug/kg	230	50		60	30-130		30
Hexachlorobutadiene	32.07		ug/kg	230	50		64	30-130		30
Hexachlorobenzene	38.68		ug/kg	130	50		77	30-130		30
Fluorene	39.58		ug/kg	230	50		79	30-130		30
Dimethylphthalate	40.69		ug/kg	230	50		81	30-130		30
Nitrobenzene	34.58		ug/kg	130	50		69	30-130		30
2-Methylphenol (o-cresol)	39.63		ug/kg	230	50		79	30-130		30
Anthracene	39.56		ug/kg	230	50		79	30-130		30
1,1-Biphenyl	35.10		ug/kg	230	50		70	30-130		30
1,2,4,5-Tetrachlorobenzene	34.02		ug/kg	230	50		68	30-130		30
2,3,4,6-tetrachlorophenol	37.40		ug/kg	230	50		75	30-130		30
2,4,5-Trichlorophenol	42.82		ug/kg	230	50		86	30-130		30
2,4,6-Trichlorophenol	40.72		ug/kg	130	50		81	30-130		30
2,4-Dichlorophenol	38.81		ug/kg	130	50		78	30-130		30
2,4-Dimethylphenol	36.21		ug/kg	230	50		72	30-130		30
2,4-Dinitrophenol	10.18	I	ug/kg	230	50		20	30-130		30
2,4-Dinitrotoluene	42.49		ug/kg	130	50		85	30-130		30
2,6-Dinitrotoluene	41.72		ug/kg	130	50		83	30-130		30
2-Chloronaphthalene	37.59		ug/kg	230	50		75	30-130		30
2-Chlorophenol	36.82		ug/kg	230	50		74	30-130		30
2-Methylnaphthalene	35.05		ug/kg	230	50		70	30-130		30
4,6-Dinitro-2-methylphenol	21.44		ug/kg	230	50		43	30-130		30
Acetophenone	33.41		ug/kg	230	50		67	30-130		30
Acenaphthylene	37.08		ug/kg	130	50		74	30-130		30
Acenaphthene	37.94		ug/kg	230	50		76	30-130		30
4-Nitrophenol	44.23		ug/kg	230	50		88	30-130		30
4-Nitroaniline	42.40		ug/kg	230	50		85	30-130		30
4-Chlorophenyl phenyl ether	39.53		ug/kg	230	50		79	30-130		30
4-Chloroaniline	28.27		ug/kg	230	50		57	30-130		30
Di-n-octylphthalate	46.02		ug/kg	230	50		92	30-130		30
4-Bromophenyl phenyl ether	40.30		ug/kg	230	50		81	30-130		30
2-Nitroaniline	63.44		ug/kg	330	50		127	30-130		30
3-Nitroaniline	45.89		ug/kg	330	50		92	30-130		30
3,3'-Dichlorobenzidine	37.93		ug/kg	130	50		76	30-130		30
3&4-Methylphenol (m&p-cresol)	39.50		ug/kg	230	50		79	30-130		30
2-Nitrophenol	38.20		ug/kg	230	50		76	30-130		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
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>LCS (CC21618-LCS)</b>					Prepared: 28-Dec-18 Analyzed: 29-Dec-18					
4-Chloro-3-methylphenol	<b>41.50</b>		ug/kg	230	50		83	30-130		30
Surrogate: % 2,4,6-Tribromophenol	59.87		ug/kg		75		80	30-130		
Surrogate: % 2-Fluorophenol	53.05		ug/kg		75		71	30-130		
Surrogate: % 2-Fluorobiphenyl	35.87		ug/kg		50		72	30-130		
Surrogate: % Phenol-d5	54.31		ug/kg		75		72	30-130		
Surrogate: % Terphenyl-d14	37.06		ug/kg		50		74	30-130		
Surrogate: % Nitrobenzene-d5	34.37		ug/kg		50		69	30-130		
<b>LCSD (CC21618-LCSD)</b>					Prepared: 28-Dec-18 Analyzed: 29-Dec-18					
Bis(2-chloroethyl)ether	<b>28.96</b>		ug/kg	130	50		58	30-130	1.7	30
Dimethylphthalate	<b>36.64</b>		ug/kg	230	50		73	30-130	10.4	30
Diethyl phthalate	<b>36.97</b>		ug/kg	230	50		74	30-130	9.0	30
Dibenzofuran	<b>35.40</b>		ug/kg	230	50		71	30-130	8.1	30
Dibenz(a,h)anthracene	<b>39.17</b>		ug/kg	130	50		78	30-130	9.8	30
Chrysene	<b>36.56</b>		ug/kg	230	50		73	30-130	6.6	30
Carbazole	<b>38.00</b>		ug/kg	230	50		76	30-130	7.6	30
Caprolactam	<b>38.36</b>		ug/kg	230	50		77	30-130	6.3	30
Di-n-butylphthalate	<b>40.09</b>		ug/kg	670	50		80	30-130	9.5	30
Bis(2-chloroisopropyl)ether	<b>28.07</b>		ug/kg	230	50		56	30-130	1.8	30
Fluorene	<b>36.26</b>		ug/kg	230	50		73	30-130	7.9	30
Bis(2-chloroethoxy)methane	<b>34.27</b>		ug/kg	230	50		69	30-130	5.6	30
Benzyl butyl phthalate	<b>40.62</b>		ug/kg	230	50		81	30-130	9.4	30
Benzo(k)fluoranthene	<b>37.45</b>		ug/kg	230	50		75	30-130	7.7	30
Benzo(ghi)perylene	<b>36.20</b>		ug/kg	230	50		72	30-130	8.0	30
Benzo(b)fluoranthene	<b>37.93</b>		ug/kg	160	50		76	30-130	7.6	30
Benzo(a)pyrene	<b>37.61</b>		ug/kg	130	50		75	30-130	7.7	30
Benzaldehyde	<b>7.567</b>		ug/kg	230	50		15	30-130	6.5	30
Bis(2-ethylhexyl)phthalate	<b>42.02</b>		ug/kg	230	50		84	30-130	10.2	30
Naphthalene	<b>32.12</b>		ug/kg	230	50		64	30-130	4.6	30
Benz(a)anthracene	<b>36.99</b>		ug/kg	230	50		74	30-130	7.8	30
4-Nitrophenol	<b>40.32</b>		ug/kg	230	50		81	30-130	8.3	30
Phenol	<b>39.83</b>		ug/kg	230	50		80	30-130	3.7	30
Phenanthrene	<b>35.40</b>		ug/kg	130	50		71	30-130	6.8	30
Pentachlorophenol	<b>30.96</b>		ug/kg	230	50		62	30-130	21.6	30
N-Nitrosodiphenylamine	<b>36.83</b>		ug/kg	130	50		74	30-130	10.3	30
N-Nitrosodi-n-propylamine	<b>35.75</b>		ug/kg	130	50		71	30-130	4.1	30
Di-n-octylphthalate	<b>42.37</b>		ug/kg	230	50		85	30-130	7.9	30
Nitrobenzene	<b>33.76</b>		ug/kg	130	50		68	30-130	1.5	30
Pyrene	<b>39.06</b>		ug/kg	230	50		78	30-130	7.4	30
Isophorone	<b>31.70</b>		ug/kg	130	50		63	30-130	6.2	30
Indeno(1,2,3-cd)pyrene	<b>39.36</b>		ug/kg	230	50		79	30-130	8.5	30
Hexachloroethane	<b>30.06</b>		ug/kg	130	50		60	30-130	1.7	30
Hexachlorocyclopentadiene	<b>30.22</b>		ug/kg	230	50		60	30-130	0.0	30
Hexachlorobutadiene	<b>31.49</b>		ug/kg	230	50		63	30-130	1.6	30
Hexachlorobenzene	<b>36.38</b>		ug/kg	130	50		73	30-130	5.3	30
Fluoranthene	<b>38.17</b>		ug/kg	230	50		76	30-130	8.8	30
N-Nitrosodimethylamine	<b>32.49</b>		ug/kg	230	50		65	30-130	1.5	30
2-Nitrophenol	<b>36.33</b>		ug/kg	230	50		73	30-130	4.0	30
1,1-Biphenyl	<b>32.61</b>		ug/kg	230	50		65	30-130	7.4	30
1,2,4,5-Tetrachlorobenzene	<b>32.75</b>		ug/kg	230	50		66	30-130	3.0	30
2,3,4,6-tetrachlorophenol	<b>31.89</b>		ug/kg	230	50		64	30-130	15.8	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
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>LCSD (CC21618-LCSD)</b>					Prepared: 28-Dec-18 Analyzed: 29-Dec-18					
2,4,5-Trichlorophenol	38.96		ug/kg	230	50		78	30-130	9.8	30
2,4,6-Trichlorophenol	37.43		ug/kg	130	50		75	30-130	7.7	30
2,4-Dichlorophenol	36.41		ug/kg	130	50		73	30-130	6.6	30
2,4-Dimethylphenol	35.99		ug/kg	230	50		72	30-130	0.0	30
2,4-Dinitrophenol	10.03	I	ug/kg	230	50		20	30-130	0.0	30
2,4-Dinitrotoluene	38.52		ug/kg	130	50		77	30-130	9.9	30
2,6-Dinitrotoluene	37.93		ug/kg	130	50		76	30-130	8.8	30
2-Chloronaphthalene	34.93		ug/kg	230	50		70	30-130	6.9	30
2-Chlorophenol	35.35		ug/kg	230	50		71	30-130	4.1	30
2-Methylnaphthalene	33.42		ug/kg	230	50		67	30-130	4.4	30
2-Nitroaniline	57.35		ug/kg	330	50		115	30-130	9.9	30
4-Chloroaniline	27.86		ug/kg	230	50		56	30-130	1.8	30
Anthracene	36.30		ug/kg	230	50		73	30-130	7.9	30
Acetophenone	32.21		ug/kg	230	50		64	30-130	4.6	30
Acenaphthylene	34.32		ug/kg	130	50		69	30-130	7.0	30
Acenaphthene	35.17		ug/kg	230	50		70	30-130	8.2	30
Atrazine	36.18		ug/kg	130	50		72	30-130	9.3	30
2-Methylphenol (o-cresol)	38.74		ug/kg	230	50		77	30-130	2.6	30
4-Chlorophenyl phenyl ether	36.65		ug/kg	230	50		73	30-130	7.9	30
4-Chloro-3-methylphenol	38.52		ug/kg	230	50		77	30-130	7.5	30
4-Bromophenyl phenyl ether	37.37		ug/kg	230	50		75	30-130	7.7	30
4,6-Dinitro-2-methylphenol	22.83		ug/kg	230	50		46	30-130	6.7	30
3-Nitroaniline	42.06		ug/kg	330	50		84	30-130	9.1	30
3,3'-Dichlorobenzidine	37.34		ug/kg	130	50		75	30-130	1.3	30
3&4-Methylphenol (m&p-cresol)	37.86		ug/kg	230	50		76	30-130	3.9	30
4-Nitroaniline	39.41		ug/kg	230	50		79	30-130	7.3	30
Surrogate: % Nitrobenzene-d5	32.89		ug/kg		50		66	30-130		
Surrogate: % 2-Fluorophenol	51.11		ug/kg		75		68	30-130		
Surrogate: % 2,4,6-Tribromophenol	54.04		ug/kg		75		72	30-130		
Surrogate: % Phenol-d5	51.09		ug/kg		75		68	30-130		
Surrogate: % Terphenyl-d14	34.30		ug/kg		50		69	30-130		
Surrogate: % 2-Fluorobiphenyl	32.70		ug/kg		50		65	30-130		
<b>MS (CC21618-MS)</b>				<b>Source: CC21618</b>		Prepared: 28-Dec-18 Analyzed: 29-Dec-18				
Bis(2-ethylhexyl)phthalate	43.57		ug/kg	230	50		87	30-130		30
Di-n-octylphthalate	44.39		ug/kg	230	50		89	30-130		30
Di-n-butylphthalate	40.46		ug/kg	670	50		81	30-130		30
Dimethylphthalate	37.56		ug/kg	230	50		75	30-130		30
Diethyl phthalate	37.61		ug/kg	230	50		75	30-130		30
Dibenzofuran	36.93		ug/kg	230	50		74	30-130		30
Dibenz(a,h)anthracene	41.71		ug/kg	130	50		83	30-130		30
Chrysene	43.24		ug/kg	230	50		82	30-130		30
Caprolactam	39.30		ug/kg	230	50		79	30-130		30
Phenanthrene	41.93		ug/kg	130	50		79	30-130		30
Bis(2-chloroisopropyl)ether	25.29		ug/kg	230	50		51	30-130		30
Bis(2-chloroethyl)ether	26.25		ug/kg	130	50		53	30-130		30
Bis(2-chloroethoxy)methane	32.50		ug/kg	230	50		65	30-130		30
Benzyl butyl phthalate	42.82		ug/kg	230	50		86	30-130		30
Benzo(k)fluoranthene	39.27		ug/kg	230	50		79	30-130		30
Carbazole	39.56		ug/kg	230	50		79	30-130		30
Indeno(1,2,3-cd)pyrene	41.53		ug/kg	230	50		79	30-130		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
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>MS (CC21618-MS)</b>				<b>Source: CC21618</b>				<b>Prepared: 28-Dec-18 Analyzed: 29-Dec-18</b>		
Benzo(ghi)perylene	36.27		ug/kg	230	50		69	30-130		30
Pentachlorophenol	36.48		ug/kg	230	50		73	17-109		30
N-Nitrosodiphenylamine	39.57		ug/kg	130	50		79	30-130		30
N-Nitrosodi-n-propylamine	32.26		ug/kg	130	50		65	30-130		30
N-Nitrosodimethylamine	28.30		ug/kg	230	50		57	30-130		30
Nitrobenzene	30.98		ug/kg	130	50		62	30-130		30
Phenol	36.84		ug/kg	230	50		74	26-90		30
Isophorone	29.75		ug/kg	130	50		59	30-130		30
Fluoranthene	44.23		ug/kg	230	50		81	30-130		30
Hexachloroethane	26.07		ug/kg	130	50		52	30-130		30
Hexachlorocyclopentadiene	7.247	m	ug/kg	230	50		14	30-130		30
Hexachlorobutadiene	30.45		ug/kg	230	50		61	30-130		30
Hexachlorobenzene	37.13		ug/kg	130	50		74	30-130		30
Fluorene	38.16		ug/kg	230	50		76	30-130		30
2-Methylphenol (o-cresol)	35.77		ug/kg	230	50		72	30-130		30
Naphthalene	31.32		ug/kg	230	50		63	30-130		30
2,4,6-Trichlorophenol	37.15		ug/kg	130	50		74	30-130		30
2-Nitrophenol	35.44		ug/kg	230	50		71	30-130		30
2-Chlorophenol	31.75		ug/kg	230	50		63	25-102		30
2-Chloronaphthalene	35.24		ug/kg	230	50		70	30-130		30
2,6-Dinitrotoluene	39.29		ug/kg	130	50		79	30-130		30
2,4-Dinitrotoluene	40.41		ug/kg	130	50		81	28-89		30
2,4-Dinitrophenol	25.69	r	ug/kg	230	50		51	30-130		30
2-Nitroaniline	61.34		ug/kg	330	50		123	30-130		30
2,4-Dichlorophenol	36.41		ug/kg	130	50		73	30-130		30
3&4-Methylphenol (m&p-cresol)	35.83		ug/kg	230	50		72	30-130		30
2,4,5-Trichlorophenol	40.21		ug/kg	230	50		80	30-130		30
2,3,4,6-tetrachlorophenol	33.07		ug/kg	230	50		66	30-130		30
1,2,4,5-Tetrachlorobenzene	33.66		ug/kg	230	50		67	30-130		30
1,1-Biphenyl	33.03		ug/kg	230	50		66	30-130		30
Anthracene	38.19		ug/kg	230	50		76	30-130		30
Pyrene	46.11		ug/kg	230	50		86	35-142		30
2,4-Dimethylphenol	38.09		ug/kg	230	50		76	30-130		30
4-Chlorophenyl phenyl ether	37.79		ug/kg	230	50		76	30-130		30
Benzo(a)pyrene	43.11		ug/kg	130	50		82	30-130		30
Benzaldehyde	57.72		ug/kg	230	50		115	30-130		30
Benz(a)anthracene	44.34		ug/kg	230	50		85	30-130		30
Atrazine	36.51		ug/kg	130	50		73	30-130		30
Acetophenone	29.58		ug/kg	230	50		59	30-130		30
Acenaphthene	36.88		ug/kg	230	50		74	31-137		30
2-Methylnaphthalene	34.00		ug/kg	230	50		68	30-130		30
4-Nitroaniline	40.60		ug/kg	230	50		81	30-130		30
Benzo(b)fluoranthene	42.91		ug/kg	160	50		82	30-130		30
4-Chloroaniline	35.41		ug/kg	230	50		71	30-130		30
4-Chloro-3-methylphenol	41.30		ug/kg	230	50		83	26-103		30
4-Bromophenyl phenyl ether	38.52		ug/kg	230	50		77	30-130		30
4,6-Dinitro-2-methylphenol	34.56	r	ug/kg	230	50		69	30-130		30
3-Nitroaniline	50.37		ug/kg	330	50		101	30-130		30
3,3'-Dichlorobenzidine	56.35		ug/kg	130	50		113	30-130		30
4-Nitrophenol	38.83		ug/kg	230	50		78	11-114		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
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>MS (CC21618-MS)</b>			<b>Source: CC21618</b>		<b>Prepared: 28-Dec-18</b>		<b>Analyzed: 29-Dec-18</b>			
Acenaphthylene	<b>35.58</b>		ug/kg	130	50		71	30-130		30
Surrogate: % 2-Fluorophenol	45.28		ug/kg		75		60	30-130		
Surrogate: % 2-Fluorobiphenyl	32.54		ug/kg		50		65	30-130		
Surrogate: % Nitrobenzene-d5	30.30		ug/kg		50		61	30-130		
Surrogate: % Phenol-d5	46.50		ug/kg		75		62	30-130		
Surrogate: % Terphenyl-d14	33.44		ug/kg		50		67	30-130		
Surrogate: % 2,4,6-Tribromophenol	54.15		ug/kg		75		72	30-130		
<b>MSD (CC21618-MSD)</b>			<b>Source: CC21618</b>		<b>Prepared: 28-Dec-18</b>		<b>Analyzed: 30-Dec-18</b>			
Carbazole	<b>37.72</b>		ug/kg	230	50		75	30-130	5.2	30
Fluoranthene	<b>45.46</b>		ug/kg	230	50		84	30-130	3.6	30
Di-n-octylphthalate	<b>41.70</b>		ug/kg	230	50		83	30-130	7.0	30
Di-n-butylphthalate	<b>38.51</b>		ug/kg	670	50		77	30-130	5.1	30
Dimethylphthalate	<b>35.12</b>		ug/kg	230	50		70	30-130	6.9	30
Diethyl phthalate	<b>35.42</b>		ug/kg	230	50		71	30-130	5.5	30
Dibenzofuran	<b>35.18</b>		ug/kg	230	50		70	30-130	5.6	30
Benzo(k)fluoranthene	<b>37.89</b>		ug/kg	230	50		76	30-130	3.9	30
Chrysene	<b>39.26</b>		ug/kg	230	50		74	30-130	10.3	30
Hexachlorocyclopentadiene	<b>3.552</b>	m	ug/kg	230	50		<10	30-130	NC	30
Caprolactam	<b>34.42</b>		ug/kg	230	50		69	30-130	13.5	30
Bis(2-ethylhexyl)phthalate	<b>40.91</b>		ug/kg	230	50		82	30-130	5.9	30
Bis(2-chloroisopropyl)ether	<b>25.32</b>		ug/kg	230	50		51	30-130	0.0	30
Bis(2-chloroethyl)ether	<b>25.96</b>		ug/kg	130	50		52	30-130	1.9	30
Bis(2-chloroethoxy)methane	<b>31.35</b>		ug/kg	230	50		63	30-130	3.1	30
Benzyl butyl phthalate	<b>40.87</b>		ug/kg	230	50		82	30-130	4.8	30
Dibenz(a,h)anthracene	<b>36.39</b>		ug/kg	130	50		73	30-130	12.8	30
N-Nitrosodi-n-propylamine	<b>31.18</b>		ug/kg	130	50		62	30-130	4.7	30
2,3,4,6-tetrachlorophenol	<b>30.29</b>		ug/kg	230	50		61	30-130	7.9	30
1,2,4,5-Tetrachlorobenzene	<b>31.62</b>		ug/kg	230	50		63	30-130	6.2	30
1,1-Biphenyl	<b>31.97</b>		ug/kg	230	50		64	30-130	3.1	30
Pyrene	<b>44.44</b>		ug/kg	230	50		82	35-142	4.8	30
Phenol	<b>35.80</b>		ug/kg	230	50		72	26-90	2.7	30
Phenanthrene	<b>42.78</b>		ug/kg	130	50		80	30-130	1.3	30
Fluorene	<b>36.56</b>		ug/kg	230	50		73	30-130	4.0	30
N-Nitrosodiphenylamine	<b>37.59</b>		ug/kg	130	50		75	30-130	5.2	30
Hexachlorobenzene	<b>33.66</b>		ug/kg	130	50		67	30-130	9.9	30
N-Nitrosodimethylamine	<b>27.80</b>		ug/kg	230	50		56	30-130	1.8	30
Nitrobenzene	<b>30.59</b>		ug/kg	130	50		61	30-130	1.6	30
Naphthalene	<b>30.73</b>		ug/kg	230	50		61	30-130	3.2	30
Isophorone	<b>28.57</b>		ug/kg	130	50		57	30-130	3.4	30
Indeno(1,2,3-cd)pyrene	<b>36.18</b>		ug/kg	230	50		68	30-130	15.0	30
Hexachlorobutadiene	<b>29.50</b>		ug/kg	230	50		59	30-130	3.3	30
Pentachlorophenol	<b>31.94</b>		ug/kg	230	50		64	17-109	13.1	30
2-Chloronaphthalene	<b>33.67</b>		ug/kg	230	50		67	30-130	4.4	30
3-Nitroaniline	<b>47.89</b>		ug/kg	330	50		96	30-130	5.1	30
3,3'-Dichlorobenzidine	<b>54.53</b>		ug/kg	130	50		109	30-130	3.6	30
3&4-Methylphenol (m&p-cresol)	<b>33.42</b>		ug/kg	230	50		67	30-130	7.2	30
2-Nitrophenol	<b>33.70</b>		ug/kg	230	50		67	30-130	5.8	30
2-Nitroaniline	<b>57.50</b>		ug/kg	330	50		115	30-130	6.7	30
2-Methylphenol (o-cresol)	<b>34.70</b>		ug/kg	230	50		69	30-130	4.3	30
4,6-Dinitro-2-methylphenol	<b>23.97</b>	r	ug/kg	230	50		48	30-130	35.9	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
<b>SW8270D</b>										
<b>Batch 461562A - SW3545A</b>										
<b>MSD (CC21618-MSD)</b>				<b>Source: CC21618</b>				<b>Prepared: 28-Dec-18 Analyzed: 30-Dec-18</b>		
2-Chlorophenol	31.15		ug/kg	230	50		62	25-102	1.6	30
2,6-Dinitrotoluene	37.34		ug/kg	130	50		75	30-130	5.2	30
2,4,6-Trichlorophenol	34.70		ug/kg	130	50		69	30-130	7.0	30
2,4-Dinitrotoluene	38.15		ug/kg	130	50		76	28-89	6.4	30
2,4-Dimethylphenol	36.87		ug/kg	230	50		74	30-130	2.7	30
2,4-Dichlorophenol	34.22		ug/kg	130	50		68	30-130	7.1	30
Benzo(ghi)perylene	30.34		ug/kg	230	50		57	30-130	19.0	30
Hexachloroethane	25.41		ug/kg	130	50		51	30-130	1.9	30
2,4,5-Trichlorophenol	36.42		ug/kg	230	50		73	30-130	9.2	30
2-Methylnaphthalene	32.77		ug/kg	230	50		66	30-130	3.0	30
Benzaldehyde	65.59	m	ug/kg	230	50		131	30-130	13.0	30
Benzo(b)fluoranthene	39.81		ug/kg	160	50		76	30-130	7.6	30
2,4-Dinitrophenol	15.10	r	ug/kg	230	50		30	30-130	51.9	30
Benzo(a)pyrene	39.06		ug/kg	130	50		74	30-130	10.3	30
4-Bromophenyl phenyl ether	36.79		ug/kg	230	50		74	30-130	4.0	30
Benz(a)anthracene	40.99		ug/kg	230	50		78	30-130	8.6	30
Atrazine	34.64		ug/kg	130	50		69	30-130	5.6	30
Anthracene	37.85		ug/kg	230	50		76	30-130	0.0	30
Acetophenone	28.83		ug/kg	230	50		58	30-130	1.7	30
4-Chloro-3-methylphenol	38.03		ug/kg	230	50		76	26-103	8.8	30
Acenaphthene	35.16		ug/kg	230	50		70	31-137	5.6	30
4-Nitrophenol	34.51		ug/kg	230	50		69	11-114	12.2	30
Acenaphthylene	33.49		ug/kg	130	50		67	30-130	5.8	30
4-Nitroaniline	39.05		ug/kg	230	50		78	30-130	3.8	30
4-Chloroaniline	33.19		ug/kg	230	50		66	30-130	7.3	30
4-Chlorophenyl phenyl ether	36.09		ug/kg	230	50		72	30-130	5.4	30
Surrogate: % 2-Fluorobiphenyl	31.25		ug/kg		50		62	30-130		
Surrogate: % 2,4,6-Tribromophenol	50.75		ug/kg		75		68	30-130		
Surrogate: % 2-Fluorophenol	44.90		ug/kg		75		60	30-130		
Surrogate: % Terphenyl-d14	31.79		ug/kg		50		64	30-130		
Surrogate: % Nitrobenzene-d5	29.76		ug/kg		50		60	30-130		
Surrogate: % Phenol-d5	45.38		ug/kg		75		61	30-130		
<b>Batch 461615A - SW3520C</b>										
<b>BLK (CC21515-BLK)</b>								<b>Prepared: 28-Dec-18 Analyzed: 03-Jan-19</b>		
4-Chloro-3-methylphenol	ND		ug/L	1.0			ND	-		
Isophorone	ND		ug/L	3.5			ND	-		
Indeno(1,2,3-cd)pyrene	ND		ug/L	3.5			ND	-		
2-Nitrophenol	ND		ug/L	1.0			ND	-		
3&4-Methylphenol (m&p-cresol)	ND		ug/L	1.0			ND	-		
3,3'-Dichlorobenzidine	ND		ug/L	5.0			ND	-		
3-Nitroaniline	ND		ug/L	5.0			ND	-		
2-Nitroaniline	ND		ug/L	3.5			ND	-		
4-Bromophenyl phenyl ether	ND		ug/L	3.5			ND	-		
4-Chloroaniline	ND		ug/L	3.5			ND	-		
4-Chlorophenyl phenyl ether	ND		ug/L	1.0			ND	-		
4-Nitroaniline	ND		ug/L	5.0			ND	-		
4-Nitrophenol	ND		ug/L	1.0			ND	-		
Acenaphthene	ND		ug/L	1.5			ND	-		
Acenaphthylene	ND		ug/L	3.5			ND	-		
4,6-Dinitro-2-methylphenol	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
<b>SW8270D</b>										
<b>Batch 461615A - SW3520C</b>										
<b>BLK (CC21515-BLK)</b>										
Prepared: 28-Dec-18 Analyzed: 03-Jan-19										
2,4-Dinitrophenol	ND		ug/L	1.0			ND	-		
N-Nitrosodi-n-propylamine	ND		ug/L	3.5			ND	-		
1,1-Biphenyl	ND		ug/L	3.5			ND	-		
1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.5			ND	-		
2,3,4,6-tetrachlorophenol	ND		ug/L	3.5			ND	-		
2,4,5-Trichlorophenol	ND		ug/L	1.0			ND	-		
2,4,6-Trichlorophenol	ND		ug/L	1.0			ND	-		
Naphthalene	ND		ug/L	1.5			ND	-		
2,4-Dimethylphenol	ND		ug/L	1.0			ND	-		
Acetophenone	ND		ug/L	3.5			ND	-		
2,4-Dinitrotoluene	ND		ug/L	3.5			ND	-		
2,6-Dinitrotoluene	ND		ug/L	3.5			ND	-		
2-Chloronaphthalene	ND		ug/L	3.5			ND	-		
2-Chlorophenol	ND		ug/L	1.0			ND	-		
2-Methylnaphthalene	ND		ug/L	3.5			ND	-		
Nitrobenzene	ND		ug/L	3.5			ND	-		
N-Nitrosodimethylamine	ND		ug/L	1.0			ND	-		
2,4-Dichlorophenol	ND		ug/L	1.0			ND	-		
Hexachlorobutadiene	ND		ug/L	3.5			ND	-		
Anthracene	ND		ug/L	1.5			ND	-		
Pyrene	ND		ug/L	1.5			ND	-		
Di-n-butylphthalate	ND		ug/L	1.5			ND	-		
Phenol	ND		ug/L	1.0			ND	-		
Di-n-octylphthalate	ND		ug/L	1.5			ND	-		
Fluoranthene	ND		ug/L	1.5			ND	-		
Diethyl phthalate	ND		ug/L	1.5			ND	-		
Hexachlorobenzene	ND		ug/L	3.5			ND	-		
Dibenzofuran	ND		ug/L	3.5			ND	-		
Hexachlorocyclopentadiene	ND		ug/L	3.5			ND	-		
Hexachloroethane	ND		ug/L	3.5			ND	-		
N-Nitrosodiphenylamine	ND		ug/L	3.5			ND	-		
Pentachlorophenol	ND		ug/L	3.5			ND	-		
Phenanthrene	ND		ug/L	1.5			ND	-		
2-Methylphenol (o-cresol)	ND		ug/L	1.0			ND	-		
Fluorene	ND		ug/L	1.5			ND	-		
Bis(2-chloroethoxy)methane	ND		ug/L	3.5			ND	-		
Atrazine	ND		ug/L	3.5			ND	-		
Benz(a)anthracene	ND		ug/L	1.5			ND	-		
Benzaldehyde	ND		ug/L	3.5			ND	-		
Benzo(a)pyrene	ND		ug/L	1.5			ND	-		
Benzo(b)fluoranthene	ND		ug/L	1.5			ND	-		
Benzo(ghi)perylene	ND		ug/L	1.5			ND	-		
Dimethylphthalate	ND		ug/L	1.5			ND	-		
Benzyl butyl phthalate	ND		ug/L	1.5			ND	-		
Bis(2-chloroethyl)ether	ND		ug/L	1.0			ND	-		
Bis(2-chloroisopropyl)ether	ND		ug/L	1.0			ND	-		
Bis(2-ethylhexyl)phthalate	ND		ug/L	1.5			ND	-		
Caprolactam	ND		ug/L	3.5			ND	-		
Carbazole	ND		ug/L	5.0			ND	-		
Chrysene	ND		ug/L	1.5			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
<b>SW8270D</b>										
<b>Batch 461615A - SW3520C</b>										
<b>BLK (CC21515-BLK)</b>					Prepared: 28-Dec-18 Analyzed: 03-Jan-19					
Dibenz(a,h)anthracene	ND		ug/L	1.5			ND	-		
Benzo(k)fluoranthene	ND		ug/L	1.5			ND	-		
Surrogate: % 2-Fluorophenol	55		ug/L		7.5		55	15-110		
Surrogate: % 2-Fluorobiphenyl	80		ug/L		5		80	30-130		
Surrogate: % Phenol-d5	41		ug/L		7.5		41	15-110		
Surrogate: % Terphenyl-d14	76		ug/L		5		76	30-130		
Surrogate: % Nitrobenzene-d5	70		ug/L		5		70	30-130		
Surrogate: % 2,4,6-Tribromophenol	62		ug/L		7.5		62	15-110		
<b>LCS (CC21515-LCS)</b>					Prepared: 28-Dec-18 Analyzed: 03-Jan-19					
Benzo(ghi)perylene	40.53		ug/L	1.5	50		81	30-130		20
Chrysene	39.63		ug/L	1.5	50		79	30-130		20
Carbazole	41.53		ug/L	5.0	50		83	30-130		20
Caprolactam	41.20		ug/L	3.5	50		82	30-130		20
Bis(2-ethylhexyl)phthalate	40.05		ug/L	1.5	50		80	30-130		20
Bis(2-chloroisopropyl)ether	26.30		ug/L	1.0	50		53	30-130		20
Bis(2-chloroethyl)ether	30.45		ug/L	1.0	50		61	30-130		20
Bis(2-chloroethoxy)methane	36.32		ug/L	3.5	50		73	30-130		20
Benzo(k)fluoranthene	43.21		ug/L	1.5	50		86	30-130		20
Diethyl phthalate	40.38		ug/L	1.5	50		81	30-130		20
Benzo(b)fluoranthene	42.22		ug/L	1.5	50		84	30-130		20
Benzo(a)pyrene	35.35		ug/L	1.5	50		71	30-130		20
Benzaldehyde	41.31	r	ug/L	3.5	50		83	30-130		20
Benz(a)anthracene	41.18		ug/L	1.5	50		82	30-130		20
Atrazine	29.99		ug/L	3.5	50		60	30-130		20
Anthracene	39.28		ug/L	1.5	50		79	30-130		20
Benzyl butyl phthalate	39.05		ug/L	1.5	50		78	30-130		20
Fluorene	39.38		ug/L	1.5	50		79	30-130		20
Acetophenone	32.64		ug/L	3.5	50		65	30-130		20
2,4,5-Trichlorophenol	43.53		ug/L	1.0	50		87	30-130		20
Isophorone	34.88		ug/L	3.5	50		70	30-130		20
Indeno(1,2,3-cd)pyrene	41.23		ug/L	3.5	50		82	30-130		20
Hexachloroethane	27.27		ug/L	3.5	50		55	30-130		20
Hexachlorocyclopentadiene	15.83		ug/L	3.5	50		32	30-130		20
Dibenz(a,h)anthracene	41.15		ug/L	1.5	50		82	30-130		20
Hexachlorobenzene	41.40		ug/L	3.5	50		83	30-130		20
Dibenzofuran	39.38		ug/L	3.5	50		79	30-130		20
Fluoranthene	40.39		ug/L	1.5	50		81	30-130		20
Di-n-octylphthalate	35.79	r	ug/L	1.5	50		72	30-130		20
Nitrobenzene	33.31		ug/L	3.5	50		67	30-130		20
Di-n-butylphthalate	41.91		ug/L	1.5	50		84	30-130		20
Naphthalene	32.26		ug/L	1.5	50		65	30-130		20
Dimethylphthalate	40.23		ug/L	1.5	50		80	30-130		20
Hexachlorobutadiene	30.59		ug/L	3.5	50		61	30-130		20
2-Methylphenol (o-cresol)	33.17		ug/L	1.0	50		66	30-130		20
N-Nitrosodimethylamine	29.40		ug/L	1.0	50		59	30-130		20
2,4-Dichlorophenol	37.76		ug/L	1.0	50		76	30-130		20
Acenaphthylene	38.06		ug/L	3.5	50		76	30-130		20
1,1-Biphenyl	37.96		ug/L	3.5	50		76	30-130		20
1,2,4,5-Tetrachlorobenzene	35.54		ug/L	3.5	50		71	30-130		20
2,3,4,6-tetrachlorophenol	37.15		ug/L	3.5	50		74	30-130		20

