2018 PERIODIC REVIEW REPORT

NYSDEC Site Number: C734111

700 Outparcel
701-709 East Water Street
Syracuse, NY 13210

Prepared by:

Asbestos and Environmental Consulting Corporation
6308 Fly Road
East Syracuse, New York 13057

Prepared for:

700 Out Parcel, LLC
505 East Fayette Street
Syracuse, New York 13210

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

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Common Acronyms/Abbreviations

BTEX – Benzene, Toluene, Ethylbenzene, and Xylene

DUSR – Data Usability Summary Report

ECs – Engineering Controls

GWS – Groundwater Standard

ICs – Institutional Controls

IDW – Investigation Derived Waste

MNA – Monitored Natural Attenuation

N/A – Not Applicable

NYSDEC – New York State Department of Environmental Conservation

NYSDOH – New York State Department of Health

O&M – Operations & Maintenance

PAH – Polycyclic Aromatic Hydrocarbons

ppb – Parts Per Billion

ppm – Parts Per Million

PRR – Periodic Review Report

SMP – Site Management Plan

SVOC – Semi-Volatile Organic Compound

TOGS – Technical & Operational Guidance Series 1.1.1 (NYSDEC)

USEPA – United States Environmental Protection Agency

UST – Underground Storage Tank

VOC – Volatile Organic Compound

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1.0 EXECUTIVE SUMMARY

1.1 INTRODUCTION

The 700 Outparcel Site is a registered NYSDEC Brownfield, identified by Site # C734111. The Site is currently being managed by a NYSDEC-approved Site Management Plan (SMP), dated December 2016 (revised March 2017). This and future Periodic Review Reports (PRRs) are a required element of the SMP.

The Site formerly supported a gasoline filling station (1949 to 1964) and was afterwards used as a parking lot. Underground storage tanks (USTs), associated with the Site's use as a gasoline filling station, were removed in 2006. Contamination of subsurface soil and groundwater as a result of this history exists at the Site.

Remedial activities, including the implementation of certain Engineering and Institutional Controls, were completed at the site in November 2016.

1.2 EFFECTIVENESS OF REMEDIAL PROGRAM

The remedial strategy that has been adopted at the Site (including all engineering and institutional controls) has thus far been an effective and appropriate method of controlling exposure to remaining contamination in the subsurface. Analytical data has trended in the direction of achieving remedial objectives, but future assessment is necessary.

1.3 COMPLIANCE

To date, the required elements of the SMP have been appropriately observed and the Site remains in compliance.

1.4 RECOMMENDATIONS

At the current time, no changes to the SMP are necessary. The frequency of PRRs will remain on an annual schedule. Monitoring will continue on a quarterly basis, with quarterly monitoring reports submitted to the NYSDEC.

2.0 SITE OVERVIEW

2.1 INTRODUCTION

2.1.1 Site Location

The Site (currently owned by 700 Out Parcel, LLC) consists of two parcels of land totaling 0.43 acres. The Site is located at the northeast corner of East Water and Almond Streets, in the City of Syracuse, New York (see Figure 1). The parcels have addresses of 701 and 709 East Water Street. The site is bordered to the north by Erie Boulevard East, to the east by a commercial facility, to the south by East Water Street, and to the west by Almond Street.

2.1.2 Site Features

The Site is currently a gravel-covered parking lot with limited access. A chain link fence extends along the perimeter, and a gravel cover system is in-place (further discussed in Section 4.1.1 of this report).

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2.1.3 Nature and Extent of Contamination

From 1949 to 1964, the site operated as a gasoline filling station. Thereafter, it was used as a parking lot.

In 2002, four USTs were identified, and soils on the sides of the tanks exhibited petroleum staining and odors. Upon discovery of the petroleum-impacted soils, the NYSDEC Spill Hotline was called, and spill ID Number 01-11549 (March 7, 2002) was assigned to the site.

In 2006, a total of seven USTs were removed from the Site: four 1,000-gallon gasoline USTs, one 4,200-gallon gasoline UST, and two 550-gallon USTs (one fuel oil and one waste oil). Approximately 1,800 tons of contaminated soil was removed and staged on-site during the removal of the USTs. The NYSDEC Spill Hotline was called, and spill ID Number 06-10014 (December 4, 2006) was assigned to the site.

A Brownfield Cleanup Agreement (Index# B7-0743-07-05, Site # C73411) was executed on October 31, 2007.

As an Interim Remedial Measure, the staged soils associated with the UST removals were removed from the Site and disposed at a regulated landfill in May 2008.

Beardsley Design Associates (BDA) completed a Remedial Investigation (RI) report (dated October 2013). In general, historical fill material up to approximately 5 feet below original ground surface (beneath the cover system described in Section 4.1.1) is contaminated with PAHs and metals, while groundwater and deeper soils are contaminated with VOCs related to gasoline. The contaminants of concern listed below exceeded the applicable NYSDEC Soil Cleanup Guidance Values (SCGs) and groundwater guidance values / standards:

1,2,4-Trimethylbenzene	Benzene
1,3,5-Trimethylbenzene	Ethylbenzene
Isopropylbenzene	Toluene
Xylene (mixed)	n-Propylbenzene
Naphthalene	sec-Butylbenzene
Butylbenzene	Benzo(a)pyrene
Benzo(a)anthracene	Benzo(b)fluoranthene
Benzo[k]fluoranthene	Chrysene
Indeno(1,2,3-CD)pyrene	Dibenz[a,h]anthracene
Arsenic	Barium
Cyanide	

2.2 REMEDIAL PROGRAM

2.2.1 Chronology

Interim remedial measures were performed in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan (dated April 2008). The site was remediated in accordance with the Decision Document (dated February 2016) and the Remedial Action Work Plan (dated August 2015). Remedial activities were completed at the site in November 2016. A certificate of completion was issued in November 2017.

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2.2.2 Components of the Remedial Program

The following are the components of the selected remedy:

- Maintenance of a cover system consisting of a one-foot layer of crusher run gravel on top of an orange fabric demarcation barrier to prevent human exposure to contaminated soil/fill remaining at the site.
- Groundwater contamination is being addressed by monitored natural attenuation (MNA).
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.
- Implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement.

2.2.3 Cleanup Goals and Site Closure Criteria

Groundwater contamination at the Site is being mitigated via MNA, while chain link fencing and the gravel cover system prevents public exposure to gasoline, PAH, and metals contamination in soils and groundwater.

The composite cover system is a permanent control and the quality and integrity of this system will continue to be inspected at defined, regular intervals in perpetuity.

Groundwater monitoring activities to assess natural attenuation will continue on a quarterly basis until the NYSDEC determines that residual groundwater concentrations in hydraulically-downgradient wells are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level (within an order-of-magnitude, and as compared to hydraulically-upgradient wells due to the potential for contaminants to migrate onto the subject site from adjacent properties). At that point, monitoring will continue on an annual basis for an additional three years or until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC (and as compared to hydraulically-upgradient wells) a provision for treating the groundwater will be evaluated. Selection of the specific remedial technology will consider the monitoring data, but it is currently anticipated that injection of oxygen releasing compounds (ORC) would be used.

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

2.2.4 Significant Changes to the Selected Remedy

No significant changes have been made to the selected remedy since remedial activities were completed in November 2016.

3.0 EVALUATION OF REMEDY PERFORMANCE & EFFECTIVENESS

The Site remedy is currently being evaluated via observations of the gravel cover and monitoring of natural attenuation. Quantitative data to evaluate the performance and effectiveness of the selected remedy comes exclusively from quarterly groundwater monitoring events (thoroughly discussed in Section 5 below).

Groundwater data has shown a generally static or decreased level of contamination as compared to previous data, indicating that the remedial program has been effective. This is most notable at monitoring well MW-9, where Total VOC concentrations have decreased an order of magnitude since the Remedial Investigation sampling in 2012. This observation correlates well with the assumption that MW-9 was located closer to the edge of the plume than MW-8, which (although generally decreasing) does not yet exhibit such a dramatic drop in Total VOC concentrations. Groundwater quality / MNA indicators also appear to be generally favorable for continued natural attenuation (see Section 5.3.3).

Since there are currently no active systems employed at the Site, there are no more quantitative means of correlating and evaluating the effectiveness of the current remedy.

From a qualitative perspective, it is observed that the Site is effectually isolated from the public. The gravel cover system (engineering control) remains in-place and institutional controls continue to be followed (See Section 4 below).

4.0 IC/EC PLAN COMPLIANCE

4.1 IC/EC REQUIREMENTS

The following subsections describe the Engineering and Institutional Controls currently implemented at the Site, their status, and effectiveness.

4.1.1 Description of Controls

Engineering Controls

Exposure to remaining contamination in soil/fill at the site is prevented by a gravel cover system placed over a demarcation layer (US Fabric 65HVO ORANGE Warning Barrier) across the entire site. The cover material is comprised of a minimum of 12 inches of clean crusher run gravel meeting the requirements of DER-10 Section 5.5.

On December 5, 2018, AECC personnel visited the Site and determined that the cover system remains in good condition. No significant damage or disturbance to the cover system was noted. As such, it remains an effective engineering control. Refer to Attachment A (Site Inspection Form) and Attachment B (Site Inspection Photograph Log) for further information.

Institutional Controls

A series of Institutional Controls is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial and industrial uses only. Adherence to these Institutional Controls on the site is required by the Environmental Easement and will be implemented under the Site Management Plan. These Institutional Controls are:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns
- All Engineering Controls must be operated and maintained as specified in the SMP

- All Engineering Controls at the Site must be inspected at a frequency and in a manner defined in the SMP
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP
- Data and information pertinent to management of the Site must be reported at the frequency and in a manner defined in the SMP
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified in the Environmental Easement

Furthermore, the site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Site are:

- The property may only be used for commercial or industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed;
- The property may not be used for a higher level of use, such as unrestricted, residential, or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- The use of the groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Onondaga County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Methods of Evaluation

The IC/ECs are evaluated by performance of monitoring events and annual site-wide inspections. Site-wide inspections are also to be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form is completed. The inspection collects sufficient information to assess the following:

- Compliance with all ICs, including site usage;

- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirmation that site records are up to date.

4.1.2 Effectiveness of Controls

The annual site inspection occurred on December 5, 2018. The completed site inspection forms are included as Attachment A. Photographs taken during the site inspection are included in Attachment B.

No severe condition (erosion, flooding event, or similar) has occurred since the implementation of the SMP. As such, no severe condition inspection has occurred to date.

Engineering Controls

The cover appeared to be in good condition. It remains in-place and effective.

Institutional Controls

The following table includes a list of all site restrictions that apply to the Site, and an assessment as to their adherence and effectiveness to date:

Site Restriction	Assessment	Compliant / Effective?
The property may only be used for commercial or industrial use provided that the long-term IC/ECs included in the SMP are employed	The property is currently used as an occasional-use parking lot (i.e. – commercial use)	Yes
The property may not be used for a higher level of use, such as unrestricted, residential, or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC	The property is currently used as an occasional-use parking lot (i.e. – commercial use)	Yes
All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP	No disturbance of remaining contaminated material has occurred to date	Yes
The use of the groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Onondaga County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC	Groundwater underlying the property is not being used	Yes

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Site Restriction	Assessment	Compliant / Effective?
Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed	The annual site-wide inspection satisfies this requirement	Yes
Vegetable gardens and farming on the property are prohibited	There are no vegetable gardens or farming occurring at the property	Yes
The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.	The certifications attached to this PRR satisfy this requirement.	Yes

4.1.3 Corrective Measures

Since no deficiencies were noted in the IC/ECs, no corrective measures are necessary.

4.1.4 Conclusions and Recommendations

IC/ECs remain compliant and effective.

4.2 IC/EC CERTIFICATION

The completed forms certified by the Owner, Remedial Party, Designated Representative, and Professional Engineer for the Owner/Remedial Party are presented as Attachment C to this report.

5.0 MONITORING PLAN COMPLIANCE

5.1 COMPONENTS OF THE MONITORING PLAN

If biofouling or silt accumulation occurs in the monitoring wells included in the monitoring plan, the wells are to be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable.

Groundwater monitoring activities to assess natural attenuation are currently being performed on a quarterly basis, per the SMP. The following table lists the wells and parameters for analysis:

Well ID	Parameters
MW-5	TCL VOCs + TICs, TCL SVOCs + TICs, and TAL Metals
MW-7	TCL VOCs + TICs, TCL SVOCs + TICs, and TAL Metals
MW-8	TCL VOCs + TICs, TCL SVOCs + TICs, and TAL Metals
MW-9	TCL VOCs + TICs, TCL SVOCs + TICs, and TAL Metals

Analysis of applicable field duplicates, matrix spike / matrix spike duplicates (MS/MSD), and trip blanks is performed according to the protocol defined in the SMP.

Data Usability Summary Reports are required to be completed for each monitoring event, and are included within each respective Quarterly Groundwater Monitoring Report prepared for 2018.

5.2 SUMMARY OF MONITORING DURING THE REPORTING PERIOD

The monitoring wells included in the monitoring plan (MW-5, MW-7, MW-8, and MW-9) were redeveloped using a mini-submersible pump (Whale pump) prior to the Q1 sampling event in March 2018, and prior to the Q3 sampling event in September 2018.

Since the implementation of the SMP, four quarterly groundwater sampling events have occurred. The following table details the timeline of groundwater sampling events at the Site that are encompassed by this PRR:

Sampling Date(s)	Associated / Applicable Report Title & Report Date	Shorthand Report / Sampling Event Reference
March 19 & April 2, 2018	Quarterly Groundwater Monitoring Event – March 2018 (Dated May 2018)	(2018) Q1
June 13, 2018	Quarterly Groundwater Monitoring Event – June 2018 (Dated October 1, 2018)	(2018) Q2
September 6 & 7, 2018	Quarterly Groundwater Monitoring Event – September 2018 (Dated December 18, 2018)	(2018) Q3
December 5, 2018	Quarterly Groundwater Monitoring Event – December 2018 (Dated February 8, 2018)	(2018) Q4

The following table summarizes all exceedances of applicable NYSDEC groundwater standards and guidance values published in the NYSDEC Division of Water Technical and Operations Guidance Series (TOGS) Memorandum 1.1.1 during the past four sampling events:

Well ID	Well Location / Description	VOC/SVOC Exceedances	Metals Exceedances	Other Exceedances
MW-5	Northwestern perimeter of Site (Upgradient of contaminant plume)	n-Propylbenzene (Q3)	Aluminum (Q2) Antimony (Q1) Iron (Q2, Q3) Sodium (ALL)	None
MW-7	East-Southern portion of Site (Downgradient of contaminant plume)	None	Iron (Q2, Q3) Magnesium (Q2, Q3, Q4) Manganese (Q4) Sodium (Q4)	Di-n-octyl phthalate (Q1)
MW-8	Center-West portion of Site (within contaminant plume)	Benzene (Q1, Q2, Q3) n-Butylbenzene (ALL) sec-Butylbenzene (Q1, Q2, Q3) tert-Butylbenzene (Q2) Ethylbenzene (ALL) Isopropylbenzene (ALL) n-Propylbenzene (ALL) 1,2,4-Trimethylbenzene (ALL) 1,3,5-Trimethylbenzene (ALL) Nitrobenzene (Q1) Naphthalene (ALL) Toluene (ALL) p-Isopropyltoluene (Q2, Q3) Xylenes (ALL)	Antimony (Q1) Barium (Q2) Iron (ALL) Magnesium (Q1, Q2) Manganese (ALL) Sodium (ALL)	2,4-Dinitriphenol (Q1) Hexachloroethane (Q1) Bis(2-ethylhexyl)phthalate (Q2)
MW-9	Center-East portion of Site (approximate edge of contaminant plume)	None	Aluminum (Q1, Q2) Antimony (Q1) Iron (ALL) Magnesium (Q1, Q2) Manganese (Q1, Q2, Q3) Sodium (ALL)	None

The laboratory analytical data / reports for all four quarterly groundwater monitoring events are included chronologically as Attachment E of this report. Summary tables for each event are included as Attachment D.

5.3 COMPARISONS WITH REMEDIAL OBJECTIVES

5.3.1 Assessment of Analytical Data

VOCs / SVOCs

Gasoline-related contamination remains significant at monitoring well location MW-8. The primary contaminants of concern are Benzene, Toluene, Ethylbenzene, Xylene (collectively referred to as “BTEX”), and associated gasoline-related VOC.

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At monitoring well location MW-9, trace detections of BTEX have been documented. However, the detected concentrations do not exceed applicable groundwater standards. As such, it is possible that monitoring well MW-9 is located at the approximate edge of the contaminant plume.

The detection of n-Propylbenzene during the Q3 sampling event is anomalous. It is speculated that the detection is from an off-site source since monitoring well MW-5 is at an upgradient location.

Metals

Aluminum, antimony, and barium were detected at concentrations that exceed their applicable groundwater standards. The source of these metals is likely the fill that was historically imported to the Site.

High sodium concentrations have been consistently detected in all groundwater samples collected. It is noted that it is not uncommon for the groundwater in the City of Syracuse to be naturally high in sodium.

Elevated concentrations of iron, magnesium, and manganese are associated with biodegradation processes. These detections were centered within the contaminant plume, and are an indication that biodegradation is occurring.

Elevated concentrations of metals in samples collected from MW-5, MW-8, and MW-9 during the 2018 Q2 and Q3 monitoring events are potentially biased high due to elevated turbidity in the samples (further discussed in Section 5.3.3 – Turbidity, below).

Other

The one-time and one-location detections of 2,4-dinitriphenol, hexachloroethane, bis(2-ethylhexyl)phthalate, and di-n-octyl phthalate are abnormal / inconsistent and their respective source is unknown.

5.3.2 Comparison of Analytical Data to Previous Analytical Results

BTEX and other gasoline-related VOCs have been consistently detected in samples collected from monitoring wells MW-8 and MW-9. The following tables and graphs depict the trend in total VOCs and BTEX concentration over the course of the four 2018 sampling events, as well as in comparison to the 2012 sampling event, so that a larger overall picture of the trend can be observed. Such tables and graphs are not appropriate for MW-5 and MW-7 as significant VOC contamination has not been discovered at those monitoring well locations.

Monitoring Well MW-8

As shown on the following table and charts, the average individual BTEX and total VOC concentrations at MW-8 remained relatively stable during 2018, and have declined slightly since 2012.

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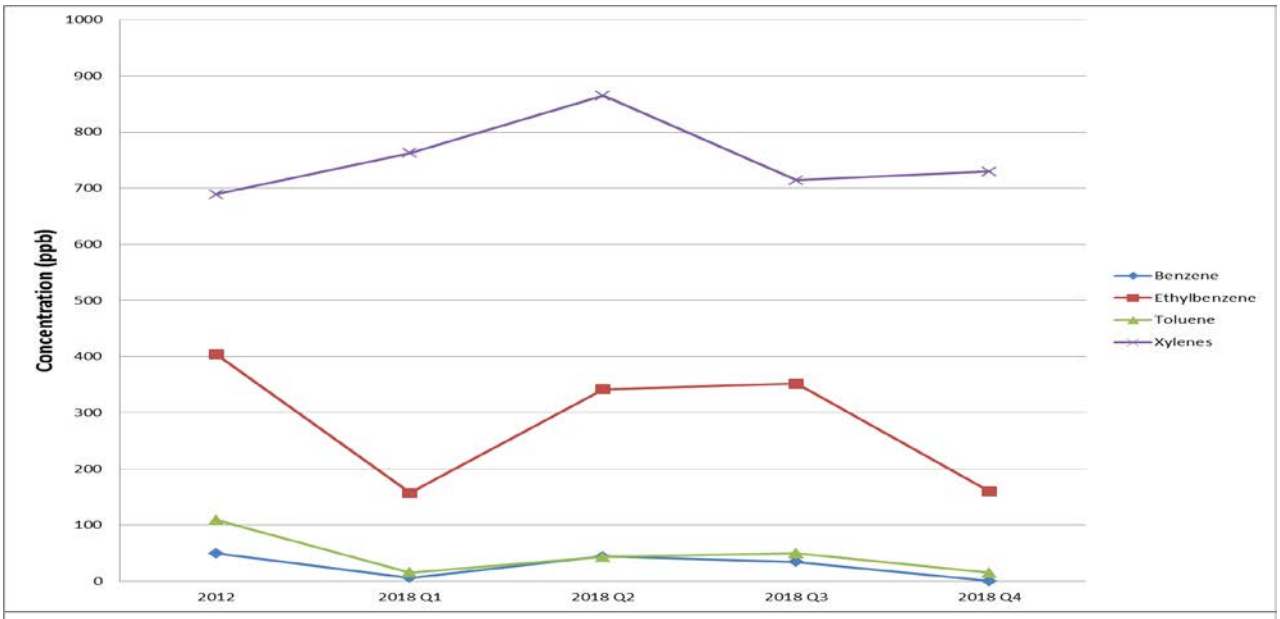
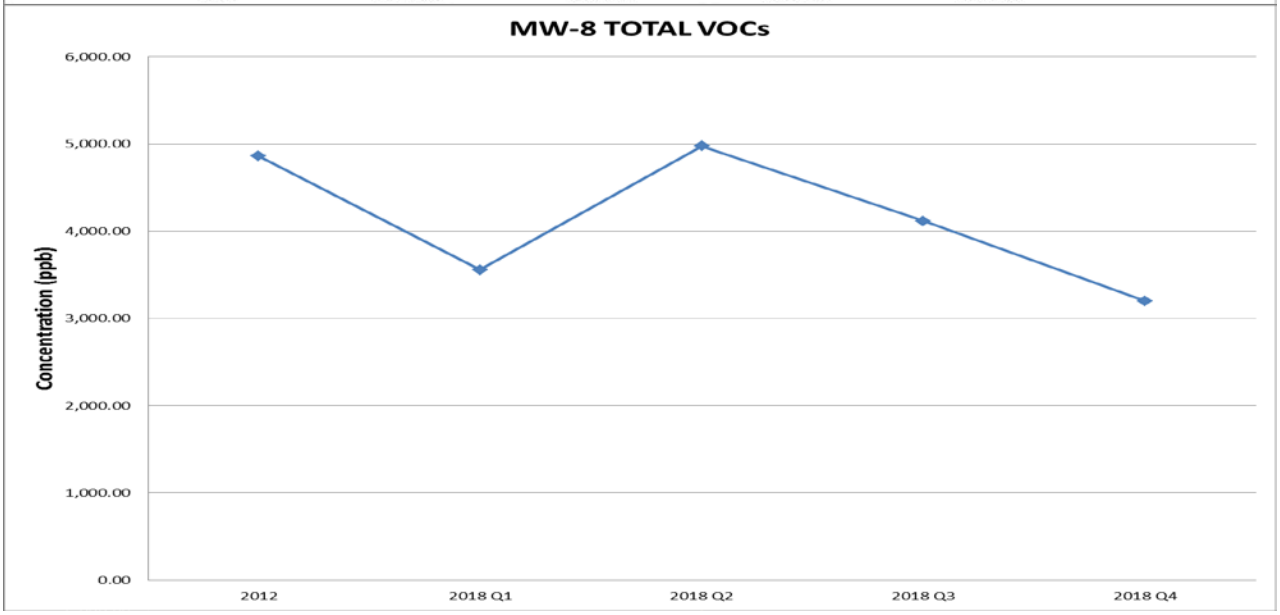
Compound	2012	2018 Q1	2018 Q2	2018 Q3	2018 Q4
Benzene	49.4	5.7	44.1	34.2	BRL
Ethylbenzene	404	157	342	352	160
Toluene	109	15.6	42.9	49.4	15
Xylenes	689	763	865	714	730
Total VOCs	4,861.60	3,559.20	4,975.80	4,118.30	3,201.10

All concentrations are in micrograms per liter (ug/L) or approximate parts per billion (ppb)
BRL = Below Reporting Limit