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW8270D</u></b>										
<b>Batch 461615A - SW3520C</b>										
<b><u>LCS (CC21515-LCS)</u></b>						<u>Prepared: 28-Dec-18 Analyzed: 03-Jan-19</u>				
2,4,6-Trichlorophenol	42.51		ug/L	1.0	50		85	30-130		20
2,4-Dimethylphenol	32.88		ug/L	1.0	50		66	30-130		20
2,4-Dinitrophenol	34.32	r	ug/L	1.0	50		69	30-130		20
2,4-Dinitrotoluene	42.25		ug/L	3.5	50		84	30-130		20
2,6-Dinitrotoluene	43.95		ug/L	3.5	50		88	30-130		20
2-Chloronaphthalene	37.41		ug/L	3.5	50		75	30-130		20
2-Methylnaphthalene	34.96		ug/L	3.5	50		70	30-130		20
4,6-Dinitro-2-methylphenol	37.99		ug/L	1.0	50		76	30-130		20
Acenaphthene	39.45		ug/L	1.5	50		79	30-130		20
4-Nitrophenol	39.86		ug/L	1.0	50		80	30-130		20
4-Nitroaniline	43.31		ug/L	5.0	50		87	30-130		20
4-Chlorophenyl phenyl ether	38.40		ug/L	1.0	50		77	30-130		20
4-Chloroaniline	40.99		ug/L	3.5	50		82	30-130		20
2-Chlorophenol	29.81		ug/L	1.0	50		60	30-130		20
4-Bromophenyl phenyl ether	40.05		ug/L	3.5	50		80	30-130		20
3-Nitroaniline	48.96		ug/L	5.0	50		98	30-130		20
3,3'-Dichlorobenzidine	34.23		ug/L	5.0	50		68	30-130		20
3&4-Methylphenol (m&p-cresol)	34.33		ug/L	1.0	50		69	30-130		20
2-Nitrophenol	36.10		ug/L	1.0	50		72	30-130		20
2-Nitroaniline	55.98		ug/L	3.5	50		112	30-130		20
4-Chloro-3-methylphenol	40.97		ug/L	1.0	50		82	30-130		20
Pentachlorophenol	45.86		ug/L	3.5	50		92	30-130		20
Phenanthrene	39.48		ug/L	1.5	50		79	30-130		20
Phenol	27.03		ug/L	1.0	50		54	30-130		20
N-Nitrosodiphenylamine	35.85		ug/L	3.5	50		72	30-130		20
Pyrene	41.64		ug/L	1.5	50		83	30-130		20
N-Nitrosodi-n-propylamine	34.70		ug/L	3.5	50		69	30-130		20
<i>Surrogate: % 2-Fluorobiphenyl</i>	37.38		ug/L		50		75	30-130		
<i>Surrogate: % 2,4,6-Tribromophenol</i>	67.05		ug/L		75		89	15-110		
<i>Surrogate: % 2-Fluorophenol</i>	34.36		ug/L		75		46	15-110		
<i>Surrogate: % Nitrobenzene-d5</i>	31.17	r	ug/L		50		62	30-130		
<i>Surrogate: % Phenol-d5</i>	37.53		ug/L		75		50	15-110		
<i>Surrogate: % Terphenyl-d14</i>	35.75		ug/L		50		71	30-130		
<b><u>LCSD (CC21515-LCSD)</u></b>						<u>Prepared: 28-Dec-18 Analyzed: 03-Jan-19</u>				
Fluoranthene	45.59		ug/L	1.5	50		91	30-130	11.0	20
Isophorone	35.63		ug/L	3.5	50		71	30-130	1.4	20
Indeno(1,2,3-cd)pyrene	46.11		ug/L	3.5	50		92	30-130	11.5	20
Hexachloroethane	29.92		ug/L	3.5	50		60	30-130	8.7	20
Hexachlorocyclopentadiene	16.26		ug/L	3.5	50		33	30-130	6.9	20
Hexachlorobutadiene	34.45		ug/L	3.5	50		69	30-130	12.3	20
Dimethylphthalate	42.86		ug/L	1.5	50		86	30-130	7.2	20
Fluorene	42.68		ug/L	1.5	50		85	30-130	7.3	20
Di-n-octylphthalate	45.25	r	ug/L	1.5	50		91	30-130	23.3	20
Di-n-butylphthalate	46.33		ug/L	1.5	50		93	30-130	10.2	20
Diethyl phthalate	46.29		ug/L	1.5	50		93	30-130	13.8	20
Naphthalene	33.97		ug/L	1.5	50		68	30-130	4.5	20
Dibenz(a,h)anthracene	46.62		ug/L	1.5	50		93	30-130	8.7	20
Dibenzofuran	41.96		ug/L	3.5	50		84	30-130	6.1	20
Chrysene	44.11		ug/L	1.5	50		88	30-130	13.2	20
Hexachlorobenzene	43.32		ug/L	3.5	50		87	30-130	14.0	20

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW8270D</b>										
<b>Batch 461615A - SW3520C</b>										
<b>LCSD (CC21515-LCSD)</b>						Prepared: 28-Dec-18 Analyzed: 03-Jan-19				
2,4-Dimethylphenol	35.40		ug/L	1.0	50		71	30-130	7.3	20
2-Methylnaphthalene	36.66		ug/L	3.5	50		73	30-130	8.0	20
Carbazole	46.43		ug/L	5.0	50		93	30-130	11.4	20
Pentachlorophenol	51.56		ug/L	3.5	50		103	30-130	11.3	20
Phenanthrene	42.34		ug/L	1.5	50		85	30-130	7.3	20
Pyrene	46.03		ug/L	1.5	50		92	30-130	10.3	20
2,6-Dinitrotoluene	48.45		ug/L	3.5	50		97	30-130	9.7	20
Phenol	26.69		ug/L	1.0	50		53	30-130	1.9	20
2,4-Dinitrophenol	43.56	r	ug/L	1.0	50		87	30-130	23.1	20
Nitrobenzene	34.00		ug/L	3.5	50		68	30-130	1.5	20
2,4-Dichlorophenol	36.77		ug/L	1.0	50		74	30-130	2.7	20
2,4,6-Trichlorophenol	44.82		ug/L	1.0	50		90	30-130	5.7	20
2,4,5-Trichlorophenol	45.97		ug/L	1.0	50		92	30-130	5.6	20
2,3,4,6-tetrachlorophenol	41.69		ug/L	3.5	50		83	30-130	11.5	20
1,2,4,5-Tetrachlorobenzene	35.97		ug/L	3.5	50		72	30-130	1.4	20
N-Nitrosodi-n-propylamine	35.63		ug/L	3.5	50		71	30-130	2.9	20
N-Nitrosodimethylamine	29.77		ug/L	1.0	50		60	30-130	1.7	20
2,4-Dinitrotoluene	45.68		ug/L	3.5	50		91	30-130	8.0	20
4-Bromophenyl phenyl ether	44.05		ug/L	3.5	50		88	30-130	9.5	20
2-Nitroaniline	64.72		ug/L	3.5	50		129	30-130	14.1	20
Acetophenone	33.00		ug/L	3.5	50		66	30-130	1.5	20
Acenaphthylene	39.67		ug/L	3.5	50		79	30-130	3.9	20
Acenaphthene	42.00		ug/L	1.5	50		84	30-130	13.2	20
4-Nitrophenol	43.90		ug/L	1.0	50		88	30-130	9.5	20
4-Nitroaniline	46.89		ug/L	5.0	50		94	30-130	7.7	20
4-Chlorophenyl phenyl ether	41.81		ug/L	1.0	50		84	30-130	8.7	20
Atrazine	36.51		ug/L	3.5	50		73	30-130	19.5	20
4-Chloro-3-methylphenol	44.17		ug/L	1.0	50		88	30-130	7.1	20
Benz(a)anthracene	44.41		ug/L	1.5	50		89	30-130	16.1	20
4,6-Dinitro-2-methylphenol	46.59		ug/L	1.0	50		93	30-130	20.1	20
3-Nitroaniline	57.00		ug/L	5.0	50		114	30-130	15.1	20
3,3'-Dichlorobenzidine	36.57		ug/L	5.0	50		73	30-130	7.1	20
3&4-Methylphenol (m&p-cresol)	34.24		ug/L	1.0	50		68	30-130	1.5	20
2-Nitrophenol	38.56		ug/L	1.0	50		77	30-130	6.7	20
2-Methylphenol (o-cresol)	31.42		ug/L	1.0	50		63	30-130	4.7	20
N-Nitrosodiphenylamine	36.81		ug/L	3.5	50		74	30-130	2.7	20
2-Chlorophenol	29.74		ug/L	1.0	50		59	30-130	1.7	20
4-Chloroaniline	41.57		ug/L	3.5	50		83	30-130	1.2	20
Bis(2-chloroethyl)ether	31.50		ug/L	1.0	50		63	30-130	3.2	20
Benzaldehyde	52.40	r	ug/L	3.5	50		105	30-130	23.4	20
Benzo(a)pyrene	39.06		ug/L	1.5	50		78	30-130	9.4	20
Benzo(b)fluoranthene	46.75		ug/L	1.5	50		93	30-130	10.2	20
Benzo(ghi)perylene	45.11		ug/L	1.5	50		90	30-130	10.5	20
Benzo(k)fluoranthene	46.89		ug/L	1.5	50		94	30-130	11.6	20
2-Chloronaphthalene	39.37		ug/L	3.5	50		79	30-130	5.2	20
Benzyl butyl phthalate	43.97		ug/L	1.5	50		88	30-130	12.0	20
Bis(2-chloroethoxy)methane	36.34		ug/L	3.5	50		73	30-130	0.0	20
Caprolactam	45.24		ug/L	3.5	50		90	30-130	9.3	20
Bis(2-ethylhexyl)phthalate	46.16		ug/L	1.5	50		92	30-130	14.0	20
Anthracene	42.34		ug/L	1.5	50		85	30-130	15.0	20

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW8270D</u></b>										
<b>Batch 461615A - SW3520C</b>										
<b><u>LCSD (CC21515-LCSD)</u></b>					<b>Prepared: 28-Dec-18 Analyzed: 03-Jan-19</b>					
Bis(2-chloroisopropyl)ether	<b>26.65</b>		ug/L	1.0	50		53	30-130	0.0	20
1,1-Biphenyl	<b>39.55</b>		ug/L	3.5	50		79	30-130	3.9	20
Surrogate: % Terphenyl-d14	40.50		ug/L		50		81	30-130		
Surrogate: % Phenol-d5	36.05		ug/L		75		48	15-110		
Surrogate: % Nitrobenzene-d5	32.64		ug/L		50		65	30-130		
Surrogate: % 2-Fluorophenol	35.80		ug/L		75		48	15-110		
Surrogate: % 2,4,6-Tribromophenol	69.28		ug/L		75		92	15-110		
Surrogate: % 2-Fluorobiphenyl	38.43		ug/L		50		77	30-130		
<b><u>SW8270D (SIM)</u></b>										
<b>Batch 461615B - SW3520C</b>										
<b><u>BLK (CC21515-BLK)</u></b>					<b>Prepared: 28-Dec-18 Analyzed: 02-Jan-19</b>					
Naphthalene	<b>ND</b>		ug/L	0.50			ND	-		
Bis(2-chloroethyl)ether	<b>ND</b>		ug/L	0.50			ND	-		
Phenanthrene	<b>ND</b>		ug/L	0.50			ND	-		
Nitrobenzene	<b>ND</b>		ug/L	0.50			ND	-		
N-Nitrosodimethylamine	<b>ND</b>		ug/L	0.05			ND	-		
Indeno(1,2,3-cd)pyrene	<b>ND</b>		ug/L	0.50			ND	-		
Hexachlorocyclopentadiene	<b>ND</b>		ug/L	0.50			ND	-		
Hexachlorobutadiene	<b>ND</b>		ug/L	0.50			ND	-		
Hexachlorobenzene	<b>ND</b>		ug/L	0.50			ND	-		
Fluorene	<b>ND</b>		ug/L	0.50			ND	-		
Fluoranthene	<b>ND</b>		ug/L	0.50			ND	-		
Pyrene	<b>ND</b>		ug/L	0.50			ND	-		
Chrysene	<b>ND</b>		ug/L	0.50			ND	-		
Pentachlorophenol	<b>ND</b>		ug/L	0.50			ND	-		
Benzo(k)fluoranthene	<b>ND</b>		ug/L	0.50			ND	-		
Benzo(ghi)perylene	<b>ND</b>		ug/L	0.50			ND	-		
Benzo(b)fluoranthene	<b>ND</b>		ug/L	0.50			ND	-		
Benzo(a)pyrene	<b>ND</b>		ug/L	0.50			ND	-		
Benz(a)anthracene	<b>ND</b>		ug/L	0.50			ND	-		
Anthracene	<b>ND</b>		ug/L	0.50			ND	-		
Acenaphthylene	<b>ND</b>		ug/L	0.50			ND	-		
Acenaphthene	<b>ND</b>		ug/L	0.50			ND	-		
2-Methylnaphthalene	<b>ND</b>		ug/L	0.50			ND	-		
Dibenz(a,h)anthracene	<b>ND</b>		ug/L	0.50			ND	-		
Surrogate: % 2,4,6-Tribromophenol	80		ug/L		7.5		80	15-110		
Surrogate: % 2-Fluorobiphenyl	80		ug/L		5		80	30-130		
Surrogate: % 2-Fluorophenol	56		ug/L		7.5		56	15-110		
Surrogate: % Nitrobenzene-d5	71		ug/L		5		71	30-130		
Surrogate: % Phenol-d5	48		ug/L		7.5		48	15-110		
Surrogate: % Terphenyl-d14	78		ug/L		5		78	30-130		
<b><u>LCS (CC21515-LCS)</u></b>					<b>Prepared: 28-Dec-18 Analyzed: 02-Jan-19</b>					
Hexachlorobenzene	<b>3.640</b>		ug/L	0.50	5		73	30-130		20
Phenanthrene	<b>3.402</b>		ug/L	0.50	5		68	30-130		20
Pentachlorophenol	<b>4.295</b>		ug/L	0.50	5		86	30-130		20
N-Nitrosodimethylamine	<b>2.878</b>		ug/L	0.05	5		58	30-130		20
Nitrobenzene	<b>2.888</b>		ug/L	0.50	5		58	30-130		20
Naphthalene	<b>3.061</b>		ug/L	0.50	5		61	30-130		20
Indeno(1,2,3-cd)pyrene	<b>3.591</b>		ug/L	0.50	5		72	30-130		20

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW8270D (SIM)</u></b>										
<b>Batch 461615B - SW3520C</b>										
<b><u>LCS (CC21515-LCS)</u></b>										
						<u>Prepared: 28-Dec-18 Analyzed: 02-Jan-19</u>				
2-Methylnaphthalene	3.014		ug/L	0.50	5		60	30-130		20
Hexachlorobutadiene	2.544		ug/L	0.50	5		51	30-130		20
Acenaphthene	3.573		ug/L	0.50	5		71	30-130		20
Fluorene	3.471		ug/L	0.50	5		69	30-130		20
Fluoranthene	3.444		ug/L	0.50	5		69	30-130		20
Dibenz(a,h)anthracene	3.874		ug/L	0.50	5		77	30-130		20
Chrysene	3.571		ug/L	0.50	5		71	30-130		20
Bis(2-chloroethyl)ether	2.787		ug/L	0.50	5		56	30-130		20
Benzo(k)fluoranthene	3.657		ug/L	0.50	5		73	30-130		20
Benzo(ghi)perylene	3.587		ug/L	0.50	5		72	30-130		20
Benzo(b)fluoranthene	3.435		ug/L	0.50	5		69	30-130		20
Benzo(a)pyrene	3.147		ug/L	0.50	5		63	30-130		20
Benz(a)anthracene	3.169		ug/L	0.50	5		63	30-130		20
Anthracene	3.406		ug/L	0.50	5		68	30-130		20
Pyrene	3.549		ug/L	0.50	5		71	30-130		20
Acenaphthylene	3.241		ug/L	0.50	5		65	30-130		20
Hexachlorocyclopentadiene	1.375	l	ug/L	0.50	5		28	30-130		20
Surrogate: % Phenol-d5	3.495		ug/L		7.5		47	15-110		
Surrogate: % 2,4,6-Tribromophenol	5.248		ug/L		7.5		70	15-110		
Surrogate: % 2-Fluorobiphenyl	3.466		ug/L		5		69	30-130		
Surrogate: % 2-Fluorophenol	3.152		ug/L		7.5		42	15-110		
Surrogate: % Nitrobenzene-d5	2.704	r	ug/L		5		54	30-130		
Surrogate: % Terphenyl-d14	3.260		ug/L		5		65	30-130		
<b><u>LCSD (CC21515-LCSD)</u></b>										
						<u>Prepared: 28-Dec-18 Analyzed: 03-Jan-19</u>				
Fluorene	3.840		ug/L	0.50	5		77	30-130	7.3	20
Hexachlorobenzene	4.196		ug/L	0.50	5		84	30-130	4.7	20
Benzo(b)fluoranthene	3.879		ug/L	0.50	5		78	30-130	12.2	20
Pyrene	3.875		ug/L	0.50	5		78	30-130	10.3	20
Hexachlorobutadiene	2.991		ug/L	0.50	5		60	30-130	16.2	20
Phenanthrene	3.868		ug/L	0.50	5		77	30-130	7.3	20
Pentachlorophenol	5.084		ug/L	0.50	5		102	30-130	11.3	20
N-Nitrosodimethylamine	3.214		ug/L	0.05	5		64	30-130	1.7	20
Nitrobenzene	3.542		ug/L	0.50	5		71	30-130	20.2	20
Naphthalene	3.429		ug/L	0.50	5		69	30-130	4.5	20
Indeno(1,2,3-cd)pyrene	3.991		ug/L	0.50	5		80	30-130	11.5	20
Hexachlorocyclopentadiene	1.509		ug/L	0.50	5		30	30-130	3.1	20
Fluoranthene	3.839		ug/L	0.50	5		77	30-130	11.0	20
Benzo(k)fluoranthene	4.115		ug/L	0.50	5		82	30-130	11.6	20
Dibenz(a,h)anthracene	4.212		ug/L	0.50	5		84	30-130	12.6	20
2-Methylnaphthalene	3.230		ug/L	0.50	5		65	30-130	4.2	20
Acenaphthene	4.039		ug/L	0.50	5		81	30-130	13.2	20
Acenaphthylene	3.633		ug/L	0.50	5		73	30-130	11.6	20
Anthracene	3.925		ug/L	0.50	5		79	30-130	15.0	20
Benzo(a)pyrene	3.559		ug/L	0.50	5		71	30-130	9.4	20
Benzo(ghi)perylene	3.884		ug/L	0.50	5		78	30-130	10.5	20
Bis(2-chloroethyl)ether	3.023		ug/L	0.50	5		60	30-130	6.9	20
Chrysene	4.046		ug/L	0.50	5		81	30-130	13.2	20
Benz(a)anthracene	3.682		ug/L	0.50	5		74	30-130	8.2	20
Surrogate: % Nitrobenzene-d5	3.399	r	ug/L		5		68	30-130		
Surrogate: % 2,4,6-Tribromophenol	6.251		ug/L		7.5		83	15-110		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW8270D (SIM)</u></b>										
<b>Batch 461615B - SW3520C</b>										
<b><u>LCSD (CC21515-LCSD)</u></b>					<b><u>Prepared: 28-Dec-18 Analyzed: 03-Jan-19</u></b>					
Surrogate: % Phenol-d5	3.608		ug/L		7.5		48	15-110		
Surrogate: % 2-Fluorophenol	3.599		ug/L		7.5		48	15-110		
Surrogate: % Terphenyl-d14	3.579		ug/L		5		72	30-130		
Surrogate: % 2-Fluorobiphenyl	3.688		ug/L		5		74	30-130		
<b><u>SW8270D MOD(SIM)</u></b>										
<b>Batch 461581A - SW3520C</b>										
<b><u>BLK (CC20774-BLK)</u></b>					<b><u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u></b>					
Dibenz(a,h)anthracene	ND		ug/L	0.10			ND	-		
Benzo(b)fluoranthene	ND		ug/L	0.02			ND	-		
Pyrene	ND		ug/L	0.50			ND	-		
Phenanthrene	ND		ug/L	0.07			ND	-		
Naphthalene	ND		ug/L	0.50			ND	-		
Indeno(1,2,3-cd)pyrene	ND		ug/L	0.02			ND	-		
Fluorene	ND		ug/L	0.50			ND	-		
Fluoranthene	ND		ug/L	0.50			ND	-		
2-Methylnaphthalene	ND		ug/L	0.50			ND	-		
Benzo(ghi)perylene	ND		ug/L	0.48			ND	-		
Benzo(a)pyrene	ND		ug/L	0.02			ND	-		
Benz(a)anthracene	ND		ug/L	0.02			ND	-		
Anthracene	ND		ug/L	0.50			ND	-		
Acenaphthylene	ND		ug/L	0.30			ND	-		
Acenaphthene	ND		ug/L	0.50			ND	-		
Chrysene	ND		ug/L	0.02			ND	-		
Benzo(k)fluoranthene	ND		ug/L	0.02			ND	-		
Surrogate: % 2-Fluorobiphenyl	31		ug/L		5		31	30-130		
Surrogate: % Nitrobenzene-d5	4		ug/L		5		4	30-130		
Surrogate: % Terphenyl-d14	74		ug/L		5		74	30-130		
<b><u>LCS (CC20774-LCS)</u></b>					<b><u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u></b>					
Acenaphthylene	3.118	r	ug/L	0.30	10		31	30-130		20
Phenanthrene	7.200		ug/L	0.07	10		72	30-130		20
Dibenz(a,h)anthracene	6.865		ug/L	0.10	10		69	30-130		20
Naphthalene	2.942	l	ug/L	0.50	10		29	30-130		20
Indeno(1,2,3-cd)pyrene	3.669	r	ug/L	0.02	10		37	30-130		20
Fluorene	6.814		ug/L	0.50	10		68	30-130		20
Fluoranthene	7.249		ug/L	0.50	10		72	30-130		20
Pyrene	5.995	r	ug/L	0.50	10		60	30-130		20
2-Methylnaphthalene	4.371		ug/L	0.50	10		44	30-130		20
Benzo(k)fluoranthene	6.485	r	ug/L	0.02	10		65	30-130		20
Benzo(ghi)perylene	3.260	r	ug/L	0.48	10		33	30-130		20
Benzo(b)fluoranthene	7.086		ug/L	0.02	10		71	30-130		20
Benzo(a)pyrene	3.397	r	ug/L	0.02	10		34	30-130		20
Anthracene	7.223		ug/L	0.50	10		72	30-130		20
Acenaphthene	6.535		ug/L	0.50	10		65	30-130		20
Benz(a)anthracene	6.978		ug/L	0.02	10		70	30-130		20
Chrysene	7.389		ug/L	0.02	10		74	30-130		20
Surrogate: % Nitrobenzene-d5	1.798		ug/L		5		36	30-130		
Surrogate: % 2-Fluorobiphenyl	2.563		ug/L		5		51	30-130		
Surrogate: % Terphenyl-d14	4.016		ug/L		5		80	30-130		
<b><u>LCSD (CC20774-LCSD)</u></b>					<b><u>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</u></b>					