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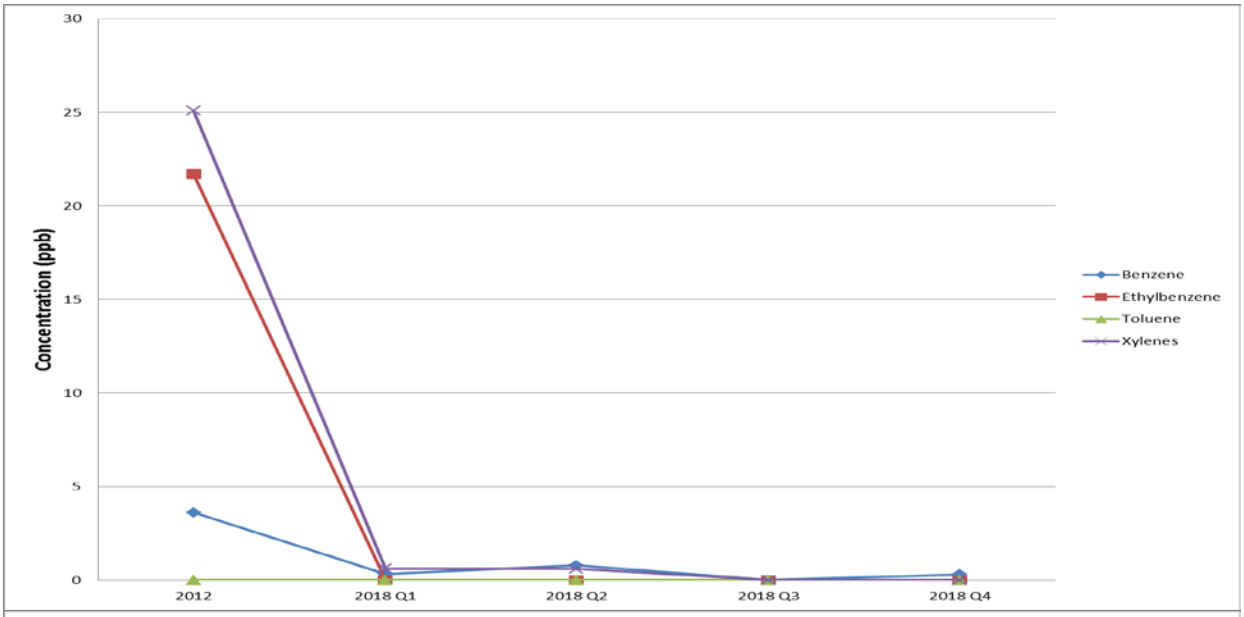
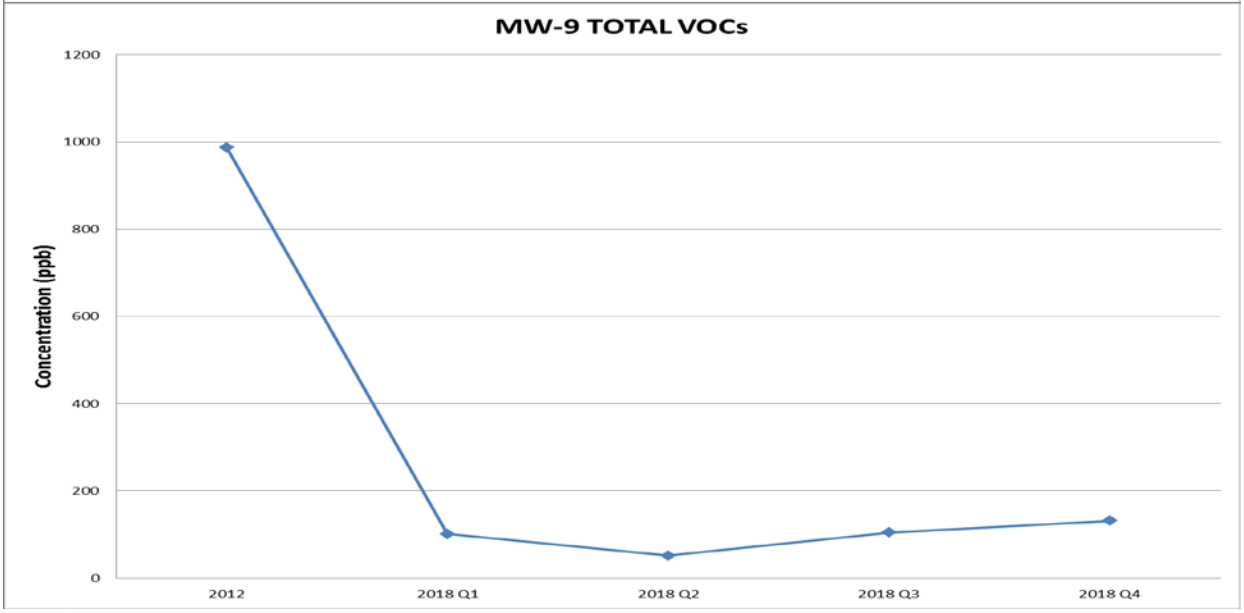
Monitoring Well MW-9

As shown on the following table and charts, the average individual BTEX and total VOC concentrations at MW-9 remained relatively stable during 2018, and have declined by an order of magnitude or more since 2012. All VOC detections identified during the 2018 sampling events have been less than applicable groundwater standards.

Compound	2012	2018 Q1	2018 Q2	2018 Q3	2018 Q4
Benzene	3.62	0.33	0.79	BRL	0.3
Ethylbenzene	21.7	BRL	BRL	BRL	BRL
Toluene	BRL	BRL	BRL	BRL	BRL
Xylenes	25.1	0.62	0.6	BRL	BRL
Total VOCs	987.5	101.1	51.11	104.93	131.6

All concentrations are in micrograms per liter (ug/L) or approximate parts per billion (ppb)
BRL = Below Reporting Limit





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5.3.3 Assessment of Field-Measured Parameters

Groundwater parameters are evaluated for comparison between different monitoring well locations and across time. Data is also compared to establish MNA indicators and values established by the EPA and discussed in the New Jersey Department of Environmental Protection's Monitored Natural Attenuation Technical Guidance document, dated March 2012.

Groundwater parameters from the past four sampling events are presented in the summary table below:

Parameter	Monitoring Event			
	3/19/2018	6/13/2018	9/6/2018	12/5/2018
Monitoring Well MW-5				
Temperature (°C)	7.35	15.03	17.36	12.30
pH	6.00	7.24	7.00	7.13
Specific Conductance (mS/cm)	5.41	8.07	7.37	2.90
Dissolved Oxygen (mg/L)	9.16	6.13	1.98	2.58
RedOx Potential (mV)	204	104	6	124
Turbidity (NTU)	0.0	275	61	3.9
Monitoring Well MW-7				
Temperature (°C)	10.29	16.27	16.71	13.70
pH	5.80	6.83	6.70	6.67
Specific Conductance (mS/cm)	2.38	7.51	6.42	3.61
Dissolved Oxygen (mg/L)	3.82	0.00	2.82	0.00
RedOx Potential (mV)	83	-73	-54	29
Turbidity (NTU)	0.0	17.4	6.5	2.4
Monitoring Well MW-8				
Temperature (°C)	10.17	19.15	Insufficient groundwater for measurement	12.93
pH	5.90	6.92		6.82
Specific Conductance (mS/cm)	1.23	2.19		1.59
Dissolved Oxygen (mg/L)	2.05	0.00		0.00
RedOx Potential (mV)	-116	-152		-144
Turbidity (NTU)	0.0	101		2.9
Monitoring Well MW-9				
Temperature (°C)	11.10	Insufficient groundwater for measurement	Insufficient groundwater for measurement	13.49
pH	5.92			6.85
Specific Conductance (mS/cm)	2.23			2.82
Dissolved Oxygen (mg/L)	5.50			0.00
RedOx Potential (mV)	-73			-82
Turbidity (NTU)	29.8			4.7

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Temperature

Groundwater temperature influences the metabolic activity of microorganisms in groundwater, and warmer groundwater can both encourage further bacterial degradation and be a result of the breakdown process.

Groundwater temperatures fluctuated seasonally over the course of 2018. Within specific monitoring events, groundwater tends to be coolest at the upgradient (MW-5) location. It is possible that the down-gradient warming trend is due to exothermic degradation of petroleum compounds (the biodegradation process).

pH

The pH influences the presence and activity of the microbial population in groundwater. Microorganisms capable of degrading hydrocarbons generally prefer pH values varying from 6 to 8 standard units, while a range between 5 and 9 is generally necessary for any aerobic or anaerobic process to occur, as they are pH sensitive.

The pH values measured at all four monitoring wells have been relatively neutral (5.80 to 7.24), and are within the preferred range for microbial degradation to occur. The measured pH at the up-gradient location (MW-5) remains highest when compared to the other monitoring wells.

Specific Conductance

Groundwater conductivity is directly proportional to the ions in a solution. Significant trends in specific conductance as they relate to the biodegradation process have not been observed to date.

Dissolved Oxygen

Biodegradation occurs differently in two environments: anaerobic (less than 0.5 mg/L) or aerobic (greater than 0.5 mg/L) conditions.

Where aerobic biodegradation of fuel constituents is occurring, microorganisms utilize available oxygen as they biodegrade BTEX (and other petroleum compounds), and any oxygen entering this zone is rapidly depleted. Thus, an inverse correlation between DO and BTEX concentrations is an indication that aerobic biodegradation is occurring in the subsurface.

Dissolved oxygen readings greater than 0.5 mg/L have been consistently recorded at the up-gradient location of MW-5. With some exception, dissolved oxygen has generally not been detected at locations MW-7, MW-8, or MW-9, suggesting that aerobic degradation of petroleum compounds is occurring.

Oxidation Reduction Potential

The ORP values in groundwater commonly vary from -400 mV to as much as 800 mV, but certain biodegradation processes can only occur within a specific range of ORP conditions. Lower ORP values in groundwater suggest the occurrence of biodegradation.

In general, ORP values less than -100 mV are a strong indicator that biodegradation is occurring, and the ORP values at MW-8 have consistently remained less than -100 mV.

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Turbidity

A turbidity of less than 50 NTU is necessary to ensure that suspended sediment does not influence the analytical results of groundwater analysis.

During the Q2 and Q3 monitoring events the depressed water table (where a poor rate of recovery was also observed) resulted in an inability to obtain turbidity measurements less than 50 NTU. As a result, the metals analytical data from these respective samples should be considered potentially biased high:

- Q2 – MW-5, MW-8, and MW-9
- Q3 – MW-5, MW-8, and MW-9

5.4 MONITORING DEFICIENCIES

During the December 2018 monitoring event, the following deficiencies were noted:

- The top 8" section of PVC riser at monitoring well location MW-7 became dislodged during the most recent groundwater monitoring event (December 2018). This additional section had been added to the original riser when the gravel cover was installed. AECC personnel implemented a temporary fix by temporarily re-connecting the section of riser. Although the integrity of the well is not compromised, the section of dislodged riser should be reconnected. AECC plans to accomplish this repair by using a coupling made of PVC, with sand acting as a friction element (in lieu of glue). If this repair does not hold, AECC will cautiously use PVC glue to join the coupling to the sections of riser.

- One of the bolts that secures the well cover at monitoring well MW-8 is becoming stripped. AECC will replace this bolt.

- The 55-gallon steel drum used to store investigation derived waste (IDW) at the southern perimeter of the Site is full, and is significantly corroded. The drum will be appropriately disposed of and a new drum will be brought to the Site to store future IDW. The new drum will be disposed/replaced when full, or annually, whichever comes last.

5.5 CONCLUSIONS AND RECOMMENDATIONS

As seen in the comparison of analytical data from this 2018 monitoring period to the most recent available previous data (2012), natural attenuation has resulted in a significant reduction of contamination in the area of MW-9. All detected concentrations of VOCs and SVOCs from MW-9 during 2018 monitoring events are below applicable Groundwater Standards and Values.

Continued monitoring with attention paid to trends in BTEX concentrations at MW-8 will shed further light on the overall efficacy of MNA as a viable method of remediating the Site. Another year's worth of data is necessary to identify potential trends at the MW-8 location.

No change to the sampling plan or frequency is scheduled to occur at the current time. The 2019 sampling events are anticipated to occur in the same months as the 2018 sampling events.

The deficiencies noted in Section 5.4 will be corrected during the first monitoring event of 2019.

6.0 OPERATIONS & MAINTENANCE PLAN COMPLIANCE

The remedial program does not include any equipment that is subject to an O&M Plan.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

7.1 COMPLIANCE WITH SMP

7.1.1 IC/ECs

Requirements of the SMP as it pertains to IC/ECs were met during the reporting period. The next PRR report will pertain to the 2019 calendar year, with an anticipated date of completion of March 2020.

7.1.2 Monitoring

Requirements of the SMP and applicable groundwater monitoring were met during the reporting period. The next monitoring event is scheduled to occur in March 2019.

The resolution of identified deficiencies (see Section 5.4) will be confirmed during the next scheduled monitoring event (March 2019).

7.1.3 O&M

There are no O&M requirements associated with the remedial program.

7.2 PERFORMANCE AND EFFECTIVENESS OF THE REMEDY

The remedial strategy (including all engineering and institutional controls) continues to be an appropriate method of controlling exposure to remaining contamination in the subsurface.

Continuing performance of the remedy will be documented per the SMP.

7.3 FUTURE PRR SUBMITTALS

The requirements for site closure have not been met, as contamination of subsurface soil and groundwater remains at the Site. At this time, the frequency of PRRs will remain unchanged (Annual). It is anticipated that the next PRR will be completed in March 2020.

8.0 CLOSING

This Periodic Review Report must be submitted, in hard-copy format, to the NYSDEC Central Office and Regional Office in which the site is located (Region 7 – Syracuse), and in electronic format to the NYSDEC Central Office, Regional Office and the NYSDOH Bureau of Environmental Exposure Investigation.

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

If you should have any questions regarding the information presented in this report, please feel free to contact our corporate office (315) 432-9400 at your convenience.

Sincerely,
Asbestos & Environmental Consulting Corporation

H. Nevin Bradford, III, P.E.
Vice President / Sr. Environmental Engineer

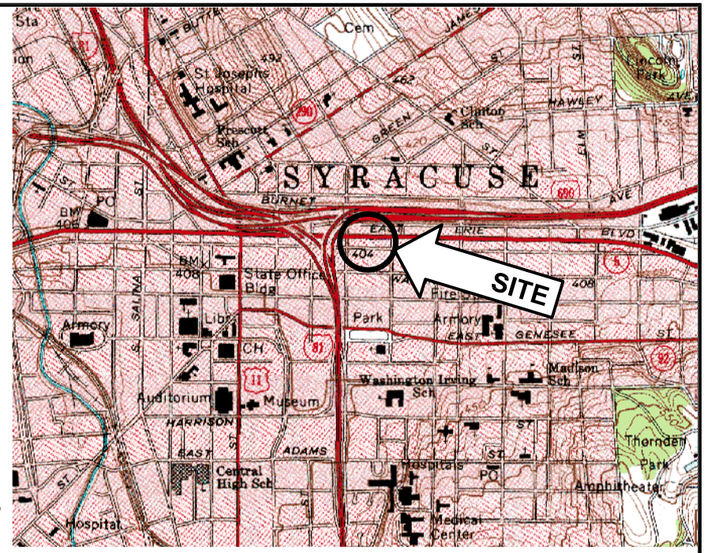
Richard D. McKenna
Senior Project Manager

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

FIGURES

LEGEND:

- CHAIN LINK FENCE
- GATE POST
- FIRE HYDRANT
- STEEL SAFETY POST
- MW–#● MONITORING WELL (SAMPLED)
- MW–#● MONITORING WELL (NOT SAMPLED)



EXISTING ASPHALT (MUNICIPAL SIDEWALK)

Erie Boulevard East
(Open - 80' Wide)

Point of Beginning

Southerly Line

Top of Granite Curbing

S 89°31'20" E
237.96'

100.0'

MW–5

MW–6

SITE LOCATION

Easterly Line

N 00°20'00" E
80.39'

MW–4

N 89°31'20" W
1.33'

18.80'
S 00°29'10" W

Blue Line of the former Erie Canal

MW–7

61.62'
S 00°20'00" W

Almond Street
(Open - 66' Wide)

MW–8

MW–9

Top of Granite Curbing

100.0'

236.58'
N 89°30'50" W

Northerly Line

Utility Box

Traffic Signal Pole

EXISTING ASPHALT (MUNICIPAL SIDEWALK)

Top of Granite Curbing

EXISTING CONCRETE (MUNICIPAL SIDEWALK)

East Water Street
(Open - 66' Wide)

NOTES:

1. SURVEY PROVIDED BY J.R.L. LAND SURVEYING, PLLC 7-31-15.
2. ALL LOCATIONS ARE APPROXIMATE.

0 20' 40'
GRAPHIC SCALE

STRATEGIC Environmental, LLC

AECC ENVIRONMENTAL CONSULTING

PROJECT NO. 18-051
DRAWN: APR. 2018
DRAWN BY: DW
CHECKED BY: RM/DB

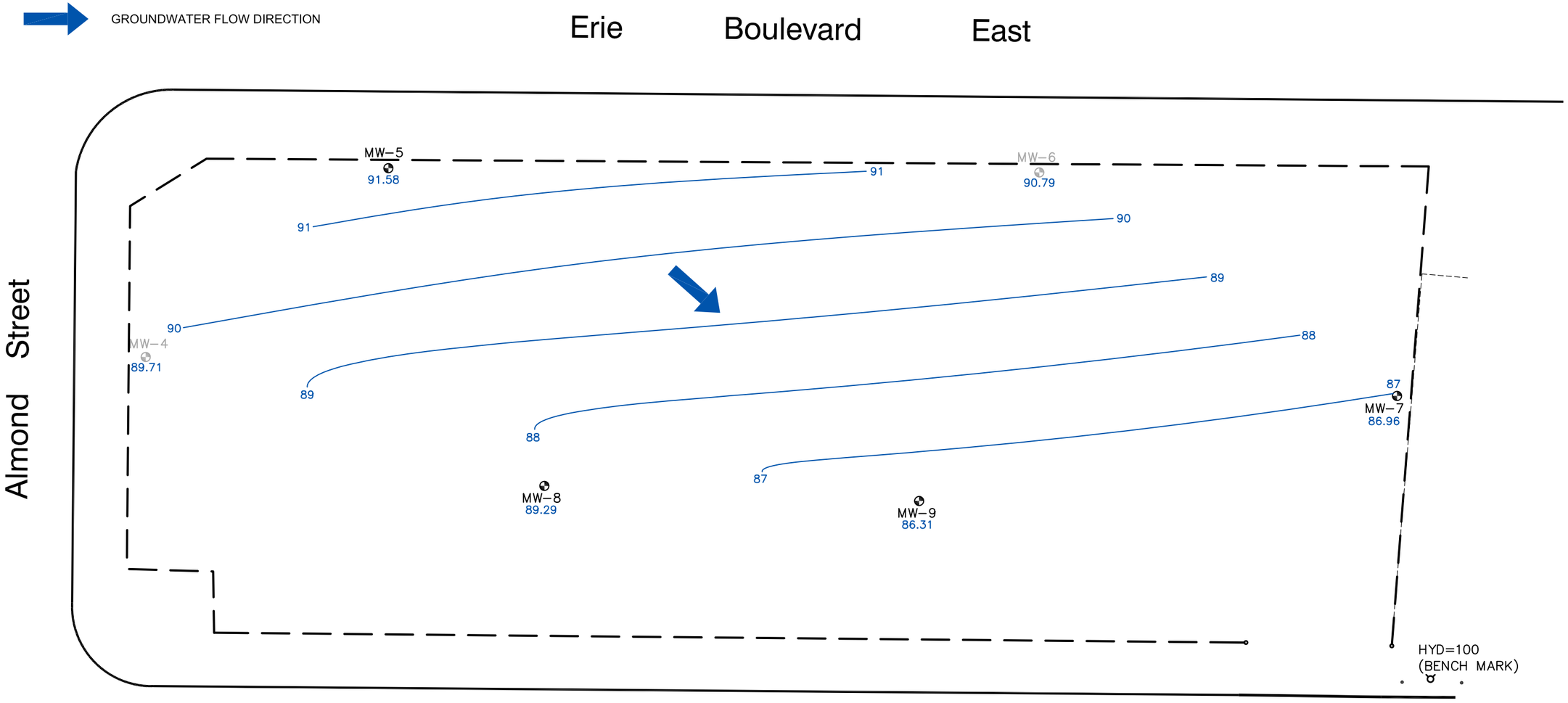
SITE PLAN

700 OUTPARCEL
701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
1

LEGEND:

- CHAIN LINK FENCE
- GATE POST
- FIRE HYDRANT
- STEEL SAFETY POST
- MW–#● MONITORING WELL (SAMPLED)
- MW–#● MONITORING WELL (NOT SAMPLED)
- 86.62 GROUNDWATER ELEVATION RELATIVE TO BENCHMARK
- GROUNDWATER FLOW DIRECTION



NOTES:

1. SURVEY PROVIDED BY J.R.L. LAND SURVEYING, PLLC 7-31-15.
2. ALL LOCATIONS ARE APPROXIMATE.

0 20' 40'

GRAPHIC SCALE

STRATEGIC Environmental, LLC

AECC ENVIRONMENTAL CONSULTING

PROJECT NO.	18-051
DRAWN:	DEC. 2018
DRAWN BY:	DW
CHECKED BY:	RM/DB

GROUNDWATER CONTOUR

700 OUTPARCEL
701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE

2

ATTACHMENT A

Site Inspection Form

ANNUAL / SEVERE CONDITION SITE INSPECTION FORM

Site Name: 700 Outparcel
Address: 701-709 East Water Street
Syracuse, New York
Tax ID: Section 30, Block 14 - Lots 1.0 & 2.0
Area: 0.43± acres
NYSDEC Site #: C734111

Inspection Date: December 5, 2018

Weather During Inspection:
Temperature: 29 °F
Conditions: Mostly clear/sunny

Description of Engineering Control(s) to be Inspected:

Cover System: One foot of crusher run gravel over an orange fabric demarcation barrier within fenced area. Strips of asphalt pavement outside of fenced area along the northern and eastern borders (municipal sidewalk and U-Haul parking lot). The site is used for occasional vehicular parking.

Conditions:
Describe deficiencies/remedies in the Comments section, and mark up Site Plan on Page 2 as needed

- ✓ Walk and inspect the perimeter of the Site, including the areas outside the fenced area
- ✓ Walk and inspect the cover system within the fenced area

1.	Has there been a change in use of the Site?	Y	N
2.	Has any material been removed?	Y	N
3.	Has anything been constructed on the Site?	Y	N
4.	Are there any signs of significant settlement or deterioration of the cover?	Y	N
5.	Are there any signs of erosion?	Y	N
6.	Is the cover material being tracked onto adjacent sidewalks/streets by vehicular traffic?	Y	N
7.	Has the cover material sloughed onto adjacent sidewalks or parking lots?	Y	N
8.	Are there any signs of intrusive activities (drilling, excavation, etc.)?	Y	N
9.	Are there signs that snow plowing has altered the surface of the cover?	Y	N
10.	Is the perimeter fence damaged?	Y	N
11.	Is the demarcation barrier visible in any locations?	Y	N
12.	Is any staining of the cover material visible (vehicle leaks, etc.)?	Y	N
13.	Are the flush-mounted protective casings of the 6 monitoring wells damaged or compromised?	Y	N
14.	Are the covers of the 6 monitoring wells damaged or compromised?	(Y)	N
15.	Have previous recommended remedies/repairs been implemented?	(N/A)	Y N

Comments:
If an inspection identifies damage to the cover or wells, it shall be reported to the NYSDEC by noon the following business day (if an emergency) or within 5 business days (if a non-emergency)

Covers remain intact. Top 8" riser of well casing at MW-7 (additional piece added when cover installed) dislodged when removing frozen cap (frozen together). Temporary fix implemented by joining pieces as best able. Integrity of well not compromised.

One bolt at MW-8 is becoming stripped and should be replaced.

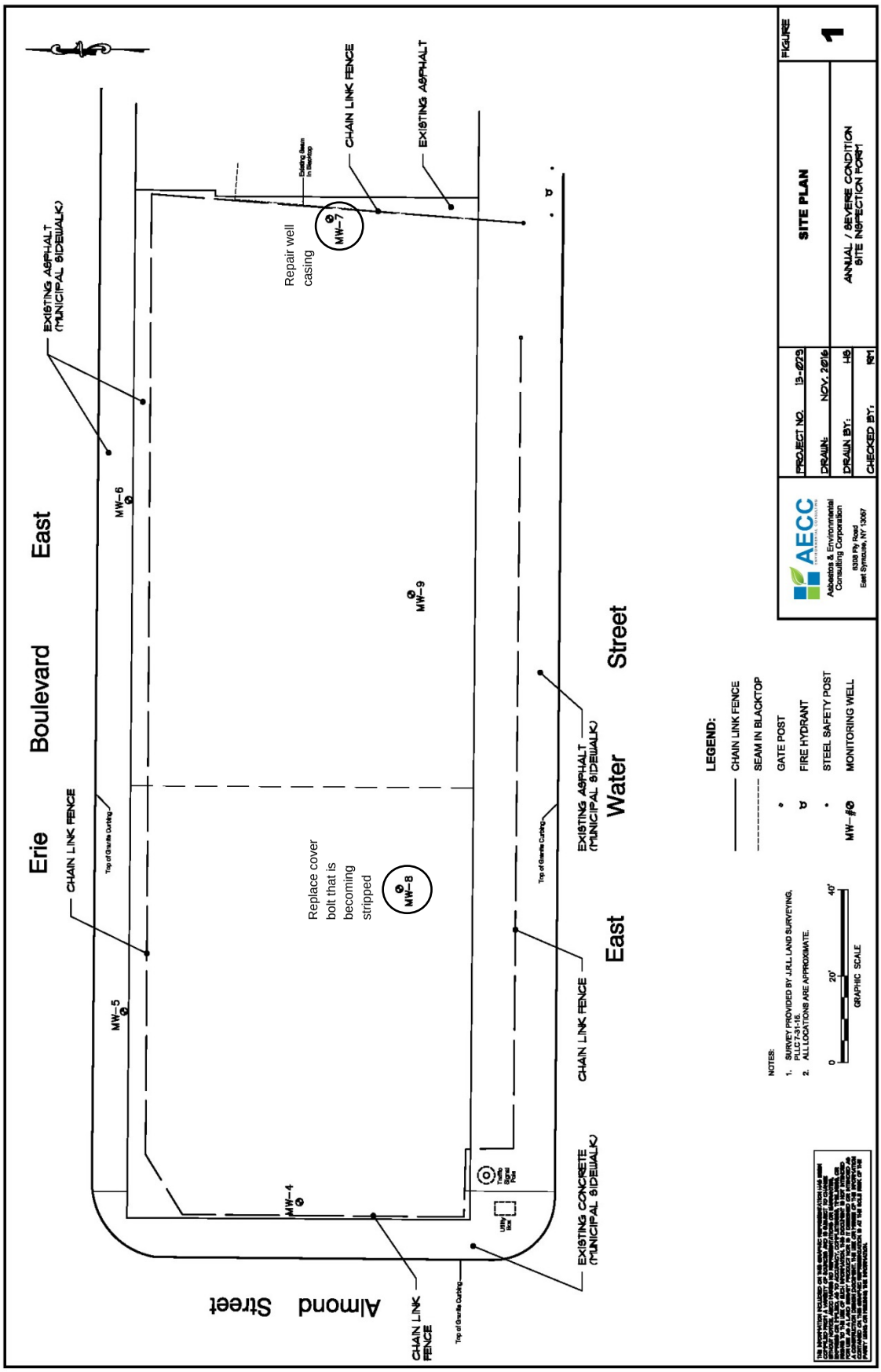
Attachments:
Photographs: (Y) N
Other (Describe): Y (N)

Name of Inspector (Print): H. Nevin Bradford III, P.E.

H. Nevin Bradford III

Signature of Inspector (Environmental Professional) **Date** December 10, 2018

ANNUAL / SEVERE CONDITION SITE INSPECTION FORM



ATTACHMENT B

SITE INSPECTION PHOTO LOG

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 1		
Photo Description:		
Access at southeast corner of Site		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 2		
Photo Description:		
Access at southeast corner of Site Chain on ground (re-secured by AECC personnel upon departing Site)		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 3		
Photo Description:		
Looking West across Site		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 4		
Photo Description:		
Center of Site – Looking West		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 5		
Photo Description:		
Center of Site – Looking North		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 6		
Photo Description:		
Center of Site – Looking East		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 7		
Photo Description:		
Center of Site – Looking South		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 8		
Photo Description:		
Western Perimeter of Site Growing vines / weeds removed from fencing and on ground		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 9		
Photo Description:		
Looking East across Site		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 10		
Photo Description:		
MW-4 at western perimeter of Site (with cover off)		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 11		
Photo Description:		
MW-4 Well intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 12		
Photo Description:		
MW-4 Well cap intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 13		
Photo Description:		
MW-4 Well cover intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 14		
Photo Description:		
MW-4 at western perimeter of Site (with cover in-place)		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 15		
Photo Description:		
MW-5 at northwestern perimeter of Site (with cover off)		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 16		
Photo Description:		
MW-5 Well intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 17		
Photo Description:		
MW-5 Well cap intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 18		
Photo Description:		
MW-5 Well cover intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 19		
Photo Description:		
MW-6 at northeastern perimeter of Site		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 20		
Photo Description:		
MW-6 Well intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 21		
Photo Description:		
MW-6 Well cap intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 22		
Photo Description:		
MW-6 Well cover intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 23		
Photo Description:		
MW-7 at eastern perimeter of Site		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 24		
Photo Description:		
MW-7 Top 8” of well riser damaged / detached (see photo No. 25)		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 25		
Photo Description:		
MW-7 Damaged / detached top 8” of well riser		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 26		
Photo Description:		
MW-7 Damaged upper 8” of well riser forced back into place and well cap intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 27		
Photo Description:		
MW-7 Well cover intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 28		
Photo Description:		
MW-8 Well intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 29		
Photo Description:		
MW-8 Well cap intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 30		
Photo Description:		
MW-8 Well cover intact One bolt becoming stripped and should be replaced		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 31		
Photo Description:		
MW-9 Well intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 32		
Photo Description:		
MW-9 Well cap intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 33		
Photo Description:		
MW-9 Well cover intact		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 34		
Photo Description:		
Drummed sampling material waste (temporary tubing, gloves, etc.)		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 35		
Photo Description:		
Damage / corrosion / holes in waste storage drum		

AECC ENVIRONMENTAL CONSULTING	**700 Outparcel** **701-709 East Water Street, Syracuse, New York**	**Date:** 12/05/2018
Photo No. 36		
Photo Description:		
Drum secured at southern perimeter of Site		

ATTACHMENT C

CERTIFICATION FORMS

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C734111**

Site Name 700 Out Parcel, LLC

Site Address: 701-709 East Water Street Zip Code: 13202
City/Town: Syracuse
County: Onondaga
Site Acreage: 0.440

Reporting Period: November 03, 2017 to March 03, 2019

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	X

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

	YES	NO
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C734111 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
030-14-01.0	700 Out Parcel, LLC c/o Woodbine Group	IC/EC Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan

Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

•allows the use and development of the controlled property for commercial as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

•restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and

•requires compliance with the Department approved Site Management Plan.

030-14-02.0	700 Out Parcel, LLC c/o Woodbine Group	Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan Landuse Restriction IC/EC Plan

Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

•allows the use and development of the controlled property for commercial as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

•restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and

•requires compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
030-14-01.0	Cover System
A site cover will be required to allow for commercial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).	
030-14-02.0	Cover System
A site cover will be required to allow for commercial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).	

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C734111

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Norman E. Swanson (print name) at 505 E Fayette St., Syracuse, NY 13210 (print business address),

am certifying as Owner of 700 Out Parcel, LLC (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

MEMBER

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

March 6, 2019
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I H. Nevin Bradford III (print name) at 6308 Fly Road, East Syracuse, NY 13057 (print business address),

am certifying as a Professional Engineer for the 700 Out Parcel, LLC (Owner or Remedial Party)

H. Nevin Bradford III

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

March 6, 2019

Date

ATTACHMENT D

ANALYTICAL SAMPLING – SUMMARY TABLES

GENERAL NOTES / LEGEND

TABLE 1 – Q1 VOCS

TABLE 2 – Q1 SVOCS

TABLE 3 – Q1 METALS

TABLE 4 – Q2 VOCS

TABLE 5 – Q2 SVOCS

TABLE 6 – Q2 METALS

TABLE 7 – Q3 VOCS

TABLE 8 – Q3 SVOCS

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TABLE 10 – Q4 VOCS

TABLE 11 – Q4 SVOCS

TABLE 12 – Q4 METALS

TABLE 13 – SUMMARY OF HISTORICAL EXCEEDANCES

GENERAL NOTES / LEGEND

Applicable standard is the groundwater effluent (Class GA) guidance value or standard per NYSDEC Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1)

Acronym	Meaning
BRL	Below Reportable Limit (non-detect)
NS	No TOGS 1.1.1 Guidance Value or Standard for this compound
ND	Any detectable concentration by the approved analytical methods constitutes an exceedance of the GWS
Bold + Shading	Compound concentration exceeds the applicable GWS

Qualifier	Quality Implication
U	Analyte analyzed for, but not detected above the sample's reported quantitation limit
J	Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample
J +	Sample likely to have a high bias
J –	Sample likely to have a low bias
UJ	Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	Sample result rejected due to serious deficiency in ability to analyze sample and meet quality control criteria; the presence or absence of the analyte cannot be confirmed. This qualifier also may apply when more than one sample result is generated for a target analyte (*i.e.* , dilutions or re-analyses), the most technically acceptable result is considered acceptable.
B | EB **TB | BB**	An analyte identified in method blank (B), aqueous equipment (EB), trip (TB), or bottle blanks (BB) used to assess field contamination associated with soil or sediment samples mandates these qualifiers for only soil and sediment sample results.
P	Use professional judgment based on data use. It usually has an "M" with it, which indicates that a manual check should be made if the data that are qualified with the "P" are important to the data user. In addition, "PM" also means a decision is necessary from the Project Manager (or a delegate) concerning the need for further review of the data (*see below*).
PM	A manual review of the raw data is recommended to determine if the defect affects data use, as in "R" above. This review should include consideration of potential affects that could result from using the "P" qualified data. For example, in the case of holding-time exceedance, the Project Manager or delegate can decide to use the data with no qualification when analytes of interest are known not to be adversely affected by holding-time exceedances. Another example is the case where soil sample duplicate analyses for metals exceed the precision criteria; because this is likely due to sample non-homogeneity rather than contract laboratory error, then the manager or delegate must decide how to use the data.

TABLE 1
Groundwater Analyses Summary - VOCs
Method SW-846 8260

2018 Q1 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE				
Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5	MW-D (MW-5)	MW-7	MW-8[D]	MW-9
				03/19/18	03/19/18	03/19/18	03/19/18	03/19/18
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	-	BRL	BRL	BRL	BRL	BRL
Acetone	67-64-1	NS	50	BRL	BRL	BRL	BRL	BRL
Acrylonitrile	107-13-1	5	-	BRL	BRL	BRL	BRL	BRL
Benzene	71-43-2	1	-	BRL	BRL	BRL	**5.7** J	0.33 J
Bromobenzene	108-86-1	5	-	BRL	BRL	BRL	BRL	BRL
Bromochloromethane	74-97-5	5	-	BRL	BRL	BRL	BRL	BRL
Bromodichloromethane	75-27-4	NS	50	BRL	BRL	BRL	BRL	BRL
Bromoform	75-25-2	NS	50	BRL	BRL	BRL	BRL	BRL
Bromomethane	74-83-9	5	-	BRL	BRL	BRL	BRL	BRL
2-Butanone (MEK)	78-93-3	NS	50	BRL	BRL	BRL	BRL	BRL
n-Butylbenzene	104-51-8	5	-	BRL	BRL	BRL	**13.1**	0.47 J
sec-Butylbenzene	135-98-8	5	-	BRL	BRL	BRL	**7.4** J	1.53
tert-Butylbenzene	98-06-6	5	-	BRL	BRL	BRL	BRL	0.51 J
Carbon disulfide	75-15-0	NS	NS	BRL	BRL	BRL	BRL	BRL
Carbon tetrachloride	56-23-5	5	-	BRL UJ	BRL	BRL	BRL	BRL
Chlorobenzene	108-90-7	5	-	BRL	BRL	BRL	BRL	BRL
Chloroethane	75-00-3	5	-	BRL	BRL	BRL	BRL	BRL
Chloroform	67-66-3	7	-	BRL	BRL	BRL	BRL	BRL
Chloromethane (methyl chloride)	74-87-3	5	-	BRL	BRL	BRL	BRL	BRL
2-Chlorotoluene	95-49-8	5	-	BRL	BRL	BRL	BRL	BRL
4-Chlorotoluene	106-43-4	5	-	BRL	BRL	BRL	BRL	BRL
1,2-Dibromo-3-chloropropane	96-12-8	0.04	-	BRL	BRL	BRL	BRL	BRL
Dibromochloromethane	124-48-1	NS	50	BRL	BRL	BRL	BRL	BRL
1,2-Dibromoethane (EDB)	106-93-4	0.0006	-	BRL	BRL	BRL	BRL	BRL
Dibromomethane	74-95-3	5	-	BRL	BRL	BRL	BRL	BRL
1,2-Dichlorobenzene	95-50-1	3	-	BRL	BRL	BRL	BRL	BRL
1,3-Dichlorobenzene	541-73-1	3	-	BRL	BRL	BRL	BRL	BRL
1,4-Dichlorobenzene	106-46-7	3	-	BRL	BRL	BRL	BRL	BRL
Dichlorodifluoromethane (Freon12)	75-71-8	5	-	BRL	BRL	BRL	BRL	BRL
1,1-Dichloroethane	75-34-3	5	-	BRL	BRL	BRL	BRL	BRL
1,2-Dichloroethane	107-06-2	0.6	-	BRL	BRL	BRL	BRL	BRL
1,1-Dichloroethene	75-35-4	5	-	BRL	BRL	BRL	BRL	BRL
cis-1,2-Dichloroethene	156-59-2	5	-	BRL	BRL	BRL	BRL	BRL
trans-1,2-Dichloroethene	156-60-5	5	-	BRL	BRL	BRL	BRL	BRL
1,2-Dichloropropane	78-87-5	1	-	BRL	BRL	BRL	BRL	BRL
1,3-Dichloropropane	142-28-9	5	-	BRL	BRL	BRL	BRL	BRL
2,2-Dichloropropane	594-20-7	5	-	BRL	BRL	BRL	BRL	BRL
1,1-Dichloropropene	563-58-6	5	-	BRL	BRL	BRL	BRL	BRL
cis-1,3-Dichloropropene	10061-01-5	0.4**	-	BRL	BRL	BRL	BRL	BRL
trans-1,3-Dichloropropene	10061-02-6		-	BRL	BRL	BRL	BRL	BRL
Ethylbenzene	100-41-4	5	-	BRL	BRL	BRL	**157**	BRL
Hexachlorobutadiene	87-68-3	0.5	-	BRL	BRL	BRL	BRL	BRL
2-Hexanone (MBK)	591-78-6	NS	50	BRL	BRL	BRL	BRL	BRL
Isopropylbenzene	98-82-8	5	-	BRL	BRL	BRL	**21.9**	3.16
4-Isopropyltoluene	99-87-6	5	-	BRL	BRL	BRL	4.5 J	0.59 J
Methyl tert-butyl ether	1634-04-4	NS	NS	BRL	BRL	BRL	BRL	BRL
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	NS	BRL	BRL	BRL	BRL	BRL
Methylene chloride	75-09-2	5	-	BRL	BRL	BRL	BRL	BRL
Naphthalene	91-20-3	NS	10	BRL	BRL	BRL	**73.2**	0.67 J
n-Propylbenzene	103-65-1	5	-	BRL	BRL	BRL	**67.8**	4.8
Styrene	100-42-5	5	-	BRL	BRL	BRL	BRL	BRL
1,1,1,2-Tetrachloroethane	630-20-6	5	-	BRL UJ	BRL	BRL	BRL	BRL
1,1,2,2-Tetrachloroethane	79-34-5	5	-	BRL	BRL	BRL	BRL	BRL
Tetrachloroethene	127-18-4	5	-	BRL	BRL	BRL	BRL	BRL
Toluene	108-88-3	5	-	BRL	BRL	BRL	**15.6**	BRL
1,2,3-Trichlorobenzene	87-61-6	5	10*	BRL	BRL	BRL	BRL	BRL
1,2,4-Trichlorobenzene	120-82-1	5	10*	BRL	BRL	BRL	BRL	BRL
1,3,5-Trichlorobenzene	108-70-3	5	10*	BRL	BRL	BRL	BRL	BRL
1,1,1-Trichloroethane	71-55-6	5	-	BRL UJ	BRL	BRL	BRL	BRL
1,1,2-Trichloroethane	79-00-5	1	-	BRL	BRL	BRL	BRL	BRL
Trichloroethene	79-01-6	5	-	BRL UJ	BRL UJ	BRL UJ	BRL UJ	BRL UJ
Trichlorofluoromethane (Freon 11)	75-69-4	5	-	BRL UJ	BRL UJ	BRL UJ	BRL UJ	BRL UJ
1,2,3-Trichloropropane	96-18-4	0.04	-	BRL	BRL	BRL	BRL	BRL
1,2,4-Trimethylbenzene	95-63-6	5	-	BRL	BRL	BRL	**486**	0.79 J
1,3,5-Trimethylbenzene	108-67-8	5	-	BRL	BRL	BRL	**150**	BRL
Vinyl chloride	75-01-4	2	-	BRL	BRL	BRL	BRL	BRL
m,p-xylene	17960123-1	5	-	BRL	BRL	BRL	**607**	0.62 J
o-xylene	95-47-6	5	-	BRL	BRL	BRL	**156**	BRL
Tetrahydrofuran	109-99-9	NS	50	BRL UJ	BRL	BRL	BRL	BRL
Ethyl ether	60-29-7	NS	NS	BRL	BRL	BRL	BRL	BRL
tert-amyl methyl ether	994-05-8	NS	NS	BRL	BRL	BRL	BRL	BRL
Ethyl tert-butyl ether	637-92-3	NS	NS	BRL	BRL	BRL	BRL	BRL
Di-isopropyl ether	108-20-3	NS	NS	BRL	BRL	BRL	BRL	BRL
tert-Butanol / butyl alcohol	75-65-0	NS	NS	BRL UJ	BRL	BRL	BRL	BRL
1,4-Dioxane	123-91-1	NS	NS	BRL	BRL	BRL	BRL	BRL
trans-1,4-Dichloro-2-butene	110-57-6	5	-	BRL	BRL	BRL	BRL	BRL
Ethanol	64-17-5	NS	NS	BRL	BRL	BRL	BRL	BRL
Tentatively Identified Compounds (TICs)								
2-Butene, 2,3-dimethyl-	000563-79-1	NS	NS	-	-	-	87	-
Benzene, 1-ethyl-2-methyl-	611-14-3	NS	NS	-	-	-	280	-
Benzene, 2-ethenyl-1,4-dime...	002039-89-6	NS	NS	-	-	-	87	-
Butane, 2-methyl-	78-78-4	NS	NS	-	-	-	340	-
Cyclopentane, methyl-	96-37-7	NS	NS	-	-	-	310	-
Pentane	109-66-0	NS	NS	-	-	-	130	-
Pentane, 2-methyl-	107-83-5	NS	NS	-	-	-	380	-
Pentane, 3-methyl-	96-14-0	NS	NS	-	-	-	180	-
Benzene, 1,4-diethyl-	105-05-5	NS	NS	-	-	-	-	9.6
Cyclohexane, 1,1-dimethyl-	NA	NS	NS	-	-	-	-	12
Cyclopentane, 1,2-dimethyl-...	000822-50-4	NS	NS	-	-	-	-	20
Cyclopentene, 1,2,3-trimethyl-	473-91-6	NS	NS	-	-	-	-	23
Indan, 1-methyl-	000767-58-8	NS	NS	-	-	-	-	13
Pentane, 2,3-dimethyl-	565-59-3	NS	NS	-	-	-	-	10
TOTAL VOCs	-	-	-	0	0	0	3559.2	101.07

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene individually. Value of 10 ug/L, applies to the sum of these substances*
** - Sum of cis and trans Dichloropropenes