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW8270D MOD(SIM)</u></b>										
<b>Batch 461581A - SW3520C</b>										
<b><u>LCSD (CC20774-LCSD)</u></b>					<b>Prepared: 28-Dec-18 Analyzed: 31-Dec-18</b>					
Benzo(a)pyrene	7.729	r	ug/L	0.02	10		77	30-130	77.5	20
Dibenz(a,h)anthracene	8.433		ug/L	0.10	10		84	30-130	19.6	20
Phenanthrene	7.434		ug/L	0.07	10		74	30-130	2.7	20
Naphthalene	2.493	l	ug/L	0.50	10		25	30-130	14.8	20
Indeno(1,2,3-cd)pyrene	7.635	r	ug/L	0.02	10		76	30-130	69.0	20
Fluorene	6.870		ug/L	0.50	10		69	30-130	1.5	20
Pyrene	7.979	r	ug/L	0.50	10		80	30-130	28.6	20
Fluoranthene	7.828		ug/L	0.50	10		78	30-130	8.0	20
Chrysene	7.944		ug/L	0.02	10		79	30-130	6.5	20
Benzo(k)fluoranthene	8.066	r	ug/L	0.02	10		81	30-130	21.9	20
Benzo(b)fluoranthene	7.746		ug/L	0.02	10		77	30-130	8.1	20
Benz(a)anthracene	7.789		ug/L	0.02	10		78	30-130	10.8	20
Anthracene	7.690		ug/L	0.50	10		77	30-130	6.7	20
Acenaphthylene	5.719	r	ug/L	0.30	10		57	30-130	59.1	20
Acenaphthene	6.744		ug/L	0.50	10		67	30-130	3.0	20
2-Methylnaphthalene	4.218		ug/L	0.50	10		42	30-130	4.7	20
Benzo(ghi)perylene	6.705	r	ug/L	0.48	10		67	30-130	68.0	20
Surrogate: % Terphenyl-d14	4.107		ug/L		5		82	30-130		
Surrogate: % Nitrobenzene-d5	1.520		ug/L		5		30	30-130		
Surrogate: % 2-Fluorobiphenyl	2.570		ug/L		5		51	30-130		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>EPA 335.4</u></b>										
<b>Batch 19007102101A - METHOD</b>										
<b><u>Laboratory Dup (LRP957589D007102101A)</u></b>			<b>Source: SC52856-31</b>		<b>Prepared &amp; Analyzed: 07-Jan-19</b>					
Total Cyanide (water)	< 0.010		mg/l	0.010		BRL	-		0	20
<b><u>Matrix Spike (MSP957589R007102101A)</u></b>			<b>Source: SC52856-31</b>		<b>Prepared &amp; Analyzed: 07-Jan-19</b>					
Total Cyanide (water)	0.21		mg/l	0.010	0.20	BRL	104	90-110		
<b><u>Blank (P00702AB007102101A)</u></b>			<b>Prepared &amp; Analyzed: 07-Jan-19</b>							
Total Cyanide (water)	< 0.010		mg/l	0.010				-		
<b><u>LCS (P00702AQ007102101A)</u></b>			<b>Prepared &amp; Analyzed: 07-Jan-19</b>							
Total Cyanide (water)	0.19		mg/l	0.010	0.20		97	90-110		
<b><u>SW-846 6010C</u></b>										
<b>Batch 190031404408 - SW-846 3005A</b>										
<b><u>Blank (P00304HB003404408)</u></b>			<b>Prepared: 07-Jan-19 Analyzed: 08-Jan-19</b>							
Lead	< 0.0150		mg/l	0.0150				-		
Selenium	< 0.0500		mg/l	0.0500				-		
Chromium	< 0.0150		mg/l	0.0150				-		
Cadmium	< 0.0050		mg/l	0.0050				-		
Arsenic	< 0.0500		mg/l	0.0500				-		
Silver	< 0.0100		mg/l	0.0100				-		
Barium	< 0.0050		mg/l	0.0050				-		
<b><u>LCS (P00304HQ003404408)</u></b>			<b>Prepared: 07-Jan-19 Analyzed: 08-Jan-19</b>							
Chromium	0.188		mg/l	0.0150	0.200		94	87-110		
Silver	0.0540		mg/l	0.0100	0.0500		108	80-120		
Selenium	0.140		mg/l	0.0500	0.150		93	80-120		
Lead	0.148		mg/l	0.0150	0.150		99	87-113		
Cadmium	0.0504		mg/l	0.0050	0.0500		101	90-111		
Barium	1.97		mg/l	0.0050	2.00		98	87-111		
Arsenic	0.147		mg/l	0.0500	0.150		98	80-120		
<b><u>SW-846 7470A</u></b>										
<b>Batch 190030571309 - METHOD</b>										
<b><u>Blank (P00371IB003571309)</u></b>			<b>Prepared &amp; Analyzed: 07-Jan-19</b>							
Mercury	< 0.00020		mg/l	0.00020				-		
<b><u>LCS (P00371IQ003571309)</u></b>			<b>Prepared &amp; Analyzed: 07-Jan-19</b>							
Mercury	0.00086		mg/l	0.00020	0.0010		86	80-114		
<b><u>SW-846 8260C</u></b>										
<b>Batch L190031AA - SW-846 5030C</b>										
<b><u>LCS (LCSL93QL190031AA)</u></b>			<b>Prepared &amp; Analyzed: 03-Jan-19</b>							
1,2-Dichloroethane	23		ug/l	1	20		114	73-124		
Vinyl Chloride	19		ug/l	1	20		94	56-120		
cis-1,3-Dichloropropene	22		ug/l	1	20		111	75-120		
1,1,1-Trichloroethane	22		ug/l	1	20		111	67-126		
1,1,2,2-Tetrachloroethane	21		ug/l	1	20		107	72-120		
1,1,2-Trichloroethane	24		ug/l	1	20		119	80-120		
1,1-Dichloroethane	22		ug/l	1	20		110	80-120		
1,1-Dichloroethene	23		ug/l	1	20		116	80-131		
1,2-Dichlorobenzene	22		ug/l	5	20		112	80-120		
Carbon Tetrachloride	22		ug/l	1	20		109	64-134		
Methylene Chloride	22		ug/l	1	20		110	80-120		
Dichlorodifluoromethane	17		ug/l	1	20		86	41-127		
Chloromethane	18		ug/l	1	20		92	56-121		
trans-1,2-Dichloroethene	23		ug/l	1	20		116	80-120		
trans-1,3-Dichloropropene	22		ug/l	1	20		108	67-120		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190031AA - SW-846 5030C</b>										
<b>LCS (LCSL93QL190031AA)</b>					<u>Prepared &amp; Analyzed: 03-Jan-19</u>					
cis-1,2-Dichloroethene	23		ug/l	1	20		116	80-120		
Trichloroethene	22		ug/l	1	20		112	80-120		
Chloroform	23		ug/l	1	20		115	80-120		
Tetrachloroethene	22		ug/l	1	20		112	80-120		
Chlorobenzene	23		ug/l	1	20		114	80-120		
Dibromochloromethane	23		ug/l	1	20		114	71-120		
Bromomethane	16		ug/l	1	20		82	53-128		
Bromoform	19		ug/l	4	20		95	51-120		
Bromodichloromethane	23		ug/l	1	20		113	71-120		
Trichlorofluoromethane	19		ug/l	1	20		95	55-135		
1,4-Dioxane	640		ug/l	250	500		127	63-146		
1,4-Dichlorobenzene	22		ug/l	5	20		111	80-120		
1,3-Dichlorobenzene	22		ug/l	5	20		111	80-120		
1,2-Dichloropropane	22		ug/l	1	20		110	80-120		
Chloroethane	18		ug/l	1	20		91	55-123		
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Surrogate: Toluene-d8	50		ug/l		50		101	80-120		
Surrogate: Dibromofluoromethane	50		ug/l		50		100	80-120		
Surrogate: 1,2-Dichloroethane-d4	52		ug/l		50		103	80-120		
Surrogate: 4-Bromofluorobenzene	51		ug/l		50		102	80-120		
<b>Matrix Spike (MSP957580RL190031AA)</b>					<u>Source: SC52856-22</u>		<u>Prepared &amp; Analyzed: 03-Jan-19</u>			
1,2-Dichlorobenzene	24		ug/l	5	20	BRL	118	80-120		
1,1,1-Trichloroethane	24		ug/l	1	20	BRL	122	67-126		
1,1,2,2-Tetrachloroethane	22		ug/l	1	20	BRL	108	72-120		
1,1,2-Trichloroethane	24		ug/l	1	20	BRL	122	80-120		
1,1-Dichloroethane	23		ug/l	1	20	BRL	117	80-120		
1,1-Dichloroethene	27		ug/l	1	20	BRL	133	80-131		
Chloromethane	18		ug/l	1	20	BRL	92	56-121		
Tetrachloroethene	25		ug/l	1	20	BRL	126	80-120		
Chloroethane	19		ug/l	1	20	BRL	95	55-123		
1,2-Dichloroethane	24		ug/l	1	20	BRL	118	73-124		
Vinyl Chloride	20		ug/l	1	20	0.6	99	56-120		
Trichlorofluoromethane	21		ug/l	1	20	BRL	104	55-135		
Trichloroethene	25		ug/l	1	20	0.5	123	80-120		
trans-1,3-Dichloropropene	22		ug/l	1	20	BRL	110	67-120		
trans-1,2-Dichloroethene	25		ug/l	1	20	BRL	127	80-120		
Methylene Chloride	24		ug/l	1	20	BRL	118	80-120		
Dichlorodifluoromethane	19		ug/l	1	20	BRL	96	41-127		
Dibromochloromethane	24		ug/l	1	20	BRL	119	71-120		
cis-1,3-Dichloropropene	22		ug/l	1	20	BRL	112	75-120		
cis-1,2-Dichloroethene	28		ug/l	1	20	3	122	80-120		
Bromodichloromethane	24		ug/l	1	20	BRL	119	71-120		
Chlorobenzene	24		ug/l	1	20	BRL	121	80-120		
Carbon Tetrachloride	24		ug/l	1	20	BRL	122	64-134		
Chloroform	24		ug/l	1	20	BRL	122	80-120		
Bromomethane	17		ug/l	1	20	BRL	85	53-128		
Bromoform	20		ug/l	4	20	BRL	99	51-120		
1,4-Dichlorobenzene	24		ug/l	5	20	BRL	119	80-120		
1,3-Dichlorobenzene	24		ug/l	5	20	BRL	119	80-120		
1,4-Dioxane	610		ug/l	250	500	BRL	122	63-146		
1,2-Dichloropropane	23		ug/l	1	20	BRL	114	80-120		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190031AA - SW-846 5030C</b>										
<b>Matrix Spike (MSP957580RL190031AA)</b>			<b>Source: SC52856-22</b>			<b>Prepared &amp; Analyzed: 03-Jan-19</b>				
Surrogate: 1,2-Dichloroethane-d4	50		ug/l		50		99	80-120		
Surrogate: Toluene-d8	51		ug/l		50		101	80-120		
Surrogate: 4-Bromofluorobenzene	51		ug/l		50		102	80-120		
Surrogate: Dibromofluoromethane	50		ug/l		50		99	80-120		
<b>Matrix Spike Dup (SDP957580ML190031AA)</b>			<b>Source: SC52856-22</b>			<b>Prepared &amp; Analyzed: 03-Jan-19</b>				
Chloroform	26		ug/l	1	20	BRL	128	80-120	4	30
cis-1,2-Dichloroethene	29		ug/l	1	20	3	128	80-120	4	30
Chloroethane	20		ug/l	1	20	BRL	98	55-123	3	30
cis-1,3-Dichloropropene	24		ug/l	1	20	BRL	119	75-120	6	30
Dibromochloromethane	25		ug/l	1	20	BRL	124	71-120	4	30
Chlorobenzene	25		ug/l	1	20	BRL	125	80-120	3	30
Chloromethane	19		ug/l	1	20	BRL	94	56-121	3	30
Dichlorodifluoromethane	19		ug/l	1	20	BRL	93	41-127	4	30
Methylene Chloride	24		ug/l	1	20	BRL	122	80-120	3	30
Tetrachloroethene	26		ug/l	1	20	BRL	128	80-120	1	30
trans-1,2-Dichloroethene	26		ug/l	1	20	BRL	132	80-120	3	30
Trichloroethene	26		ug/l	1	20	0.5	129	80-120	4	30
Carbon Tetrachloride	25		ug/l	1	20	BRL	126	64-134	3	30
1,2-Dichlorobenzene	24		ug/l	5	20	BRL	122	80-120	3	30
Vinyl Chloride	21		ug/l	1	20	0.6	102	56-120	4	30
Trichlorofluoromethane	22		ug/l	1	20	BRL	109	55-135	4	30
trans-1,3-Dichloropropene	23		ug/l	1	20	BRL	114	67-120	3	30
1,1-Dichloroethane	24		ug/l	1	20	BRL	122	80-120	4	30
1,1,1-Trichloroethane	25		ug/l	1	20	BRL	127	67-126	4	30
1,1,2,2-Tetrachloroethane	24		ug/l	1	20	BRL	118	72-120	9	30
1,1,2-Trichloroethane	25		ug/l	1	20	BRL	126	80-120	4	30
Bromomethane	18		ug/l	1	20	BRL	90	53-128	5	30
1,1-Dichloroethene	27		ug/l	1	20	BRL	133	80-131	0	30
1,2-Dichloroethane	24		ug/l	1	20	BRL	122	73-124	3	30
Bromoform	20		ug/l	4	20	BRL	101	51-120	1	30
1,3-Dichlorobenzene	25		ug/l	5	20	BRL	124	80-120	4	30
1,4-Dichlorobenzene	24		ug/l	5	20	BRL	122	80-120	2	30
1,4-Dioxane	660		ug/l	250	500	BRL	132	63-146	8	30
Bromodichloromethane	25		ug/l	1	20	BRL	125	71-120	5	30
1,2-Dichloropropane	24		ug/l	1	20	BRL	120	80-120	5	30
Surrogate: Dibromofluoromethane	50		ug/l		50		100	80-120		
Surrogate: 4-Bromofluorobenzene	51		ug/l		50		101	80-120		
Surrogate: 1,2-Dichloroethane-d4	52		ug/l		50		104	80-120		
Surrogate: Toluene-d8	51		ug/l		50		101	80-120		
<b>Blank (VBLKL93BL190031AA)</b>			<b>Prepared &amp; Analyzed: 03-Jan-19</b>							
1,2-Dichlorobenzene	< 5		ug/l	5				-		
Vinyl Chloride	< 1		ug/l	1				-		
1,1-Dichloroethene	< 1		ug/l	1				-		
1,1-Dichloroethane	< 1		ug/l	1				-		
1,1,2-Trichloroethane	< 1		ug/l	1				-		
1,1,2,2-Tetrachloroethane	< 1		ug/l	1				-		
trans-1,3-Dichloropropene	< 1		ug/l	1				-		
1,1,1-Trichloroethane	< 1		ug/l	1				-		
Dichlorodifluoromethane	< 1		ug/l	1				-		
Trichloroethene	< 1		ug/l	1				-		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190031AA - SW-846 5030C</b>										
<b>Blank (VBLKL93BL190031AA)</b>					<u>Prepared &amp; Analyzed: 03-Jan-19</u>					
Tetrachloroethene	< 1		ug/l	1				-		
Trichlorofluoromethane	< 1		ug/l	1				-		
Methylene Chloride	< 1		ug/l	1				-		
1,2-Dichloroethane	< 1		ug/l	1				-		
Dibromochloromethane	< 1		ug/l	1				-		
cis-1,3-Dichloropropene	< 1		ug/l	1				-		
cis-1,2-Dichloroethene	< 1		ug/l	1				-		
Chloromethane	< 1		ug/l	1				-		
Chloroform	< 1		ug/l	1				-		
Chloroethane	< 1		ug/l	1				-		
Chlorobenzene	< 1		ug/l	1				-		
1,3-Dichlorobenzene	< 5		ug/l	5				-		
Carbon Tetrachloride	< 1		ug/l	1				-		
1,2-Dichloropropane	< 1		ug/l	1				-		
1,4-Dichlorobenzene	< 5		ug/l	5				-		
1,4-Dioxane	< 250		ug/l	250				-		
trans-1,2-Dichloroethene	< 1		ug/l	1				-		
Bromodichloromethane	< 1		ug/l	1				-		
Bromoform	< 4		ug/l	4				-		
Bromomethane	< 1		ug/l	1				-		
<i>Surrogate: 4-Bromofluorobenzene</i>	49		ug/l		50		99	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50		ug/l		50		101	80-120		
<i>Surrogate: Dibromofluoromethane</i>	49		ug/l		50		98	80-120		
<i>Surrogate: Toluene-d8</i>	50		ug/l		50		101	80-120		
<b>Batch L190071AA - SW-846 5030C</b>										
<b>LCS (LCSL07QL190071AA)</b>					<u>Prepared &amp; Analyzed: 07-Jan-19</u>					
1,2-Dibromoethane	23		ug/l	1	20		117	77-120		
1,1-Dichloropropene	23		ug/l	5	20		113	78-120		
1,2-Dibromo-3-chloropropane	22		ug/l	5	20		109	47-131		
1,2,4-Trimethylbenzene	23		ug/l	5	20		114	75-120		
1,2,4-Trichlorobenzene	21		ug/l	5	20		105	63-120		
1,2,3-Trichloropropane	23		ug/l	5	20		114	75-124		
1,2,3-Trichlorobenzene	20		ug/l	5	20		101	66-120		
1,1-Dichloroethene	22		ug/l	1	20		112	80-131		
1,1-Dichloroethane	22		ug/l	1	20		109	80-120		
1,1,2-Trichloroethane	23		ug/l	1	20		117	80-120		
1,1,2,2-Tetrachloroethane	21		ug/l	1	20		103	72-120		
1,1,1-Trichloroethane	23		ug/l	1	20		115	67-126		
n-Propylbenzene	23		ug/l	5	20		114	79-121		
1,2-Dichlorobenzene	22		ug/l	5	20		112	80-120		
Acetone	180		ug/l	20	150		119	54-157		
1,1,1,2-Tetrachloroethane	22		ug/l	1	20		111	78-120		
Hexachlorobutadiene	19		ug/l	5	20		93	63-120		
Naphthalene	19		ug/l	5	20		96	53-124		
Dichlorodifluoromethane	15		ug/l	1	20		73	41-127		
di-Isopropyl ether	19		ug/l	1	20		93	70-124		
Ethanol	480	J.	ug/l	750	500		96	31-180		
Ethyl ether	18		ug/l	5	20		90	59-141		
Ethyl t-butyl ether	19		ug/l	1	20		93	68-121		
Dibromochloromethane	24		ug/l	1	20		118	71-120		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190071AA - SW-846 5030C</b>										
<b>LCS (LCSL07QL190071AA)</b>					<u>Prepared &amp; Analyzed: 07-Jan-19</u>					
Freon 113	21		ug/l	10	20		107	73-139		
Cyclohexane	18		ug/l	5	20		90	68-126		
Isopropylbenzene	23		ug/l	5	20		115	80-120		
m+p-Xylene	46		ug/l	5	40		114	80-120		
Methyl Acetate	17		ug/l	5	20		86	54-136		
Methyl Tertiary Butyl Ether	20		ug/l	1	20		101	69-122		
Methylcyclohexane	18		ug/l	5	20		90	67-121		
p-Isopropyltoluene	22		ug/l	5	20		111	76-120		
Ethylbenzene	23		ug/l	1	20		113	80-120		
Carbon Tetrachloride	23		ug/l	1	20		115	64-134		
Acrylonitrile	93		ug/l	20	100		93	60-129		
Benzene	22		ug/l	1	20		111	80-120		
Bromobenzene	22		ug/l	5	20		111	80-120		
Bromochloromethane	21		ug/l	5	20		105	80-120		
Bromodichloromethane	24		ug/l	1	20		119	71-120		
Bromoform	20		ug/l	4	20		101	51-120		
Dibromomethane	23		ug/l	1	20		117	80-120		
Carbon Disulfide	20		ug/l	5	20		101	65-128		
n-Butylbenzene	21		ug/l	5	20		106	76-120		
Chlorobenzene	23		ug/l	1	20		115	80-120		
Chloroethane	17		ug/l	1	20		85	55-123		
Chloroform	24		ug/l	1	20		119	80-120		
Chloromethane	15		ug/l	1	20		75	56-121		
cis-1,2-Dichloroethane	23		ug/l	1	20		114	80-120		
cis-1,3-Dichloropropene	23		ug/l	1	20		113	75-120		
Bromomethane	16		ug/l	1	20		78	53-128		
1,4-Dioxane	610		ug/l	250	500		122	63-146		
Xylene (Total)	68		ug/l	5	60		113	80-120		
Methylene Chloride	22		ug/l	1	20		110	80-120		
4-Methyl-2-pentanone	96		ug/l	10	100		96	62-133		
4-Chlorotoluene	22		ug/l	5	20		110	80-120		
2-Hexanone	94		ug/l	10	100		94	56-135		
2-Chlorotoluene	22		ug/l	5	20		110	80-120		
1,2-Dichloroethane	25		ug/l	1	20		123	73-124		
2,2-Dichloropropane	20		ug/l	1	20		101	55-142		
Vinyl Chloride	16		ug/l	1	20		80	56-120		
1,4-Dichlorobenzene	22		ug/l	5	20		112	80-120		
1,3-Dichloropropane	22		ug/l	1	20		109	80-120		
1,3-Dichlorobenzene	22		ug/l	5	20		112	80-120		
1,3,5-Trimethylbenzene	23		ug/l	5	20		114	75-120		
1,3,5-Trichlorobenzene	21		ug/l	5	20		105	66-123		
1,2-Dichloropropane	21		ug/l	1	20		105	80-120		
2-Butanone	140		ug/l	10	150		93	59-135		
Tetrahydrofuran	120		ug/l	10	100		124	54-144		
o-Xylene	22		ug/l	1	20		112	80-120		
sec-Butylbenzene	22		ug/l	5	20		110	77-120		
Styrene	23		ug/l	5	20		114	80-120		
t-Amyl methyl ether	19		ug/l	5	20		96	66-120		
t-Butyl alcohol	200		ug/l	50	200		102	60-130		
Tetrachloroethene	23		ug/l	1	20		115	80-120		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190071AA - SW-846 5030C</b>										
<b>LCS (LC SL07QL190071AA)</b>						<u>Prepared &amp; Analyzed: 07-Jan-19</u>				
Trichlorofluoromethane	18		ug/l	1	20		92	55-135		
Toluene	22		ug/l	1	20		112	80-120		
trans-1,2-Dichloroethene	23		ug/l	1	20		116	80-120		
trans-1,3-Dichloropropene	22		ug/l	1	20		111	67-120		
trans-1,4-Dichloro-2-butene	110		ug/l	50	100		111	33-143		
Trichloroethene	23		ug/l	1	20		113	80-120		
tert-Butylbenzene	22		ug/l	5	20		110	78-120		
<i>Surrogate: Toluene-d8</i>	50		ug/l		50		100	80-120		
<i>Surrogate: Dibromofluoromethane</i>	51		ug/l		50		103	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	51		ug/l		50		103	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50		ug/l		50		101	80-120		
<b>LCSD (LC SL07YL190071AA)</b>						<u>Prepared &amp; Analyzed: 07-Jan-19</u>				
Dibromomethane	23		ug/l	1	20		115	80-120	2	30
Ethanol	460	J.	ug/l	750	500		92	31-180	4	30
Methyl Tertiary Butyl Ether	21		ug/l	1	20		103	69-122	2	30
Methyl Acetate	17		ug/l	5	20		87	54-136	1	30
m+p-Xylene	46		ug/l	5	40		114	80-120	0	30
Isopropylbenzene	23		ug/l	5	20		115	80-120	1	30
Hexachlorobutadiene	20		ug/l	5	20		99	63-120	6	30
Freon 113	22		ug/l	10	20		110	73-139	2	30
Ethylbenzene	23		ug/l	1	20		115	80-120	1	30
Chloroethane	17		ug/l	1	20		86	55-123	1	30
Ethyl ether	18		ug/l	5	20		90	59-141	1	30
n-Butylbenzene	21		ug/l	5	20		107	76-120	1	30
di-Isopropyl ether	19		ug/l	1	20		95	70-124	2	30
Dichlorodifluoromethane	15		ug/l	1	20		74	41-127	1	30
Dibromochloromethane	24		ug/l	1	20		120	71-120	1	30
Cyclohexane	18		ug/l	5	20		91	68-126	1	30
cis-1,3-Dichloropropene	22		ug/l	1	20		112	75-120	0	30
cis-1,2-Dichloroethene	23		ug/l	1	20		117	80-120	3	30
Chloromethane	16		ug/l	1	20		79	56-121	5	30
Chloroform	24		ug/l	1	20		119	80-120	1	30
Ethyl t-butyl ether	19		ug/l	1	20		96	68-121	3	30
tert-Butylbenzene	22		ug/l	5	20		108	78-120	2	30
1,1,1,2-Tetrachloroethane	22		ug/l	1	20		110	78-120	1	30
Vinyl Chloride	17		ug/l	1	20		83	56-120	4	30
Trichlorofluoromethane	18		ug/l	1	20		91	55-135	1	30
Trichloroethene	23		ug/l	1	20		115	80-120	1	30
trans-1,4-Dichloro-2-butene	110		ug/l	50	100		113	33-143	2	30
trans-1,3-Dichloropropene	22		ug/l	1	20		111	67-120	0	30
trans-1,2-Dichloroethene	23		ug/l	1	20		116	80-120	1	30
Toluene	23		ug/l	1	20		113	80-120	2	30
Xylene (Total)	68		ug/l	5	60		114	80-120	0	30
Tetrachloroethene	23		ug/l	1	20		113	80-120	2	30
Methylene Chloride	22		ug/l	1	20		110	80-120	0	30
t-Butyl alcohol	220		ug/l	50	200		111	60-130	8	30
t-Amyl methyl ether	20		ug/l	5	20		98	66-120	2	30
Styrene	23		ug/l	5	20		115	80-120	1	30
sec-Butylbenzene	23		ug/l	5	20		113	77-120	2	30
p-Isopropyltoluene	23		ug/l	5	20		113	76-120	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
<b><u>SW-846 8260C</u></b>										
<b>Batch L190071AA - SW-846 5030C</b>										
<b><u>LCSD (LC SL07YL190071AA)</u></b>					<b><u>Prepared &amp; Analyzed: 07-Jan-19</u></b>					
o-Xylene	22		ug/l	1	20		112	80-120	1	30
n-Propylbenzene	23		ug/l	5	20		115	79-121	1	30
Methylcyclohexane	18		ug/l	5	20		91	67-121	1	30
Tetrahydrofuran	130		ug/l	10	100		130	54-144	4	30
1,2,4-Trichlorobenzene	21		ug/l	5	20		107	63-120	2	30
1,3-Dichlorobenzene	23		ug/l	5	20		113	80-120	1	30
1,3,5-Trimethylbenzene	23		ug/l	5	20		116	75-120	2	30
1,3,5-Trichlorobenzene	21		ug/l	5	20		107	66-123	1	30
1,2-Dichloropropane	21		ug/l	1	20		107	80-120	1	30
1,2-Dichloroethane	24		ug/l	1	20		122	73-124	1	30
1,2-Dichlorobenzene	23		ug/l	5	20		114	80-120	1	30
1,2-Dibromoethane	23		ug/l	1	20		117	77-120	0	30
1,3-Dichloropropane	22		ug/l	1	20		112	80-120	2	30
1,2,4-Trimethylbenzene	23		ug/l	5	20		115	75-120	1	30
1,1,2-Trichloroethane	24		ug/l	1	20		120	80-120	2	30
1,2,3-Trichloropropane	23		ug/l	5	20		113	75-124	1	30
1,2,3-Trichlorobenzene	21		ug/l	5	20		104	66-120	2	30
1,1-Dichloropropene	23		ug/l	5	20		113	78-120	0	30
1,1-Dichloroethene	23		ug/l	1	20		115	80-131	2	30
1,1-Dichloroethane	22		ug/l	1	20		108	80-120	1	30
Chlorobenzene	23		ug/l	1	20		114	80-120	0	30
1,1,2,2-Tetrachloroethane	21		ug/l	1	20		105	72-120	2	30
Naphthalene	20		ug/l	5	20		98	53-124	2	30
1,2-Dibromo-3-chloropropane	22		ug/l	5	20		109	47-131	1	30
Bromoform	20		ug/l	4	20		100	51-120	0	30
1,1,1-Trichloroethane	23		ug/l	1	20		116	67-126	1	30
1,4-Dichlorobenzene	23		ug/l	5	20		113	80-120	0	30
Carbon Tetrachloride	23		ug/l	1	20		113	64-134	2	30
Bromomethane	16		ug/l	1	20		78	53-128	0	30
Bromodichloromethane	24		ug/l	1	20		119	71-120	0	30
Bromochloromethane	21		ug/l	5	20		105	80-120	0	30
Bromobenzene	22		ug/l	5	20		111	80-120	1	30
Benzene	22		ug/l	1	20		111	80-120	0	30
Acrylonitrile	93		ug/l	20	100		93	60-129	0	30
Acetone	180		ug/l	20	150		118	54-157	1	30
2-Butanone	140		ug/l	10	150		92	59-135	1	30
4-Chlorotoluene	23		ug/l	5	20		113	80-120	3	30
2-Hexanone	93		ug/l	10	100		93	56-135	1	30
2-Chlorotoluene	22		ug/l	5	20		112	80-120	2	30
Carbon Disulfide	20		ug/l	5	20		102	65-128	1	30
1,4-Dioxane	660		ug/l	250	500		132	63-146	8	30
2,2-Dichloropropane	21		ug/l	1	20		104	55-142	2	30
4-Methyl-2-pentanone	95		ug/l	10	100		95	62-133	1	30
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Surrogate: 4-Bromofluorobenzene	51		ug/l		50		103	80-120		
Surrogate: 1,2-Dichloroethane-d4	50		ug/l		50		100	80-120		
Surrogate: Toluene-d8	50		ug/l		50		101	80-120		
Surrogate: Dibromofluoromethane	51		ug/l		50		102	80-120		
<b><u>Blank (VBLKL07BL190071AA)</u></b>					<b><u>Prepared &amp; Analyzed: 07-Jan-19</u></b>					
cis-1,3-Dichloropropene	< 1		ug/l	1				-		
cis-1,2-Dichloroethene	< 1		ug/l	1				-		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190071AA - SW-846 5030C</b>										
<b>Blank (VBLKL07BL190071AA)</b>						<u>Prepared &amp; Analyzed: 07-Jan-19</u>				
Chloromethane	< 1		ug/l	1				-		
Chloroform	< 1		ug/l	1				-		
Chlorobenzene	< 1		ug/l	1				-		
Ethanol	< 750		ug/l	750				-		
Carbon Tetrachloride	< 1		ug/l	1				-		
Carbon Disulfide	< 5		ug/l	5				-		
Chloroethane	< 1		ug/l	1				-		
Cyclohexane	< 5		ug/l	5				-		
Freon 113	< 10		ug/l	10				-		
Dibromochloromethane	< 1		ug/l	1				-		
Dibromomethane	< 1		ug/l	1				-		
di-Isopropyl ether	< 1		ug/l	1				-		
Ethyl ether	< 5		ug/l	5				-		
Bromomethane	< 1		ug/l	1				-		
2,2-Dichloropropane	< 1		ug/l	1				-		
Ethyl t-butyl ether	< 1		ug/l	1				-		
Ethylbenzene	< 1		ug/l	1				-		
Dichlorodifluoromethane	< 1		ug/l	1				-		
2-Hexanone	< 10		ug/l	10				-		
Hexachlorobutadiene	< 5		ug/l	5				-		
1,2-Dichloropropane	< 1		ug/l	1				-		
1,2-Dichloroethane	< 1		ug/l	1				-		
1,3,5-Trichlorobenzene	< 5		ug/l	5				-		
1,3,5-Trimethylbenzene	< 5		ug/l	5				-		
1,3-Dichlorobenzene	< 5		ug/l	5				-		
1,3-Dichloropropane	< 1		ug/l	1				-		
1,4-Dichlorobenzene	< 5		ug/l	5				-		
2-Chlorotoluene	< 5		ug/l	5				-		
2-Butanone	< 10		ug/l	10				-		
Bromoform	< 4		ug/l	4				-		
4-Chlorotoluene	< 5		ug/l	5				-		
4-Methyl-2-pentanone	< 10		ug/l	10				-		
Acetone	< 20		ug/l	20				-		
Acrylonitrile	< 20		ug/l	20				-		
Benzene	< 1		ug/l	1				-		
Bromobenzene	< 5		ug/l	5				-		
Bromochloromethane	< 5		ug/l	5				-		
Bromodichloromethane	< 1		ug/l	1				-		
1,4-Dioxane	< 250		ug/l	250				-		
1,2,3-Trichloropropane	< 5		ug/l	5				-		
trans-1,3-Dichloropropene	< 1		ug/l	1				-		
1,1,1-Trichloroethane	< 1		ug/l	1				-		
Trichloroethene	< 1		ug/l	1				-		
Trichlorofluoromethane	< 1		ug/l	1				-		
Vinyl Chloride	< 1		ug/l	1				-		
Xylene (Total)	< 5		ug/l	5				-		
1,2-Dibromoethane	< 1		ug/l	1				-		
1,2-Dibromo-3-chloropropane	< 5		ug/l	5				-		
Isopropylbenzene	< 5		ug/l	5				-		
1,2,4-Trichlorobenzene	< 5		ug/l	5				-		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190071AA - SW-846 5030C</b>										
<b>Blank (VBLKL07BL190071AA)</b>					<u>Prepared &amp; Analyzed: 07-Jan-19</u>					
trans-1,2-Dichloroethene	< 1		ug/l	1				-		
1,2,3-Trichlorobenzene	< 5		ug/l	5				-		
1,1-Dichloropropene	< 5		ug/l	5				-		
1,1-Dichloroethene	< 1		ug/l	1				-		
1,1-Dichloroethane	< 1		ug/l	1				-		
1,1,2-Trichloroethane	< 1		ug/l	1				-		
1,1,2,2-Tetrachloroethane	< 1		ug/l	1				-		
1,1,1,2-Tetrachloroethane	< 1		ug/l	1				-		
1,2-Dichlorobenzene	< 5		ug/l	5				-		
1,2,4-Trimethylbenzene	< 5		ug/l	5				-		
o-Xylene	< 1		ug/l	1				-		
m+p-Xylene	< 5		ug/l	5				-		
Methyl Acetate	< 5		ug/l	5				-		
Methyl Tertiary Butyl Ether	< 1		ug/l	1				-		
Methylcyclohexane	< 5		ug/l	5				-		
Methylene Chloride	< 1		ug/l	1				-		
Naphthalene	< 5		ug/l	5				-		
n-Butylbenzene	< 5		ug/l	5				-		
trans-1,4-Dichloro-2-butene	< 50		ug/l	50				-		
n-Propylbenzene	< 5		ug/l	5				-		
p-Isopropyltoluene	< 5		ug/l	5				-		
sec-Butylbenzene	< 5		ug/l	5				-		
Styrene	< 5		ug/l	5				-		
t-Amyl methyl ether	< 5		ug/l	5				-		
t-Butyl alcohol	< 50		ug/l	50				-		
tert-Butylbenzene	< 5		ug/l	5				-		
Tetrachloroethene	< 1		ug/l	1				-		
Tetrahydrofuran	< 10		ug/l	10				-		
Toluene	< 1		ug/l	1				-		