TABLE 2
Groundwater Analyses Summary - SVOCs
Method SW-846 8270

2018 Q1 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Semi-Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-D (MW-7)		MW-8		MW-9	
				3/19/2018		4/2/2018		4/2/2018		3/19/2018		4/2/2018	
Acenaphthene	83-32-9	20	20	BRL	UJ	BRL		BRL		BRL		BRL	
Acenaphthylene	208-96-8	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
Aniline	62-53-3	5	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Anthracene	120-12-7	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
Azobenzene/Diphenyldiazene	103-33-3	5	0.5	BRL	UJ	BRL		BRL		BRL		BRL	
Benzidine	92-87-5	5	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Benzo (a) anthracene	56-55-3	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
Benzo (a) pyrene	50-32-8	ND	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL		BRL	UJ
Benzo (b) fluoranthene	205-99-2	NS	0.002	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Benzo (g,h,i) perylene	191-24-2	NS	NS	BRL	UJ	BRL	UJ	BRL	UJ	BRL		BRL	UJ
Benzo (k) fluoranthene	207-08-9	NS	0.002	BRL	UJ	BRL		BRL		BRL	UJ	BRL	
Benzoic acid	65-85-0	NS	NS	1.49	J	BRL		BRL		3.07	J	BRL	
Benzyl alcohol	100-51-6	NS	NS	BRL	UJ	BRL		BRL		BRL	UJ	BRL	
Bis(2-chloroethoxy)methane	111-91-1	5	-	BRL	UJ	BRL		BRL		BRL		BRL	
Bis(2-chloroethyl)ether	111-44-4	1	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Bis(2-chloroisopropyl)ether	108-60-1	5	-	BRL	UJ	BRL		BRL		BRL		BRL	
Bis(2-ethylhexyl)phthalate	117-81-7	5	-	BRL	UJ	1.03	J	0.841	J	1.32	J	1.23	J
4-Bromophenyl phenyl ether	101-55-3	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
Butyl benzyl phthalate	85-68-7	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
Carbazole	86-74-8	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
4-Chloro-3-methylphenol	59-50-7	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
4-Chloroaniline	106-47-8	5	-	BRL	UJ	BRL		BRL		BRL	UJ	BRL	
2-Chloronaphthalene	91-58-7	NS	10	BRL	UJ	BRL		BRL		BRL		BRL	
2-Chlorophenol	95-57-8	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
Chrysene	218-01-9	NS	0.002	BRL	UJ	BRL		BRL		BRL		BRL	
Dibenzo (a,h) anthracene	53-70-3	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
Dibenzofuran	132-64-9	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
1,2-Dichlorobenzene	95-50-1	3	-	BRL	UJ	BRL		BRL		BRL		BRL	
1,3-Dichlorobenzene	541-73-1	3	-	BRL	UJ	BRL		BRL		BRL		BRL	
1,4-Dichlorobenzene	106-46-7	3	-	BRL	UJ	BRL		BRL		BRL		BRL	
3,3´-Dichlorobenzidine	91-94-1	5	-	BRL	UJ	BRL		BRL		BRL	UJ	BRL	
2,4-Dichlorophenol	120-83-2	1**	-	BRL	UJ	BRL		BRL		BRL	UJ	BRL	
Diethyl phthalate	84-66-2	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
Dimethyl phthalate	131-11-3	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
2,4-Dimethylphenol	105-67-9	1**	-	BRL	UJ	BRL		BRL		BRL		BRL	
Di-n-butyl phthalate	84-74-2	50	-	BRL	UJ	9.37	J	8.38	J	BRL		8.37	J
4,6-Dinitro-2-methylphenol	534-52-1	NS	NS	BRL	UJ	BRL		BRL	UJ	1.71	J	BRL	UJ
2,4-Dinitrophenol	51-28-5	1**	-	BRL	UJ	BRL	UJ	BRL		**1.15**	J	BRL	
2,4-Dinitrotoluene	121-14-2	5	-	0.857	J	BRL		BRL		0.913	J	BRL	
2,6-Dinitrotoluene	606-20-2	5	-	1.28	J	BRL		BRL		1.93	J	BRL	
Di-n-octyl phthalate	117-84-0	NS	50	35.3	J	**54**	J	1.59	J	3.62	J	2.36	J
Fluoranthene	206-44-0	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
Fluorene	86-73-7	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
Hexachlorobenzene	118-74-1	0.04	-	BRL	UJ	BRL		BRL		BRL		BRL	
Hexachlorobutadiene	87-68-3	0.5	-	BRL	UJ	BRL		BRL		BRL		BRL	
Hexachlorocyclopentadiene	77-47-4	5	-	BRL	UJ	BRL		BRL		BRL		BRL	
Hexachloroethane	67-72-1	5	-	BRL	UJ	BRL	UJ	BRL	UJ	**14.8**	J	BRL	UJ
Indeno (1,2,3-cd) pyrene	193-39-5	NS	0.002	BRL	UJ	BRL	UJ	BRL	UJ	BRL		BRL	UJ
Isophorone	78-59-1	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
2-Methylnaphthalene	91-57-6	NS	NS	BRL	UJ	BRL		BRL		17.3	J	BRL	
2-Methylphenol	95-48-7	NS	NS	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
3 & 4-Methylphenol	108-39-4, 106-44-5	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
Naphthalene	91-20-3	NS	10	BRL	UJ	BRL		BRL		**22.4**	J	BRL	
2-Nitroaniline	88-74-4	5	-	BRL	UJ	BRL		BRL		BRL		BRL	
3-Nitroaniline	99-09-2	5	-	BRL	UJ	BRL		BRL		BRL	UJ	BRL	
4-Nitroaniline	100-01-6	5	-	BRL	UJ	BRL		BRL		BRL		BRL	
Nitrobenzene	98-95-3	0.4	-	BRL	UJ	BRL		BRL		**8.9**	J	BRL	
2-Nitrophenol	88-75-5	NS	NS	BRL	UJ	BRL		BRL		BRL	UJ	BRL	
4-Nitrophenol	100-02-7	NS	NS	1.21	J	BRL		BRL		1.26	J	BRL	
N-Nitrosodimethylamine	62-75-9	NS	NS	BRL	UJ	BRL		BRL		BRL		BRL	
N-Nitrosodi-n-propylamine	621-64-7	NS	NS	1.1	J	BRL	UJ	BRL	UJ	2.96	J	BRL	UJ
N-Nitrosodiphenylamine	86-30-6	NS	50	BRL	UJ	BRL	UJ	BRL		BRL		BRL	
Pentachlorophenol	87-86-5	1**	-	BRL	UJ	BRL		BRL		BRL		BRL	
Phenanthrene	85-01-8	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
Phenol	108-95-2	1**	-	BRL	UJ	BRL		BRL		BRL		BRL	
Pyrene	129-00-0	NS	50	BRL	UJ	BRL		BRL		BRL		BRL	
Pyridine	110-86-1	NS	50	BRL	UJ	BRL	UJ	BRL	UJ	BRL		BRL	UJ
1,2,4-Trichlorobenzene	120-82-1	5, 10*	-	BRL	UJ	BRL		BRL		BRL		BRL	
1-Methylnaphthalene	90-12-0	NS	NS	BRL	UJ	BRL		BRL		7.5	J	BRL	
2,4,5-Trichlorophenol	95-95-4	1**	-	BRL	UJ	BRL		BRL		BRL		BRL	
2,4,6-Trichlorophenol	88-06-2	1**	-	BRL	UJ	BRL		BRL		BRL		BRL	
Pentachloronitrobenzene	82-68-8	ND	-	BRL	UJ	BRL		BRL		BRL		BRL	
1,2,4,5-Tetrachlorobenzene	95-94-3	5, 10*	-	BRL	UJ	BRL		BRL		BRL		BRL	
Tentatively Identified Compounds (TICs)													
9-Octadecenamide, (Z)- (01)	000301-02-0	NS	NS	-		8		-		-		-	
13-Docosenamide, (Z)-	000112-84-5	NS	NS	-		-		5.6		-		-	
13-Docosenamide, (Z)-	000112-84-5	NS	NS	-		-		-		-		4.8	
1H-Indene, 2,3-dihydro-5-me...	NA	NS	NS	-		-		-		12		-	
1H-Indene,2,3-dihydro-2,2-d...	020836-11-7	NS	NS	-		-		-		9.7		-	
Benzene, (1-methylethyl)-	NA	NS	NS	-		-		-		5.7		-	
Benzene, (3-methyl-2-butenyl)-	NA	NS	NS	-		-		-		4.9		-	
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NS	NS	-		-		-		23		-	
Benzene, 1,2,3-trimethyl- (01)	000526-73-8	NS	NS	-		-		-		48		-	
Benzene, 1,2,4,5-tetramethyl- (01)	000095-93-2	NS	NS	-		-		-		16		-	
Benzene, 1,3-dimethyl-	108-38-3	NS	NS	-		-		-		47		-	
Benzene, 1-ethyl-3-methyl-	000620-14-4	NS	NS	-		-		-		110		-	
Benzene, 1-methyl-3-propyl-	001074-43-7	NS	NS	-		-		-		29		-	
Benzene, 1-methyl-4-(1-meth...	000099-87-6	NS	NS	-		-		-		4.1		-	
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NS	NS	-		-		-		7.6		-	
Benzene, propyl-	103-65-1	NS	NS	-		-		-		18		-	
Cyclic octaatomic sulfur	010544-50-0	NS	NS	-		-		-		47		-	
Indane	496-11-7	NS	NS	-		-		-		24		-	
n-Hexadecanoic Acid	112-39-0	NS	NS	-		-		-		5.1		-	
TOTAL SVOCs	-	-	-	41.237		72.4		16.411		499.933		16.76	

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene or tetrachlorobenzene individually. Value of 10 ug/L, applies to the sum of these respective substances*
*** - Value of 1 ug/L applies to the sum of all phenolic compounds*

TABLE 3
Groundwater Analyses Summary - Metals
Method SW846 6010C

2018 Q1 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Metal	CAS No.	Standard	Guidance Value	MW-5		MW-D (MW-5)		MW-7		MW-8		MW-9	
				03/19/18		03/19/18		03/19/18		03/19/18		03/19/18	
Aluminum	7429-90-5	2000	-	68.2	J	66.6	J	33	J	BRL		**2930**	J
Antimony	7440-36-0	3	-	**6.5**		**6.2**		2.2	J	**4.4**	J	**3.4**	J
Arsenic	7440-38-2	25	-	BRL		BRL		BRL		BRL		BRL	
Barium	7440-39-3	1000	-	230		230		680		518		537	
Beryllium	7440-41-7	3	-	0.4	J	BRL		BRL		BRL		BRL	
Cadmium	7440-43-9	5	-	0.4		BRL		BRL		0.4	J	0.4	J
Calcium	7440-70-2	NS	NS	133,000		140,000		176,000		241,000		230,000	
Chromium	7440-47-3	50	-	3.2	J	3	J	1.7	J	1.7	J	5.4	
Cobalt	7440-48-4	NS	NS	BRL		BRL		BRL		BRL		1	J
Copper	7440-50-8	200	-	6.4		8.2		6.7		BRL		5.8	
Iron	7439-89-6	300	-	70.6	J	85.8	J	102	J	**6,360**		**5,520**	
Lead	7439-92-1	25	-	BRL		BRL		BRL		BRL		BRL	
Magnesium	7439-95-4	-	35000	17,700		18,100		30,000		**36,400**		**36,100**	
Manganese	7439-96-5	300	-	BRL		2	J	15.4		**1,340**		**730**	
Mercury*	7439-97-5	0.7	-	BRL		BRL		BRL		BRL		BRL	
Nickel	7440-02-0	100	-	1	J	1.2	J	1.6	J	BRL		3.4	J
Potassium	7440-09-7	NS	NS	5,900		6,260		9,140		10,300		15,600	
Selenium	7782-49-2	10	-	6.6	J	6.4	J	BRL		BRL		BRL	
Silver	7440-22-4	50	-	BRL		BRL		BRL		BRL		BRL	
Sodium	7440-23-5	20000	-	**1,330,000**	J	**1,400,000**	J	**409,000**	J	**60,400**	J	**449,000**	J
Thallium	7440-28-0	-	0.5	BRL		BRL		BRL		BRL		BRL	
Vanadium	7440-62-2	NS	NS	2.7	J	2.8	J	BRL		BRL		4.7	J
Zinc	7440-66-6	-	2000	13.8		15.4		4.2	J	3.4	J	10.6	

Notes:
All concentrations in micrograms per liter (ug/L), or approximate parts per billion (ppb)
**Mercury analyzed by Method EPA 245.1/7470A*

TABLE 4
Groundwater Analyses Summary - VOCs
Method SW-846 8260

2018 Q2 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-8		MW-D (MW-8)		MW-9	
				06/13/18		06/13/18		06/13/18		06/13/18		06/13/18	
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	-	BRL		BRL		BRL		BRL		BRL	
Acetone	67-64-1	NS	50	BRL		BRL		BRL		BRL		BRL	
Acrylonitrile	107-13-1	5	-	BRL		BRL		BRL		BRL		BRL	
Benzene	71-43-2	1	-	BRL		BRL		**44.1**		**42.6**		0.79	UJ
Bromobenzene	108-86-1	5	-	BRL		BRL		BRL		BRL		BRL	
Bromochloromethane	74-97-5	5	-	BRL		BRL		BRL		BRL		BRL	
Bromodichloromethane	75-27-4	NS	50	BRL		BRL		BRL		BRL		BRL	
Bromoform	75-25-2	NS	50	BRL		BRL		BRL		BRL		BRL	
Bromomethane	74-83-9	5	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
2-Butanone (MEK)	78-93-3	NS	50	BRL		BRL		BRL		BRL		BRL	
n-Butylbenzene	104-51-8	5	-	BRL		BRL		**39.7**		**38**		0.62	UJ
sec-Butylbenzene	135-98-8	5	-	BRL		BRL		**17**		**14.5**		1.11	
tert-Butylbenzene	98-06-6	5	-	BRL		BRL		6.5	UJ	2.82		0.73	UJ
Carbon disulfide	75-15-0	NS	NS	BRL		BRL		BRL		BRL		BRL	
Carbon tetrachloride	56-23-5	5	-	BRL		BRL		BRL		BRL		BRL	
Chlorobenzene	108-90-7	5	-	BRL		BRL		BRL		BRL		BRL	
Chloroethane	75-00-3	5	-	BRL		BRL		BRL		BRL		BRL	
Chloroform	67-66-3	7	-	BRL		BRL		BRL		BRL		BRL	
Chloromethane (methyl chloride)	74-87-3	5	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
2-Chlorotoluene	95-49-8	5	-	BRL		BRL		BRL		BRL		BRL	
4-Chlorotoluene	106-43-4	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	-	BRL		BRL		BRL		BRL		BRL	
Dibromochloromethane	124-48-1	NS	50	BRL		BRL		BRL		BRL		BRL	
1,2-Dibromoethane (EDB)	106-93-4	0.0006	-	BRL		BRL		BRL		BRL		BRL	
Dibromomethane	74-95-3	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichlorobenzene	95-50-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,3-Dichlorobenzene	541-73-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,4-Dichlorobenzene	106-46-7	3	-	BRL		BRL		BRL		BRL		BRL	
Dichlorodifluoromethane (Freon12)	75-71-8	5	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
1,1-Dichloroethane	75-34-3	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichloroethane	107-06-2	0.6	-	BRL		BRL		BRL		BRL		BRL	
1,1-Dichloroethene	75-35-4	5	-	BRL		BRL		BRL		BRL		BRL	
cis-1,2-Dichloroethene	156-59-2	5	-	BRL		BRL		BRL		BRL		BRL	
trans-1,2-Dichloroethene	156-60-5	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichloropropane	78-87-5	1	-	BRL		BRL		BRL		BRL		BRL	
1,3-Dichloropropane	142-28-9	5	-	BRL		BRL		BRL		BRL		BRL	
2,2-Dichloropropane	594-20-7	5	-	BRL		BRL		BRL		BRL		BRL	
1,1-Dichloropropene	563-58-6	5	-	BRL		BRL		BRL		BRL		BRL	
cis-1,3-Dichloropropene	10061-01-5	0.4**	-	BRL		BRL		BRL		BRL		BRL	
trans-1,3-Dichloropropene	10061-02-6		-	BRL		BRL		BRL		BRL		BRL	
Ethylbenzene	100-41-4	5	-	BRL		BRL		**301**		**342**		BRL	
Hexachlorobutadiene	87-68-3	0.5	-	BRL		BRL		BRL		BRL		BRL	
2-Hexanone (MBK)	591-78-6	NS	50	BRL		BRL		BRL		BRL		BRL	
Isopropylbenzene	98-82-8	5	-	0.72	UJ	BRL		**37.3**		**40.1**		2.14	
4-Isopropyltoluene	99-87-6	5	-	BRL		BRL		**16.5**		**13.8**		BRL	
Methyl tert-butyl ether	1634-04-4	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	NS	BRL		BRL		BRL		BRL		BRL	
Methylene chloride	75-09-2	5	-	BRL		BRL		BRL		BRL		BRL	
Naphthalene	91-20-3	NS	10	BRL		BRL		**171**		**204**		BRL	
n-Propylbenzene	103-65-1	5	-	0.67	UJ	BRL		**116**		**115**		1.92	
Styrene	100-42-5	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,1,2-Tetrachloroethane	630-20-6	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,2,2-Tetrachloroethane	79-34-5	5	-	BRL		BRL		BRL		BRL		BRL	
Tetrachloroethene	127-18-4	5	-	BRL		BRL		BRL		BRL		BRL	
Toluene	108-88-3	5	-	BRL		BRL		**42.7**		**42.9**		BRL	
1,2,3-Trichlorobenzene	87-61-6	5	10*	BRL		BRL		BRL		BRL		BRL	
1,2,4-Trichlorobenzene	120-82-1	5	10*	BRL		BRL		BRL		BRL		BRL	
1,3,5-Trichlorobenzene	108-70-3	5	10*	BRL		BRL		BRL		BRL		BRL	
1,1,1-Trichloroethane	71-55-6	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,2-Trichloroethane	79-00-5	1	-	BRL		BRL		BRL		BRL		BRL	
Trichloroethene	79-01-6	5	-	BRL		BRL		BRL		BRL		BRL	
Trichlorofluoromethane (Freon 11)	75-69-4	5	-	BRL		BRL		BRL		BRL		BRL	
1,2,3-Trichloropropane	96-18-4	0.04	-	BRL		BRL		BRL		BRL		BRL	
1,2,4-Trimethylbenzene	95-63-6	5	-	BRL		BRL	UJ	**921**	J	**1120**		0.85	UJ
1,3,5-Trimethylbenzene	108-67-8	5	-	BRL		BRL		**274**		**313**		0.55	UJ
Vinyl chloride	75-01-4	2	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
m,p-xylene	17960123-1	5	-	BRL		BRL		**693**		**739**		0.6	UJ
o-xylene	95-47-6	5	-	BRL		BRL		**163**		**126**		BRL	
Tetrahydrofuran	109-99-9	NS	50	BRL		BRL		BRL		BRL		BRL	
Ethyl ether	60-29-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
tert-amyl methyl ether	994-05-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
Ethyl tert-butyl ether	637-92-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Di-isopropyl ether	108-20-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
tert-Butanol / butyl alcohol	75-65-0	NS	NS	BRL		BRL		BRL		BRL		BRL	
1,4-Dioxane	123-91-1	NS	NS	BRL		BRL		BRL		BRL		BRL	
trans-1,4-Dichloro-2-butene	110-57-6	5	-	BRL		BRL		BRL		BRL		BRL	
Ethanol	64-17-5	NS	NS	BRL		BRL		BRL		43.4	UJ	BRL	
Tentatively Identified Compounds (TICs)													
Benzene 1,2,4,5-tetramethyl-	95-93-2	NS	NS	-		-		120	J	-		-	
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NS	NS	-		-		120	J	-		-	
Benzene, 1-ethyl-2-methyl-	611-14-3	NS	NS	-		-		410	J	100	J	-	
Benzene, 2-ethyl-4-methyl-	622-96-8	NS	NS	-		-		120	J	-		-	
Benzene, 1-ethenyl-3-ethyl-	007525-62-4	NS	NS	-		-		-		-		7.9	J
Benzene, 2-ethenyl-1,4-dime…	002039-89-6	NS	NS	-		-		160	J	-		-	
Benzene, 1,4-diethyl-	105-05-5	NS	NS	-		-		-		-		5.5	J
Butane, 2-methyl-	78-78-4	NS	NS	-		-		-		92	J	-	
Cyclobutane, (1-methylethyl-…	001528-22-9	NS	NS	-		-		-		64	J	-	
Cyclohexane, 1,1-dimethyl-		NS	NS	-		-		-		-		7.2	J
Cyclohexane, 1,3-dimethyl-,…	000638-04-0	NS	NS	-		-		-		62	J	-	
Cyclopentane, 1,2-dimethyl-…	000822-50-4	NS	NS	-		-		-		53	J	-	
Cyclopentane, 1,3-dimethyl-	2453-00-1	NS	NS	-		-		-		59	J	-	
Cyclopentane, methyl-	96-37-7	NS	NS	-		-		360	J	220	J	-	
Cyclopentene, 1,2,3-trimethyl-	473-91-6	NS	NS	-		-		-		-		12	J
Pentane, 2-methyl-	107-83-5	NS	NS	-		-		-		180	J	-	
Pentane, 3-methyl-	96-14-0	NS	NS	-		-		140	J	88	J	-	
Isopropylcyclobutane	872-56-0	NS	NS	-		-		-		-		9.2	J
Cyclohexane	110-82-7	NS	NS	-		-		330	J	238	J	-	
Methylcyclohexane	108-87-2	NS	NS	-		-		373	J	285	J	-	
TOTAL VOCs	-	-	-	1.4		0.0		4975.8		4638.1		51.1	

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene individually. Value of 10 ug/L, applies to the sum of these substances*
** - Sum of cis and trans Dichloropropenes

TABLE 5
Groundwater Analyses Summary - SVOCs
Method SW-846 8270

2018 Q2 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Semi-Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-8[D]		MW-D[D] (MW-8)		MW-9	
				6/13/2018		6/13/2018		6/13/2018		6/13/2018		6/13/2018	
Acenaphthene	83-32-9	20	20	BRL		BRL		BRL		BRL		BRL	
Acenaphthylene	208-96-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
Aniline	62-53-3	5	-	BRL		BRL		BRL		BRL		BRL	
Anthracene	120-12-7	NS	50	BRL		BRL		BRL		BRL		BRL	
Azobenzene/Diphenyldiazene	103-33-3	5	0.5	BRL		BRL		BRL		BRL		BRL	
Benzidine	92-87-5	5	-	BRL		BRL		BRL		BRL		BRL	
Benzo (a) anthracene	56-55-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Benzo (a) pyrene	50-32-8	ND	-	BRL		BRL		BRL		BRL		BRL	
Benzo (b) fluoranthene	205-99-2	NS	0.002	BRL		BRL		BRL		BRL		BRL	
Benzo (g,h,i) perylene	191-24-2	NS	NS	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Benzo (k) fluoranthene	207-08-9	NS	0.002	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Benzoic acid	65-85-0	NS	NS	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Benzyl alcohol	100-51-6	NS	NS	BRL		BRL		BRL		BRL		BRL	
Bis(2-chloroethoxy)methane	111-91-1	5	-	BRL		BRL		BRL		BRL		BRL	
Bis(2-chloroethyl)ether	111-44-4	1	-	BRL		BRL		BRL		BRL		BRL	
Bis(2-chloroisopropyl)ether	108-60-1	5	-	BRL		BRL		BRL		BRL		BRL	
Bis(2-ethylhexyl)phthalate	117-81-7	5	-	BRL		BRL		2.53	UJ	**5.05**	UJ	1.74	UJ
4-Bromophenyl phenyl ether	101-55-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Butyl benzyl phthalate	85-68-7	NS	50	BRL		BRL		BRL		BRL		BRL	
Carbazole	86-74-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Chloro-3-methylphenol	59-50-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Chloroaniline	106-47-8	5	-	BRL		BRL		BRL		BRL		BRL	
2-Chloronaphthalene	91-58-7	NS	10	BRL		BRL		BRL		BRL		BRL	
2-Chlorophenol	95-57-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Chrysene	218-01-9	NS	0.002	BRL		BRL		BRL		BRL		BRL	
Dibenzo (a,h) anthracene	53-70-3	NS	NS	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Dibenzofuran	132-64-9	NS	NS	BRL		BRL		BRL		BRL		BRL	
1,2-Dichlorobenzene	95-50-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,3-Dichlorobenzene	541-73-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,4-Dichlorobenzene	106-46-7	3	-	BRL		BRL		BRL		BRL		BRL	
3,3´-Dichlorobenzidine	91-94-1	5	-	BRL		BRL		BRL		BRL		BRL	
2,4-Dichlorophenol	120-83-2	1**	-	BRL		BRL		BRL		BRL		BRL	
Diethyl phthalate	84-66-2	NS	50	BRL		BRL		BRL		BRL		BRL	
Dimethyl phthalate	131-11-3	NS	50	BRL		BRL		BRL		BRL		BRL	
2,4-Dimethylphenol	105-67-9	1**	-	BRL		BRL		BRL		BRL		BRL	
Di-n-butyl phthalate	84-74-2	50	-	BRL		BRL		BRL		BRL		BRL	
4,6-Dinitro-2-methylphenol	534-52-1	NS	NS	BRL		BRL		BRL		BRL		BRL	
2,4-Dinitrophenol	51-28-5	1**	-	BRL		BRL		BRL		BRL		BRL	
2,4-Dinitrotoluene	121-14-2	5	-	BRL		BRL		BRL		BRL		BRL	
2,6-Dinitrotoluene	606-20-2	5	-	BRL		BRL		BRL		BRL		BRL	
Di-n-octyl phthalate	117-84-0	NS	50	BRL	UJ	BRL	UJ	0.916	UJ	BRL	UJ	BRL	UJ
Fluoranthene	206-44-0	NS	50	BRL		BRL		BRL		BRL		BRL	
Fluorene	86-73-7	NS	50	BRL		BRL		0.579	UJ	BRL		BRL	
Hexachlorobenzene	118-74-1	0.04	-	BRL		BRL		BRL		BRL		BRL	
Hexachlorobutadiene	87-68-3	0.5	-	BRL		BRL		BRL		BRL		BRL	
Hexachlorocyclopentadiene	77-47-4	5	-	BRL		BRL		BRL		BRL		BRL	
Hexachloroethane	67-72-1	5	-	BRL		BRL		BRL		BRL		BRL	
Indeno (1,2,3-cd) pyrene	193-39-5	NS	0.002	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Isophorone	78-59-1	NS	50	BRL		BRL		BRL		BRL		BRL	
2-Methylnaphthalene	91-57-6	NS	NS	BRL		BRL		65.2		162		BRL	
2-Methylphenol	95-48-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
3 & 4-Methylphenol	108-39-4, 106-44-5	NS	NS	BRL		BRL		BRL		BRL		BRL	
Naphthalene	91-20-3	NS	10	BRL		BRL		**53.9**		**82.7**		BRL	
2-Nitroaniline	88-74-4	5	-	BRL		BRL		BRL		BRL		BRL	
3-Nitroaniline	99-09-2	5	-	BRL		BRL		BRL		BRL		BRL	
4-Nitroaniline	100-01-6	5	-	BRL		BRL		BRL		BRL		BRL	
Nitrobenzene	98-95-3	0.4	-	BRL		BRL		BRL		BRL		BRL	
2-Nitrophenol	88-75-5	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Nitrophenol	100-02-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
N-Nitrosodimethylamine	62-75-9	NS	NS	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
N-Nitrosodi-n-propylamine	621-64-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
N-Nitrosodiphenylamine	86-30-6	NS	50	BRL		BRL		BRL		BRL		BRL	
Pentachlorophenol	87-86-5	1**	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Phenanthrene	85-01-8	NS	50	BRL		BRL		BRL		BRL		BRL	
Phenol	108-95-2	1**	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
Pyrene	129-00-0	NS	50	BRL		BRL		BRL		BRL		BRL	
Pyridine	110-86-1	NS	50	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
1,2,4-Trichlorobenzene	120-82-1	5, 10*	-	BRL		BRL		BRL		BRL		BRL	
1-Methylnaphthalene	90-12-0	NS	NS	BRL		BRL		27.8		53.3		BRL	
2,4,5-Trichlorophenol	95-95-4	1**	-	BRL		BRL		BRL		BRL		BRL	
2,4,6-Trichlorophenol	88-06-2	1**	-	BRL		BRL		BRL		BRL		BRL	
Pentachloronitrobenzene	82-68-8	ND	-	BRL		BRL		BRL		BRL		BRL	
1,2,4,5-Tetrachlorobenzene	95-94-3	5, 10*	-	BRL		BRL		BRL		BRL		BRL	
Tentatively Identified Compounds (TICs)													
5-Eicosene, (E-	074685-30-6	NS	NS	14	J, B	-		-		-		-	
Benzoic acid, 2,4-dichloro-	000050-84-0	NS	NS	-		-		-		-		8.5	J
1,3-Cyclopentadiene, 1,2,3,...	076089-59-3	NS	NS	-		-		26	J	-		-	
1-Nonadecene	018435-45-5	NS	NS	-		-		19	J	-		-	
1H-Indene, 2,3-dihydro-1,3-...	NA	NS	NS	-		-		18	J	57	J	-	
2-Tolyloxirane	002783-26-8	NS	NS	-		-		-		300	J	-	
Benzene, (1-methyl-1-butenyl)-	53172-84-2	NS	NS	-		-		-		220	J	-	
Benzene, (1-methylethyl)-		NS	NS	-		-		16	J	-		-	
Benzene, 1,2,3-trimethyl-	95-36-3	NS	NS	-		-		94	J	220	J	-	
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NS	NS	-		-		24	J	320	J	-	
Benzene, 1,2-diethyl-	135-01-3	NS	NS	-		-		-		170	J	-	
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NS	NS	-		-		-		120	J	-	
Benzene, 1-ethyl-2-methyl-	000611-14-3	NS	NS	-		-		-		320	J	-	
Benzene, 1-ethyl-3-methyl-	000620-14-4	NS	NS	-		-		-		260	J	-	
Benzene, 1,2,4-trimethyl-	95-63-6	NS	NS	-		-		55	J	-		-	
Benzene, 1,3,5-trimethyl-	108-67-8	NS	NS	-		-		85	J	-		-	
Benzene, 1-ethyl-4-methyl-	622-96-8	NS	NS	-		-		140	J	-		-	
Benzene, 1-methyl-2-(1-meth...	000527-84-4	NS	NS	-		-		70	J	290	J	-	
Benzene, 1-methyl-3-propyl-	001074-43-7	NS	NS	-		-		59	J	-		-	
Benzene, 1-methyl-4-propyl-	001074-55-1	NS	NS	-		-		14	J	63	J	-	
Benzene, 2-ethenyl-1,4-dime...	002039-89-6	NS	NS	-		-		44	J	-		-	
Benzene, 2-ethyl-1,3-dimethyl-	002870-04-4	NS	NS	-		-		81	J	-		-	
Benzene, propyl-	103-65-1	NS	NS	-		-		22	J	58	J	-	
Cyclic octaatomic sulfur	010544-50-0	NS	NS	-		-		42	J	57	J	-	
Ethylbenzene	100-41-4	NS	NS	-		-		79	J	66	J	-	
Indane	496-11-7	NS	NS	-		-		52	J	110	J	-	
p-Xylene	106-42-3	NS	NS	-		-		200	J	160	J	-	
Undecane	1120-21-4	NS	NS	-		-		-		120	J	-	
n-Hexadecanoic Acid	112-39-0	NS	NS	13	JB	-		24	JB	-		19	JB
TOTAL SVOCs	-	-	-	27		0		1314.9		3214.1		29.2	

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene or tetrachlorobenzene individually. Value of 10 ug/L, applies to the sum of these respective substances*
*** - Value of 1 ug/L applies to the sum of all phenolic compounds*

TABLE 6
Groundwater Analyses Summary - Metals
Method SW846 6010C

2018 Q2 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Metal	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-8		MW-D (MW-8)		MW-9	
				06/13/18		06/13/18		06/13/18		06/13/18		06/13/18	
Aluminum	7429-90-5	2,000	-	**3,310**		287		BRL		BRL		**2,190**	
Antimony	7440-36-0	3	-	2.4	UJ	BRL		BRL		BRL		BRL	
Arsenic	7440-38-2	25	-	4.55		18.35		15		17.65		5	
Barium	7440-39-3	1,000	-	342		303		**1,870**		**1,870**		468	
Beryllium	7440-41-7	3	-	BRL		BRL		BRL	UJ	BRL		BRL	
Cadmium	7440-43-9	5	-	0.5	UJ	BRL		BRL		BRL		0.7	UJ
Calcium	7440-70-2	NS	NS	181,000	J	265,000	J	262,000	J	269,000	J	236,000	J
Chromium	7440-47-3	50	-	5.5		BRL		BRL		BRL		3.9	UJ
Cobalt	7440-48-4	NS	NS	2.3	UJ	2	UJ	BRL		BRL		1.6	UJ
Copper	7440-50-8	200	-	12.4		BRL		BRL		BRL		5.4	
Iron	7439-89-6	300	-	**3,130**		**3,710**		**1,660**		**1,600**		**8,720**	
Lead	7439-92-1	25	-	9.2		BRL		16.8		16.6		BRL	
Magnesium	7439-95-4	-	35,000	25,200	J	**55,200**	J	**43,400**	**J**	**43,300**	**J**	**38,600**	**J**
Manganese	7439-96-5	300	-	108	J	41.8	UJ	**441**	UJ	**456**	UJ	**570**	UJ
Mercury*	7439-97-5	0.7	-	BRL		BRL		BRL		BRL		BRL	
Nickel	7440-02-0	100	-	4	UJ	2	UJ	BRL		BRL		0.3	UJ
Potassium	7440-09-7	NS	NS	9,380		4,680		5,880		5,860		15,400	
Selenium	7782-49-2	10	-	BRL		BRL		BRL		BRL		BRL	
Silver	7440-22-4	50	-	BRL		BRL		BRL		BRL		BRL	
Sodium	7440-23-5	20,000	-	**1,660,000**	**J**	**1,310,000**	**J**	**141,000**	**J**	**140,000**	**J**	**465,000**	**J**
Thallium	7440-28-0	-	0.5	BRL	UJ	BRL	UJ	BRL		BRL		BRL	
Vanadium	7440-62-2	NS	NS	7		BRL		BRL		BRL		4.8	UJ
Zinc	7440-66-6	-	2,000	32.9		4.2	UJ	3.3	UJ	2.6	UJ	11.7	UJ

Notes:
All concentrations in micrograms per liter (ug/L), or approximate parts per billion (ppb)
**Mercury analyzed by Method EPA 245.1/7470A*

TABLE 7
Groundwater Analyses Summary - VOCs
Method SW-846 8260

2018 Q3 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-8		MW-9		MW-D (MW-9)	
				09/06/18		09/06/18		09/07/18		09/07/18		09/07/18	
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	-	BRL		BRL		BRL		BRL		BRL	
Acetone	67-64-1	NS	50	BRL	UJ+	BRL	UJ+	BRL	UJ+	5.01	UJ	BRL	
Acrylonitrile	107-13-1	5	-	BRL		BRL		BRL		BRL		BRL	
Benzene	71-43-2	1	-	BRL		BRL		**34.2**		BRL		BRL	
Bromobenzene	108-86-1	5	-	BRL		BRL		BRL		BRL		BRL	
Bromochloromethane	74-97-5	5	-	BRL		BRL		BRL		BRL		BRL	
Bromodichloromethane	75-27-4	NS	50	BRL		BRL		BRL		BRL		BRL	
Bromoform	75-25-2	NS	50	BRL		BRL		BRL		BRL		BRL	
Bromomethane	74-83-9	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
2-Butanone (MEK)	78-93-3	NS	50	BRL		BRL		BRL		BRL		BRL	
n-Butylbenzene	104-51-8	5	-	2.27		BRL		**24.6**		1.62		1.82	
sec-Butylbenzene	135-98-8	5	-	1.87		BRL		**8.1**	**UJ**	0.75	UJ	1.12	
tert-Butylbenzene	98-06-6	5	-	0.33	UJ	BRL		BRL		0.61	UJ	0.6	UJ
Carbon disulfide	75-15-0	NS	NS	BRL		BRL		BRL		BRL		BRL	
Carbon tetrachloride	56-23-5	5	-	BRL		BRL		BRL		BRL		BRL	
Chlorobenzene	108-90-7	5	-	BRL		BRL		BRL		BRL		BRL	
Chloroethane	75-00-3	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
Chloroform	67-66-3	7	-	BRL		BRL		BRL		BRL		BRL	
Chloromethane (methyl chloride)	74-87-3	5	-	BRL	U B	BRL	U B	BRL	U B	BRL	U B	0.5	UJ B
2-Chlorotoluene	95-49-8	5	-	BRL		BRL		BRL		BRL		BRL	
4-Chlorotoluene	106-43-4	5	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
1,2-Dibromo-3-chloropropane	96-12-8	0.04	-	BRL		BRL		BRL		BRL		BRL	
Dibromochloromethane	124-48-1	NS	50	BRL		BRL		BRL		BRL		BRL	
1,2-Dibromoethane (EDB)	106-93-4	0.0006	-	BRL		BRL		BRL		BRL		BRL	
Dibromomethane	74-95-3	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichlorobenzene	95-50-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,3-Dichlorobenzene	541-73-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,4-Dichlorobenzene	106-46-7	3	-	BRL		BRL		BRL		BRL		BRL	
Dichlorodifluoromethane (Freon12)	75-71-8	5	-	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
1,1-Dichloroethane	75-34-3	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichloroethane	107-06-2	0.6	-	BRL		BRL		BRL		BRL		BRL	
1,1-Dichloroethene	75-35-4	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
cis-1,2-Dichloroethene	156-59-2	5	-	BRL		BRL		BRL		BRL		BRL	
trans-1,2-Dichloroethene	156-60-5	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichloropropane	78-87-5	1	-	BRL		BRL		BRL		BRL		BRL	
1,3-Dichloropropane	142-28-9	5	-	BRL		BRL		BRL		BRL		BRL	
2,2-Dichloropropane	594-20-7	5	-	BRL		BRL		BRL		BRL		BRL	
1,1-Dichloropropene	563-58-6	5	-	BRL		BRL		BRL		BRL		BRL	
cis-1,3-Dichloropropene	10061-01-5	0.4**	-	BRL		BRL		BRL		BRL		BRL	
trans-1,3-Dichloropropene	10061-02-6		-	BRL		BRL		BRL		BRL		BRL	
Ethylbenzene	100-41-4	5	-	BRL		BRL		**352**		BRL		BRL	
Hexachlorobutadiene	87-68-3	0.5	-	BRL		BRL		BRL		BRL		BRL	
2-Hexanone (MBK)	591-78-6	NS	50	BRL		BRL		BRL		BRL		BRL	
Isopropylbenzene	98-82-8	5	-	4.64		BRL		**41.2**		1.13		1.56	
4-Isopropyltoluene	99-87-6	5	-	0.72	UJ	BRL		**10.3**		0.82	UJ	0.81	UJ
Methyl tert-butyl ether	1634-04-4	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	NS	BRL		BRL		BRL		BRL		BRL	
Methylene chloride	75-09-2	5	-	BRL		BRL		BRL		BRL		BRL	
Naphthalene	91-20-3	NS	10	BRL	UJ	BRL	UJ	**164**	**J**	BRL	UJ	BRL	UJ
n-Propylbenzene	103-65-1	5	-	**8.93**		BRL		**74.9**		1.43		2.04	
Styrene	100-42-5	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,1,2-Tetrachloroethane	630-20-6	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,2,2-Tetrachloroethane	79-34-5	5	-	BRL		BRL		BRL		BRL		BRL	
Tetrachloroethene	127-18-4	5	-	BRL		BRL		BRL		BRL		BRL	
Toluene	108-88-3	5	-	0.66	UJ	BRL		**49.4**		BRL		BRL	
1,2,3-Trichlorobenzene	87-61-6	5	10*	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
1,2,4-Trichlorobenzene	120-82-1	5	10*	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
1,3,5-Trichlorobenzene	108-70-3	5	10*	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ	BRL	UJ
1,1,1-Trichloroethane	71-55-6	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,2-Trichloroethane	79-00-5	1	-	BRL		BRL		BRL		BRL		BRL	
Trichloroethene	79-01-6	5	-	BRL		BRL		BRL		BRL		BRL	
Trichlorofluoromethane (Freon 11)	75-69-4	5	-	BRL		BRL		BRL		BRL		BRL	
1,2,3-Trichloropropane	96-18-4	0.04	-	BRL		BRL		BRL		BRL		BRL	
1,2,4-Trimethylbenzene	95-63-6	5	-	0.95	UJ	BRL	UJ	**922**	**J**	0.69	UJ	0.68	UJ
1,3,5-Trimethylbenzene	108-67-8	5	-	0.62	UJ	BRL		**195**		BRL		BRL	
Vinyl chloride	75-01-4	2	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
m,p-xylene	17960123-1	5	-	1.08	UJ	BRL	UJ	**629**	**J**	BRL	UJ	BRL	UJ
o-xylene	95-47-6	5	-	BRL		BRL		**84.6**		BRL		BRL	
Tetrahydrofuran	109-99-9	NS	50	BRL		BRL		BRL		BRL		BRL	
Ethyl ether	60-29-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
tert-amyl methyl ether	994-05-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
Ethyl tert-butyl ether	637-92-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Di-isopropyl ether	108-20-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
tert-Butanol / butyl alcohol	75-65-0	NS	NS	BRL		BRL		BRL		BRL		BRL	
1,4-Dioxane	123-91-1	NS	NS	BRL		BRL		BRL		BRL		BRL	
trans-1,4-Dichloro-2-butene	110-57-6	5	-	BRL		BRL		BRL		BRL		BRL	
Ethanol	64-17-5	NS	NS	BRL		BRL		BRL		BRL		BRL	
Tentatively Identified Compounds (TICs)													
1-Phenyl-1-Butene	824-90-8	NS	NS	12	J	-		120	J	12	J	13	J
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NS	NS	18	J	-		130	J	-		-	
Butane, 2,3-dimethyl-	79-29-8	NS	NS	35	J	-		-		9.4	J	9.9	J
Butane, 2-methyl-	78-78-4	NS	NS	31	J	-		180	J	-		-	
Cyclopentane, 1,1-dimethyl-	001638-26-2	NS	NS	14	J	-		-		-		7.3	J
Cyclopentane, methyl-	96-37-7	NS	NS	19	J	-		250	J	-		-	
Cyclopentene, 1,5-dimethyl-	016491-15-9	NS	NS	13	J	-		-		-		-	
Isopropylcyclobutane	872-56-0	NS	NS	23	J	-		-		15	J	-	
Pentane, 2-methyl-	107-83-5	NS	NS	42	J	-		100	J	-		-	
Pentane, 3-methyl-	96-14-0	NS	NS	32	J	-		-		-		-	
Benzene, 1-ethyl-2-methyl-	611-14-3	NS	NS	-		-		220	J	-		-	
Benzene, 1-ethyl-4-methyl-	622-96-8	NS	NS	-		-		210	J	-		-	
Indan, 1-methyl-	000767-58-8	NS	NS	-		-		99	J	-		-	
Indane	496-11-7	NS	NS	-		-		220	J	-		-	
Benzene, 1,3-diethyl-	141-93-5	NS	NS	-		-		-		7.4	J	-	
Cyclohexane, 1,2-dimethyl-		NS	NS	-		-		-		9.9	J	-	
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NS	NS	-		-		-		-		6.6	J
Benzene, 1,3-diethyl-	141-93-5	NS	NS	-		-		-		-		8.2	J
Cyclohexane, 1,1-dimethyl-		NS	NS	-		-		-		-		7.8	J
Cyclohexane, 1,3-dimethyl-,...	000638-04-0	NS	NS	-		-		-		-		11	J
Cyclopentane, 1,2-dimethyl-	1192-18-3	NS	NS	-		-		-		-		16	J
Cyclopentene, 1,2,3-trimethyl-	473-91-6	NS	NS	-		-		-		-		16	J
TOTAL VOCs	-	-	-	261.07		0		4118.3		65.76		104.93	

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene individually. Value of 10 ug/L, applies to the sum of these substances*
** - Sum of cis and trans Dichloropropenes*
Values of "BRL" have a "U" qualifier unless otherwise noted.

TABLE 8
Groundwater Analyses Summary - SVOCs
Method SW-846 8270

2018 Q3 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Semi-Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-8		MW-9		MW-D (MW-9)	
				9/6/2018		9/6/2018		9/7/2018		9/7/2018		9/7/2018	
Acenaphthene	83-32-9	20	20	BRL		BRL		BRL		BRL		BRL	
Acenaphthylene	208-96-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
Aniline	62-53-3	5	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Anthracene	120-12-7	NS	50	BRL		BRL		BRL		BRL		BRL	
Azobenzene/Diphenyldiazene	103-33-3	5	0.5	BRL	UJ	BRL	UJ	BRL		BRL		BRL	
Benzidine	92-87-5	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
Benzo (a) anthracene	56-55-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Benzo (a) pyrene	50-32-8	ND	-	BRL		BRL		BRL		BRL		BRL	
Benzo (b) fluoranthene	205-99-2	NS	0.002	BRL		BRL		BRL		BRL		BRL	
Benzo (g,h,i) perylene	191-24-2	NS	NS	BRL		BRL		BRL		BRL		BRL	
Benzo (k) fluoranthene	207-08-9	NS	0.002	BRL		BRL		BRL		BRL		BRL	
Benzoic acid	65-85-0	NS	NS	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Benzyl alcohol	100-51-6	NS	NS	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Bis(2-chloroethoxy)methane	111-91-1	5	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Bis(2-chloroethyl)ether	111-44-4	1	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Bis(2-chloroisopropyl)ether	108-60-1	5	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Bis(2-ethylhexyl)phthalate	117-81-7	5	-	BRL		BRL		2.67	UJ	4.21	UJ	2.67	UJ
4-Bromophenyl phenyl ether	101-55-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Butyl benzyl phthalate	85-68-7	NS	50	BRL		BRL		BRL		BRL		BRL	
Carbazole	86-74-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Chloro-3-methylphenol	59-50-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Chloroaniline	106-47-8	5	-	BRL		BRL		BRL		BRL		BRL	
2-Chloronaphthalene	91-58-7	NS	10	BRL		BRL		BRL		BRL		BRL	
2-Chlorophenol	95-57-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Chrysene	218-01-9	NS	0.002	BRL		BRL		BRL		BRL		BRL	
Dibenzo (a,h) anthracene	53-70-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Dibenzofuran	132-64-9	NS	NS	BRL		BRL		BRL		BRL		BRL	
1,2-Dichlorobenzene	95-50-1	3	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
1,3-Dichlorobenzene	541-73-1	3	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
1,4-Dichlorobenzene	106-46-7	3	-	BRL		BRL		BRL		BRL		BRL	
3,3'-Dichlorobenzidine	91-94-1	5	-	BRL		BRL		BRL		BRL		BRL	
2,4-Dichlorophenol	120-83-2	1**	-	BRL		BRL		BRL		BRL		BRL	
Diethyl phthalate	84-66-2	NS	50	BRL		BRL		BRL		BRL		BRL	
Dimethyl phthalate	131-11-3	NS	50	BRL	UJ	BRL	UJ	BRL		BRL		BRL	
2,4-Dimethylphenol	105-67-9	1**	-	BRL		BRL		BRL		BRL		BRL	
Di-n-butyl phthalate	84-74-2	50	-	BRL		BRL		BRL		BRL		BRL	
4,6-Dinitro-2-methylphenol	534-52-1	NS	NS	BRL	UJ	BRL	UJ	BRL		BRL		BRL	
2,4-Dinitrophenol	51-28-5	1**	-	BRL		BRL		BRL		BRL		BRL	
2,4-Dinitrotoluene	121-14-2	5	-	BRL		BRL		BRL		BRL		BRL	
2,6-Dinitrotoluene	606-20-2	5	-	BRL		BRL		BRL		BRL		BRL	
Di-n-octyl phthalate	117-84-0	NS	50	5.45		BRL		BRL		BRL		BRL	
Fluoranthene	206-44-0	NS	50	BRL	UJ	BRL	UJ	BRL		BRL		BRL	
Fluorene	86-73-7	NS	50	BRL		BRL		BRL		BRL		BRL	
Hexachlorobenzene	118-74-1	0.04	-	BRL		BRL		BRL		BRL		BRL	
Hexachlorobutadiene	87-68-3	0.5	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Hexachlorocyclopentadiene	77-47-4	5	-	BRL		BRL		BRL		BRL		BRL	
Hexachloroethane	67-72-1	5	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Indeno (1,2,3-cd) pyrene	193-39-5	NS	0.002	BRL		BRL		BRL		BRL		BRL	
Isophorone	78-59-1	NS	50	BRL		BRL		BRL		BRL		BRL	
2-Methylnaphthalene	91-57-6	NS	NS	BRL		BRL		11.2		BRL		BRL	
2-Methylphenol	95-48-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
3 & 4-Methylphenol	108-39-4, 106-44-5	NS	NS	BRL		BRL		BRL		BRL		BRL	
Naphthalene	91-20-3	NS	10	BRL		BRL		**38.1**		BRL		BRL	
2-Nitroaniline	88-74-4	5	-	BRL		BRL		BRL		BRL		BRL	
3-Nitroaniline	99-09-2	5	-	BRL		BRL		BRL		BRL		BRL	
4-Nitroaniline	100-01-6	5	-	BRL		BRL		BRL		BRL		BRL	
Nitrobenzene	98-95-3	0.4	-	BRL		BRL		BRL		BRL		BRL	
2-Nitrophenol	88-75-5	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Nitrophenol	100-02-7	NS	NS	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
N-Nitrosodimethylamine	62-75-9	NS	NS	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
N-Nitrosodi-n-propylamine	621-64-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
N-Nitrosodiphenylamine	86-30-6	NS	50	BRL	UJ	BRL	UJ	BRL		BRL		BRL	
Pentachlorophenol	87-86-5	1**	-	BRL	UJ	BRL	UJ	BRL	UJ-	BRL	UJ-	BRL	UJ-
Phenanthrene	85-01-8	NS	50	BRL		BRL		BRL		BRL		BRL	
Phenol	108-95-2	1**	-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
Pyrene	129-00-0	NS	50	BRL		BRL		BRL		BRL		BRL	
Pyridine	110-86-1	NS	50	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-	BRL	UJ-
1,2,4-Trichlorobenzene	120-82-1	5, 10*	-	BRL		BRL		BRL		BRL		BRL	
1-Methylnaphthalene	90-12-0	NS	NS	BRL		BRL		15		BRL		BRL	
2,4,5-Trichlorophenol	95-95-4	1**	-	BRL		BRL		BRL		BRL		BRL	
2,4,6-Trichlorophenol	88-06-2	1**	-	BRL		BRL		BRL		BRL		BRL	
Pentachloronitrobenzene	82-68-8	ND	-	BRL		BRL		BRL		BRL		BRL	
1,2,4,5-Tetrachlorobenzene	95-94-3	5, 10*	-	BRL		BRL		BRL		BRL		BRL	
Tentatively Identified Compounds (TICs)													
1-Docosene	001599-67-3	NS	NS	5.6	J	-		-		-		-	
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NS	NS	4	J	-		25	J	-		-	
Benzene, 2-ethenyl-1,4-dime...	002039-89-6	NS	NS	4.9	J	-		56	J	-		-	
1H-Indene, 2,3-dihydro-4,7-...	NA	NS	NS	-		-		13	J	-		-	
1H-Indene, 2,3-dihydro-5-me...	NA	NS	NS	-		-		29	J	-		-	
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NS	NS	-		-		22	J	-		-	
Benzene, 1,2,3-trimethyl- (02)	000526-73-8	NS	NS	-		-		270	J	-		-	
Benzene, 1,2,4-trimethyl-	95-63-6	NS	NS	-		-		140	J	-		-	
Benzene, 1,3-dimethyl-	108-38-3	NS	NS	-		-		180	J	-		-	
Benzene, 1-ethyl-2-methyl-	611-14-3	NS	NS	-		-		110	J	-		-	
Benzene, 1-methyl-4-propyl-	001074-55-1	NS	NS	-		-		14	J	-		-	
Benzene, 4-ethyl-1,2-dimethyl- (02)	000934-80-5	NS	NS	-		-		72	J	-		-	
Benzoic acid, 2,4-dichloro-	000050-84-0	NS	NS	-		-		11	J	8.2	J	-	
Cyclic octaatomic sulfur	010544-50-0	NS	NS	-		-		39	J	-		-	
Cyclobutane, (1-methylethyl...	001528-22-9	NS	NS	-		-		13	J	-		-	
Ethylbenzene	100-41-4	NS	NS	-		-		18	J	-		-	
Indane	496-11-7	NS	NS	-		-		90	J	-		-	
o-Xylene	95-47-6	NS	NS	-		-		34	J	-		-	
1-Heptadecanol	001454-85-9	NS	NS	-		-		-		6.3	J	-	
Benzene, 1,3-diethyl-	141-93-5	NS	NS	-		-		-		5.5	J	4.6	J
E-14-Hexadecenal	330207-53-9	NS	NS	-		-		-		-		5.1	J
TOTAL SVOCs	-	-	-	19.95		0		1202.97		24.21		12.37	

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene or tetrachlorobenzene individually. Value of 10 ug/L, applies to the sum of these respective substances*
*** - Value of 1 ug/L applies to the sum of all phenolic compounds*
Values of "BRL" have a "U" qualifier unless otherwise noted.