<i>Surrogate: Toluene-d8</i>	50		ug/l		50		99	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	50		ug/l		50		101	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51		ug/l		50		102	80-120		
<i>Surrogate: Dibromofluoromethane</i>	51		ug/l		50		102	80-120		

**Batch L190082AA - SW-846 5030C**

<b>LCS (LCSL14QL190082AA)</b>					<u>Prepared &amp; Analyzed: 08-Jan-19</u>					
1,2,3-Trichlorobenzene	20		ug/l	5	20		102	66-120		
Ethanol	500	J.	ug/l	750	500		100	31-180		
Methylene Chloride	22		ug/l	1	20		110	80-120		
Methylcyclohexane	20		ug/l	5	20		99	67-121		
Methyl Tertiary Butyl Ether	20		ug/l	1	20		101	69-122		
Methyl Acetate	18		ug/l	5	20		90	54-136		
Isopropylbenzene	23		ug/l	5	20		116	80-120		
Freon 113	24		ug/l	10	20		122	73-139		
Ethylbenzene	23		ug/l	1	20		115	80-120		
Chloroform	24		ug/l	1	20		122	80-120		
Ethyl ether	20		ug/l	5	20		102	59-141		
Trichlorofluoromethane	20		ug/l	1	20		101	55-135		
di-Isopropyl ether	19		ug/l	1	20		94	70-124		
Dichlorodifluoromethane	17		ug/l	1	20		87	41-127		
Dibromomethane	23		ug/l	1	20		116	80-120		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch L190082AA - SW-846 5030C</b>										
<b>LCS (LCSL14QL190082AA)</b>					<u>Prepared &amp; Analyzed: 08-Jan-19</u>					
Dibromochloromethane	23		ug/l	1	20		116	71-120		
Cyclohexane	20		ug/l	5	20		99	68-126		
cis-1,3-Dichloropropene	22		ug/l	1	20		112	75-120		
cis-1,2-Dichloroethene	23		ug/l	1	20		115	80-120		
Chloromethane	16		ug/l	1	20		82	56-121		
Ethyl t-butyl ether	19		ug/l	1	20		95	68-121		
tert-Butylbenzene	20		ug/l	5	20		100	78-120		
1,1,1,2-Tetrachloroethane	22		ug/l	1	20		110	78-120		
1,1-Dichloroethene	24		ug/l	1	20		119	80-131		
n-Butylbenzene	21		ug/l	5	20		107	76-120		
n-Propylbenzene	23		ug/l	5	20		116	79-121		
o-Xylene	22		ug/l	1	20		112	80-120		
p-Isopropyltoluene	23		ug/l	5	20		115	76-120		
sec-Butylbenzene	23		ug/l	5	20		114	77-120		
Styrene	23		ug/l	5	20		114	80-120		
Naphthalene	20		ug/l	5	20		98	53-124		
t-Butyl alcohol	210		ug/l	50	200		106	60-130		
Vinyl Chloride	17		ug/l	1	20		87	56-120		
Tetrachloroethene	23		ug/l	1	20		114	80-120		
Tetrahydrofuran	120		ug/l	10	100		119	54-144		
Toluene	23		ug/l	1	20		113	80-120		
trans-1,2-Dichloroethene	23		ug/l	1	20		117	80-120		
trans-1,3-Dichloropropene	22		ug/l	1	20		109	67-120		
trans-1,4-Dichloro-2-butene	110		ug/l	50	100		106	33-143		
Trichloroethene	23		ug/l	1	20		115	80-120		
Hexachlorobutadiene	20		ug/l	5	20		98	63-120		
t-Amyl methyl ether	19		ug/l	5	20		96	66-120		
1,2,4-Trimethylbenzene	23		ug/l	5	20		115	75-120		
1,4-Dichlorobenzene	23		ug/l	5	20		113	80-120		
1,3-Dichloropropane	22		ug/l	1	20		111	80-120		
1,3-Dichlorobenzene	22		ug/l	5	20		112	80-120		
1,3,5-Trimethylbenzene	23		ug/l	5	20		115	75-120		
1,3,5-Trichlorobenzene	21		ug/l	5	20		107	66-123		
1,2-Dichloropropane	22		ug/l	1	20		108	80-120		
1,2-Dichloroethane	24		ug/l	1	20		122	73-124		
1,2-Dichlorobenzene	23		ug/l	5	20		113	80-120		
1,4-Dioxane	640		ug/l	250	500		128	63-146		
1,2-Dibromo-3-chloropropane	21		ug/l	5	20		107	47-131		
1,2,4-Trichlorobenzene	21		ug/l	5	20		105	63-120		
Chloroethane	17		ug/l	1	20		87	55-123		
1,2,3-Trichloropropane	23		ug/l	5	20		114	75-124		
m+p-Xylene	46		ug/l	5	40		114	80-120		
1,1-Dichloropropene	23		ug/l	5	20		115	78-120		
1,1-Dichloroethane	21		ug/l	1	20		105	80-120		
1,1,2-Trichloroethane	23		ug/l	1	20		116	80-120		
1,1,2,2-Tetrachloroethane	21		ug/l	1	20		106	72-120		
1,1,1-Trichloroethane	23		ug/l	1	20		117	67-126		
1,2-Dibromoethane	23		ug/l	1	20		115	77-120		
Bromoform	19		ug/l	4	20		97	51-120		
Carbon Tetrachloride	23		ug/l	1	20		117	64-134		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW-846 8260C</u></b>										
<b>Batch L190082AA - SW-846 5030C</b>										
<b><u>LCS (LCSL14QL190082AA)</u></b>					<b><u>Prepared &amp; Analyzed: 08-Jan-19</u></b>					
Chlorobenzene	23		ug/l	1	20		114	80-120		
Xylene (Total)	68		ug/l	5	60		113	80-120		
2,2-Dichloropropane	21		ug/l	1	20		105	55-142		
Carbon Disulfide	21		ug/l	5	20		104	65-128		
Bromomethane	16		ug/l	1	20		81	53-128		
Bromodichloromethane	24		ug/l	1	20		119	71-120		
Bromochloromethane	21		ug/l	5	20		104	80-120		
Bromobenzene	22		ug/l	5	20		112	80-120		
Benzene	22		ug/l	1	20		111	80-120		
Acrylonitrile	95		ug/l	20	100		95	60-129		
2-Butanone	140		ug/l	10	150		95	59-135		
4-Methyl-2-pentanone	96		ug/l	10	100		96	62-133		
Acetone	160		ug/l	20	150		104	54-157		
4-Chlorotoluene	22		ug/l	5	20		112	80-120		
2-Chlorotoluene	22		ug/l	5	20		112	80-120		
2-Hexanone	96		ug/l	10	100		96	56-135		
<i>Surrogate: Dibromofluoromethane</i>	51		ug/l		50		101	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	51		ug/l		50		103	80-120		
<i>Surrogate: Toluene-d8</i>	50		ug/l		50		100	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51		ug/l		50		101	80-120		
<b><u>LCSD (LCSL14YL190082AA)</u></b>					<b><u>Prepared &amp; Analyzed: 08-Jan-19</u></b>					
2-Hexanone	93		ug/l	10	100		93	56-135	3	30
1,3-Dichloropropane	22		ug/l	1	20		110	80-120	1	30
1,3-Dichlorobenzene	22		ug/l	5	20		110	80-120	2	30
1,4-Dioxane	650		ug/l	250	500		131	63-146	2	30
2,2-Dichloropropane	21		ug/l	1	20		103	55-142	2	30
1,4-Dichlorobenzene	22		ug/l	5	20		108	80-120	4	30
2-Butanone	140		ug/l	10	150		92	59-135	4	30
2-Chlorotoluene	22		ug/l	5	20		111	80-120	1	30
4-Chlorotoluene	22		ug/l	5	20		112	80-120	1	30
4-Methyl-2-pentanone	94		ug/l	10	100		94	62-133	2	30
1,3,5-Trimethylbenzene	22		ug/l	5	20		112	75-120	2	30
Acetone	170		ug/l	20	150		114	54-157	9	30
1,1-Dichloroethene	23		ug/l	1	20		116	80-131	3	30
Acrylonitrile	92		ug/l	20	100		92	60-129	3	30
1,2,4-Trichlorobenzene	21		ug/l	5	20		103	63-120	2	30
Benzene	22		ug/l	1	20		110	80-120	1	30
Methylene Chloride	22		ug/l	1	20		108	80-120	2	30
1,1,1-Trichloroethane	23		ug/l	1	20		117	67-126	0	30
1,1,2,2-Tetrachloroethane	21		ug/l	1	20		105	72-120	1	30
1,1,2-Trichloroethane	23		ug/l	1	20		114	80-120	1	30
1,1-Dichloroethane	22		ug/l	1	20		108	80-120	2	30
1,2,3-Trichlorobenzene	21		ug/l	5	20		103	66-120	1	30
1,2,3-Trichloropropane	22		ug/l	5	20		112	75-124	3	30
1,3,5-Trichlorobenzene	21		ug/l	5	20		106	66-123	1	30
1,2,4-Trimethylbenzene	22		ug/l	5	20		112	75-120	3	30
1,2-Dibromo-3-chloropropane	21		ug/l	5	20		107	47-131	0	30
1,2-Dibromoethane	23		ug/l	1	20		114	77-120	1	30
1,2-Dichlorobenzene	22		ug/l	5	20		111	80-120	2	30
1,2-Dichloroethane	24		ug/l	1	20		120	73-124	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
<b>SW-846 8260C</b>										
<b>Batch L190082AA - SW-846 5030C</b>										
<b>LCSD (LCSL14YL190082AA)</b>					<u>Prepared &amp; Analyzed: 08-Jan-19</u>					
1,2-Dichloropropane	21		ug/l	1	20		106	80-120	2	30
1,1-Dichloropropene	23		ug/l	5	20		114	78-120	1	30
t-Butyl alcohol	210		ug/l	50	200		104	60-130	2	30
Methyl Tertiary Butyl Ether	20		ug/l	1	20		101	69-122	1	30
Methyl Acetate	17		ug/l	5	20		87	54-136	3	30
1,1,1,2-Tetrachloroethane	22		ug/l	1	20		110	78-120	1	30
Methylcyclohexane	20		ug/l	5	20		98	67-121	1	30
Naphthalene	20		ug/l	5	20		98	53-124	0	30
n-Butylbenzene	21		ug/l	5	20		105	76-120	2	30
n-Propylbenzene	23		ug/l	5	20		113	79-121	2	30
o-Xylene	22		ug/l	1	20		110	80-120	2	30
p-Isopropyltoluene	22		ug/l	5	20		111	76-120	3	30
sec-Butylbenzene	22		ug/l	5	20		111	77-120	3	30
Isopropylbenzene	23		ug/l	5	20		114	80-120	2	30
t-Amyl methyl ether	19		ug/l	5	20		96	66-120	0	30
Hexachlorobutadiene	19		ug/l	5	20		96	63-120	1	30
tert-Butylbenzene	20		ug/l	5	20		98	78-120	2	30
Tetrachloroethene	23		ug/l	1	20		114	80-120	1	30
Tetrahydrofuran	130		ug/l	10	100		128	54-144	7	30
Toluene	22		ug/l	1	20		111	80-120	2	30
trans-1,2-Dichloroethene	23		ug/l	1	20		114	80-120	2	30
trans-1,3-Dichloropropene	21		ug/l	1	20		107	67-120	1	30
trans-1,4-Dichloro-2-butene	100		ug/l	50	100		103	33-143	3	30
Trichloroethene	23		ug/l	1	20		115	80-120	0	30
Trichlorofluoromethane	20		ug/l	1	20		99	55-135	2	30
Vinyl Chloride	17		ug/l	1	20		87	56-120	0	30
Xylene (Total)	67		ug/l	5	60		111	80-120	2	30
Styrene	22		ug/l	5	20		111	80-120	3	30
Cyclohexane	20		ug/l	5	20		99	68-126	0	30
Bromochloromethane	21		ug/l	5	20		103	80-120	2	30
Bromodichloromethane	23		ug/l	1	20		116	71-120	2	30
Bromoform	19		ug/l	4	20		96	51-120	1	30
Bromomethane	16		ug/l	1	20		79	53-128	2	30
Carbon Disulfide	21		ug/l	5	20		103	65-128	1	30
Carbon Tetrachloride	23		ug/l	1	20		117	64-134	0	30
Chlorobenzene	22		ug/l	1	20		111	80-120	2	30
Chloroethane	18		ug/l	1	20		88	55-123	0	30
Chloroform	24		ug/l	1	20		119	80-120	2	30
Chloromethane	17		ug/l	1	20		84	56-121	3	30
m+p-Xylene	45		ug/l	5	40		112	80-120	2	30
cis-1,3-Dichloropropene	22		ug/l	1	20		108	75-120	3	30
Ethanol	530	J.	ug/l	750	500		105	31-180	6	30
Dibromochloromethane	23		ug/l	1	20		114	71-120	2	30
Freon 113	23		ug/l	10	20		117	73-139	4	30
Dibromomethane	23		ug/l	1	20		114	80-120	2	30
Dichlorodifluoromethane	17		ug/l	1	20		87	41-127	0	30
Ethylbenzene	22		ug/l	1	20		112	80-120	3	30
di-Isopropyl ether	19		ug/l	1	20		94	70-124	0	30
Bromobenzene	22		ug/l	5	20		110	80-120	2	30
Ethyl t-butyl ether	19		ug/l	1	20		96	68-121	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
<b>SW-846 8260C</b>										
<b>Batch L190082AA - SW-846 5030C</b>										
<b>LCSD (LCSL14YL190082AA)</b>					<b>Prepared &amp; Analyzed: 08-Jan-19</b>					
cis-1,2-Dichloroethene	23		ug/l	1	20		116	80-120	0	30
Ethyl ether	20		ug/l	5	20		102	59-141	0	30
Surrogate: 4-Bromofluorobenzene	52		ug/l		50		103	80-120		
Surrogate: Toluene-d8	50		ug/l		50		99	80-120		
Surrogate: 1,2-Dichloroethane-d4	52		ug/l		50		103	80-120		
Surrogate: Dibromofluoromethane	51		ug/l		50		103	80-120		
<b>Blank (VBLKL14BL190082AA)</b>					<b>Prepared &amp; Analyzed: 08-Jan-19</b>					
1,4-Dioxane	< 250		ug/l	250				-		
Ethyl ether	< 5		ug/l	5				-		
Methylcyclohexane	< 5		ug/l	5				-		
Methyl Tertiary Butyl Ether	< 1		ug/l	1				-		
Methyl Acetate	< 5		ug/l	5				-		
m+p-Xylene	< 5		ug/l	5				-		
Isopropylbenzene	< 5		ug/l	5				-		
Hexachlorobutadiene	< 5		ug/l	5				-		
Freon 113	< 10		ug/l	10				-		
1,1,1,2-Tetrachloroethane	< 1		ug/l	1				-		
Ethyl t-butyl ether	< 1		ug/l	1				-		
n-Butylbenzene	< 5		ug/l	5				-		
Ethanol	< 750		ug/l	750				-		
di-Isopropyl ether	< 1		ug/l	1				-		
Dichlorodifluoromethane	< 1		ug/l	1				-		
Dibromomethane	< 1		ug/l	1				-		
Dibromochloromethane	< 1		ug/l	1				-		
Cyclohexane	< 5		ug/l	5				-		
1,3-Dichloropropane	< 1		ug/l	1				-		
cis-1,2-Dichloroethene	< 1		ug/l	1				-		
Ethylbenzene	< 1		ug/l	1				-		
tert-Butylbenzene	< 5		ug/l	5				-		
Xylene (Total)	< 5		ug/l	5				-		
Vinyl Chloride	< 1		ug/l	1				-		
Trichlorofluoromethane	< 1		ug/l	1				-		
Trichloroethene	< 1		ug/l	1				-		
trans-1,4-Dichloro-2-butene	< 50		ug/l	50				-		
trans-1,3-Dichloropropene	< 1		ug/l	1				-		
trans-1,2-Dichloroethene	< 1		ug/l	1				-		
Toluene	< 1		ug/l	1				-		
Methylene Chloride	< 1		ug/l	1				-		
Tetrachloroethene	< 1		ug/l	1				-		
Naphthalene	< 5		ug/l	5				-		
t-Butyl alcohol	< 50		ug/l	50				-		
t-Amyl methyl ether	< 5		ug/l	5				-		
Styrene	< 5		ug/l	5				-		
sec-Butylbenzene	< 5		ug/l	5				-		
p-Isopropyltoluene	< 5		ug/l	5				-		
o-Xylene	< 1		ug/l	1				-		
n-Propylbenzene	< 5		ug/l	5				-		
Chloromethane	< 1		ug/l	1				-		
Tetrahydrofuran	< 10		ug/l	10				-		
1,2,4-Trichlorobenzene	< 5		ug/l	5				-		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW-846 8260C</u></b>										
<b>Batch L190082AA - SW-846 5030C</b>										
<b><u>Blank (VBLKL14BL190082AA)</u></b>					<b><u>Prepared &amp; Analyzed: 08-Jan-19</u></b>					
1,3-Dichlorobenzene	< 5		ug/l	5				-		
cis-1,3-Dichloropropene	< 1		ug/l	1				-		
1,3,5-Trichlorobenzene	< 5		ug/l	5				-		
1,2-Dichloropropane	< 1		ug/l	1				-		
1,2-Dichloroethane	< 1		ug/l	1				-		
1,2-Dichlorobenzene	< 5		ug/l	5				-		
1,2-Dibromoethane	< 1		ug/l	1				-		
Chloroform	< 1		ug/l	1				-		
1,2,4-Trimethylbenzene	< 5		ug/l	5				-		
1,4-Dichlorobenzene	< 5		ug/l	5				-		
1,2,3-Trichloropropane	< 5		ug/l	5				-		
1,2,3-Trichlorobenzene	< 5		ug/l	5				-		
1,1-Dichloropropene	< 5		ug/l	5				-		
1,1-Dichloroethene	< 1		ug/l	1				-		
1,1-Dichloroethane	< 1		ug/l	1				-		
1,1,2-Trichloroethane	< 1		ug/l	1				-		
1,1,2,2-Tetrachloroethane	< 1		ug/l	1				-		
1,1,1-Trichloroethane	< 1		ug/l	1				-		
1,2-Dibromo-3-chloropropane	< 5		ug/l	5				-		
Bromobenzene	< 5		ug/l	5				-		
Chloroethane	< 1		ug/l	1				-		
Chlorobenzene	< 1		ug/l	1				-		
Carbon Tetrachloride	< 1		ug/l	1				-		
Carbon Disulfide	< 5		ug/l	5				-		
Bromomethane	< 1		ug/l	1				-		
Bromoform	< 4		ug/l	4				-		
1,3,5-Trimethylbenzene	< 5		ug/l	5				-		
Bromochloromethane	< 5		ug/l	5				-		
2,2-Dichloropropane	< 1		ug/l	1				-		
Benzene	< 1		ug/l	1				-		
Acrylonitrile	< 20		ug/l	20				-		
Acetone	< 20		ug/l	20				-		
4-Methyl-2-pentanone	< 10		ug/l	10				-		
4-Chlorotoluene	< 5		ug/l	5				-		
2-Hexanone	< 10		ug/l	10				-		
2-Chlorotoluene	< 5		ug/l	5				-		
2-Butanone	< 10		ug/l	10				-		
Bromodichloromethane	< 1		ug/l	1				-		
<i>Surrogate: Toluene-d8</i>	49		ug/l		50		99	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52		ug/l		50		104	80-120		
<i>Surrogate: Dibromofluoromethane</i>	51		ug/l		50		102	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	50		ug/l		50		101	80-120		
<b>Batch W190072AA - SW-846 5030C</b>										
<b><u>LCS (LCSW25QW190072AA)</u></b>					<b><u>Prepared &amp; Analyzed: 07-Jan-19</u></b>					
1,2-Dichloroethane	22		ug/l	1	20		112	73-124		
Chloroform	22		ug/l	1	20		112	80-120		
1,1,2,2-Tetrachloroethane	19		ug/l	1	20		95	72-120		
1,1,2-Trichloroethane	22		ug/l	1	20		108	80-120		
1,1-Dichloroethane	22		ug/l	1	20		108	80-120		
1,1-Dichloroethene	25		ug/l	1	20		123	80-131		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW-846 8260C</u></b>										
<b>Batch W190072AA - SW-846 5030C</b>										
<b><u>LCS (LCSW25QW190072AA)</u></b>						<u>Prepared &amp; Analyzed: 07-Jan-19</u>				
1,2-Dichlorobenzene	21		ug/l	5	20		107	80-120		
1,2-Dichloropropane	21		ug/l	1	20		104	80-120		
1,3-Dichlorobenzene	21		ug/l	5	20		107	80-120		
1,4-Dichlorobenzene	21		ug/l	5	20		107	80-120		
1,4-Dioxane	530		ug/l	250	500		105	63-146		
Bromodichloromethane	23		ug/l	1	20		113	71-120		
Bromoform	20		ug/l	4	20		102	51-120		
Bromomethane	18		ug/l	1	20		88	53-128		
Carbon Tetrachloride	28		ug/l	1	20		141	64-134		
Chloroethane	18		ug/l	1	20		92	55-123		
Dichlorodifluoromethane	18		ug/l	1	20		91	41-127		
Vinyl Chloride	19		ug/l	1	20		94	56-120		
Trichlorofluoromethane	21		ug/l	1	20		103	55-135		
Trichloroethene	22		ug/l	1	20		111	80-120		
trans-1,3-Dichloropropene	21		ug/l	1	20		103	67-120		
trans-1,2-Dichloroethene	24		ug/l	1	20		119	80-120		
Chlorobenzene	22		ug/l	1	20		111	80-120		
Methylene Chloride	22		ug/l	1	20		112	80-120		
1,1,1-Trichloroethane	25		ug/l	1	20		124	67-126		
Dibromochloromethane	22		ug/l	1	20		112	71-120		
cis-1,3-Dichloropropene	22		ug/l	1	20		108	75-120		
cis-1,2-Dichloroethene	23		ug/l	1	20		116	80-120		
Chloromethane	18		ug/l	1	20		89	56-121		
Tetrachloroethene	24		ug/l	1	20		119	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	50		ug/l		50		100	80-120		
<i>Surrogate: Dibromofluoromethane</i>	52		ug/l		50		104	80-120		
<i>Surrogate: Toluene-d8</i>	49		ug/l		50		98	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51		ug/l		50		103	80-120		
<b><u>Blank (VBLKW25BW190072AA)</u></b>						<u>Prepared &amp; Analyzed: 07-Jan-19</u>				
1,2-Dichloropropane	< 1		ug/l	1				-		
Carbon Tetrachloride	< 1		ug/l	1				-		
Vinyl Chloride	< 1		ug/l	1				-		
Bromoform	< 4		ug/l	4				-		
Bromodichloromethane	< 1		ug/l	1				-		
1,4-Dioxane	< 250		ug/l	250				-		
Trichlorofluoromethane	< 1		ug/l	1				-		
1,3-Dichlorobenzene	< 5		ug/l	5				-		
Chlorobenzene	< 1		ug/l	1				-		
1,2-Dichloroethane	< 1		ug/l	1				-		
1,2-Dichlorobenzene	< 5		ug/l	5				-		
1,1-Dichloroethene	< 1		ug/l	1				-		
1,1-Dichloroethane	< 1		ug/l	1				-		
1,1,2-Trichloroethane	< 1		ug/l	1				-		
1,1,2,2-Tetrachloroethane	< 1		ug/l	1				-		
1,4-Dichlorobenzene	< 5		ug/l	5				-		
Dichlorodifluoromethane	< 1		ug/l	1				-		
1,1,1-Trichloroethane	< 1		ug/l	1				-		
Trichloroethene	< 1		ug/l	1				-		
trans-1,3-Dichloropropene	< 1		ug/l	1				-		
trans-1,2-Dichloroethene	< 1		ug/l	1				-		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>SW-846 8260C</b>										
<b>Batch W190072AA - SW-846 5030C</b>										
<b>Blank (VBLKW25BW190072AA)</b>					<u>Prepared &amp; Analyzed: 07-Jan-19</u>					
Tetrachloroethene	< 1		ug/l	1				-		
Bromomethane	< 1		ug/l	1				-		
Methylene Chloride	< 1		ug/l	1				-		
Chloroethane	< 1		ug/l	1				-		
Dibromochloromethane	< 1		ug/l	1				-		
cis-1,3-Dichloropropene	< 1		ug/l	1				-		
cis-1,2-Dichloroethene	< 1		ug/l	1				-		
Chloromethane	< 1		ug/l	1				-		
Chloroform	< 1		ug/l	1				-		
<i>Surrogate: Dibromofluoromethane</i>	52		ug/l		50		104	80-120		
<i>Surrogate: 4-Bromofluorobenzene</i>	47		ug/l		50		94	80-120		
<i>Surrogate: Toluene-d8</i>	47		ug/l		50		95	80-120		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53		ug/l		50		107	80-120		