TABLE 9
Groundwater Analyses Summary - Metals
Method SW846 6010C

2018 Q3 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Metal	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-8		MW-9		MW-D (MW-9)	
				09/06/18		09/06/18		09/07/18		09/07/18		09/07/18	
Aluminum	7429-90-5	2,000	-	866		506		15	UJ	870		742	
Antimony	7440-36-0	3	-	BRL		BRL		BRL		BRL		BRL	
Arsenic	7440-38-2	25	-	2.5	UJ	14.6		3.75	UJ	3	UJ	BRL	
Barium	7440-39-3	1,000	-	616		234		800		604		544	
Beryllium	7440-41-7	3	-	BRL		BRL		BRL		BRL		BRL	
Cadmium	7440-43-9	5	-	BRL		BRL		BRL		0.4	UJ	BRL	
Calcium	7440-70-2	NS	NS	188,000		337,000		256,000		182,000		187,000	
Chromium	7440-47-3	50	-	2.1	UJ	1.4	UJ	BRL		2.2	UJ	2	UJ
Cobalt	7440-48-4	NS	NS	1.5	UJ	1	UJ	BRL		0.8	UJ	0.8	UJ
Copper	7440-50-8	200	-	6.8		BRL		BRL		2.9	UJ	2.8	UJ
Iron	7439-89-6	300	-	**2,110**		**3,570**		**5,040**		**5,500**		**5,520**	
Lead	7439-92-1	25	-	BRL		BRL		12.2		BRL		BRL	
Magnesium	7439-95-4	-	35,000	21,500		**71,900**		33,400		25,400		26,400	
Manganese	7439-96-5	300	-	180		77.3		**591**		**337**		**302**	
Mercury*	7439-97-5	0.7	-	BRL		BRL		BRL		BRL		BRL	
Nickel	7440-02-0	100	-	2.7	UJ	2	UJ	BRL		1.8	UJ	1.4	UJ
Potassium	7440-09-7	NS	NS	12,100		5,550		9,140		10,900		9,780	
Selenium	7782-49-2	10	-	BRL		BRL		BRL		BRL		BRL	
Silver	7440-22-4	50	-	BRL		BRL		BRL		BRL		BRL	
Sodium	7440-23-5	20,000	-	**2,180,000**		**1,350,000**		**371,000**		**557,000**		**581,000**	
Thallium	7440-28-0	-	0.5	BRL		BRL		BRL		BRL		BRL	
Vanadium	7440-62-2	NS	NS	3.7	UJ	BRL		BRL		2.8	UJ	2.2	UJ
Zinc	7440-66-6	-	2,000	13.6	UJ	10.6	UJ	3.2	UJ	7.1	UJ	7.7	UJ

Notes:
All concentrations in micrograms per liter (ug/L), or approximate parts per billion (ppb)
**Mercury analyzed by Method EPA 245.1/7470A*
Values of "BRL" have a "U" qualifier unless otherwise noted.

TABLE 10
Groundwater Analyses Summary - VOCs
Method SW-846 8260

2018 Q4 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE									
Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5		MW-7		MW-8		MW-9		MW-D (MW-9)	
				12/05/18		12/05/18		12/05/18		12/05/18		12/05/18	
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	-	BRL		BRL		BRL		BRL		BRL	
Acetone	67-64-1	NS	50	BRL		BRL		BRL		2	UJ	2	UJ
Acrylonitrile	107-13-1	5	-	BRL		BRL		BRL		BRL		BRL	
Benzene	71-43-2	1	-	BRL		BRL		BRL		0.3	UJ	0.3	UJ
Bromobenzene	108-86-1	5	-	BRL		BRL		BRL		BRL		BRL	
Bromochloromethane	74-97-5	5	-	BRL		BRL		BRL		BRL		BRL	
Bromodichloromethane	75-27-4	NS	50	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
Bromoform	75-25-2	NS	50	BRL		BRL		BRL		BRL		BRL	
Bromomethane	74-83-9	5	-	BRL		BRL		BRL		BRL		BRL	
2-Butanone (MEK)	78-93-3	NS	50	BRL		BRL		11	UJ	BRL		BRL	
n-Butylbenzene	104-51-8	5	-	BRL		BRL		**8**	**UJ**	0.3	UJ	0.4	UJ
sec-Butylbenzene	135-98-8	5	-	BRL		BRL		4	UJ	1	UJ	1	UJ
tert-Butylbenzene	98-06-6	5	-	BRL		BRL		0.7	UJ	0.4	UJ	0.4	UJ
Carbon disulfide	75-15-0	NS	NS	BRL		BRL		BRL		BRL		BRL	
Carbon tetrachloride	56-23-5	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
Chlorobenzene	108-90-7	5	-	BRL		BRL		BRL		BRL		BRL	
Chloroethane	75-00-3	5	-	BRL		BRL		BRL		BRL		BRL	
Chloroform	67-66-3	7	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
Chloromethane (methyl chloride)	74-87-3	5	-	BRL		BRL		BRL		BRL		BRL	
2-Chlorotoluene	95-49-8	5	-	BRL		BRL		0.4	UJ	BRL		BRL	
4-Chlorotoluene	106-43-4	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	-	BRL		BRL		BRL		BRL		BRL	
Dibromochloromethane	124-48-1	NS	50	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
1,2-Dibromoethane (EDB)	106-93-4	0.0006	-	BRL		BRL		BRL		BRL		BRL	
Dibromomethane	74-95-3	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichlorobenzene	95-50-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,3-Dichlorobenzene	541-73-1	3	-	BRL		BRL		BRL		BRL		BRL	
1,4-Dichlorobenzene	106-46-7	3	-	BRL		BRL		BRL		BRL		BRL	
Dichlorodifluoromethane (Freon12)	75-71-8	5	-	BRL		BRL		BRL		BRL		BRL	
1,1-Dichloroethane	75-34-3	5	-	BRL		BRL		BRL		BRL		BRL	
1,2-Dichloroethane	107-06-2	0.6	-	BRL		BRL		BRL		BRL		BRL	
1,1-Dichloroethene	75-35-4	5	-	BRL		BRL		BRL		BRL		BRL	
cis-1,2-Dichloroethene	156-59-2	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
trans-1,2-Dichloroethene	156-60-5	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
1,2-Dichloropropane	78-87-5	1	-	BRL		BRL		BRL		BRL		BRL	
1,3-Dichloropropane	142-28-9	5	-	BRL		BRL		BRL		BRL		BRL	
2,2-Dichloropropane	594-20-7	5	-	BRL		BRL		BRL		BRL		BRL	
1,1-Dichloropropene	563-58-6	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
cis-1,3-Dichloropropene	10061-01-5	0.4**	-	BRL		BRL		BRL		BRL		BRL	
trans-1,3-Dichloropropene	10061-02-6		-	BRL		BRL		BRL		BRL		BRL	
Ethylbenzene	100-41-4	5	-	BRL		BRL		**160**		BRL		BRL	
Hexachlorobutadiene	87-68-3	0.5	-	BRL		BRL		BRL		BRL		BRL	
2-Hexanone (MBK)	591-78-6	NS	50	BRL		BRL		BRL		BRL		BRL	
Isopropylbenzene	98-82-8	5	-	BRL	UJ+	BRL	UJ+	**18**	**J+**	1	J+	2	J+
4-Isopropyltoluene	99-87-6	5	-	BRL		BRL		3	UJ	0.4	UJ	0.5	UJ
Methyl tert-butyl ether	1634-04-4	NS	NS	BRL		BRL		BRL		BRL		BRL	
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	NS	BRL		BRL		BRL		BRL		BRL	
Methylene chloride	75-09-2	5	-	BRL		BRL		BRL		BRL		BRL	
Naphthalene	91-20-3	NS	10	BRL		BRL		**48**		BRL		BRL	
n-Propylbenzene	103-65-1	5	-	BRL		BRL		**48**		2	UJ	2	UJ
Styrene	100-42-5	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,1,2-Tetrachloroethane	630-20-6	5	-	BRL		BRL		BRL		BRL		BRL	
1,1,2,2-Tetrachloroethane	79-34-5	5	-	BRL		BRL		BRL		BRL		BRL	
Tetrachloroethene	127-18-4	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
Toluene	108-88-3	5	-	BRL		BRL		**15**		BRL		BRL	
1,2,3-Trichlorobenzene	87-61-6	5	10*	BRL		BRL		BRL		BRL		BRL	
1,2,4-Trichlorobenzene	120-82-1	5	10*	BRL		BRL		BRL		BRL		BRL	
1,3,5-Trichlorobenzene	108-70-3	5	10*	BRL		BRL		BRL		BRL		BRL	
1,1,1-Trichloroethane	71-55-6	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
1,1,2-Trichloroethane	79-00-5	1	-	BRL	UJ+	BRL		BRL		BRL		BRL	
Trichloroethene	79-01-6	5	-	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+	BRL	UJ+
Trichlorofluoromethane (Freon 11)	75-69-4	5	-	BRL		BRL		BRL		BRL		BRL	
1,2,3-Trichloropropane	96-18-4	0.04	-	BRL		BRL		BRL		BRL		BRL	
1,2,4-Trimethylbenzene	95-63-6	5	-	BRL		BRL		**340**		BRL		BRL	
1,3,5-Trimethylbenzene	108-67-8	5	-	BRL		BRL		**110**		BRL		BRL	
Vinyl chloride	75-01-4	2	-	BRL		BRL		BRL		BRL		BRL	
m,p-xylene	17960123-1	5	-	BRL		BRL		**620**		BRL		BRL	
o-xylene	95-47-6	5	-	BRL		BRL		**110**		BRL		BRL	
Tetrahydrofuran	109-99-9	NS	50	BRL		BRL		BRL		BRL		BRL	
Ethyl ether	60-29-7	NS	NS	BRL		BRL		BRL		BRL		BRL	
tert-amyl methyl ether	994-05-8	NS	NS	BRL		BRL		BRL		BRL		BRL	
Ethyl tert-butyl ether	637-92-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
Di-isopropyl ether	108-20-3	NS	NS	BRL		BRL		BRL		BRL		BRL	
tert-Butanol / butyl alcohol	75-65-0	NS	NS	BRL		BRL		BRL		BRL		BRL	
1,4-Dioxane	123-91-1	NS	NS	BRL		BRL		BRL		BRL		BRL	
trans-1,4-Dichloro-2-butene	110-57-6	5	-	BRL		BRL		BRL		BRL		BRL	
Ethanol	64-17-5	NS	NS	BRL		BRL		BRL		BRL		BRL	
Tentatively Identified Compounds (TICs)													
Benzene, 1,2,3-trimethyl-	526-73-8	NS	NS	-		-		93	J	-		-	
Benzene, 1-ethyl-2-methyl-	611-14-3	NS	NS	-		-		200	J	-		-	
Benzene, 1-ethyl-3-methyl-	620-14-4	NS	NS	-		-		98	J	-		-	
Benzene, 2-ethenyl-1,4-dimet	2039-89-6	NS	NS	-		-		71	J	-		-	
Benzene, 2-ethyl-1,4-dimethy	1758-88-9	NS	NS	-		-		72	J	-		-	
Butane, 2-methyl-	78-78-4	NS	NS	-		-		110	J	-		-	
Cyclohexane	110-82-7	NS	NS	-		-		130	J	-		-	
Cyclohexane, methyl-	108-87-2	NS	NS	-		-		170	J	-		-	
Cyclopentane, methyl-	96-37-7	NS	NS	-		-		170	J	-		-	
Pentane	109-66-0	NS	NS	-		-		87	J	-		-	
Pentane, 2-methyl-	107-83-5	NS	NS	-		-		220	J	-		-	
Pentane, 3-methyl-	96-14-0	NS	NS	-		-		94	J	-		-	
Benzene, (2-methyl-1-butenyl	56253-64-6	NS	NS	-		-		-		5	J	-	
Benzene, 1,2,4,5-tetramethyl	95-93-2	NS	NS	-		-		-		6	J	7	J
Benzene, 1,3-diethyl-	141-93-5	NS	NS	-		-		-		8	J	8	J
Bicyclo[3.2.1]octane	6221-55-2	NS	NS	-		-		-		6	J	6	J
Cyclohexane, 1,2-dimethyl-,	6876-23-9	NS	NS	-		-		-		9	J	10	J
Indan, 1-methyl-	767-58-8	NS	NS	-		-		-		9	J	9	J
Isopropylcyclobutane	872-56-0	NS	NS	-		-		-		7	J	-	
Pentalene, octahydro-	694-72-4	NS	NS	-		-		-		6	J	-	
Pentane, 2,3,3-trimethyl-	560-21-4	NS	NS	-		-		-		7	J	9	J
Pentane, 2,3-dimethyl-	565-59-3	NS	NS	-		-		-		7	J	6	J
1H-Indene, 2,3-dihydro-1,2-d	17057-82-8	NS	NS	-		-		-		-		6	J
Cyclopentane, 1,2-dimethyl-,	822-50-4	NS	NS	-		-		-		-		7	J
Pentalene, octahydro-, cis-	1755-05-1	NS	NS	-		-		-		-		6	J
Unknown	-	NS	NS	-		-		80	J	-		-	
Unknown aromatic	-	NS	NS	-		-		110	J	-		-	
Unknown1	-	NS	NS	-		-		-		11	J	11	J
Unknown2	-	NS	NS	-		-		-		8	J	8	J
Unknown3	-	NS	NS	-		-		-		9	J	10	J
Unknown4	-	NS	NS	-		-		-		14	J	15	J
Unknown5	-	NS	NS	-		-		-		-		5	J
TOTAL VOCs	-	-	-	0		0		3201.1		119.4		131.60	

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene individually. Value of 10 ug/L, applies to the sum of these substances*
*** - Sum of cis and trans Dichloropropenes*
Values of "BRL" have a "U" qualifier unless otherwise noted.

TABLE 11
Groundwater Analyses Summary - SVOCs
Method SW-846 8270

2018 Q4 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE				
Semi-Volatile Organic Compounds	CAS No.	Standard	Guidance Value	MW-5	MW-7	MW-8	MW-9	MW-D (MW-9)
				12/5/2018	12/5/2028	12/5/2018	12/5/2018	12/5/2018
1,1'-Biphenyl	92-52-4	5	-	BRL	BRL	BRL	BRL	BRL
1,2,4,5-Tetrachlorobenzene	95-94-3	5, 10*	-	BRL	BRL	BRL	BRL	BRL
1,2,4-Trichlorobenzene	120-82-1	5, 10*	-	BRL	BRL	BRL	BRL	BRL
1,2-Dichlorobenzene	95-50-1	3	-	BRL	BRL	BRL	BRL	BRL
1,2-Diphenylhydrazine	122-66-7	ND	-	BRL	BRL	BRL	BRL	BRL
1,3-Dichlorobenzene	541-73-1	3	-	BRL	BRL	BRL	BRL	BRL
1,4-Dichlorobenzene	106-46-7	3	-	BRL	BRL	BRL	BRL	BRL
1-Methylnaphthalene	90-12-0	NS	NS	BRL	BRL	8	BRL	BRL
2,3,4,6-Tetrachlorophenol	58-90-2	1**	-	BRL	BRL	BRL	BRL	BRL
2,4,5-Trichlorophenol	95-95-4	1**	-	BRL	BRL	BRL	BRL	BRL
2,4,6-Trichlorophenol	88-06-2	1**	-	BRL	BRL	BRL	BRL	BRL
2,4-Dichlorophenol	120-83-2	1**	-	BRL	BRL	BRL	BRL	BRL
2,4-Dimethylphenol	105-67-9	1**	-	BRL	BRL	BRL	BRL	BRL
2,4-Dinitrophenol	51-28-5	1**	-	BRL	BRL	BRL	BRL	BRL
2,4-Dinitrotoluene	121-14-2	5	-	BRL	BRL	BRL	BRL	BRL
2,6-Dinitrotoluene	606-20-2	5	-	BRL	BRL	BRL	BRL	BRL
2-Chloronaphthalene	91-58-7	NS	10	BRL	BRL	BRL	BRL	BRL
2-Chlorophenol	95-57-8	NS	NS	BRL	BRL	BRL	BRL	BRL
2-Methylnaphthalene	91-57-6	NS	NS	BRL	BRL	16	BRL	BRL
2-Methylphenol	95-48-7	NS	NS	BRL	BRL	BRL	BRL	BRL
2-Nitroaniline	88-74-4	5	-	BRL	BRL	BRL	BRL	BRL
2-Nitrophenol	88-75-5	NS	NS	BRL	BRL	BRL	BRL	BRL
3,3´-Dichlorobenzidine	91-94-1	5	-	BRL	BRL	BRL	BRL	BRL
3-Nitroaniline	99-09-2	5	-	BRL	BRL	BRL	BRL	BRL
4,6-Dinitro-2-methylphenol	534-52-1	NS	NS	BRL	BRL	BRL	BRL	BRL
4-Bromophenyl phenyl ether	101-55-3	NS	NS	BRL	BRL	BRL	BRL	BRL
4-Chloro-3-methylphenol	59-50-7	NS	NS	BRL	BRL	BRL	BRL	BRL
4-Chloroaniline	106-47-8	5	-	BRL	BRL	BRL	BRL	BRL
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	BRL	BRL	BRL	BRL	BRL
4-Methylphenol	106-44-5	1**	-	BRL	BRL	BRL	BRL	BRL
4-Nitroaniline	100-01-6	5	-	BRL	BRL	BRL	BRL	BRL
4-Nitrophenol	100-02-7	NS	NS	BRL	BRL	BRL	BRL	BRL
Acenaphthene	83-32-9	20	20	BRL	BRL	0.2 UJ	BRL	BRL
Acenaphthylene	208-96-8	NS	NS	BRL	BRL	BRL	BRL	BRL
Acetophenone	98-86-2	NS	NS	BRL	BRL	BRL	BRL	BRL
Aniline	62-53-3	5	-	BRL	BRL	BRL	BRL	BRL
Anthracene	120-12-7	NS	50	BRL	BRL	BRL	BRL	BRL
Atrazine	1912-24-9	7.5	-	BRL	BRL	BRL	BRL	BRL
Benzaldehyde	100-52-7	NS	NS	BRL	BRL	BRL	BRL	BRL
Benzidine	92-87-5	5	-	BRL	BRL	BRL	BRL	BRL
Benzo (a) anthracene	56-55-3	NS	NS	BRL	BRL	BRL	BRL	BRL
Benzo (a) pyrene	50-32-8	ND	-	BRL	BRL	BRL	BRL	BRL
Benzo (b) fluoranthene	205-99-2	NS	0.002	BRL	BRL	BRL	BRL	BRL
Benzo (g,h,i) perylene	191-24-2	NS	NS	BRL	BRL	BRL	BRL	BRL
Benzo (k) fluoranthene	207-08-9	NS	0.002	BRL	BRL	BRL	BRL	BRL
Benzoic acid	65-85-0	NS	NS	BRL	BRL UJ+	BRL	BRL	BRL
Benzyl alcohol	100-51-6	NS	NS	BRL	BRL	BRL	BRL	BRL
Bis(2-chloroethoxy)methane	111-91-1	5	-	BRL	BRL	BRL	BRL	BRL
Bis(2-chloroethyl)ether	111-44-4	1	-	BRL	BRL	BRL	BRL	BRL
Bis(2-chloroisopropyl)ether	108-60-1	5	-	BRL UJ	BRL UJ	BRL UJ	BRL UJ	BRL UJ
Bis(2-ethylhexyl)phthalate	117-81-7	5	-	BRL	BRL	BRL	BRL	BRL
Butyl benzyl phthalate	85-68-7	NS	50	BRL	BRL	BRL	BRL	BRL
Caprolactam	105-60-2			BRL	BRL	BRL	BRL	BRL
Carbazole	86-74-8	NS	NS	BRL	BRL	BRL	BRL	BRL
Chrysene	218-01-9	NS	0.002	BRL	BRL	BRL	BRL	BRL
Di-n-butyl phthalate	84-74-2	50	-	BRL	BRL	BRL	BRL	BRL
Di-n-octyl phthalate	117-84-0	NS	50	BRL	BRL	BRL	BRL	BRL
Dibenzo (a,h) anthracene	53-70-3	NS	NS	BRL	BRL	BRL	BRL	BRL
Dibenzofuran	132-64-9	NS	NS	BRL	BRL	BRL	BRL	BRL
Diethyl phthalate	84-66-2	NS	50	BRL	BRL	BRL	BRL	BRL
Dimethyl phthalate	131-11-3	NS	50	BRL	BRL	BRL	BRL	BRL
Fluoranthene	206-44-0	NS	50	BRL	BRL	BRL	BRL	BRL
Fluorene	86-73-7	NS	50	BRL	BRL	0.3 UJ	BRL	BRL
Hexachlorobenzene	118-74-1	0.04	-	BRL	BRL	BRL	BRL	BRL
Hexachlorobutadiene	87-68-3	0.5	-	BRL	BRL	BRL	BRL	BRL
Hexachlorocyclopentadiene	77-47-4	5	-	BRL	BRL	BRL	BRL	BRL
Hexachloroethane	67-72-1	5	-	BRL	BRL	BRL	BRL	BRL
Indeno (1,2,3-cd) pyrene	193-39-5	NS	0.002	BRL	BRL	BRL	BRL	BRL
Isophorone	78-59-1	NS	50	BRL	BRL	BRL	BRL	BRL
N-Nitrosodi-n-propylamine	621-64-7	NS	NS	BRL	BRL	BRL	BRL	BRL
N-Nitrosodimethylamine	62-75-9	NS	NS	BRL	BRL	BRL	BRL	BRL
N-Nitrosodiphenylamine	86-30-6	NS	50	BRL	BRL	BRL	BRL	BRL
Naphthalene	91-20-3	NS	10	BRL	BRL	**33**	BRL	BRL
Nitrobenzene	98-95-3	0.4	-	BRL	BRL	BRL	BRL	BRL
Pentachloronitrobenzene	82-68-8	ND	-	BRL	BRL	BRL	BRL	BRL
Pentachlorophenol	87-86-5	1**	-	BRL	BRL	BRL	BRL	BRL
Phenanthrene	85-01-8	NS	50	BRL	BRL	BRL	BRL	BRL
Phenol	108-95-2	1**	-	BRL	BRL	BRL	BRL	BRL
Pyrene	129-00-0	NS	50	BRL	BRL	BRL	BRL	BRL
Pyridine	110-86-1	NS	50	BRL	BRL	BRL	BRL	BRL
Tentatively Identified Compounds (TICs)								
Benzene, 1,3-dimethyl-	108-38-3	NS	NS	-	-	460 J	-	-
Unknown	---	NS	NS	8 J	9 J	-	10 J	10 J
TOTAL SVOCs	-	-	-	8	9	517.5	10	10

Notes:

All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)

** - Value of 5 ug/L applies to each trichlorobenzene or tetrachlorobenzene individually. Value of 10 ug/L, applies to the sum of these respective substances*

*** - Value of 1 ug/L applies to the sum of all phenolic compounds*

Values of "BRL" have a "U" qualifier unless otherwise noted.