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## Notes and Definitions

J	Estimated Below RL
J.	Estimated value
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
m	This parameter is outside laboratory ms/msd specified recovery limits.
r	This parameter is outside laboratory rpd specified recovery limits.
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.



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 1 of 4

SS2856 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: Day Environmental Inc  
1563 Myell Avenue  
Rochester NY 14606

Invoice To: SAWE

Telephone #: 585 454 0210

Project Mgr: Champton

P.O. No.: \_\_\_\_\_

Quote #: \_\_\_\_\_

Project No: 55295-18

Site Name: 415-441 Chandler St

Location: Champton State: NY

Sampler(s): \_\_\_\_\_

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
 7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=NONE 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  
 XI= \_\_\_\_\_ X2= \_\_\_\_\_ X3= \_\_\_\_\_

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Temp °C	Observed Correction Factor	EDD format:	E-mail to:	Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic						
SS2856A	TR-01 (11')	12/14/18	14:50	G	SO 2	2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/14/18	MM DEP MCP CAM Report? <input type="checkbox"/> Yes <input type="checkbox"/> No CT DPH RCP Report? <input type="checkbox"/> Yes <input type="checkbox"/> No Standard <input type="checkbox"/> No QC DOA* <input type="checkbox"/> ASP A* <input type="checkbox"/> ASP B* <input checked="" type="checkbox"/> NU Reduced* <input type="checkbox"/> NU Full* <input type="checkbox"/> Tier II* <input type="checkbox"/> Tier IV* <input type="checkbox"/> Other: _____ State-specific reporting standards: _____
	TR-01 (12.5')	12/14/18	15:10			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/14/18	
	TR-02 (11.5')	12/14/18	10:15			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/14/18	
	TR-03 (9')	12/20/18	09:20			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/20/18	
	TR-04 (11.5')	12/20/18	07:50			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/20/18	
	TR-04 (12.9')	12/20/18	08:00			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/20/18	
	TR-05 (12.5')	12/17/18	16:45			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/17/18	
	TR-10 (4')	12/18/18	12:00			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/18/18	
	TR-10 (4.5')	12/18/18	12:05			2	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/18/18	
	TR-19 (7-8')	12/17/18	10:35			1	1	1	1	X	1			<input checked="" type="checkbox"/> Frozen 12/17/18	

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Charles Hampton Fe Ex 12/27/18 1630  
Sted Drumwelder 11/30/18 1036

Condition upon receipt:  Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen

Custody Seals:  Present  Intact  Broken

Champton Environmental



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 2 of 4

SC52856 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: Dug Environmental, Inc

1563 Lyell Avenue  
Rockster, NY 14606

Invoice To: SAWF

Telephone #: 585 454 0210

P.O. No.: \_\_\_\_\_

Quote #: \_\_\_\_\_

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=None 12=

List Preservative Code below:

7911(SO)  
2(L) 2 11 11 4 5

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= \_\_\_\_\_

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Temp °C	Observed	EDD format:	E-mail to:	Custody Seals:
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic					
SC52856-4	TB-21 (5-6')	12/17/18	15:30	G	SO	1				X	1/1	Sturber	Present	
	TB-22 (13')	12/20/18	10:45	G	SO	3	1			X	1/1	Champion@dayman.net	Intact	
	MW-A	12/27/18	09:53	GW	GW	3				X			Broken	
	MW-B	12/27/18	11:09	GW	GW	3				X			Soil Jar Frozen	
	MW-C	12/27/18	08:40	GW	GW	3	2			X				
	MW-D	12/27/18	10:00	GW	GW	3	2			X				
	MW-E	12/27/18	08:56	GW	GW	3				X				
	MW-F	12/27/18	10:30	GW	GW	3				X				
	MW-G	12/27/18	08:17	GW	GW	3				X				
	MW-H	12/27/18	07:25	GW	GW	3				X				

Check if chlorinated

MA DEP MCP CAM Report?  Yes  No  
CT DPH RCP Report?  Yes  No  
Standard  No QC  
DQA\*   
ASP A\*  ASP B\*   
NI Reduced\*  NI Full\*   
Tier II\*  Tier IV\*   
Other: \_\_\_\_\_  
State-specific reporting standards: \_\_\_\_\_

Condition upon receipt:  Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen  
Custody Seals:  Present  Intact  Broken





Spectrum Analytical

# CHAIN OF CUSTODY RECORD

*SCS2856*

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.

Page 3 of 4

Report To: Day Environmental, Inc

1563 Baycell Avenue  
Rockster, NY 14606

Invoice To: SAWIE

Project No: 55295-18  
Site Name: 415 + 441 Chandler St  
Location: Sarveston State: NY  
Sampler(s): C.Hampton

Telephone #: 585 454 0210  
Project Mgr: C.Hampton

P.O.No.: \_\_\_\_\_  
Quote #: \_\_\_\_\_

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=None 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	Containers				Analysis					Check if chlorinated		QA/QC Reporting Notes:																	
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TCL + CP-51 VOC x 8260	TCL + CP-51 SVOC x 8270	CP-51 SVOC x 8270	RCRA Metals	Total Cyanide 8260	Halocarbons x	<input type="checkbox"/>	<input type="checkbox"/>	MA DEP MCP CAM Report? <input type="checkbox"/>	CT DPH RCP Report? <input type="checkbox"/>	Standard <input type="checkbox"/>	DOA* <input type="checkbox"/>	ASP A* <input type="checkbox"/>	ASP B* <input checked="" type="checkbox"/>	NI Reduced* <input type="checkbox"/>	NI Full* <input type="checkbox"/>	Tier II* <input type="checkbox"/>	Tier IV* <input type="checkbox"/>	Other: _____	State-specific reporting standards: _____					
<i>SCS2856-21</i>	MW-I	12/27/18	11:25	G	GW	3																												
	MW-J	12/26/18	13:44			3																												
	MW-K	12/27/18	14:20			3			1																									
	MW-L	12/26/18	17:10			3																												
	MW-N	12/26/18	16:22			3																												
	MW-O	12/26/18	10:01			3																												
	MW-P	12/26/18	11:06			3																												
	MW-Q	12/26/18	11:05			3																												
	MW-R	12/26/18	12:35			3																												
	MW-S	12/26/18	12:31			3																												

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Temp °C: \_\_\_\_\_

EDD format:  Standard

E-mail to: Champton@daymail.net

*Charles Hampton*  
*Yolk*

*Fel EX*  
*Ort Mulla*

12/27/18  
12/28/18

1630  
136

Corrected  
1.1

Condition upon receipt:  Present  Intact  Broken  
 Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 4 of 4

### 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: Day Environmental, Inc.

1563 Lyell Avenue  
Rehoboth, NY 14606

Telephone #: 585 454 0210

Project Mgr: C Atkinson

Invoice To: SAME

P.O. No.: \_\_\_\_\_

Quote #: \_\_\_\_\_

Project No: 55295-18

Site Name: 415+ 441 Chandler St

Location: Sarnettown State: NY  
Sampler(s): C Atkinson

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=Pure 12=\_\_\_\_\_

#### List Preservative Code below:

2 11 4 4 5

#### 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=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Analysis	Check if chlorinated	MA DEP MCP CAM Report? <input type="checkbox"/> Yes <input type="checkbox"/> No CT DPH RCP Report? <input type="checkbox"/> Yes <input type="checkbox"/> No Standard <input type="checkbox"/> No QC <input type="checkbox"/> <input type="checkbox"/> DQA* <input type="checkbox"/> <input type="checkbox"/> ASP A* <input checked="" type="checkbox"/> ASP B* <input type="checkbox"/> <input type="checkbox"/> NJ Reduced* <input type="checkbox"/> NJ Full* <input type="checkbox"/> <input type="checkbox"/> Tier II* <input type="checkbox"/> Tier IV* <input type="checkbox"/> Other: _____ State-specific reporting standards: _____
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
<u>SL52856-31</u>	<u>MW -T</u>	<u>12/26/18</u>	<u>14:15</u>	<u>G</u>	<u>GW</u>	<u>3</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>RCRA Metals</u>	<input type="checkbox"/>	<input type="checkbox"/>
	<u>TR-11 (G.C.)</u>	<u>12/26/18</u>	<u>16:20</u>	<u>G</u>		<u>3</u>		<u>X</u>		<u>Total Cyanide</u>	<input type="checkbox"/>	<input type="checkbox"/>
	<u>TR-18 (G.C.)</u>	<u>12/26/18</u>	<u>10:15</u>	<u>G</u>		<u>3</u>		<u>X</u>			<input type="checkbox"/>	<input type="checkbox"/>
	<u>Trip Blank 12/27/18</u>	<u>---</u>	<u>---</u>	<u>---</u>		<u>---</u>		<u>X</u>			<input type="checkbox"/>	<input type="checkbox"/>
	<u>Trip Blank 12/27/18</u>	<u>---</u>	<u>---</u>	<u>---</u>		<u>---</u>		<u>X</u>			<input type="checkbox"/>	<input type="checkbox"/>
	<u>Trip Blank 12/27/18</u>	<u>---</u>	<u>---</u>	<u>---</u>		<u>---</u>		<u>X</u>			<input type="checkbox"/>	<input type="checkbox"/>
	<u>Trip Blank 12/27/18</u>	<u>---</u>	<u>---</u>	<u>---</u>		<u>---</u>		<u>X</u>			<input type="checkbox"/>	<input type="checkbox"/>
	<u>Trip Blank 12/27/18</u>	<u>---</u>	<u>---</u>	<u>---</u>		<u>---</u>		<u>X</u>			<input type="checkbox"/>	<input type="checkbox"/>

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Temp °C: 1.1  
Observed: 1.1  
Corrected Factor: 0  
E-mail to: Standard  
Chompson@daymon.com

Condition upon receipt:  Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen  
Custody Seals:  Present  Intact  Broken

SL52856



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 1 of 4

SS2856 *Ben*

Special Handling:

- Standard TAT - 7 to 10 business days
  - Rush TAT - Date Needed: \_\_\_\_\_
- All TAT's subject to laboratory approval  
Min. 24-hr notification needed for rushes  
Samples disposed after 30 days unless otherwise instructed.

Report To: Day Environmental Inc  
1563 Byell Avenue  
Rochester NY 14606

Telephone #: 585 454 0210  
 Project Mgr: Champton

Invoice To: SAWE

P.O. No.: \_\_\_\_\_  
 Quote #: \_\_\_\_\_

Project No: 55295-18

Site Name: 415 & 4th Chandler St  
 Location: Champton State: NY

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
 7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=NaOH 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= \_\_\_\_\_

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix
SS2856A	TR-01 (11')	12/14/18	14:50	G	SO
	TR-01 (12.5')	12/14/18	15:10		
	TR-02 (11.5')	12/14/18	10:15		
	TR-03 (9')	12/20/18	08:20		
	TR-04 (11.5')	12/20/18	07:50		
	TR-04 (12.9')	12/20/18	08:00		
	TR-05 (12.5')	12/18/18	16:45		
	TR-10 (4')	12/18/18	12:00		
	TR-10 (4.5')	12/18/18	12:05		
	TR-19 (7-8')	12/17/18	10:35		

Containers				Analysis				Check if chlorinated	
# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	790	791	792	793	MA DEP MCP CAM Report?	CT DPH RCP Report?
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>
73	1	1	1	X	X	X	X	<input type="checkbox"/>	<input type="checkbox"/>

Relinquished by: Charles Hampton Received by: Sturber

Date: 12/27/18 Time: 1630 Temp °C: 1

Signature: Charles Hampton Date: 11/28/18 Time: 1036 Temp °C: 1

Condition upon receipt:  Ambient  Iced  Refrigerated  DI VOA Frozen  Present  Intact  Broken

Custody Seals:  Present  Intact  Broken

COURIER: PLACE ASTRA LABEL HERE

Recipient's phone number  
( )

Company

Dept./Floor/Suite

Street Address (1)

City

State

ORIGIN ID: EHTA (585) 454-0210  
 ATTN: JEFF DANZINGER  
 DAY ENVIRONMENTAL, INC.  
 1563 LYELL AVENUE  
 ROCHESTER, NY 14606  
 UNITED STATES US

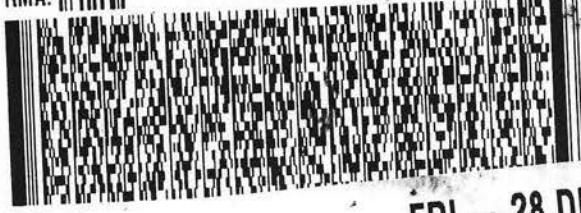
SHIP DATE: 10DEC18  
 ACTWGT: 40.00 LB MAN  
 CAD: 0654830/CAFE3211

TO **ROBERT BRISTOL**  
**EUROFINS SPECTRUM ANALYTICAL, INC.**  
**11 ALMGREN DRIVE**

**AGAWAM MA 01001**

(413) 789-9018  
 REF: # 46127 SAMPLE RETURNS

RMA: ||| ||| |||



**FedEx**  
Express



AT105090211181T

**FRI - 28 DEC 10:30A**  
**PRIORITY OVERNIGHT T**

**FedEx**

TRK#  
0221

**4663 8817 6421**

**EB EHTA**

**01001**

MA-US

**BDL**

0607-435 04018 XPR 04/19



Part # 1

RT **746**  
 ST **8**  
 1  
 10:30  
**A**  
 6421  
 12:28



NOT LIFT USING THIS TAG

DO NOT LIFT USING THIS TAG

↑ ALIGN FEDEX AIRB'LL POUCH HERE ↓

ORIGIN ID: EHTA (585) 454-0210  
ATTN: JEFF DANZINGER  
DAY ENVIRONMENTAL, INC.  
1563 LYELL AVENUE  
ROCHESTER, NY 14606  
UNITED STATES US

SHIP DATE: 10DEC18  
ACTWGT: 40.00 LB MAN  
CAD: 0654830/CAFE3211

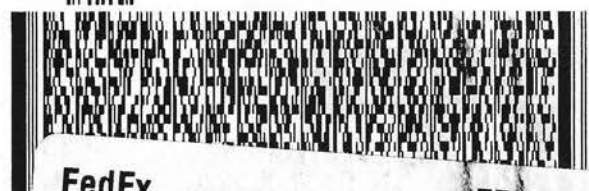
TO **ROBERT BRISTOL**  
**EUROFINS SPECTRUM ANALYTICAL, INC.**  
**11 ALMGREN DRIVE**

551C1/F1FF/104C

**AGAWAM MA 01001**

(413) 789-8018  
REF: # 46127 SAMPLE RETURNS

RMA: ||| ||| |||



**FedEx**  
Express



**FedEx**  
TRK#  
0221 4663 8817 6410

**FRI - 28 DEC 10:30A**  
**PRIORITY OVERNIGHT**

**EB EHTA**

01001  
MA-US BDL



#117036 12/27 592J2/E4AF/DCAS



RT **746** 1 **A**  
10:30 0410  
12:28

**DO NOT REMOVE THIS TAG**



Please Print

Number

Room

(We cannot deliver to P.O. Boxes or P.O. Zip Codes)

Zip

ORIGIN ID: EHTA (585) 454-0210  
 ATTN: JEFF DANZINGER  
 DAY ENVIRONMENTAL, INC.  
 1563 LYELL AVENUE

SHIP DATE: 10DEC18  
 ACTWGT: 40.00 LB MAN  
 CAD: 0654830/CAFE3211

ROCHESTER, NY 14606  
 UNITED STATES US

TO **ROBERT BRISTOL**  
**EUROFINS SPECTRUM ANALYTICAL, INC.**  
**11 ALMGREN DRIVE**

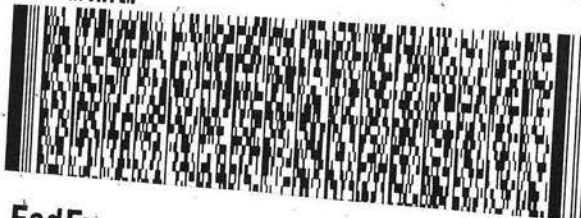
© 2004 Fed

**AGAWAM MA 01001**

(413) 789-9018

REF: # 46127 SAMPLE RETURNS

RMA: ||| |||| |||



**FedEx**  
Express



**FedEx**

TRK# 0221 4663 8817 6400

**FRI - 28 DEC 10:30A**  
**PRIORITY OVERNIGHT**

**EB EHTA**

01001

MA-US BDL



\*117036 12/27 552J2/E4RF/DC45

46 1 A  
 10:30 6400  
 12:28

551C1/F1FF/104C

J18111306050104  
 61/20 23/00 25/00 26/00 27/00 28/00 29/00 30/00 31/00 32/00 33/00 34/00 35/00 36/00 37/00 38/00 39/00 40/00 41/00 42/00 43/00 44/00 45/00 46/00 47/00 48/00 49/00 50/00 51/00 52/00 53/00 54/00 55/00 56/00 57/00 58/00 59/00 60/00 61/00 62/00 63/00 64/00 65/00 66/00 67/00 68/00 69/00 70/00 71/00 72/00 73/00 74/00 75/00 76/00 77/00 78/00 79/00 80/00 81/00 82/00 83/00 84/00 85/00 86/00 87/00 88/00 89/00 90/00 91/00 92/00 93/00 94/00 95/00 96/00 97/00 98/00 99/00 100/00

## Batch Summary

### 'Inonel'

#### Subcontracted Analyses

SC52856-01 (TB-01 (11'))  
SC52856-02 (TB-01 (12.5'))  
SC52856-03 (TB-02 (11.5'))  
SC52856-04 (TB-03 (9'))  
SC52856-05 (TB-04 (11.5'))  
SC52856-06 (TB-04 (12.9'))  
SC52856-07 (TB-05 (12.5'))  
SC52856-08 (TB-10 (4'))  
SC52856-09 (TB-10 (4-5'))  
SC52856-10 (TB-19 (7-8'))  
SC52856-11 (TB-21 (5-6'))  
SC52856-12 (TB-22 (13'))

### 190030571309

#### Subcontracted Analyses

P00371IB003571309  
P00371IQ003571309  
SC52856-15 (MW-C)  
SC52856-16 (MW-D)  
SC52856-20 (MW-H)  
SC52856-23 (MW-K)  
SC52856-26 (MW-O)  
SC52856-27 (MW-P)  
SC52856-28 (MW-Q)  
SC52856-29 (MW-R)  
SC52856-30 (MW-S)  
SC52856-31 (MW-T)