TABLE 12
Groundwater Analyses Summary - Metals
Method SW846 6010C

2018 Q4 Groundwater Monitoring
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		APPLICABLE STANDARD		SAMPLE LOCATION / DATE				
Metal	CAS No.	Standard	Guidance Value	MW-5	MW-7	MW-8	MW-9	MW-D (MW-9)
				12/05/18	12/05/18	12/05/18	12/05/18	12/05/18
Aluminum	7429-90-5	2,000	-	BRL	BRL	BRL	BRL	BRL
Antimony	7440-36-0	3	-	BRL	BRL	BRL	BRL	BRL
Arsenic	7440-38-2	25	-	BRL	BRL	BRL	BRL	BRL
Barium	7440-39-3	1,000	-	103	536	479	370	372
Beryllium	7440-41-7	3	-	BRL	BRL	BRL	BRL	BRL
Cadmium	7440-43-9	5	-	BRL	BRL	BRL	BRL	BRL
Calcium	7440-70-2	NS	NS	91,900 J	249,000 J	259,000 J	225,000 J	222,000 J
Chromium	7440-47-3	50	-	BRL	BRL	BRL	BRL	BRL
Cobalt	7440-48-4	NS	NS	BRL	BRL	BRL	BRL	BRL
Copper	7440-50-8	200	-	6.4	BRL	BRL	BRL	BRL
Iron	7439-89-6	300	-	103	249	**11,000**	**1,120**	**1,070**
Lead	7439-92-1	25	-	BRL	BRL	BRL	BRL	BRL
Magnesium	7439-95-4	-	35,000	11,800 J	**36,800 J**	33,800 J	29,100 J	28,600 J
Manganese	7439-96-5	300	-	1.7	25.7	**1430**	282	276
Mercury*	7439-97-5	0.7	-	BRL	BRL	BRL	BRL	BRL
Nickel	7440-02-0	100	-	BRL	BRL	BRL	BRL	BRL
Potassium	7440-09-7	NS	NS	4,600	12,000	10,900	15,300	15,000
Selenium	7782-49-2	10	-	BRL	BRL	BRL	BRL	BRL
Silver	7440-22-4	50	-	BRL	BRL	BRL	BRL	BRL
Sodium	7440-23-5	20,000	-	**428,000 J**	**401,000 J**	**64,100 J**	**350,000 J**	**345,000 J**
Thallium	7440-28-0	-	0.5	BRL	BRL	BRL	BRL	BRL
Vanadium	7440-62-2	NS	NS	3.2	BRL	BRL	BRL	BRL
Zinc	7440-66-6	-	2,000	8.7	BRL	BRL	4.6	3.1

Notes:
All concentrations in micrograms per liter (ug/L), or approximate parts per billion (ppb)
**Mercury analyzed by Method EPA 245.1/7470A*
Values of "BRL" have a "U" qualifier unless otherwise noted.

TABLE 13
Summary of Historical Exceedances

2018 Periodic Review Report
700 Out Parcel
Syracuse, NY
AECC Project No. 18-051

ANALYTES		GWS	SAMPLE LOCATION / DATE									
Compound	CAS No.		MW-5					MW-7				
VOCs			1/19/2012*	3/19/2018^	06/13/18	09/06/18	12/05/18	1/19/2012*	03/19/18	06/13/18	09/06/18	12/05/18
Benzene	71-43-2	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
n-Butylbenzene	104-51-8	5	0.75	BRL	BRL	2.27	BRL	BRL	BRL	BRL	BRL	BRL
sec-Butylbenzene	135-98-8	5	0.33 J	BRL	BRL	1.87	BRL	BRL	BRL	BRL	BRL	BRL
tert-Butylbenzene	98-06-6	5	BRL	BRL	BRL	0.33 UJ	BRL	BRL	BRL	BRL	BRL	BRL
Ethylbenzene	100-41-4	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Isopropylbenzene	98-82-8	5	BRL	BRL	0.72 J	4.64	BRL UJ+	BRL	BRL	BRL	BRL	BRL UJ+
Naphthalene	91-20-3	10	0.34 J	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
n-Propylbenzene	103-65-1	5	0.36 J	BRL	0.67 J	**8.93**	BRL	BRL	BRL	BRL	BRL	BRL
Toluene	108-88-3	5	BRL	BRL	BRL	0.66 UJ	BRL	BRL	BRL	BRL	BRL	BRL
p-Isopropyltoluene	99-87-6	5	0.34 J	BRL	BRL	0.72 UJ	BRL	BRL	BRL	BRL	BRL	BRL
1,2,4-Trimethylbenzene	95-63-6	5	0.95	BRL	BRL	0.95 UJ	BRL	BRL	BRL	BRL	BRL	BRL
1,3,5-Trimethylbenzene	108-67-8	5	0.39 J	BRL	BRL	0.62 UJ	BRL	BRL	BRL	BRL	BRL	BRL
Total Xylenes	95-47-6	15	BRL	BRL	BRL	1.08 UJ	BRL	BRL	BRL	BRL	BRL	BRL
TOTAL VOCs + TICs*	-	NS	80.2	0	1.4	261.07	0	4.6	0	0	0	0
SVOCs			1/19/2012*	03/19/18	06/13/18	09/06/18	09/06/18	1/19/2012*	4/2/2018^	06/13/18	09/06/18	09/06/18
2,4-Dinitrophenol	51-28-5	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bis(2-ethylhexyl)phthalate	117-81-7	5	BRL	BRL	BRL	BRL	BRL	BRL	1.03 J	BRL	BRL	BRL
Di-n-octyl phthalate	117-84-0	50	BRL	35.3	BRL	5.45	BRL	BRL	**54**	BRL	BRL	BRL
Hexachloroethane	67-72-1	5	BRL	BRL	BRL	BRL J-	BRL	BRL	BRL	BRL	BRL J-	BRL
Naphthalene	91-20-3	10	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Nitrobenzene	98-95-3	0.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
TOTAL SVOCs + TICs*	-	NS	52.9	41.2	27	19.95	8	4.2	44.4	0	0	9
Metals			1/19/2012*	3/19/2018^	06/13/18	09/06/18	09/06/18	1/19/2012*	03/19/18	06/13/18	09/06/18	09/06/18
Aluminum	7429-90-5	2000	1,500 J	68	**3,310**	866	BRL	BRL	33	287	506	BRL
Antimony	7440-36-0	3	BRL	**7**	2 UJ	BRL	BRL	BRL	2 J	BRL	BRL	BRL
Barium	7440-39-3	1000	190	230	342	616	103	410	680	303	234	536
Iron	7439-89-6	300	**1,900**	71	**3,130**	**2,110**	103	72	102	**3,710**	**3,570**	249
Magnesium	7439-95-4	35000	18,000	17,700	25,200 J	21,500	11,800 J	**82,000**	30,000	**55,200** J	**71,900**	**36,800** J
Manganese	7439-96-5	300	110	BRL	108 J	180	1.7	110	15	41.8 J	77.3	**1430**
Sodium	7440-23-5	20,000	**620,000**	**1,400,000** J	**1,660,000** J	**2,180,000**	**428,000** J	**1,000,000**	**409,000** J	**1,310,000** J	**1,350,000**	**401,000** J

ANALYTES		GWS	SAMPLE LOCATION / DATE									
Compound	CAS No.		MW-8					MW-9				
VOCs			1/19/2012*	03/19/18	6/13/2018^	09/07/18	09/07/18	1/19/2012*	03/19/18	06/13/18	9/7/2018^	12/5/2018^
Benzene	71-43-2	1	**49.4**	**5.7** J	**44.1**	**34.2**	BRL	**3.62**	0.33 J	0.79 J	BRL	0.3 UJ
n-Butylbenzene	104-51-8	5	**11.6**	**13.1**	**39.7**	**24.6**	**8** UJ	**10.6**	0.47 J	0.62 J	1.82	0.4 UJ
sec-Butylbenzene	135-98-8	5	**8**	**7.4** J	**17**	**8.1** UJ	4 UJ	**7.38**	1.53	1.11	1.12 UJ	1 UJ
tert-Butylbenzene	98-06-6	5	BRL	BRL	**6.5** UJ	BRL	0.7 UJ	1.56	0.51 J	BRL	0.61 UJ	0.4 UJ
Ethylbenzene	100-41-4	5	**404**	**157**	**342**	**352**	**160**	**21.7**	BRL	BRL	BRL	BRL
Isopropylbenzene	98-82-8	5	**54**	**21.9**	**40.1**	**41.2**	**18** J+	**25.6**	3.16	2.14	1.56	2 J+
Naphthalene	91-20-3	10	**111**	**73.2**	**204**	**164 J**	**48**	**29.5**	0.67 J	BRL	BRL	BRL
n-Propylbenzene	103-65-1	5	**99.4**	**67.8**	**116**	**74.9**	**48**	**49.7**	4.8	1.92	2.04	2 UJ
Toluene	108-88-3	5	**109**	**15.6**	**42.9**	**49.4**	**15**	BRL	BRL	BRL	BRL	BRL
p-Isopropyltoluene	99-87-6	5	**5.6**	4.5 J	**16.5**	**10.3**	**3** UJ	**7.54**	0.59	BRL	0.82 UJ	0.5 UJ
1,2,4-Trimethylbenzene	95-63-6	5	**628**	**486**	**1,120**	**922** J	**340**	3.18	0.79 J	0.85 J	0.69 UJ	BRL
1,3,5-Trimethylbenzene	108-67-8	5	**176**	**150**	**313**	**195**	**110**	3.12	BRL	0.55 J	BRL	BRL
Total Xylenes	95-47-6	15	**689**	**763**	**865**	**714**	**730**	**25.1**	0.62 J	0.6 J	BRL	BRL
TOTAL VOCs + TICs*	-	NS	4,861.60	3,559.20	4,975.80	4,118.30	3,201.10	987.5	101.1	51.11	104.93	131.6
SVOCs			1/19/2012*	03/19/18	6/13/2018^	09/07/18	09/07/18	1/19/2012*	04/02/18	06/13/18	9/7/2018^	12/5/2018^
2,4-Dinitrophenol	51-28-5	1	BRL	**1.15** J	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bis(2-ethylhexyl)phthalate	117-81-7	5	BRL	1.32 J	**5.05** UJ	2.67 UJ	BRL	BRL	1.23 J	1.74 UJ	4.21 UJ	BRL
Di-n-octyl phthalate	117-84-0	50	BRL	3.62 J	0.916	BRL	BRL	BRL	2.36 J	BRL	BRL	BRL
Hexachloroethane	67-72-1	5	BRL	**14.8**	BRL	BRL J-	BRL	BRL	BRL	BRL	BRL J-	BRL
Naphthalene	91-20-3	10	**77**	**22.4**	**82.7**	**38.1**	**33**	**23**	BRL	BRL	BRL	BRL
Nitrobenzene	98-95-3	0.4	BRL	**8.9**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
TOTAL SVOCs + TICs*	-	NS	1087.5	499.9	3214.1	1202.97	517.5	513	16.8	29.24	24.21	10
Metals			1/19/2012*	03/19/18	6/13/2018^	09/07/18	09/07/18	1/19/2012*	03/19/18	06/13/18	9/7/2018^	12/5/2018^
Aluminum	7429-90-5	2000	170 J	BRL	BRL	15 UJ	BRL	1,800 J	**2,930**	**2,190**	870	BRL
Antimony	7440-36-0	3	BRL	**4.4** J	BRL	BRL	BRL	BRL	**3.4** J	BRL	BRL	BRL
Barium	7440-39-3	1000	**1,500**	518	**1,870**	800	479	860	537	468	604	372
Iron	7439-89-6	300	**450**	**6,360**	**1,660**	**5,040**	**11,000**	**3,600**	**5,520**	**8,720**	**5,520**	**1,120**
Magnesium	7439-95-4	35000	30,000	**36,400**	**43,400** J	33,400	33,800 J	24,000	**36,100**	**38,600** J	26,400	28,600 J
Manganese	7439-96-5	300	**380**	**1,340**	**456 J**	**591**	**1,430**	250	**730**	**570** J	**337**	276
Sodium	7440-23-5	20,000	**420,000** J	**60,400 J**	**141,000 J**	**371,000**	**64,100 J**	**690,000** J	**449,000** J	**465,000** J	**581,000**	**345,000**

Notes:
All concentrations in micrograms per liter (ug/L) or approximate parts per billion (ppb)
** - Provided for relative comparison purposes only*
^ - This sample had an associated field duplicate. The value shown is the highest of the two results.
Values of "BRL" have a "U" qualifier unless otherwise noted.

ATTACHMENT E

LABORATORY ANALYSIS REPORTS

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
06-Apr-18 14:10

Laboratory Report
SC44935

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 700 Out Parcel - Syracuse, NY
Project #: 18-051

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

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

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

Sample Summary

Work Order: SC44935

Project: 700 Out Parcel - Syracuse, NY

Project Number: 18-051

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC44935-01	MW-5 (2018-03-19)	Ground Water	19-Mar-18 11:00	20-Mar-18 11:35
SC44935-02	MW-7 (2018-03-19)	Ground Water	19-Mar-18 12:00	20-Mar-18 11:35
SC44935-03	MW-8 (2018-03-19)	Ground Water	19-Mar-18 13:54	20-Mar-18 11:35
SC44935-04	MW-9 (2018-03-19)	Ground Water	19-Mar-18 13:10	20-Mar-18 11:35
SC44935-05	MW-D (2018-03-19)	Ground Water	19-Mar-18 00:00	20-Mar-18 11:35
SC44935-06	Trip Blank	Aqueous	19-Mar-18 00:00	20-Mar-18 11:35

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

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

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

SW846 6010C

Spikes:

1803912-MS1 *Source: SC44935-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Calcium

1803912-MS2 *Source: SC44935-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Sodium

1803912-MSD1 *Source: SC44935-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Calcium

1803912-MSD2 *Source: SC44935-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Sodium

1803912-PS1 *Source: SC44935-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Calcium

1803912-PS2 *Source: SC44935-02*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Magnesium
Sodium

Duplicates:

1803912-DUP1 *Source: SC44935-01*

SW846 6010C

Duplicates:

1803912-DUP1 *Source: SC44935-01*

MRL raised to correlate to batch QC reporting limits.

Calcium

1803912-DUP2 *Source: SC44935-01*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Aluminum
Beryllium

MRL raised to correlate to batch QC reporting limits.

Magnesium
Sodium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

1803912-DUP3 *Source: SC44935-01*

MRL raised to correlate to batch QC reporting limits.

Manganese

Samples:

SC44935-01 *MW-5 (2018-03-19)*

MRL raised to correlate to batch QC reporting limits.

Calcium
Magnesium
Manganese
Sodium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

SC44935-02 *MW-7 (2018-03-19)*

MRL raised to correlate to batch QC reporting limits.

Calcium
Magnesium
Manganese
Sodium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

SC44935-03 *MW-8 (2018-03-19)*

MRL raised to correlate to batch QC reporting limits.

Calcium
Magnesium
Manganese
Sodium

SC44935-04 *MW-9 (2018-03-19)*

SW846 6010C

Samples:

SC44935-04 *MW-9 (2018-03-19)*

MRL raised to correlate to batch QC reporting limits.

Calcium
Magnesium
Manganese
Sodium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

SC44935-05 *MW-D (2018-03-19)*

MRL raised to correlate to batch QC reporting limits.

Calcium
Magnesium
Manganese
Sodium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

SW846 8260C

Calibration:

1802088

Analyte quantified by quadratic equation type calibration.

Bromoform
Carbon tetrachloride

This affected the following samples:

1803890-BLK1
1803890-BS1
1803890-BSD1
MW-7 (2018-03-19)
MW-8 (2018-03-19)
MW-9 (2018-03-19)
MW-D (2018-03-19)
S817144-ICV1
S817892-CCV1
Trip Blank

1803020

SW846 8260C

Calibration:

1803020

Analyte quantified by quadratic equation type calibration.

1,1,2,2-Tetrachloroethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2-Hexanone (MBK)
4-Isopropyltoluene
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
n-Propylbenzene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1804359-BLK1
1804359-BS1
1804359-BSD1
MW-5 (2018-03-19)
S817373-ICV1
S818132-CCV1

Laboratory Control Samples:

1803890 BS/BSD

Tetrahydrofuran percent recoveries (69/79) 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-7 (2018-03-19)
MW-8 (2018-03-19)
MW-9 (2018-03-19)
MW-D (2018-03-19)
Trip Blank

Trichlorofluoromethane (Freon 11) percent recoveries (127/138) 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-7 (2018-03-19)
MW-8 (2018-03-19)
MW-9 (2018-03-19)
MW-D (2018-03-19)
Trip Blank

1804359 BS/BSD

1,1,1-Trichloroethane percent recoveries (138/124) 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-5 (2018-03-19)

Carbon tetrachloride percent recoveries (137/126) 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-5 (2018-03-19)

SW846 8260C

Laboratory Control Samples:

1804359 BS/BSD

Trichlorofluoromethane (Freon 11) percent recoveries (134/121) 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-5 (2018-03-19)

Samples:

S817892-CCV1

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

Di-isopropyl ether (-20.7%)
Tetrahydrofuran (-24.0%)
trans-1,4-Dichloro-2-butene (21.6%)
Trichlorofluoromethane (Freon 11) (45.2%)

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

1,4-Dioxane (-22.7%)
Carbon tetrachloride (24.6%)
Chloroethane (37.1%)
Chloromethane (-21.7%)

This affected the following samples:

1803890-BLK1
1803890-BS1
1803890-BSD1
MW-7 (2018-03-19)
MW-8 (2018-03-19)
MW-9 (2018-03-19)
MW-D (2018-03-19)
Trip Blank

S818132-CCV1

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

1,1,1,2-Tetrachloroethane (31.5%)
1,1,1-Trichloroethane (46.3%)
1,1,2-Trichlorotrifluoroethane (Freon 113) (37.4%)
1,1-Dichloroethene (31.7%)
Carbon disulfide (24.2%)
Trichlorofluoromethane (Freon 11) (42.2%)

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

Bromoform (20.8%)
Carbon tetrachloride (45.4%)

This affected the following samples:

1804359-BLK1
1804359-BS1
1804359-BSD1
MW-5 (2018-03-19)

SC44935-03 *MW-8 (2018-03-19)*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8260C TICs

SW846 8260C TICs

Samples:

SC44935-03 *MW-8 (2018-03-19)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SC44935-04 *MW-9 (2018-03-19)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SW846 8270D

Calibration:

1801047

Analyte quantified by quadratic equation type calibration.

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

This affected the following samples:

1804025-BLK1
MW-5 (2018-03-19)
MW-8 (2018-03-19)
S815859-ICV1
S818116-CCV1

Laboratory Control Samples:

1804025 BS/BSD

4-Chloroaniline percent recoveries (22/25) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-03-19)
MW-8 (2018-03-19)

Aniline percent recoveries (21/24) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-03-19)
MW-8 (2018-03-19)

Benzidine percent recoveries (30/37) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-03-19)
MW-8 (2018-03-19)

SW846 8270D

Laboratory Control Samples:

1804025 BS/BSD

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

MW-5 (2018-03-19)
MW-8 (2018-03-19)

Benzyl alcohol percent recoveries (32/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-03-19)
MW-8 (2018-03-19)

1804025 BSD

4-Nitrophenol RPD 22% (20%) is outside individual acceptance criteria.

Benzidine RPD 21% (20%) is outside individual acceptance criteria.

1804025-BS1

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

4-Chloroaniline
Aniline
Benzidine
Benzo (k) fluoranthene
Benzyl alcohol

1804025-BSD1

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

4-Chloroaniline
Aniline
Benzidine
Benzo (k) fluoranthene
Benzyl alcohol

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

4-Nitrophenol

Samples:

S818116-CCV1

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

2-Nitrophenol (-33.5%)
3,3´-Dichlorobenzidine (-41.3%)
4-Chloroaniline (-59.2%)
Benzo (a) pyrene (22.3%)
Benzo (b) fluoranthene (26.2%)
Di-n-octyl phthalate (23.0%)

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

2,4-Dinitrophenol (-43.2%)
3-Nitroaniline (-69.3%)
Benzidine (-84.5%)
Benzoic acid (-47.3%)
Carbazole (-38.2%)

SW846 8270D

Samples:

S818116-CCV1

This affected the following samples:

1804025-BLK1
MW-5 (2018-03-19)
MW-8 (2018-03-19)

SC44935-01 *MW-5 (2018-03-19)*

Surrogates were out of acceptance criteria, but no extra volume was provided by the client for re-extraction.