### 190031404408

#### Subcontracted Analyses

P00304HB003404408  
P00304HQ003404408  
SC52856-15 (MW-C)  
SC52856-16 (MW-D)  
SC52856-20 (MW-H)  
SC52856-23 (MW-K)  
SC52856-26 (MW-O)  
SC52856-27 (MW-P)  
SC52856-28 (MW-Q)  
SC52856-29 (MW-R)  
SC52856-30 (MW-S)  
SC52856-31 (MW-T)

### 19007102101A

#### Subcontracted Analyses

LRP957589D007102101A  
MSP957589R007102101A  
P00702AB007102101A  
P00702AQ007102101A  
SC52856-15 (MW-C)

SC52856-16 (MW-D)  
SC52856-26 (MW-O)  
SC52856-27 (MW-P)  
SC52856-28 (MW-Q)  
SC52856-29 (MW-R)  
SC52856-30 (MW-S)  
SC52856-31 (MW-T)

### 461562A

#### Subcontracted Analyses

CC21618-BLK  
CC21618-LCS  
CC21618-LCSD  
CC21618-MS  
CC21618-MSD  
SC52856-10 (TB-19 (7-8'))  
SC52856-11 (TB-21 (5-6'))

### 461564A

#### Subcontracted Analyses

CC21618-BLK  
CC21618-LCS  
CC21618-LCSD  
CC21618-MS  
CC21618-MSD  
SC52856-09 (TB-10 (4-5'))  
SC52856-10 (TB-19 (7-8'))  
SC52856-11 (TB-21 (5-6'))

### 461572A

#### Subcontracted Analyses

CC21102-BLK  
CC21102-LCS  
CC21102-LCSD  
SC52856-15 (MW-C)  
SC52856-16 (MW-D)

### 461581A

#### Subcontracted Analyses

CC20774-BLK  
CC20774-LCS  
CC20774-LCSD  
SC52856-24 (MW-L)  
SC52856-25 (MW-N)  
SC52856-32 (TB-11 (GW))

**461615A****Subcontracted Analyses**

CC21515-BLK  
CC21515-LCS  
CC21515-LCSD  
SC52856-15 (MW-C)  
SC52856-16 (MW-D)  
SC52856-23 (MW-K)

**461615B****Subcontracted Analyses**

CC21515-BLK  
CC21515-LCS  
CC21515-LCSD  
SC52856-15 (MW-C)  
SC52856-16 (MW-D)  
SC52856-23 (MW-K)

**461716A****Subcontracted Analyses**

CC21270-BLK  
CC21270-LCS  
CC21270-LCSD  
CC21270-MS  
CC21270-MSD  
SC52856-02 (TB-01 (12.5'))  
SC52856-03 (TB-02 (11.5'))  
SC52856-12 (TB-22 (13'))  
SC52856-34 (Trip Blank 12/27/18)

**461826A****Subcontracted Analyses**

CC21618-BLK  
CC21618-LCS  
CC21618-LCSD  
CC21618-MS  
CC21618-MSD  
SC52856-01 (TB-01 (11'))  
SC52856-02RE1 (TB-01 (12.5'))  
SC52856-03RE1 (TB-02 (11.5'))  
SC52856-04 (TB-03 (9'))  
SC52856-05 (TB-04 (11.5'))  
SC52856-06 (TB-04 (12.9'))  
SC52856-07 (TB-05 (12.5'))  
SC52856-08 (TB-10 (4'))  
SC52856-12RE1 (TB-22 (13'))

**461964A****Subcontracted Analyses**

CC21849-BLK  
CC21849-LCS  
CC21849-LCSD  
CC21849-MS  
CC21849-MSD

SC52856-01RE1 (TB-01 (11'))  
SC52856-05RE1 (TB-04 (11.5'))  
SC52856-07RE1 (TB-05 (12.5'))

**L190031AA****Subcontracted Analyses**

LCSL93QL190031AA  
MSP957580RL190031AA  
SC52856-22 (MW-J)  
SDP957580ML190031AA  
VBLKL93BL190031AA

**L190071AA****Subcontracted Analyses**

LCSL07QL190071AA  
LCSL07YL190071AA  
SC52856-16 (MW-D)  
SC52856-19 (MW-G)  
SC52856-20 (MW-H)  
SC52856-21 (MW-I)  
SC52856-23 (MW-K)  
SC52856-35 (Trip Blank 12/27/18 )  
VBLKL07BL190071AA

**L190082AA****Subcontracted Analyses**

LCSL14QL190082AA  
LCSL14YL190082AA  
SC52856-15 (MW-C)  
SC52856-17 (MW-E)  
SC52856-18 (MW-F)  
SC52856-24 (MW-L)  
SC52856-25 (MW-N)  
SC52856-26 (MW-O)  
SC52856-27 (MW-P)  
SC52856-28 (MW-Q)  
SC52856-29 (MW-R)  
SC52856-31 (MW-T)  
SC52856-32 (TB-11 (GW))  
SC52856-33 (TB-18 (GW))  
VBLKL14BL190082AA

**W190072AA****Subcontracted Analyses**

LCSW25QW190072AA  
SC52856-13 (MW-A)  
SC52856-14 (MW-B)  
VBLKW25BW190072AA



**EUROFINS SPECTRUM ANALYTICAL  
LABORATORY REPORT  
SC52917**

## **Laboratory Report** **SC52917**

Day Environmental, Inc.  
 1563 Lyell Avenue  
 Rochester, NY 14606  
 Attn: Charles Hampton

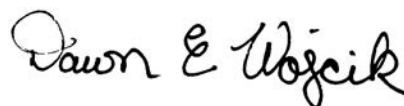
Project: 415+441 Chandler St - Jamestown, NY  
 Project #: 5529S-18

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 29 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](http://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:** SC52917  
**Project:** 415+441 Chandler St - Jamestown, NY  
**Project Number:** 5529S-18

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC52917-01	MW-C	Ground Water	02-Jan-19 07:55	03-Jan-19 10:47
SC52917-02	MW-H	Ground Water	02-Jan-19 09:00	03-Jan-19 10:47
SC52917-03	MW-P	Ground Water	02-Jan-19 11:15	03-Jan-19 10:47
SC52917-04	MW-Q	Ground Water	02-Jan-19 10:05	03-Jan-19 10:47
SC52917-05	MW-R	Ground Water	02-Jan-19 12:15	03-Jan-19 10:47
SC52917-06	Duplicate	Ground Water	02-Jan-19 00:00	03-Jan-19 10:47
SC52917-07	FB20190102	DI/PFA Free H2O	02-Jan-19 12:45	03-Jan-19 10:47

**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 1.1 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.

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

**EPA 537 modified**

**Laboratory Control Samples:**

LCS0081Q19008001

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Estimated value

Perfluorobutanoic acid  
Perfluoropentanoic acid

**Samples:**

SC52917-01                      *MW-C*

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Estimated value

Perfluorononanoic acid  
Perfluorooctanesulfonamide

SC52917-02                      *MW-H*

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Estimated value

6:2 fluorotelomersulfonate  
Perfluoroheptanesulfonate  
Perfluorohexanesulfonate

SC52917-03                      *MW-P*

---

Estimated value

Perfluorobutanoic acid  
Perfluoroheptanesulfonate  
Perfluoroheptanoic acid  
Perfluorohexanoic acid  
Perfluorononanoic acid

SC52917-04                      *MW-Q*

---

Estimated value

Perfluorobutanesulfonate  
Perfluorobutanoic acid  
Perfluorohexanesulfonate  
Perfluorohexanoic acid  
Perfluorooctanoic acid

SC52917-05                      *MW-R*

---

**EPA 537 modified**

**Samples:**

SC52917-05                      *MW-R*

---

Estimated value

Perfluorohexanesulfonate

SC52917-06                      *Duplicate*

---

Estimated value

Perfluorobutanesulfonate  
Perfluorobutanoic acid  
Perfluoroheptanesulfonate  
Perfluorohexanesulfonate  
Perfluorooctanoic acid

LCS0143Y19014013

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Estimated value

Perfluorobutanoic acid

**SW-846 8270D SIM**

**Samples:**

SC52917-02                      *MW-H*

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Estimated value

1,4-Dioxane

## Sample Acceptance Check Form

Client: Day Environmental, Inc.  
Project: 415+441 Chandler St - Jamestown, NY / 5529S-18  
Work Order: SC52917  
Sample(s) received on: 1/3/2019

*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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Summary of Hits

**Lab ID:** SC52917-01

**Client ID:** MW-C

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Perfluorobutanesulfonate	10		0.86	ng/l	EPA 537 modified
Perfluoroheptanesulfonate	5.7		1.7	ng/l	EPA 537 modified
Perfluoroheptanoic acid	2.7		0.86	ng/l	EPA 537 modified
Perfluorohexanesulfonate	21		1.7	ng/l	EPA 537 modified
Perfluorononanoic acid	0.54	J.	1.7	ng/l	EPA 537 modified
Perfluorooctanesulfonamide	0.68	J.	2.6	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	130		1.7	ng/l	EPA 537 modified
Perfluorooctanoic acid	8.0		0.86	ng/l	EPA 537 modified
1,4-Dioxane	4		0.2	ug/l	SW-846 8270D SIM

**Lab ID:** SC52917-02

**Client ID:** MW-H

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
6:2 fluorotelomersulfonate	1.8	J.	1.9	ng/l	EPA 537 modified
Perfluorobutanesulfonate	3.1		0.93	ng/l	EPA 537 modified
Perfluorobutanoic acid	6.7		5.6	ng/l	EPA 537 modified
Perfluoroheptanesulfonate	0.55	J.	1.9	ng/l	EPA 537 modified
Perfluoroheptanoic acid	1.0		0.93	ng/l	EPA 537 modified
Perfluorohexanesulfonate	1.6	J.	1.9	ng/l	EPA 537 modified
Perfluorohexanoic acid	2.3		1.9	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	23		1.9	ng/l	EPA 537 modified
Perfluorooctanoic acid	2.7		0.93	ng/l	EPA 537 modified
1,4-Dioxane	0.2	J.	0.2	ug/l	SW-846 8270D SIM

**Lab ID:** SC52917-03

**Client ID:** MW-P

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Perfluorobutanesulfonate	1.6		0.86	ng/l	EPA 537 modified
Perfluorobutanoic acid	3.0	J.	5.2	ng/l	EPA 537 modified
Perfluoroheptanesulfonate	1.6	J.	1.7	ng/l	EPA 537 modified
Perfluoroheptanoic acid	0.55	J.	0.86	ng/l	EPA 537 modified
Perfluorohexanesulfonate	4.5		1.7	ng/l	EPA 537 modified
Perfluorohexanoic acid	0.68	J.	1.7	ng/l	EPA 537 modified
Perfluorononanoic acid	0.79	J.	1.7	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	300		17	ng/l	EPA 537 modified
Perfluorooctanoic acid	2.0		0.86	ng/l	EPA 537 modified

Lab ID: SC52917-04

Client ID: MW-Q

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Perfluorobutanesulfonate	0.63	J.	0.95	ng/l	EPA 537 modified
Perfluorobutanoic acid	3.8	J.	5.7	ng/l	EPA 537 modified
Perfluorohexanesulfonate	1.5	J.	1.9	ng/l	EPA 537 modified
Perfluorohexanoic acid	0.39	J.	1.9	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	11		1.9	ng/l	EPA 537 modified
Perfluorooctanoic acid	0.64	J.	0.95	ng/l	EPA 537 modified

Lab ID: SC52917-05

Client ID: MW-R

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Perfluorobutanesulfonate	2.2		0.85	ng/l	EPA 537 modified
Perfluorobutanoic acid	12		5.1	ng/l	EPA 537 modified
Perfluoroheptanoic acid	1.1		0.85	ng/l	EPA 537 modified
Perfluorohexanesulfonate	0.44	J.	1.7	ng/l	EPA 537 modified
Perfluorohexanoic acid	1.8		1.7	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	2.6		1.7	ng/l	EPA 537 modified
Perfluorooctanoic acid	5.4		0.85	ng/l	EPA 537 modified

Lab ID: SC52917-06

Client ID: Duplicate

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Perfluorobutanesulfonate	0.63	J.	0.95	ng/l	EPA 537 modified
Perfluorobutanoic acid	4.9	J.	5.7	ng/l	EPA 537 modified
Perfluoroheptanesulfonate	0.44	J.	1.9	ng/l	EPA 537 modified
Perfluorohexanesulfonate	1.2	J.	1.9	ng/l	EPA 537 modified
Perfluoro-octanesulfonate	9.7		1.9	ng/l	EPA 537 modified
Perfluorooctanoic acid	0.60	J.	0.95	ng/l	EPA 537 modified

Lab ID: SC52917-07

Client ID: FB20190102

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
6:2 fluorotelomersulfonate	12		1.7	ng/l	EPA 537 modified

*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

MW-C Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 02-Jan-19 07:55 Received 03-Jan-19  
 SC52917-01

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

Subcontracted Analyses

Prepared by method METHOD

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

27619-97-2	6:2 fluorotelomersulfonate	< 1.7		ng/l	1.7	0.86	1	EPA 537 modified	14-Jan-19 14:30	16-Jan-19 12:58	10670	19014013	
39108-34-4	8:2 fluorotelomersulfonate	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
2991-50-6	NEtFOSAA	< 2.6		ng/l	2.6	0.86	1	"	"	"	"	"	"
2355-31-9	NMeFOSAA	< 2.6		ng/l	2.6	0.86	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	130		ng/l	1.7	0.35	1	"	"	"	"	"	"
375-73-5	Perfluorobutanesulfonate	10		ng/l	0.86	0.26	1	"	"	"	"	"	"
375-22-4	Perfluorobutanoic acid	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
335-77-3	Perfluorodecanesulfonate	< 1.7		ng/l	1.7	0.52	1	"	"	"	"	"	"
335-76-2	Perfluorodecanoic acid	< 1.7		ng/l	1.7	0.78	1	"	"	"	"	"	"
307-55-1	Perfluorododecanoic acid	< 1.7		ng/l	1.7	0.43	1	"	"	"	"	"	"
375-92-8	Perfluoroheptanesulfonate	5.7		ng/l	1.7	0.35	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	2.7		ng/l	0.86	0.35	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	21		ng/l	1.7	0.35	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	0.54	J.	ng/l	1.7	0.35	1	"	"	"	"	"	"
754-91-6	Perfluorooctanesulfonamide	0.68	J.	ng/l	2.6	0.43	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	8.0		ng/l	0.86	0.26	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic acid	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
376-06-7	Perfluorotetradecanoic acid	< 0.86		ng/l	0.86	0.26	1	"	"	"	"	"	"
72629-94-8	Perfluorotridecanoic acid	< 0.86		ng/l	0.86	0.35	1	"	"	"	"	"	"
2058-94-8	Perfluoroundecanoic acid	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"

Surrogate recoveries:

27619-97-2L	13C2-6:2-FTS	110			32-170 %			"	"	"	"	"	"
39108-34-4L	13C2-8:2-FTS	128			27-164 %			"	"	"	"	"	"
307-55-1L	13C2-PFDoDA	62			39-130 %			"	"	"	"	"	"
376-06-7L	13C2-PFTeDA	61			26-119 %			"	"	"	"	"	"
375-73-5L	13C3-PFBS	368			26-148 %			"	"	"	"	"	"
355-46-4L	13C3-PFHxS	68			34-126 %			"	"	"	"	"	"
375-22-4L	13C4-PFBA	77			33-123 %			"	"	"	"	"	"
375-85-9L	13C4-PFHpA	53			35-126 %			"	"	"	"	"	"
307-24-4LC5	13C5-PFHxA	41			35-138 %			"	"	"	"	"	"
2706-90-3L	13C5-PFPeA	139			31-157 %			"	"	"	"	"	"
335-76-2LC6	13C6-PFDA	86			47-125 %			"	"	"	"	"	"
2058-94-8LC7	13C7-PFUUnDA	71			30-128 %			"	"	"	"	"	"
335-67-1L	13C8-PFOA	88			48-122 %			"	"	"	"	"	"
1763-23-1LC8	13C8-PFOS	94			50-121 %			"	"	"	"	"	"
754-91-6L	13C8-PFOSA	44			11-127 %			"	"	"	"	"	"
375-95-1LC9	13C9-PFNA	85			41-144 %			"	"	"	"	"	"
2355-31-9L	d3-NMeFOSAA	113			30-127 %			"	"	"	"	"	"
2991-50-6L	d5-NEtFOSAA	111			30-142 %			"	"	"	"	"	"

Subcontracted Analyses

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

Sample Identification

<b>MW-C</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52917-01	5529S-18	Ground Water	02-Jan-19 07:55	03-Jan-19

<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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.3510C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	4		ug/l	0.2	0.05	1	SW-846 8270D SIM	07-Jan-19 21:05	09-Jan-19 05:29	10670	007WAA0	
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*Surrogate recoveries:*

38072-94-5	1-Methylnaphthalene-d10	95			42-123 %			"	"	"	"	"	"
63466-71-7	Benzo(a)pyrene-d12	65			44-120 %			"	"	"	"	"	"
93951-69-0	Fluoranthene-d10	83			51-120 %			"	"	"	"	"	"

Sample Identification

MW-H Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 02-Jan-19 09:00 Received 03-Jan-19  
 SC52917-02

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

Subcontracted Analyses

Prepared by method METHOD

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

27619-97-2	6:2 fluorotelomersulfonate	1.8	J.	ng/l	1.9	0.93	1	EPA 537 modified	08-Jan-19 07:50	09-Jan-19 21:56	10670	19008001	
39108-34-4	8:2 fluorotelomersulfonate	< 5.6		ng/l	5.6	1.9	1	"	"	"	"	"	"
2991-50-6	NEtFOSAA	< 2.8		ng/l	2.8	0.93	1	"	"	"	"	"	"
2355-31-9	NMeFOSAA	< 2.8		ng/l	2.8	0.93	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	23		ng/l	1.9	0.37	1	"	"	"	"	"	"
375-73-5	Perfluorobutanesulfonate	3.1		ng/l	0.93	0.28	1	"	"	"	"	"	"
375-22-4	Perfluorobutanoic acid	6.7		ng/l	5.6	1.9	1	"	"	"	"	"	"
335-77-3	Perfluorodecanesulfonate	< 1.9		ng/l	1.9	0.56	1	"	"	"	"	"	"
335-76-2	Perfluorodecanoic acid	< 1.9		ng/l	1.9	0.84	1	"	"	"	"	"	"
307-55-1	Perfluorododecanoic acid	< 1.9		ng/l	1.9	0.47	1	"	"	"	"	"	"
375-92-8	Perfluoroheptanesulfonate	0.55	J.	ng/l	1.9	0.37	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	1.0		ng/l	0.93	0.37	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	1.6	J.	ng/l	1.9	0.37	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	2.3		ng/l	1.9	0.37	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 1.9		ng/l	1.9	0.37	1	"	"	"	"	"	"
754-91-6	Perfluorooctanesulfonamide	< 2.8		ng/l	2.8	0.47	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	2.7		ng/l	0.93	0.28	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic acid	< 5.6		ng/l	5.6	1.9	1	"	"	"	"	"	"
376-06-7	Perfluorotetradecanoic acid	< 0.93		ng/l	0.93	0.28	1	"	"	"	"	"	"
72629-94-8	Perfluorotridecanoic acid	< 0.93		ng/l	0.93	0.37	1	"	"	"	"	"	"
2058-94-8	Perfluoroundecanoic acid	< 1.9		ng/l	1.9	0.37	1	"	"	"	"	"	"

Surrogate recoveries:

27619-97-2L	13C2-6:2-FTS	114				32-170 %		"	"	"	"	"	"
39108-34-4L	13C2-8:2-FTS	96				27-164 %		"	"	"	"	"	"
307-55-1L	13C2-PFDoDA	63				39-130 %		"	"	"	"	"	"
376-06-7L	13C2-PFTeDA	68				26-119 %		"	"	"	"	"	"
375-73-5L	13C3-PFBS	147				26-148 %		"	"	"	"	"	"
355-46-4L	13C3-PFHxS	77				34-126 %		"	"	"	"	"	"
375-22-4L	13C4-PFBA	80				33-123 %		"	"	"	"	"	"
375-85-9L	13C4-PFHpA	55				35-126 %		"	"	"	"	"	"
307-24-4LC5	13C5-PFHxA	61				35-138 %		"	"	"	"	"	"
2706-90-3L	13C5-PFPeA	91				31-157 %		"	"	"	"	"	"
335-76-2LC6	13C6-PFDA	74				47-125 %		"	"	"	"	"	"
2058-94-8LC7	13C7-PFUUnDA	71				30-128 %		"	"	"	"	"	"
335-67-1L	13C8-PFOA	88				48-122 %		"	"	"	"	"	"
1763-23-1LC8	13C8-PFOS	78				50-121 %		"	"	"	"	"	"
754-91-6L	13C8-PFOSA	44				11-127 %		"	"	"	"	"	"
375-95-1LC9	13C9-PFNA	81				41-144 %		"	"	"	"	"	"
2355-31-9L	d3-NMeFOSAA	62				30-127 %		"	"	"	"	"	"
2991-50-6L	d5-NEtFOSAA	70				30-142 %		"	"	"	"	"	"

Subcontracted Analyses

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Sample Identification

<b>MW-H</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52917-02	5529S-18	Ground Water	02-Jan-19 09:00	03-Jan-19

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

Subcontracted Analyses

Prepared by method SW-846.3510C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	0.2	J.	ug/l	0.2	0.05	1	SW-846 8270D SIM	07-Jan-19 21:05	09-Jan-19 06:00	10670	007WAA0	
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*Surrogate recoveries:*

38072-94-5	1-Methylnaphthalene-d10	90			42-123 %			"	"	"	"	"	"
63466-71-7	Benzo(a)pyrene-d12	70			44-120 %			"	"	"	"	"	"
93951-69-0	Fluoranthene-d10	81			51-120 %			"	"	"	"	"	"

Sample Identification

MW-P Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 02-Jan-19 11:15 Received 03-Jan-19  
 SC52917-03

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

Subcontracted Analyses

Prepared by method METHOD

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

27619-97-2	6:2 fluorotelomersulfonate	< 1.7		ng/l	1.7	0.86	1	EPA 537 modified	08-Jan-19 07:50	09-Jan-19 22:05	10670	19008001	
39108-34-4	8:2 fluorotelomersulfonate	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
2991-50-6	NETFOSAA	< 2.6		ng/l	2.6	0.86	1	"	"	"	"	"	"
2355-31-9	NMeFOSAA	< 2.6		ng/l	2.6	0.86	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	300		ng/l	17	3.5	10	"	"	10-Jan-19 23:17	"	"	"
375-73-5	Perfluorobutanesulfonate	1.6		ng/l	0.86	0.26	1	"	"	09-Jan-19 22:05	"	"	"
375-22-4	Perfluorobutanoic acid	3.0	J.	ng/l	5.2	1.7	1	"	"	"	"	"	"
335-77-3	Perfluorodecanesulfonate	< 1.7		ng/l	1.7	0.52	1	"	"	"	"	"	"
335-76-2	Perfluorodecanoic acid	< 1.7		ng/l	1.7	0.78	1	"	"	"	"	"	"
307-55-1	Perfluorododecanoic acid	< 1.7		ng/l	1.7	0.43	1	"	"	"	"	"	"
375-92-8	Perfluoroheptanesulfonate	1.6	J.	ng/l	1.7	0.35	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	0.55	J.	ng/l	0.86	0.35	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	4.5		ng/l	1.7	0.35	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	0.68	J.	ng/l	1.7	0.35	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	0.79	J.	ng/l	1.7	0.35	1	"	"	"	"	"	"
754-91-6	Perfluorooctanesulfonamide	< 2.6		ng/l	2.6	0.43	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	2.0		ng/l	0.86	0.26	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic acid	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
376-06-7	Perfluorotetradecanoic acid	< 0.86		ng/l	0.86	0.26	1	"	"	"	"	"	"
72629-94-8	Perfluorotridecanoic acid	< 0.86		ng/l	0.86	0.35	1	"	"	"	"	"	"
2058-94-8	Perfluoroundecanoic acid	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"

Surrogate recoveries:

27619-97-2L	13C2-6:2-FTS	103							"	"	"	"	"
39108-34-4L	13C2-8:2-FTS	90							"	"	"	"	"
307-55-1L	13C2-PFDoDA	61							"	"	"	"	"
376-06-7L	13C2-PFTeDA	44							"	"	"	"	"
375-73-5L	13C3-PFBS	102							"	"	"	"	"
355-46-4L	13C3-PFHxS	73							"	"	"	"	"
375-22-4L	13C4-PFBA	87							"	"	"	"	"
375-85-9L	13C4-PFHpA	54							"	"	"	"	"
307-24-4LC5	13C5-PFHxA	78							"	"	"	"	"
2706-90-3L	13C5-PFPeA	89							"	"	"	"	"
335-76-2LC6	13C6-PFDA	73							"	"	"	"	"
2058-94-8LC7	13C7-PFUnDA	70							"	"	"	"	"
335-67-1L	13C8-PFOA	87							"	"	"	"	"
1763-23-1LC8	13C8-PFOS	74							"	"	"	"	"
754-91-6L	13C8-PFOSA	41							"	"	"	"	"
375-95-1LC9	13C9-PFNA	71							"	"	"	"	"
2355-31-9L	d3-NMeFOSAA	68							"	"	"	"	"

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Sample Identification

<b>MW-P</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52917-03	5529S-18	Ground Water	02-Jan-19 11:15	03-Jan-19

<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>
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**Subcontracted Analyses**

Subcontracted Analyses

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

2991-50-6L	d5-NEtFOSAA	72			30-142 %			EPA 537 modified	08-Jan-19	10-Jan-19 22:10	10670	19008001	
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Subcontracted Analyses

Prepared by method SW-846 3510C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	< 0.2		ug/l	0.2	0.05	1	SW-846 8270D SIM	07-Jan-19 21:05	09-Jan-19 06:32	10670	007WAA0	
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*Surrogate recoveries:*

38072-94-5	1-Methylnaphthalene-d10	86			42-123 %			"	"	"	"	"	"
63466-71-7	Benzo(a)pyrene-d12	53			44-120 %			"	"	"	"	"	"
93951-69-0	Fluoranthene-d10	80			51-120 %			"	"	"	"	"	"

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Sample Identification

MW-Q Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 02-Jan-19 10:05 Received 03-Jan-19  
 SC52917-04

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

Subcontracted Analyses

Prepared by method METHOD

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

27619-97-2	6:2 fluorotelomersulfonate	< 1.9		ng/l	1.9	0.95	1	EPA 537 modified	08-Jan-19 07:50	09-Jan-19 22:14	10670	19008001	
39108-34-4	8:2 fluorotelomersulfonate	< 5.7		ng/l	5.7	1.9	1	"	"	"	"	"	"
2991-50-6	NEtFOSAA	< 2.8		ng/l	2.8	0.95	1	"	"	"	"	"	"
2355-31-9	NMeFOSAA	< 2.8		ng/l	2.8	0.95	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	11		ng/l	1.9	0.38	1	"	"	"	"	"	"
375-73-5	Perfluorobutanesulfonate	0.63	J.	ng/l	0.95	0.28	1	"	"	"	"	"	"
375-22-4	Perfluorobutanoic acid	3.8	J.	ng/l	5.7	1.9	1	"	"	"	"	"	"
335-77-3	Perfluorodecanesulfonate	< 1.9		ng/l	1.9	0.57	1	"	"	"	"	"	"
335-76-2	Perfluorodecanoic acid	< 1.9		ng/l	1.9	0.85	1	"	"	"	"	"	"
307-55-1	Perfluorododecanoic acid	< 1.9		ng/l	1.9	0.47	1	"	"	"	"	"	"
375-92-8	Perfluoroheptanesulfonate	< 1.9		ng/l	1.9	0.38	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	< 0.95		ng/l	0.95	0.38	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	1.5	J.	ng/l	1.9	0.38	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	0.39	J.	ng/l	1.9	0.38	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 1.9		ng/l	1.9	0.38	1	"	"	"	"	"	"
754-91-6	Perfluorooctanesulfonamide	< 2.8		ng/l	2.8	0.47	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	0.64	J.	ng/l	0.95	0.28	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic acid	< 5.7		ng/l	5.7	1.9	1	"	"	"	"	"	"
376-06-7	Perfluorotetradecanoic acid	< 0.95		ng/l	0.95	0.28	1	"	"	"	"	"	"
72629-94-8	Perfluorotridecanoic acid	< 0.95		ng/l	0.95	0.38	1	"	"	"	"	"	"
2058-94-8	Perfluoroundecanoic acid	< 1.9		ng/l	1.9	0.38	1	"	"	"	"	"	"

Surrogate recoveries:

27619-97-2L	13C2-6:2-FTS	110			32-170 %			"	"	"	"	"	"
39108-34-4L	13C2-8:2-FTS	100			27-164 %			"	"	"	"	"	"
307-55-1L	13C2-PFDoDA	72			39-130 %			"	"	"	"	"	"
376-06-7L	13C2-PFTeDA	68			26-119 %			"	"	"	"	"	"
375-73-5L	13C3-PFBS	103			26-148 %			"	"	"	"	"	"
355-46-4L	13C3-PFHxS	71			34-126 %			"	"	"	"	"	"
375-22-4L	13C4-PFBA	86			33-123 %			"	"	"	"	"	"
375-85-9L	13C4-PFHpA	53			35-126 %			"	"	"	"	"	"
307-24-4LC5	13C5-PFHxA	74			35-138 %			"	"	"	"	"	"
2706-90-3L	13C5-PFPeA	92			31-157 %			"	"	"	"	"	"
335-76-2LC6	13C6-PFDA	76			47-125 %			"	"	"	"	"	"
2058-94-8LC7	13C7-PFUUnDA	74			30-128 %			"	"	"	"	"	"
335-67-1L	13C8-PFOA	84			48-122 %			"	"	"	"	"	"
1763-23-1LC8	13C8-PFOS	84			50-121 %			"	"	"	"	"	"
754-91-6L	13C8-PFOA	30			11-127 %			"	"	"	"	"	"
375-95-1LC9	13C9-PFNA	89			41-144 %			"	"	"	"	"	"
2355-31-9L	d3-NMeFOSAA	68			30-127 %			"	"	"	"	"	"
2991-50-6L	d5-NEtFOSAA	81			30-142 %			"	"	"	"	"	"

Subcontracted Analyses

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Sample Identification

<b>MW-Q</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52917-04	5529S-18	Ground Water	02-Jan-19 10:05	03-Jan-19

<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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.3510C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	< 0.2		ug/l	0.2	0.05	1	SW-846 8270D SIM	07-Jan-19 21:05	09-Jan-19 09:41	10670	007WAA0	
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*Surrogate recoveries:*

38072-94-5	1-Methylnaphthalene-d10	87			42-123 %			"	"	"	"	"	"
63466-71-7	Benzo(a)pyrene-d12	60			44-120 %			"	"	"	"	"	"
93951-69-0	Fluoranthene-d10	76			51-120 %			"	"	"	"	"	"



Sample Identification

MW-R Client Project # 5529S-18 Matrix Ground Water Collection Date/Time 02-Jan-19 12:15 Received 03-Jan-19  
 SC52917-05

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

Subcontracted Analyses

Prepared by method METHOD

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

27619-97-2	6:2 fluorotelomersulfonate	< 1.7		ng/l	1.7	0.85	1	EPA 537 modified	08-Jan-19 07:50	09-Jan-19 22:41	10670	19008001	
39108-34-4	8:2 fluorotelomersulfonate	< 5.1		ng/l	5.1	1.7	1	"	"	"	"	"	"
2991-50-6	NEtFOSAA	< 2.6		ng/l	2.6	0.85	1	"	"	"	"	"	"
2355-31-9	NMeFOSAA	< 2.6		ng/l	2.6	0.85	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	2.6		ng/l	1.7	0.34	1	"	"	"	"	"	"
375-73-5	Perfluorobutanesulfonate	2.2		ng/l	0.85	0.26	1	"	"	"	"	"	"
375-22-4	Perfluorobutanoic acid	12		ng/l	5.1	1.7	1	"	"	"	"	"	"
335-77-3	Perfluorodecanesulfonate	< 1.7		ng/l	1.7	0.51	1	"	"	"	"	"	"
335-76-2	Perfluorodecanoic acid	< 1.7		ng/l	1.7	0.77	1	"	"	"	"	"	"
307-55-1	Perfluorododecanoic acid	< 1.7		ng/l	1.7	0.43	1	"	"	"	"	"	"
375-92-8	Perfluoroheptanesulfonate	< 1.7		ng/l	1.7	0.34	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	1.1		ng/l	0.85	0.34	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	0.44	J.	ng/l	1.7	0.34	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	1.8		ng/l	1.7	0.34	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 1.7		ng/l	1.7	0.34	1	"	"	"	"	"	"
754-91-6	Perfluorooctanesulfonamide	< 2.6		ng/l	2.6	0.43	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	5.4		ng/l	0.85	0.26	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic acid	< 5.1		ng/l	5.1	1.7	1	"	"	"	"	"	"
376-06-7	Perfluorotetradecanoic acid	< 0.85		ng/l	0.85	0.26	1	"	"	"	"	"	"
72629-94-8	Perfluorotridecanoic acid	< 0.85		ng/l	0.85	0.34	1	"	"	"	"	"	"
2058-94-8	Perfluoroundecanoic acid	< 1.7		ng/l	1.7	0.34	1	"	"	"	"	"	"

Surrogate recoveries:

27619-97-2L	13C2-6:2-FTS	103			32-170 %			"	"	"	"	"	"
39108-34-4L	13C2-8:2-FTS	91			27-164 %			"	"	"	"	"	"
307-55-1L	13C2-PFDoDA	56			39-130 %			"	"	"	"	"	"
376-06-7L	13C2-PFTeDA	59			26-119 %			"	"	"	"	"	"
375-73-5L	13C3-PFBS	114			26-148 %			"	"	"	"	"	"
355-46-4L	13C3-PFHxS	68			34-126 %			"	"	"	"	"	"
375-22-4L	13C4-PFBA	74			33-123 %			"	"	"	"	"	"
375-85-9L	13C4-PFHpA	49			35-126 %			"	"	"	"	"	"
307-24-4LC5	13C5-PFHxA	53			35-138 %			"	"	"	"	"	"
2706-90-3L	13C5-PFPeA	86			31-157 %			"	"	"	"	"	"
335-76-2LC6	13C6-PFDA	64			47-125 %			"	"	"	"	"	"
2058-94-8LC7	13C7-PFUUnDA	64			30-128 %			"	"	"	"	"	"
335-67-1L	13C8-PFOA	77			48-122 %			"	"	"	"	"	"
1763-23-1LC8	13C8-PFOS	78			50-121 %			"	"	"	"	"	"
754-91-6L	13C8-PFOSA	26			11-127 %			"	"	"	"	"	"
375-95-1LC9	13C9-PFNA	75			41-144 %			"	"	"	"	"	"
2355-31-9L	d3-NMeFOSAA	60			30-127 %			"	"	"	"	"	"
2991-50-6L	d5-NEtFOSAA	82			30-142 %			"	"	"	"	"	"

Subcontracted Analyses

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

Sample Identification

<b>MW-R</b>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC52917-05	5529S-18	Ground Water	02-Jan-19 12:15	03-Jan-19

<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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.3510C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	< 0.2		ug/l	0.2	0.05	1	SW-846 8270D SIM	07-Jan-19 21:05	09-Jan-19 07:03	10670	007WAA0	
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*Surrogate recoveries:*

38072-94-5	1-Methylnaphthalene-d10	82			42-123 %			"	"	"	"	"	"
63466-71-7	Benzo(a)pyrene-d12	38			44-120 %			"	"	"	"	"	"
93951-69-0	Fluoranthene-d10	70			51-120 %			"	"	"	"	"	"

Sample Identification

**Duplicate** Client Project # Matrix Collection Date/Time Received  
 SC52917-06 5529S-18 Ground Water 02-Jan-19 00:00 03-Jan-19

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

Subcontracted Analyses

Prepared by method METHOD

Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670

27619-97-2	6:2 fluorotelomersulfonate	< 1.9		ng/l	1.9	0.95	1	EPA 537 modified	08-Jan-19 07:50	09-Jan-19 22:50	10670	19008001	
39108-34-4	8:2 fluorotelomersulfonate	< 5.7		ng/l	5.7	1.9	1	"	"	"	"	"	"
2991-50-6	NEtFOSAA	< 2.9		ng/l	2.9	0.95	1	"	"	"	"	"	"
2355-31-9	NMeFOSAA	< 2.9		ng/l	2.9	0.95	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	9.7		ng/l	1.9	0.38	1	"	"	"	"	"	"
375-73-5	Perfluorobutanesulfonate	0.63	J.	ng/l	0.95	0.29	1	"	"	"	"	"	"
375-22-4	Perfluorobutanoic acid	4.9	J.	ng/l	5.7	1.9	1	"	"	"	"	"	"
335-77-3	Perfluorodecanesulfonate	< 1.9		ng/l	1.9	0.57	1	"	"	"	"	"	"
335-76-2	Perfluorodecanoic acid	< 1.9		ng/l	1.9	0.86	1	"	"	"	"	"	"
307-55-1	Perfluorododecanoic acid	< 1.9		ng/l	1.9	0.48	1	"	"	"	"	"	"
375-92-8	Perfluoroheptanesulfonate	0.44	J.	ng/l	1.9	0.38	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	< 0.95		ng/l	0.95	0.38	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	1.2	J.	ng/l	1.9	0.38	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	< 1.9		ng/l	1.9	0.38	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 1.9		ng/l	1.9	0.38	1	"	"	"	"	"	"
754-91-6	Perfluorooctanesulfonamide	< 2.9		ng/l	2.9	0.48	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	0.60	J.	ng/l	0.95	0.29	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic acid	< 5.7		ng/l	5.7	1.9	1	"	"	"	"	"	"
376-06-7	Perfluorotetradecanoic acid	< 0.95		ng/l	0.95	0.29	1	"	"	"	"	"	"
72629-94-8	Perfluorotridecanoic acid	< 0.95		ng/l	0.95	0.38	1	"	"	"	"	"	"
2058-94-8	Perfluoroundecanoic acid	< 1.9		ng/l	1.9	0.38	1	"	"	"	"	"	"

Surrogate recoveries:

27619-97-2L	13C2-6:2-FTS	103			32-170 %			"	"	"	"	"	"
39108-34-4L	13C2-8:2-FTS	107			27-164 %			"	"	"	"	"	"
307-55-1L	13C2-PFDoDA	75			39-130 %			"	"	"	"	"	"
376-06-7L	13C2-PFTeDA	74			26-119 %			"	"	"	"	"	"
375-73-5L	13C3-PFBS	101			26-148 %			"	"	"	"	"	"
355-46-4L	13C3-PFHxS	73			34-126 %			"	"	"	"	"	"
375-22-4L	13C4-PFBA	85			33-123 %			"	"	"	"	"	"
375-85-9L	13C4-PFHpA	56			35-126 %			"	"	"	"	"	"
307-24-4LC5	13C5-PFHxA	78			35-138 %			"	"	"	"	"	"
2706-90-3L	13C5-PFPeA	94			31-157 %			"	"	"	"	"	"
335-76-2LC6	13C6-PFDA	77			47-125 %			"	"	"	"	"	"
2058-94-8LC7	13C7-PFUUnDA	85			30-128 %			"	"	"	"	"	"
335-67-1L	13C8-PFOA	87			48-122 %			"	"	"	"	"	"
1763-23-1LC8	13C8-PFOS	87			50-121 %			"	"	"	"	"	"
754-91-6L	13C8-PFOSA	24			11-127 %			"	"	"	"	"	"
375-95-1LC9	13C9-PFNA	88			41-144 %			"	"	"	"	"	"
2355-31-9L	d3-NMeFOSAA	71			30-127 %			"	"	"	"	"	"
2991-50-6L	d5-NEtFOSAA	86			30-142 %			"	"	"	"	"	"

Subcontracted Analyses

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

Sample Identification

**Duplicate**  
SC52917-06

Client Project #  
5529S-18

Matrix  
Ground Water

Collection Date/Time  
02-Jan-19 00:00

Received  
03-Jan-19

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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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.3510C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	< 0.2		ug/l	0.2	0.05	1	SW-846 8270D SIM	07-Jan-19 21:05	09-Jan-19 07:35	10670	007WAA0	
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*Surrogate recoveries:*

38072-94-5	1-Methylnaphthalene-d10	89			42-123 %			"	"	"	"	"	"
63466-71-7	Benzo(a)pyrene-d12	60			44-120 %			"	"	"	"	"	"
93951-69-0	Fluoranthene-d10	79			51-120 %			"	"	"	"	"	"

Sample Identification

**FB20190102**  
SC52917-07

Client Project #  
5529S-18

Matrix  
DI/PFA Free H2O

Collection Date/Time  
02-Jan-19 12:45

Received  
03-Jan-19

<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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method METHOD

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

27619-97-2	6:2 fluorotelomersulfonate	12		ng/l	1.7	0.87	1	EPA 537 modified	08-Jan-19 07:50	09-Jan-19 23:09	10670	19008001	
39108-34-4	8:2 fluorotelomersulfonate	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
2991-50-6	NEtFOSAA	< 2.6		ng/l	2.6	0.87	1	"	"	"	"	"	"
2355-31-9	NMeFOSAA	< 2.6		ng/l	2.6	0.87	1	"	"	"	"	"	"
1763-23-1	Perfluoro-octanesulfonate	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"
375-73-5	Perfluorobutanesulfonate	< 0.87		ng/l	0.87	0.26	1	"	"	"	"	"	"
375-22-4	Perfluorobutanoic acid	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
335-77-3	Perfluorodecanesulfonate	< 1.7		ng/l	1.7	0.52	1	"	"	"	"	"	"
335-76-2	Perfluorodecanoic acid	< 1.7		ng/l	1.7	0.78	1	"	"	"	"	"	"
307-55-1	Perfluorododecanoic acid	< 1.7		ng/l	1.7	0.44	1	"	"	"	"	"	"
375-92-8	Perfluoroheptanesulfonate	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"
375-85-9	Perfluoroheptanoic acid	< 0.87		ng/l	0.87	0.35	1	"	"	"	"	"	"
355-46-4	Perfluorohexanesulfonate	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"
307-24-4	Perfluorohexanoic acid	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"
375-95-1	Perfluorononanoic acid	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"
754-91-6	Perfluorooctanesulfonamide	< 2.6		ng/l	2.6	0.44	1	"	"	"	"	"	"
335-67-1	Perfluorooctanoic acid	< 0.87		ng/l	0.87	0.26	1	"	"	"	"	"	"
2706-90-3	Perfluoropentanoic acid	< 5.2		ng/l	5.2	1.7	1	"	"	"	"	"	"
376-06-7	Perfluorotetradecanoic acid	< 0.87		ng/l	0.87	0.26	1	"	"	"	"	"	"
72629-94-8	Perfluorotridecanoic acid	< 0.87		ng/l	0.87	0.35	1	"	"	"	"	"	"
2058-94-8	Perfluoroundecanoic acid	< 1.7		ng/l	1.7	0.35	1	"	"	"	"	"	"

Surrogate recoveries:

27619-97-2L	13C2-6:2-FTS	110			32-170 %			"	"	"	"	"	"
39108-34-4L	13C2-8:2-FTS	105			27-164 %			"	"	"	"	"	"
307-55-1L	13C2-PFDoDA	83			39-130 %			"	"	"	"	"	"
376-06-7L	13C2-PFTeDA	77			26-119 %			"	"	"	"	"	"
375-73-5L	13C3-PFBS	90			26-148 %			"	"	"	"	"	"
355-46-4L	13C3-PFHxS	77			34-126 %			"	"	"	"	"	"
375-22-4L	13C4-PFBA	91			33-123 %			"	"	"	"	"	"
375-85-9L	13C4-PFHpA	55			35-126 %			"	"	"	"	"	"
307-24-4LC5	13C5-PFHxA	96			35-138 %			"	"	"	"	"	"
2706-90-3L	13C5-PFPeA	86			31-157 %			"	"	"	"	"	"
335-76-2LC6	13C6-PFDA	87			47-125 %			"	"	"	"	"	"
2058-94-8LC7	13C7-PFUnda	93			30-128 %			"	"	"	"	"	"
335-67-1L	13C8-PFOA	93			48-122 %			"	"	"	"	"	"
1763-23-1LC8	13C8-PFOS	91			50-121 %			"	"	"	"	"	"
754-91-6L	13C8-PFOSA	59			11-127 %			"	"	"	"	"	"
375-95-1LC9	13C9-PFNA	92			41-144 %			"	"	"	"	"	"
2355-31-9L	d3-NMeFOSAA	77			30-127 %			"	"	"	"	"	"
2991-50-6L	d5-NEtFOSAA	94			30-142 %			"	"	"	"	"	"

Subcontracted Analyses

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Sample Identification

**FB20190102**

SC52917-07

Client Project #

5529S-18

Matrix

DI/PFA Free H2O

Collection Date/Time

02-Jan-19 12:45

Received

03-Jan-19

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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>
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**Subcontracted Analyses**

Subcontracted Analyses

Prepared by method SW-846.3510C

*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

123-91-1	1,4-Dioxane	< 0.2		ug/l	0.2	0.05	1	SW-846 8270D SIM	07-Jan-19 21:05	09-Jan-19 08:06	10670	007WAA0	
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*Surrogate recoveries:*

38072-94-5	1-Methylnaphthalene-d10	82			42-123 %			"	"	"	"	"	"
63466-71-7	Benzo(a)pyrene-d12	71			44-120 %			"	"	"	"	"	"
93951-69-0	Fluoranthene-d10	75			51-120 %			"	"	"	"	"	"

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>EPA 537 modified</u></b>										
<b>Batch 19008001 - METHOD</b>										
<b><u>Matrix Spike (9960448R)</u></b>										
								<b>Source: SC52917-04</b>	<b>Prepared: 08-Jan-19</b>	<b>Analyzed: 09-Jan-19</b>
Perfluorodecanoic acid	5.1		ng/l	2.0	5.4	BRL	95	73-142		
Perfluoroundecanoic acid	5.5		ng/l	2.0	5.4	BRL	103	66-137		
8:2 fluorotelomersulfonate	15		ng/l	5.9	15	BRL	97	60-150		
Perfluorononanoic acid	5.0		ng/l	2.0	5.4	BRL	92	70-130		
Perfluorohexanoic acid	5.8		ng/l	2.0	5.4	0.39	101	70-130		
Perfluorohexanesulfonate	6.2		ng/l	2.0	5.1	1.5	93	73-129		
Perfluoroheptanoic acid	5.1		ng/l	0.99	5.4	BRL	95	67-137		
Perfluorotetradecanoic acid	4.9		ng/l	0.99	5.4	BRL	91	78-133		
Perfluorododecanoic acid	5.2		ng/l	2.0	5.4	BRL	97	76-136		
Perfluorotridecanoic acid	5.3		ng/l	0.99	5.4	BRL	99	57-151		
Perfluorodecanesulfonate	5.1		ng/l	2.0	5.2	BRL	98	41-148		
Perfluorobutanoic acid	11		ng/l	5.9	5.4	3.8	134	58-155		
Perfluoro-octanesulfonate	15		ng/l	2.0	5.1	11	87	48-154		
Perfluorobutanesulfonate	5.2		ng/l	0.99	4.7	0.63	96	73-134		
NMeFOSAA	4.7		ng/l	3.0	5.4	BRL	88	58-157		
NEtFOSAA	3.9		ng/l	3.0	5.4	BRL	73	49-159		
6:2 fluorotelomersulfonate	15		ng/l	2.0	15	BRL	102	70-130		
Perfluoroheptanesulfonate	6.8		ng/l	2.0	5.1	BRL	133	50-145		
Perfluorooctanoic acid	5.6		ng/l	0.99	5.4	0.64	93	48-160		
Perfluoropentanoic acid	6.1		ng/l	5.9	5.4	BRL	114	53-161		
Perfluorooctanesulfonamide	5.0		ng/l	3.0	5.4	BRL	93	70-130		
Surrogate: 13C4-PFHpA	10		ng/l		20		53	35-126		
Surrogate: d3-NMeFOSAA	15		ng/l		20		76	30-127		
Surrogate: d5-NEtFOSAA	17		ng/l		20		84	30-142		
Surrogate: 13C2-6:2-FTS	19		ng/l		19		102	32-170		
Surrogate: 13C9-PFNA	16		ng/l		20		81	41-144		
Surrogate: 13C2-8:2-FTS	17		ng/l		19		89	27-164		
Surrogate: 13C2-PFDoDA	15		ng/l		20		75	39-130		
Surrogate: 13C2-PFTeDA	15		ng/l		20		75	26-119		
Surrogate: 13C3-PFBS	18		ng/l		18		99	26-148		
Surrogate: 13C4-PFBA	16		ng/l		20		81	33-123		
Surrogate: 13C5-PFHxA	15		ng/l		20		76	35-138		
Surrogate: 13C5-PFPeA	16		ng/l		20		83	31-157		
Surrogate: 13C6-PFDA	15		ng/l		20		77	47-125		
Surrogate: 13C7-PFUnDA	15		ng/l		20		78	30-128		
Surrogate: 13C8-PFOA	17		ng/l		20		86	48-122		
Surrogate: 13C8-PFOS	14		ng/l		19		77	50-121		
Surrogate: 13C8-PFOSA	6.8		ng/l		20		34	11-127		
Surrogate: 13C3-PFHxS	13		ng/l		19		69	34-126		
<b><u>Matrix Spike Dup (9960449M)</u></b>										
								<b>Source: SC52917-04</b>	<b>Prepared: 08-Jan-19</b>	<b>Analyzed: 09-Jan-19</b>
Perfluorodecanoic acid	5.3		ng/l	1.9	5.2	BRL	103	73-142	5	30
Perfluoroheptanoic acid	5.2		ng/l	0.96	5.2	BRL	100	67-137	3	30
Perfluoroundecanoic acid	4.6		ng/l	1.9	5.2	BRL	89	66-137	18	30
Perfluorotridecanoic acid	5.2		ng/l	0.96	5.2	BRL	101	57-151	2	30
Perfluorotetradecanoic acid	5.1		ng/l	0.96	5.2	BRL	97	78-133	4	30
Perfluoropentanoic acid	5.9		ng/l	5.7	5.2	BRL	114	53-161	3	30
Perfluorooctanoic acid	5.4		ng/l	0.96	5.2	0.64	91	48-160	4	30
Perfluoro-octanesulfonate	14		ng/l	1.9	5.0	11	72	48-154	6	30
Perfluorooctanesulfonamide	4.9		ng/l	2.9	5.2	BRL	94	70-130	1	30
Perfluorononanoic acid	4.9		ng/l	1.9	5.2	BRL	93	70-130	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
<b><u>EPA 537 modified</u></b>										
<b>Batch 19008001 - METHOD</b>										
<b>Matrix Spike Dup (9960449M)</b>						<b>Source: SC52917-04</b>		<b>Prepared: 08-Jan-19 Analyzed: 09-Jan-19</b>		
Perfluorobutanoic acid	9.5		ng/l	5.7	5.2	3.8	109	58-155	15	30
Perfluorohexanesulfonate	6.2		ng/l	1.9	4.9	1.5	97	73-129	0	30
6:2 fluorotelomersulfonate	15		ng/l	1.9	15	BRL	100	70-130	5	30
Perfluoroheptanesulfonate	6.7		ng/l	1.9	5.0	BRL	134	50-145	2	30
Perfluorododecanoic acid	5.3		ng/l	1.9	5.2	BRL	102	76-136	2	30
Perfluorodecanesulfonate	4.4		ng/l	1.9	5.0	BRL	87	41-148	15	30
Perfluorobutanesulfonate	5.0		ng/l	0.96	4.6	0.63	95	73-134	3	30
NMeFOSAA	5.3		ng/l	2.9	5.2	BRL	101	58-157	10	30
NEtFOSAA	4.4		ng/l	2.9	5.2	BRL	84	49-159	11	30
8:2 fluorotelomersulfonate	14		ng/l	5.7	15	BRL	96	60-150	3	30
Perfluorohexanoic acid	5.4		ng/l	1.9	5.2	0.39	97	70-130	6	30
Surrogate: 13C4-PFHpA	9.7		ng/l		19		51	35-126		
Surrogate: 13C8-PFOA	16		ng/l		19		85	48-122		
Surrogate: 13C3-PFHxS	12		ng/l		18		68	34-126		
Surrogate: 13C2-6:2-FTS	19		ng/l		18		104	32-170		
Surrogate: d3-NMeFOSAA	12		ng/l		19		62	30-127		
Surrogate: 13C9-PFNA	17		ng/l		19		87	41-144		
Surrogate: 13C8-PFOS	15		ng/l		18		84	50-121		
Surrogate: d5-NEtFOSAA	17		ng/l		19		90	30-142		
Surrogate: 13C7-PFUnDA	16		ng/l		19		81	30-128		
Surrogate: 13C6-PFDA	14		ng/l		19		74	47-125		
Surrogate: 13C2-PFTeDA	14		ng/l		19		73	26-119		
Surrogate: 13C2-8:2-FTS	17		ng/l		18		91	27-164		
Surrogate: 13C8-PFOSA	4.1		ng/l		19		21	11-127		
Surrogate: 13C2-PFDoDA	13		ng/l		19		70	39-130		
Surrogate: 13C5-PFPeA	17		ng/l		19		86	31-157		
Surrogate: 13C3-PFBS	19		ng/l		18		105	26-148		
Surrogate: 13C4-PFBA	16		ng/l		19		86	33-123		
Surrogate: 13C5-PFHxA	14		ng/l		19		75	35-138		
<b>Blank (BLK0080B19008001)</b>								<b>Prepared: 08-Jan-19 Analyzed: 09-Jan-19</b>		
Perfluorooctanesulfonamide	< 3.0		ng/l	3.0				-		
Perfluorobutanesulfonate	< 1.0		ng/l	1.0				-		
Perfluorobutanoic acid	< 6.0		ng/l	6.0				-		
Perfluorotridecanoic acid	< 1.0		ng/l	1.0				-		
Perfluorotetradecanoic acid	< 1.0		ng/l	1.0				-		
Perfluoropentanoic acid	< 6.0		ng/l	6.0				-		
Perfluorooctanoic acid	< 1.0		ng/l	1.0				-		
Perfluoro-octanesulfonate	< 2.0		ng/l	2.0				-		
Perfluoroundecanoic acid	< 2.0		ng/l	2.0				-		
Perfluorononanoic acid	< 2.0		ng/l	2.0				-		
Perfluorohexanoic acid	< 2.0		ng/l	2.0				-		
Perfluorohexanesulfonate	< 2.0		ng/l	2.0				-		
Perfluoroheptanoic acid	< 1.0		ng/l	1.0				-		
Perfluoroheptanesulfonate	< 2.0		ng/l	2.0				-		
Perfluorododecanoic acid	< 2.0		ng/l	2.0				-		
Perfluorodecanesulfonate	< 2.0		ng/l	2.0				-		
NEtFOSAA	< 3.0		ng/l	3.0				-		
NMeFOSAA	< 3.0		ng/l	3.0				-		
Perfluorodecanoic acid	< 2.0		ng/l	2.0				-		
8:2 fluorotelomersulfonate	< 6.0		ng/l	6.0				-		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>EPA 537 modified</u></b>										
<b>Batch 19008001 - METHOD</b>										
<b><u>Blank (BLK0080B19008001)</u></b>										
						<u>Prepared: 08-Jan-19 Analyzed: 09-Jan-19</u>				
6:2 fluorotelomersulfonate	< 2.0		ng/l	2.0				-		
Surrogate: 13C3-PFHxS	13		ng/l		19		67	34-126		
Surrogate: 13C2-6:2-FTS	22		ng/l		19		117	32-170		
Surrogate: 13C2-8:2-FTS	20		ng/l		19		103	27-164		
Surrogate: 13C2-PFDoDA	16		ng/l		20		80	39-130		
Surrogate: 13C3-PFBS	16		ng/l		19		84	26-148		
Surrogate: 13C4-PFBA	18		ng/l		20		91	33-123		
Surrogate: 13C4-PFHpA	10		ng/l		20		51	35-126		
Surrogate: 13C5-PFHxA	17		ng/l		20		86	35-138		
Surrogate: 13C5-PFPeA	17		ng/l		20		85	31-157		
Surrogate: 13C7-PFUnDA	18		ng/l		20		88	30-128		
Surrogate: 13C8-PFOA	18		ng/l		20		88	48-122		
Surrogate: 13C8-PFOS	17		ng/l		19		90	50-121		
Surrogate: 13C8-PFOSA	14		ng/l		20		70	11-127		
Surrogate: 13C9-PFNA	18		ng/l		20		92	41-144		
Surrogate: d5-NEtFOSAA	20		ng/l		20		100	30-142		
Surrogate: 13C6-PFDA	17		ng/l		20		87	47-125		
Surrogate: d3-NMeFOSAA	17		ng/l		20		83	30-127		
Surrogate: 13C2-PFTeDA	16		ng/l		20		82	26-119		
<b><u>LCS (LCS0081Q19008001)</u></b>										
						<u>Prepared: 08-Jan-19 Analyzed: 09-Jan-19</u>				
Perfluoroundecanoic acid	6.0		ng/l	2.0	5.4		110	75-146		
Perfluorohexanesulfonate	5.3		ng/l	2.0	5.1		102	71-131		
Perfluorohexanoic acid	6.0		ng/l	2.0	5.4		111	75-135		
Perfluorononanoic acid	5.9		ng/l	2.0	5.4		108	72-148		
Perfluorooctanesulfonamide	5.0		ng/l	3.0	5.4		92	65-164		
Perfluoro-octanesulfonate	4.7		ng/l	2.0	5.2		91	67-138		
Perfluorooctanoic acid	5.4		ng/l	1.0	5.4		100	72-138		
Perfluoropentanoic acid	5.9	J.	ng/l	6.0	5.4		108	74-134		
Perfluorotridecanoic acid	5.6		ng/l	1.0	5.4		103	61-145		
Perfluoroheptanoic acid	5.7		ng/l	1.0	5.4		105	76-140		
Perfluorodecanesulfonate	5.3		ng/l	2.0	5.2		101	60-135		
Perfluorotetradecanoic acid	5.2		ng/l	1.0	5.4		96	74-135		
8:2 fluorotelomersulfonate	12		ng/l	6.0	15		79	66-148		
Perfluorododecanoic acid	5.2		ng/l	2.0	5.4		95	75-136		
Perfluoroheptanesulfonate	6.2		ng/l	2.0	5.2		120	64-135		
6:2 fluorotelomersulfonate	16		ng/l	2.0	15		108	66-155		
NEtFOSAA	4.5		ng/l	3.0	5.4		83	55-169		
NMeFOSAA	5.3		ng/l	3.0	5.4		97	44-147		
Perfluorobutanesulfonate	4.7		ng/l	1.0	4.8		98	73-128		
Perfluorobutanoic acid	6.0	J.	ng/l	6.0	5.4		110	74-142		
Perfluorodecanoic acid	4.9		ng/l	2.0	5.4		90	69-148		
Surrogate: 13C2-PFDoDA	14		ng/l		20		68	39-130		
Surrogate: 13C8-PFOS	14		ng/l		19		72	50-121		
Surrogate: 13C9-PFNA	15		ng/l		20		76	41-144		
Surrogate: 13C3-PFBS	14		ng/l		19		76	26-148		
Surrogate: 13C3-PFHxS	12		ng/l		19		63	34-126		
Surrogate: 13C2-8:2-FTS	19		ng/l		19		97	27-164		
Surrogate: 13C4-PFBA	15		ng/l		20		75	33-123		
Surrogate: 13C4-PFHpA	10		ng/l		20		50	35-126		
Surrogate: 13C2-PFTeDA	14		ng/l		20		69	26-119		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>EPA 537 modified</u></b>										
<b>Batch 19008001 - METHOD</b>										
<b><u>LCS (LCS0081Q19008001)</u></b>					<u>Prepared: 08-Jan-19 Analyzed: 09-Jan-19</u>					
Surrogate: 13C5-PFHxA	15		ng/l		20		74	35-138		
Surrogate: 13C5-PFPeA	14		ng/l		20		70	31-157		
Surrogate: 13C6-PFDA	16		ng/l		20		79	47-125		
Surrogate: 13C8-PFOA	16		ng/l		20		80	48-122		
Surrogate: 13C8-PFOSA	3.0		ng/l		20		15	11-127		
Surrogate: d3-NMeFOSAA	14		ng/l		20		70	30-127		
Surrogate: d5-NEtFOSAA	17		ng/l		20		84	30-142		
Surrogate: 13C2-6:2-FTS	19		ng/l		19		98	32-170		
Surrogate: 13C7-PFUnDA	14		ng/l		20		68	30-128		
<b>Batch 19014013 - METHOD</b>										
<b><u>Blank (BLK0140B19014013)</u></b>					<u>Prepared: 14-Jan-19 Analyzed: 16-Jan-19</u>					
Perfluorodecanesulfonate	< 2.0		ng/l	2.0				-		
6:2 fluorotelomersulfonate	< 2.0		ng/l	2.0				-		
Perfluorohexanesulfonate	< 2.0		ng/l	2.0				-		
Perfluoroundecanoic acid	< 2.0		ng/l	2.0				-		
NEtFOSAA	< 3.0		ng/l	3.0				-		
NMeFOSAA	< 3.0		ng/l	3.0				-		
Perfluorobutanoic acid	< 6.0		ng/l	6.0				-		
8:2 fluorotelomersulfonate	< 6.0		ng/l	6.0				-		
Perfluorodecanoic acid	< 2.0		ng/l	2.0				-		
Perfluorododecanoic acid	< 2.0		ng/l	2.0				-		
Perfluoroheptanesulfonate	< 2.0		ng/l	2.0				-		
Perfluoropentanoic acid	< 6.0		ng/l	6.0				-		
Perfluorotridecanoic acid	< 1.0		ng/l	1.0				-		
Perfluorobutanesulfonate	< 1.0		ng/l	1.0				-		
Perfluorotetradecanoic acid	< 1.0		ng/l	1.0				-		
Perfluorooctanoic acid	< 1.0		ng/l	1.0				-		
Perfluoro-octanesulfonate	< 2.0		ng/l	2.0				-		
Perfluorooctanesulfonamide	< 3.0		ng/l	3.0				-		
Perfluorononanoic acid	< 2.0		ng/l	2.0				-		
Perfluorohexanoic acid	< 2.0		ng/l	2.0				-		
Perfluoroheptanoic acid	< 1.0		ng/l	1.0				-		
Surrogate: 13C5-PFHxA	17		ng/l		20		87	35-138		
Surrogate: 13C2-6:2-FTS	20		ng/l		19		103	32-170		
Surrogate: 13C2-PFDoDA	15		ng/l		20		76	39-130		
Surrogate: 13C2-PFTeDA	15		ng/l		20		73	26-119		
Surrogate: 13C3-PFBS	15		ng/l		19		81	26-148		
Surrogate: 13C3-PFHxS	15		ng/l		19		77	34-126		
Surrogate: 13C4-PFBA	17		ng/l		20		85	33-123		
Surrogate: 13C4-PFHpA	18		ng/l		20		89	35-126		
Surrogate: 13C2-8:2-FTS	22		ng/l		19		115	27-164		
Surrogate: 13C5-PFPeA	17		ng/l		20		86	31-157		
Surrogate: 13C6-PFDA	18		ng/l		20		90	47-125		
Surrogate: 13C7-PFUnDA	17		ng/l		20		85	30-128		
Surrogate: 13C8-PFOA	17		ng/l		20		86	48-122		
Surrogate: 13C8-PFOS	17		ng/l		19		88	50-121		
Surrogate: 13C8-PFOSA	13		ng/l		20		65	11-127		
Surrogate: 13C9-PFNA	21		ng/l		20		105	41-144		
Surrogate: d5-NEtFOSAA	16		ng/l		20		78	30-142		
Surrogate: d3-NMeFOSAA	16		ng/l		20		78	30-127		

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>EPA 537 modified</u></b>										
<b>Batch 19014013 - METHOD</b>										
<b><u>LCS (LCS0143Q19014013)</u></b>										
						Prepared: 14-Jan-19 Analyzed: 16-Jan-19				
Perfluoroheptanoic acid	5.7		ng/l	1.0	5.4		106	76-140		
Perfluoro-octanesulfonate	4.9		ng/l	2.0	5.2		94	67-138		
NMeFOSAA	5.6		ng/l	3.0	5.4		104	44-147		
Perfluorobutanesulfonate	4.7		ng/l	1.0	4.8		99	73-128		
Perfluorobutanoic acid	6.2		ng/l	6.0	5.4		114	74-142		
Perfluorodecanesulfonate	5.5		ng/l	2.0	5.2		104	60-135		
Perfluorodecanoic acid	5.8		ng/l	2.0	5.4		107	69-148		
Perfluoroheptanesulfonate	5.8		ng/l	2.0	5.2		113	64-135		
NEtFOSAA	4.6		ng/l	3.0	5.4		85	55-169		
Perfluorononanoic acid	5.8		ng/l	2.0	5.4		106	72-148		
Perfluorohexanoic acid	6.1		ng/l	2.0	5.4		112	75-135		
Perfluorooctanoic acid	5.8		ng/l	1.0	5.4		107	72-138		
Perfluoropentanoic acid	6.3		ng/l	6.0	5.4		116	74-134		
Perfluorotetradecanoic acid	6.6		ng/l	1.0	5.4		121	74-135		
Perfluorotridecanoic acid	5.4		ng/l	1.0	5.4		99	61-145		
Perfluoroundecanoic acid	5.9		ng/l	2.0	5.4		108	75-146		
Perfluorododecanoic acid	6.0		ng/l	2.0	5.4		111	75-136		
Perfluorohexanesulfonate	5.2		ng/l	2.0	5.1		101	71-131		
Perfluorooctanesulfonamide	5.6		ng/l	3.0	5.4		102	65-164		
6:2 fluorotelomersulfonate	17		ng/l	2.0	15		110	66-155		
8:2 fluorotelomersulfonate	17		ng/l	6.0	15		109	66-148		
Surrogate: 13C4-PFHpA	22		ng/l		20		112	35-126		
Surrogate: 13C2-6:2-FTS	25		ng/l		19		131	32-170		
Surrogate: 13C2-PFTeDA	16		ng/l		20		80	26-119		
Surrogate: 13C3-PFBS	19		ng/l		19		105	26-148		
Surrogate: 13C3-PFHxS	19		ng/l		19		100	34-126		
Surrogate: 13C2-8:2-FTS	28		ng/l		19		147	27-164		
Surrogate: 13C4-PFBA	21		ng/l		20		105	33-123		
Surrogate: 13C2-PFDoDA	20		ng/l		20		99	39-130		
Surrogate: 13C5-PFHxA	21		ng/l		20		103	35-138		
Surrogate: 13C9-PFNA	23		ng/l		20		116	41-144		
Surrogate: d3-NMeFOSAA	19		ng/l		20		97	30-127		
Surrogate: d5-NEtFOSAA	22		ng/l		20		111	30-142		
Surrogate: 13C8-PFOA	16		ng/l		20		82	11-127		
Surrogate: 13C8-PFOS	21		ng/l		19		108	50-121		
Surrogate: 13C8-PFOA	22		ng/l		20		109	48-122		
Surrogate: 13C7-PFUnDA	21		ng/l		20		107	30-128		
Surrogate: 13C6-PFDA	23		ng/l		20		114	47-125		
Surrogate: 13C5-PFPeA	22		ng/l		20		108	31-157		
<b><u>LCSD (LCS0143Y19014013)</u></b>										
						Prepared: 14-Jan-19 Analyzed: 16-Jan-19				
Perfluorobutanesulfonate	5.1		ng/l	1.0	4.8		106	73-128	7	30
NEtFOSAA	5.5		ng/l	3.0	5.4		102	55-169	18	30
Perfluorobutanoic acid	6.0	J.	ng/l	6.0	5.4		110	74-142	4	30
6:2 fluorotelomersulfonate	15		ng/l	2.0	15		98	66-155	12	30
Perfluorodecanesulfonate	5.7		ng/l	2.0	5.2		109	60-135	5	30
Perfluorodecanoic acid	5.8		ng/l	2.0	5.4		106	69-148	1	30
Perfluorododecanoic acid	6.1		ng/l	2.0	5.4		112	75-136	1	30
Perfluoroheptanesulfonate	5.0		ng/l	2.0	5.2		98	64-135	15	30
Perfluoroheptanoic acid	5.6		ng/l	1.0	5.4		102	76-140	3	30
8:2 fluorotelomersulfonate	16		ng/l	6.0	15		104	66-148	5	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
<b><u>EPA 537 modified</u></b>										
<b>Batch 19014013 - METHOD</b>										
<b><u>LCSD (LCS0143Y19014013)</u></b>					<u>Prepared: 14-Jan-19 Analyzed: 16-Jan-19</u>					
Perfluorohexanesulfonate	4.8		ng/l	2.0	5.1		93	71-131	8	30
Perfluorohexanoic acid	5.8		ng/l	2.0	5.4		107	75-135	5	30
Perfluorononanoic acid	5.4		ng/l	2.0	5.4		99	72-148	7	30
Perfluorooctanesulfonamide	5.3		ng/l	3.0	5.4		97	65-164	5	30
Perfluoro-octanesulfonate	5.1		ng/l	2.0	5.2		97	67-138	3	30
Perfluorooctanoic acid	5.7		ng/l	1.0	5.4		104	72-138	3	30
Perfluoropentanoic acid	6.1		ng/l	6.0	5.4		111	74-134	4	30
Perfluorotridecanoic acid	6.1		ng/l	1.0	5.4		111	61-145	11	30
NMeFOSAA	5.7		ng/l	3.0	5.4		105	44-147	1	30
Perfluoroundecanoic acid	5.9		ng/l	2.0	5.4		109	75-146	1	30
Perfluorotetradecanoic acid	5.8		ng/l	1.0	5.4		106	74-135	13	30
Surrogate: 13C4-PFHpA	20		ng/l		20		102	35-126		
Surrogate: 13C3-PFBS	17		ng/l		19		91	26-148		
Surrogate: 13C5-PFPeA	20		ng/l		20		101	31-157		
Surrogate: d5-NEtFOSAA	20		ng/l		20		98	30-142		
Surrogate: 13C2-8:2-FTS	25		ng/l		19		129	27-164		
Surrogate: 13C2-PFTeDA	17		ng/l		20		84	26-119		
Surrogate: 13C2-6:2-FTS	25		ng/l		19		131	32-170		
Surrogate: 13C3-PFHxS	18		ng/l		19		95	34-126		
Surrogate: 13C4-PFBA	20		ng/l		20		99	33-123		
Surrogate: 13C9-PFNA	24		ng/l		20		119	41-144		
Surrogate: 13C2-PFDoDA	18		ng/l		20		90	39-130		
Surrogate: d3-NMeFOSAA	19		ng/l		20		96	30-127		
Surrogate: 13C5-PFHxA	19		ng/l		20		97	35-138		
Surrogate: 13C8-PFOA	16		ng/l		20		80	11-127		
Surrogate: 13C8-PFOS	20		ng/l		19		103	50-121		
Surrogate: 13C8-PFOA	19		ng/l		20		97	48-122		
Surrogate: 13C7-PFUnDA	19		ng/l		20		97	30-128		
Surrogate: 13C6-PFDA	20		ng/l		20		102	47-125		
<b><u>SW-846 8270D SIM</u></b>										
<b>Batch 19007WAA026 - SW-846 3510C</b>										
<b><u>Matrix Spike (9960448R)</u></b>					<b><u>Source: SC52917-04</u></b>		<b><u>Prepared: 07-Jan-19 Analyzed: 09-Jan-19</u></b>			
1,4-Dioxane	0.8		ug/l	0.2	1	BRL	84	70-130		
Surrogate: Fluoranthene-d10	0.8		ug/l		1		81	51-120		
Surrogate: Benzo(a)pyrene-d12	0.6		ug/l		1		65	44-120		
Surrogate: 1-Methylnaphthalene-d10	0.9		ug/l		1		89	42-123		
<b><u>Matrix Spike Dup (9960449M)</u></b>					<b><u>Source: SC52917-04</u></b>		<b><u>Prepared: 07-Jan-19 Analyzed: 09-Jan-19</u></b>			
1,4-Dioxane	0.9		ug/l	0.2	1	BRL	90	70-130	4	30
Surrogate: 1-Methylnaphthalene-d10	1		ug/l		1		99	42-123		
Surrogate: Benzo(a)pyrene-d12	0.7		ug/l		1		67	44-120		
Surrogate: Fluoranthene-d10	0.9		ug/l		1		91	51-120		
<b><u>LCS (P7WALCSQ007WAA026)</u></b>					<b><u>Prepared: 07-Jan-19 Analyzed: 09-Jan-19</u></b>					
1,4-Dioxane	0.6		ug/l	0.2	1		62	70-130		
Surrogate: Fluoranthene-d10	0.9		ug/l		1		85	51-120		
Surrogate: Benzo(a)pyrene-d12	0.8		ug/l		1		76	44-120		
Surrogate: 1-Methylnaphthalene-d10	0.8		ug/l		1		81	42-123		
<b><u>Blank (PLKWA00B007WAA026)</u></b>					<b><u>Prepared: 07-Jan-19 Analyzed: 09-Jan-19</u></b>					
1,4-Dioxane	< 0.2		ug/l	0.2						

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**Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>SW-846 8270D SIM</u></b>										
<b>Batch 19007WAA026 - SW-846 3510C</b>										
<b><u>Blank (PLKWA00B007WAA026)</u></b>						<u>Prepared: 07-Jan-19 Analyzed: 09-Jan-19</u>				
Surrogate: Fluoranthene-d10	0.8		ug/l		1		81	51-120		
Surrogate: Benzo(a)pyrene-d12	0.7		ug/l		1		73	44-120		
Surrogate: 1-Methylnaphthalene-d10	0.9		ug/l		1		87	42-123		

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

## Notes and Definitions

J.	Estimated value
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 TAT's subject to laboratory approval  
Min. 24-hr notification needed for rushes  
Samples disposed after 30 days unless otherwise instructed.

Report To: Day Environmental Inc

1503 Lyell Avenue  
Rochester, NY 14606

Telephone #: 585 454 0210

Project Mgr: C. Hampton

Invoice To: SAWIE

P.O. No.: \_\_\_\_\_  
Quote #: \_\_\_\_\_

Project No: 5529 s-18

Site Name: 415 & 441 Chandler St.

Location: Tamworth State: NY  
Sampler(s): C. Hampton

F=Field Filtered 1=Na<sub>2</sub>SO<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>2</sub>PO<sub>4</sub> 11=TRIZMA 12=None

List Preservative Code below:

Q/A/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= DE/PFA Free KD X2= \_\_\_\_\_ X3= \_\_\_\_\_  
 G=Grab C=C Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Analysis	Check if chlorinated	Q/A/QC Reporting Notes: * additional charges may apply
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
52917-01	MW-C	01/02/19	07:55	G	GW	2	2	2	2	14-Dioxane x 8270 SIM NYSDEC PFAS x 537	<input type="checkbox"/>	
-02	MW-H		09:00			2	2	2	2		<input type="checkbox"/>	
-03	MW-P		11:15			2	2	2	2		<input type="checkbox"/>	
-04	MW-Q		10:05			6	6	6	6		<input type="checkbox"/>	Also MS/MSD
-05	MW-R		12:15			2	2	2	2		<input type="checkbox"/>	
-06	Duplicate					2	2	2	2		<input type="checkbox"/>	
-07	FB20190102		12:45		X <sub>1</sub>	2	2	2	2		<input type="checkbox"/>	

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Temp °C \_\_\_\_\_

Observed 1/1  
 Corrected Factor \_\_\_\_\_  
 EDD format: NYSDEC EQS  
 E-mail to: Champton@daymail.net

Charles Hampton

Fed Exp  
C. Hampton

01/02/19

15:00

1047

Condition upon receipt: Custody Seals:  Present  Intact  Broken  
 Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen

52917

SVCS: PRIORITY OVERNIGHT

ORIGIN ID: EHTA (585) 454-0210  
ATTN: CHARLES HAMPTON  
DAY ENVIRONMENTAL, INC.  
1563 LYELL AVE.

SHIP DATE: 19DEC18  
ACTWGT: 50.00 LB MAN  
CAD: 0654830/CAFE3211

ROCHESTER, NY 14606  
UNITED STATES US

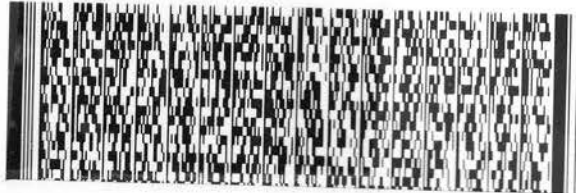
TO **ROBERT BRISTOL**  
**EUROFINS SPECTRUM ANALYTICAL, INC.**  
**11 ALMGREN DRIVE**

**AGAWAM MA 01001**

(413) 789-9018

REF: # 46181

RMA: ||| ||| |||



**FedEx**  
Express



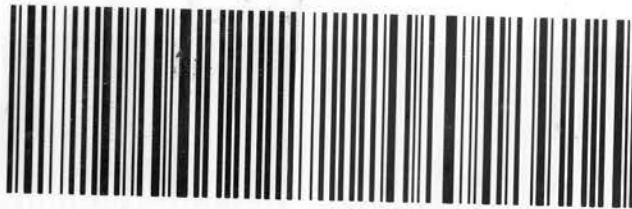
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TRK# 4663 8817 7255  
0221

**THU - 03 JAN 10:30A**  
**PRIORITY OVERNIGHT**

**EB EHTA**

01001  
MA-US BDI



55111/F1EF/104C

401050900311818F

66297-435-8808 EXP 04/19



ORIGIN ID:EHTA (585) 454-0210  
ATTN: CHARLES HAMPTON  
DAY ENVIRONMENTAL, INC.  
1563 LYELL AVE.

ROCHESTER, NY 14606  
UNITED STATES US

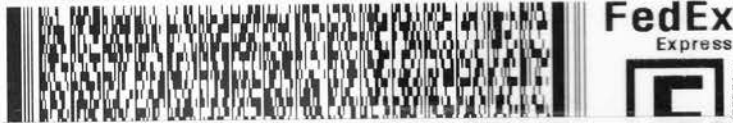
A  
10:30  
1  
ST 12  
RT 744

TO ROBERT BRISTOL  
EUROFINS SPECTRUM ANALYTICAL, INC.  
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018  
REF: # 46181

RMA: ||| ||| |||

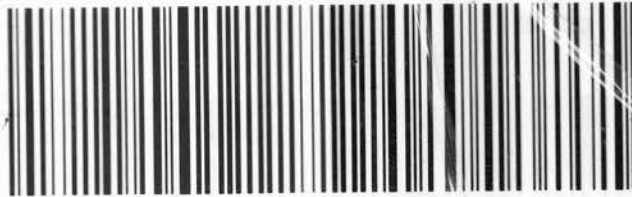


FedEx  
TRK# 4663 8817 7233  
0221

THU - 03 JAN 10:30A  
PRIORITY OVERNIGHT

EB EHTA

01001  
MA-US BD



66139 01/02 552J2/D74C/DCA5

SSIC121E1A1

BY 10/01/99

# 4663-8817-7233-0221  
EXP 04/19

ORIGIN ID: EHTA (585) 454-0210  
ATTN: CHARLES HAMPTON  
DAY ENVIRONMENTAL, INC.  
1563 LYELL AVE.

ROCHESTER, NY 14606  
UNITED STATES US

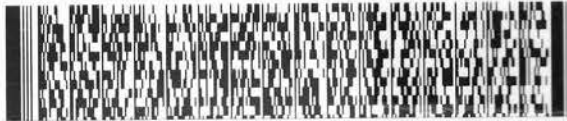
A  
10:30  
1  
RT 744  
ST 12

TO ROBERT BRISTOL  
EUROFINS SPECTRUM ANALYTICAL, INC.  
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018  
REF: # 46181

RMA: ||| ||| |||



FedEx  
Express

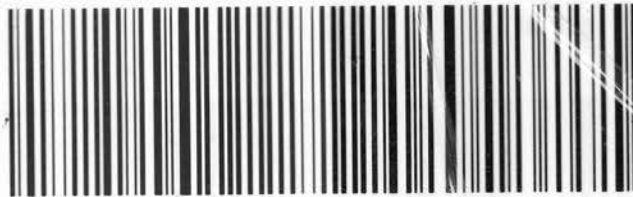


FedEx  
TRK# 4663 8817 7233  
0221

THU - 03 JAN 10:30A  
PRIORITY OVERNIGHT

EB EHTA

0100  
MA-US BDL



#66139 01/02 552J2/D74C/DCRS

553121277/11  
00000000  
# 55297-435-88108 Exp 04/19

## Batch Summary

### **19007WAA026**

#### *Subcontracted Analyses*

9960448R  
9960449M  
P7WALCSQ007WAA026  
PLKWA00B007WAA026  
SC52917-01 (MW-C)  
SC52917-02 (MW-H)  
SC52917-03 (MW-P)  
SC52917-04 (MW-Q)  
SC52917-05 (MW-R)  
SC52917-06 (Duplicate)  
SC52917-07 (FB20190102)

### **19008001**

#### *Subcontracted Analyses*

9960448R  
9960449M  
BLK0080B19008001  
LCS0081Q19008001  
SC52917-02 (MW-H)  
SC52917-03 (MW-P)  
SC52917-04 (MW-Q)  
SC52917-05 (MW-R)  
SC52917-06 (Duplicate)  
SC52917-07 (FB20190102)

### **19014013**

#### *Subcontracted Analyses*

BLK0140B19014013  
LCS0143Q19014013  
LCS0143Y19014013  
SC52917-01 (MW-C)