2,4,6-Tribromophenol
2-Fluorobiphenyl
2-Fluorophenol
Nitrobenzene-d5
Phenol-d5
Terphenyl-dl4

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	700 Out Parcel - Syracuse, NY / 18-051
Work Order:	SC44935
Sample(s) received on:	3/20/2018

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

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

Summary of Hits

Lab ID: SC44935-01 **Client ID:** MW-5 (2018-03-19)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.0682		0.0250	mg/l	SW846 6010C
Antimony	0.0065		0.0060	mg/l	SW846 6010C
Barium	0.230		0.0050	mg/l	SW846 6010C
Beryllium	0.0004	J	0.0020	mg/l	SW846 6010C
Cadmium	0.0004	J	0.0025	mg/l	SW846 6010C
Calcium	133	R06	5.00	mg/l	SW846 6010C
Chromium	0.0032	J	0.0050	mg/l	SW846 6010C
Copper	0.0064		0.0050	mg/l	SW846 6010C
Iron	0.0706		0.0150	mg/l	SW846 6010C
Magnesium	17.7	R06	5.00	mg/l	SW846 6010C
Nickel	0.0010	J	0.0050	mg/l	SW846 6010C
Potassium	5.90		0.500	mg/l	SW846 6010C
Selenium	0.0066	J	0.0150	mg/l	SW846 6010C
Sodium	1330	GS1, R1	100	mg/l	SW846 6010C
Vanadium	0.0027	J	0.0050	mg/l	SW846 6010C
Zinc	0.0138		0.0050	mg/l	SW846 6010C
2,4-Dinitrotoluene	0.857	J	4.76	µg/l	SW846 8270D
2,6-Dinitrotoluene	1.28	J	4.76	µg/l	SW846 8270D
4-Nitrophenol	1.21	J	19.0	µg/l	SW846 8270D
Benzoic acid	1.49	J	4.76	µg/l	SW846 8270D
Di-n-octyl phthalate	35.3		4.76	µg/l	SW846 8270D
N-Nitrosodi-n-propylamine	1.10	J	4.76	µg/l	SW846 8270D

Lab ID: SC44935-02 **Client ID:** MW-7 (2018-03-19)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.0330		0.0250	mg/l	SW846 6010C
Antimony	0.0022	J	0.0060	mg/l	SW846 6010C
Barium	0.680		0.0050	mg/l	SW846 6010C
Calcium	176	R06	5.00	mg/l	SW846 6010C
Chromium	0.0017	J	0.0050	mg/l	SW846 6010C
Copper	0.0067		0.0050	mg/l	SW846 6010C
Iron	0.102		0.0150	mg/l	SW846 6010C
Magnesium	30.0	R06	5.00	mg/l	SW846 6010C
Manganese	0.0154	R06	0.0100	mg/l	SW846 6010C
Nickel	0.0016	J	0.0050	mg/l	SW846 6010C
Potassium	9.14		0.500	mg/l	SW846 6010C
Sodium	409	GS1, R1	50.0	mg/l	SW846 6010C
Zinc	0.0042	J	0.0050	mg/l	SW846 6010C

Lab ID: SC44935-03 **Client ID:** MW-8 (2018-03-19)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Antimony	0.0044	J	0.0060	mg/l	SW846 6010C
Barium	0.518		0.0050	mg/l	SW846 6010C
Cadmium	0.0004	J	0.0025	mg/l	SW846 6010C
Calcium	241	R06	5.00	mg/l	SW846 6010C
Chromium	0.0017	J	0.0050	mg/l	SW846 6010C
Iron	6.36		0.0150	mg/l	SW846 6010C
Magnesium	36.4	R06	5.00	mg/l	SW846 6010C
Manganese	1.34	R06	0.0100	mg/l	SW846 6010C
Potassium	10.3		0.500	mg/l	SW846 6010C
Sodium	60.4	R06	5.00	mg/l	SW846 6010C
Zinc	0.0034	J	0.0050	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	486	D	10.0	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	150	D	10.0	µg/l	SW846 8260C
4-Isopropyltoluene	4.50	J, D	10.0	µg/l	SW846 8260C
Benzene	5.70	J, D	10.0	µg/l	SW846 8260C
Ethylbenzene	157	D	10.0	µg/l	SW846 8260C
Isopropylbenzene	21.9	D	10.0	µg/l	SW846 8260C
m,p-Xylene	607	D	20.0	µg/l	SW846 8260C
Naphthalene	73.2	D	10.0	µg/l	SW846 8260C
n-Butylbenzene	13.1	D	10.0	µg/l	SW846 8260C
n-Propylbenzene	67.8	D	10.0	µg/l	SW846 8260C
o-Xylene	156	D	10.0	µg/l	SW846 8260C
sec-Butylbenzene	7.40	J, D	10.0	µg/l	SW846 8260C
Toluene	15.6	D	10.0	µg/l	SW846 8260C
1-Methylnaphthalene	7.50		4.85	µg/l	SW846 8270D
2,4-Dinitrophenol	1.15	J	4.85	µg/l	SW846 8270D
2,4-Dinitrotoluene	0.913	J	4.85	µg/l	SW846 8270D
2,6-Dinitrotoluene	1.93	J	4.85	µg/l	SW846 8270D
2-Methylnaphthalene	17.3		4.85	µg/l	SW846 8270D
4,6-Dinitro-2-methylphenol	1.71	J	4.85	µg/l	SW846 8270D
4-Nitrophenol	1.26	J	19.4	µg/l	SW846 8270D
Benzoic acid	3.07	J	4.85	µg/l	SW846 8270D
Bis(2-ethylhexyl)phthalate	1.32	J	4.85	µg/l	SW846 8270D
Di-n-octyl phthalate	3.62	J	4.85	µg/l	SW846 8270D
Hexachloroethane	14.8		4.85	µg/l	SW846 8270D
Naphthalene	22.4		4.85	µg/l	SW846 8270D
Nitrobenzene	8.90		4.85	µg/l	SW846 8270D
N-Nitrosodi-n-propylamine	2.96	J	4.85	µg/l	SW846 8270D

Lab ID: SC44935-04 **Client ID:** MW-9 (2018-03-19)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	2.93		0.0250	mg/l	SW846 6010C
Antimony	0.0034	J	0.0060	mg/l	SW846 6010C
Barium	0.537		0.0050	mg/l	SW846 6010C
Cadmium	0.0004	J	0.0025	mg/l	SW846 6010C
Calcium	230	R06	5.00	mg/l	SW846 6010C
Chromium	0.0054		0.0050	mg/l	SW846 6010C
Cobalt	0.0010	J	0.0050	mg/l	SW846 6010C
Copper	0.0058		0.0050	mg/l	SW846 6010C
Iron	5.52		0.0150	mg/l	SW846 6010C
Magnesium	36.1	R06	5.00	mg/l	SW846 6010C
Manganese	0.730	R06	0.0100	mg/l	SW846 6010C
Nickel	0.0034	J	0.0050	mg/l	SW846 6010C
Potassium	15.6		0.500	mg/l	SW846 6010C
Sodium	449	GS1, R06	50.0	mg/l	SW846 6010C
Vanadium	0.0047	J	0.0050	mg/l	SW846 6010C
Zinc	0.0106		0.0050	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	0.79	J	1.00	µg/l	SW846 8260C
4-Isopropyltoluene	0.59	J	1.00	µg/l	SW846 8260C
Benzene	0.33	J	1.00	µg/l	SW846 8260C
Isopropylbenzene	3.16		1.00	µg/l	SW846 8260C
m,p-Xylene	0.62	J	2.00	µg/l	SW846 8260C
Naphthalene	0.67	J	1.00	µg/l	SW846 8260C
n-Butylbenzene	0.47	J	1.00	µg/l	SW846 8260C
n-Propylbenzene	4.80		1.00	µg/l	SW846 8260C
sec-Butylbenzene	1.53		1.00	µg/l	SW846 8260C
tert-Butylbenzene	0.51	J	1.00	µg/l	SW846 8260C

Lab ID: SC44935-05 **Client ID:** MW-D (2018-03-19)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.0666		0.0250	mg/l	SW846 6010C
Antimony	0.0062		0.0060	mg/l	SW846 6010C
Barium	0.230		0.0050	mg/l	SW846 6010C
Calcium	140	R06	5.00	mg/l	SW846 6010C
Chromium	0.0030	J	0.0050	mg/l	SW846 6010C
Copper	0.0082		0.0050	mg/l	SW846 6010C
Iron	0.0858		0.0150	mg/l	SW846 6010C
Magnesium	18.1	R06	5.00	mg/l	SW846 6010C
Manganese	0.0020	R06, J	0.0100	mg/l	SW846 6010C
Nickel	0.0012	J	0.0050	mg/l	SW846 6010C
Potassium	6.26		0.500	mg/l	SW846 6010C
Selenium	0.0064	J	0.0150	mg/l	SW846 6010C
Sodium	1400	GS1, R06	250	mg/l	SW846 6010C
Vanadium	0.0028	J	0.0050	mg/l	SW846 6010C
Zinc	0.0154		0.0050	mg/l	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	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-03-19)	18-051	Ground Water	19-Mar-18 11:00	20-Mar-18
SC44935-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	02-Apr-18	02-Apr-18	GMA	1804359	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-03-19)	18-051	Ground Water	19-Mar-18 11:00	20-Mar-18
SC44935-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	02-Apr-18	02-Apr-18	GMA	1804359	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*93*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*111*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	**None found**		µg/l			1	SW846 8260C TICs	"	"	GMA	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-03-19) SC44935-01	18-051	Ground Water	19-Mar-18 11:00	20-Mar-18

Semivolatile Organic Compounds by GCMS

Semivolatile Organic Compounds
Prepared by method SW846 3510C

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
83-32-9	Acenaphthene	< 4.76	U	µg/l	4.76	0.658	1	SW846 8270D	26-Mar-18	28-Mar-18	MSL	1804025	X
208-96-8	Acenaphthylene	< 4.76	U	µg/l	4.76	0.650	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.76	U	µg/l	4.76	1.69	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.76	U	µg/l	4.76	0.579	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.76	U	µg/l	4.76	0.712	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.52	U	µg/l	9.52	1.09	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.76	U	µg/l	4.76	0.510	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.76	U	µg/l	4.76	0.535	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.76	U	µg/l	4.76	0.416	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.76	U	µg/l	4.76	0.505	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.76	U	µg/l	4.76	0.457	1	"	"	"	"	"	X
65-85-0	Benzoic acid	**1.49**	J	µg/l	4.76	0.502	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.76	U	µg/l	4.76	0.743	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.76	U	µg/l	4.76	0.634	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.76	U	µg/l	4.76	0.699	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.76	U	µg/l	4.76	0.741	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.76	U	µg/l	4.76	0.608	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.573	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.76	U	µg/l	4.76	0.417	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.76	U	µg/l	4.76	1.49	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.76	U	µg/l	4.76	0.477	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.76	U	µg/l	4.76	1.07	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.76	U	µg/l	4.76	0.562	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.76	U	µg/l	4.76	0.712	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.574	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.76	U	µg/l	4.76	0.507	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.76	U	µg/l	4.76	0.429	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.76	U	µg/l	4.76	0.705	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.76	U	µg/l	4.76	0.535	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.76	U	µg/l	4.76	0.616	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.76	U	µg/l	4.76	0.585	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.76	U	µg/l	4.76	1.89	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.76	U	µg/l	4.76	0.505	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.76	U	µg/l	4.76	0.593	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.76	U	µg/l	4.76	0.722	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.76	U	µg/l	4.76	0.622	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.76	U	µg/l	4.76	0.435	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.76	U	µg/l	4.76	0.304	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.76	U	µg/l	4.76	0.534	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	**0.857**	J	µg/l	4.76	0.641	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	**1.28**	J	µg/l	4.76	0.565	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-03-19)	18-051	Ground Water	19-Mar-18 11:00	20-Mar-18
SC44935-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	**35.3**		µg/l	4.76	0.387	1	SW846 8270D	26-Mar-18	28-Mar-18	MSL	1804025	X
206-44-0	Fluoranthene	< 4.76	U	µg/l	4.76	0.608	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.76	U	µg/l	4.76	0.583	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.76	U	µg/l	4.76	0.544	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.76	U	µg/l	4.76	0.370	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.76	U	µg/l	4.76	0.987	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.76	U	µg/l	4.76	0.609	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.76	U	µg/l	4.76	0.552	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.76	U	µg/l	4.76	0.558	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.76	U	µg/l	4.76	0.547	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.76	U	µg/l	4.76	0.633	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.52	U	µg/l	9.52	0.586	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.76	U	µg/l	4.76	0.652	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.76	U	µg/l	4.76	0.577	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.76	U	µg/l	4.76	0.517	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.76	U	µg/l	4.76	0.356	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.76	U	µg/l	4.76	0.657	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.76	U	µg/l	4.76	0.443	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	**1.21**	J	µg/l	19.0	0.798	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.76	U	µg/l	4.76	0.641	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	**1.10**	J	µg/l	4.76	0.550	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.76	U	µg/l	4.76	0.620	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.0	U	µg/l	19.0	0.355	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.76	U	µg/l	4.76	0.558	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.76	U	µg/l	4.76	0.614	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.76	U	µg/l	4.76	0.581	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.76	U	µg/l	4.76	0.780	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.76	U	µg/l	4.76	0.654	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.76	U	µg/l	4.76	0.698	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.76	U	µg/l	4.76	0.495	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.76	U	µg/l	4.76	0.493	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.76	U	µg/l	4.76	0.663	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.76	U	µg/l	4.76	0.690	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*12*	Z-2		*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*14*	Z-2		*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*13*	Z-2		*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*8*	Z-2		*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*29*	Z-2		*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*14*	Z-2		*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
	Tentatively Identified Compounds	**None found**		µg/l			1	SW846 8270D TICS	"	"	MSL	"	
Total Metals by EPA 200/6000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-03-19) SC44935-01	18-051	Ground Water	19-Mar-18 11:00	20-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	21-Mar-18		KT	1803871	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	23-Mar-18	30-Mar-18	SJR/T	1803912	X
7429-90-5	Aluminum	**0.0682**		mg/l	0.0250	0.0103	1	"	"	03-Apr-18	"	"	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	30-Mar-18	"	"	X
7440-39-3	Barium	**0.230**		mg/l	0.0050	0.0007	1	"	"	03-Apr-18	"	"	X
7440-41-7	Beryllium	**0.0004**	J	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**133**	R06	mg/l	5.00	0.0071	1	"	"	30-Mar-18	"	"	X
7440-43-9	Cadmium	**0.0004**	J	mg/l	0.0025	0.0004	1	"	"	"	"	"	X
7440-48-4	Cobalt	< 0.0050	U	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0032**	J	mg/l	0.0050	0.0009	1	"	"	03-Apr-18	"	"	X
7440-50-8	Copper	**0.0064**		mg/l	0.0050	0.0023	1	"	"	30-Mar-18	"	"	X
7439-89-6	Iron	**0.0706**		mg/l	0.0150	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**5.90**		mg/l	0.500	0.0600	1	"	"	"	"	"	X
7439-95-4	Magnesium	**17.7**	R06	mg/l	5.00	0.0044	1	"	"	03-Apr-18	"	"	X
7439-96-5	Manganese	< 0.0100	R06, U	mg/l	0.0100	0.0019	1	"	"	04-Apr-18	"	"	X
7440-23-5	Sodium	**1,330**	GS1, R06, D	mg/l	100	0.785	20	"	"	03-Apr-18	"	"	X
7440-02-0	Nickel	**0.0010**	J	mg/l	0.0050	0.0009	1	"	"	30-Mar-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	**0.0065**		mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	**0.0066**	J	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	**0.0027**	J	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0138**		mg/l	0.0050	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00013	1	EPA 245.1/7470A	26-Mar-18	27-Mar-18	ABW	1803913	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-03-19)	18-051	Ground Water	19-Mar-18 12:00	20-Mar-18
SC44935-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	22-Mar-18	22-Mar-18	GMA	1803890	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-03-19) SC44935-02	18-051	Ground Water	19-Mar-18 12:00	20-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	22-Mar-18	22-Mar-18	GMA	1803890	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	None found		µg/l			1	SW846 8260C TICs	"	"	GMA	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-03-19) SC44935-02	18-051	Ground Water	19-Mar-18 12:00	20-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	21-Mar-18		KT	1803871	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	23-Mar-18	30-Mar-18	SJR/T	1803912	X
7429-90-5	Aluminum	**0.0330**		mg/l	0.0250	0.0103	1	"	"	03-Apr-18	"	"	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	30-Mar-18	"	"	X
7440-39-3	Barium	**0.680**		mg/l	0.0050	0.0007	1	"	"	03-Apr-18	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**176**	R06	mg/l	5.00	0.0071	1	"	"	30-Mar-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	"	"	"	X
7440-48-4	Cobalt	< 0.0050	U	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0017**	J	mg/l	0.0050	0.0009	1	"	"	03-Apr-18	"	"	X
7440-50-8	Copper	**0.0067**		mg/l	0.0050	0.0023	1	"	"	30-Mar-18	"	"	X
7439-89-6	Iron	**0.102**		mg/l	0.0150	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**9.14**		mg/l	0.500	0.0600	1	"	"	"	"	"	X
7439-95-4	Magnesium	**30.0**	R06	mg/l	5.00	0.0044	1	"	"	03-Apr-18	"	"	X
7439-96-5	Manganese	**0.0154**	R06	mg/l	0.0100	0.0019	1	"	"	04-Apr-18	"	"	X
7440-23-5	Sodium	**409**	GS1, R06, D	mg/l	50.0	0.392	10	"	"	03-Apr-18	"	"	X
7440-02-0	Nickel	**0.0016**	J	mg/l	0.0050	0.0009	1	"	"	30-Mar-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	**0.0022**	J	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	< 0.0050	U	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0042**	J	mg/l	0.0050	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00013	1	EPA 245.1/7470A	26-Mar-18	27-Mar-18	ABW	1803913	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-03-19)	18-051	Ground Water	19-Mar-18 13:54	20-Mar-18
SC44935-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 10.0	U, D	µg/l	10.0	5.32	10	SW846 8260C	22-Mar-18	22-Mar-18	GMA	1803890	X
67-64-1	Acetone	< 100	U, D	µg/l	100	8.04	10	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U, D	µg/l	5.00	4.66	10	"	"	"	"	"	X
71-43-2	Benzene	**5.70**	J, D	µg/l	10.0	2.84	10	"	"	"	"	"	X
108-86-1	Bromobenzene	< 10.0	U, D	µg/l	10.0	3.32	10	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 10.0	U, D	µg/l	10.0	3.38	10	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U, D	µg/l	5.00	4.17	10	"	"	"	"	"	X
75-25-2	Bromoform	< 10.0	U, D	µg/l	10.0	4.25	10	"	"	"	"	"	X
74-83-9	Bromomethane	< 20.0	U, D	µg/l	20.0	8.96	10	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.0	U, D	µg/l	20.0	10.7	10	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**13.1**	D	µg/l	10.0	4.12	10	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**7.40**	J, D	µg/l	10.0	3.26	10	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 10.0	U, D	µg/l	10.0	3.15	10	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 20.0	U, D	µg/l	20.0	4.12	10	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 10.0	U, D	µg/l	10.0	4.37	10	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 10.0	U, D	µg/l	10.0	2.49	10	"	"	"	"	"	X
75-00-3	Chloroethane	< 20.0	U, D	µg/l	20.0	5.88	10	"	"	"	"	"	X
67-66-3	Chloroform	< 10.0	U, D	µg/l	10.0	3.26	10	"	"	"	"	"	X
74-87-3	Chloromethane	< 20.0	U, D	µg/l	20.0	3.68	10	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.16	10	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.16	10	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 20.0	U, D	µg/l	20.0	8.63	10	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U, D	µg/l	5.00	3.17	10	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U, D	µg/l	5.00	2.02	10	"	"	"	"	"	X
74-95-3	Dibromomethane	< 10.0	U, D	µg/l	10.0	3.09	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.77	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	3.14	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.72	10	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.0	U, D	µg/l	20.0	5.84	10	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 10.0	U, D	µg/l	10.0	3.23	10	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 10.0	U, D	µg/l	10.0	2.77	10	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 10.0	U, D	µg/l	10.0	6.93	10	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.27	10	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.77	10	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.14	10	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	4.18	10	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 10.0	U, D	µg/l	10.0	5.78	10	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.59	10	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.47	10	"	"	"	"	"	X
100-41-4	Ethylbenzene	**157**	D	µg/l	10.0	3.29	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U, D	µg/l	5.00	4.70	10	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 20.0	U, D	µg/l	20.0	5.28	10	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-03-19)	18-051	Ground Water	19-Mar-18 13:54	20-Mar-18
SC44935-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
98-82-8	Isopropylbenzene	**21.9**	D	µg/l	10.0	3.60	10	SW846 8260C	22-Mar-18	22-Mar-18	GMA	1803890	X
99-87-6	4-Isopropyltoluene	**4.50**	J, D	µg/l	10.0	2.79	10	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.37	10	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 20.0	U, D	µg/l	20.0	5.15	10	"	"	"	"	"	X
75-09-2	Methylene chloride	< 20.0	U, D	µg/l	20.0	6.61	10	"	"	"	"	"	X
91-20-3	Naphthalene	**73.2**	D	µg/l	10.0	3.51	10	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**67.8**	D	µg/l	10.0	3.44	10	"	"	"	"	"	X
100-42-5	Styrene	< 10.0	U, D	µg/l	10.0	4.05	10	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 10.0	U, D	µg/l	10.0	3.78	10	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U, D	µg/l	5.00	3.30	10	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 10.0	U, D	µg/l	10.0	5.70	10	"	"	"	"	"	X
108-88-3	Toluene	**15.6**	D	µg/l	10.0	2.99	10	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.77	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.78	10	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	2.96	10	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 10.0	U, D	µg/l	10.0	5.09	10	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 10.0	U, D	µg/l	10.0	3.30	10	"	"	"	"	"	X
79-01-6	Trichloroethene	< 10.0	U, D	µg/l	10.0	4.97	10	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 10.0	U, D	µg/l	10.0	4.87	10	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**486**	D	µg/l	10.0	3.55	10	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**150**	D	µg/l	10.0	4.31	10	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 10.0	U, D	µg/l	10.0	4.72	10	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**607**	D	µg/l	20.0	3.80	10	"	"	"	"	"	X
95-47-6	o-Xylene	**156**	D	µg/l	10.0	2.83	10	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 20.0	U, D	µg/l	20.0	10.6	10	"	"	"	"	"	
60-29-7	Ethyl ether	< 10.0	U, D	µg/l	10.0	3.74	10	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 10.0	U, D	µg/l	10.0	4.93	10	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	3.32	10	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 10.0	U, D	µg/l	10.0	2.86	10	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 100	U, D	µg/l	100	59.0	10	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 200	U, D	µg/l	200	114	10	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 50.0	U, D	µg/l	50.0	8.21	10	"	"	"	"	"	X
64-17-5	Ethanol	< 2000	U, D	µg/l	2000	309	10	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*109*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS			J N										
000563-79-1	2-Butene, 2,3-dimethyl-	**87**	D	µg/l			10	SW846 8260C TICs	"	"	GMA	"	
611-14-3	Benzene, 1-ethyl-2-methyl-	**280**	D	µg/l			10	"	"	"	"	"	

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS			J N										
002039-89-6	Benzene, 2-ethenyl-1,4-dime...	**87**	D	µg/l			10	SW846 8260C TICs	22-Mar-18	22-Mar-18	GMA	1803890	
78-78-4	Butane, 2-methyl-	**340**	D	µg/l			10	"	"	"	"	"	
96-37-7	Cyclopentane, methyl-	**310**	D	µg/l			10	"	"	"	"	"	
109-66-0	Pentane	**130**	D	µg/l			10	"	"	"	"	"	
107-83-5	Pentane, 2-methyl-	**380**	D	µg/l			10	"	"	"	"	"	
96-14-0	Pentane, 3-methyl-	**180**	D	µg/l			10	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	0.671	1	SW846 8270D	26-Mar-18	28-Mar-18	MSL	1804025	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	0.663	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	1.72	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	0.590	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.85	U	µg/l	4.85	0.726	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	1.11	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.520	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.546	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.424	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.515	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.466	1	"	"	"	"	"	X
65-85-0	Benzoic acid	**3.07**	J	µg/l	4.85	0.512	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	0.757	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.85	U	µg/l	4.85	0.647	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	0.713	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.85	U	µg/l	4.85	0.755	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	**1.32**	J	µg/l	4.85	0.619	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.584	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.425	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.486	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.09	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	0.573	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	0.726	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.585	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.517	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.437	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	0.718	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.546	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.628	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.596	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.85	U	µg/l	4.85	1.93	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.515	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-03-19)	18-051	Ground Water	19-Mar-18 13:54	20-Mar-18
SC44935-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	0.605	1	SW846 8270D	26-Mar-18	28-Mar-18	MSL	1804025	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	0.736	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	0.634	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.85	U	µg/l	4.85	0.444	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	**1.71**	J	µg/l	4.85	0.310	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	**1.15**	J	µg/l	4.85	0.545	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	**0.913**	J	µg/l	4.85	0.653	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	**1.93**	J	µg/l	4.85	0.576	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	**3.62**	J	µg/l	4.85	0.394	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.619	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.594	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	0.554	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	0.377	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.01	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	**14.8**		µg/l	4.85	0.620	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.563	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.569	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**17.3**		µg/l	4.85	0.557	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	0.646	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	0.597	1	"	"	"	"	"	X
91-20-3	Naphthalene	**22.4**		µg/l	4.85	0.665	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.588	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.527	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.363	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	**8.90**		µg/l	4.85	0.670	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.451	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	**1.26**	J	µg/l	19.4	0.814	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.653	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	**2.96**	J	µg/l	4.85	0.561	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.632	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.362	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	0.569	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	0.626	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.592	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.795	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	0.667	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**7.50**		µg/l	4.85	0.712	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.505	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.503	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.676	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	0.704	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*30*			*30-130 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-03-19) SC44935-03	18-051	Ground Water	19-Mar-18 13:54	20-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
367-12-4	*2-Fluorophenol*	*27*			*15-110 %*			SW846 8270D	26-Mar-18	28-Mar-18	MSL	1804025	
4165-60-0	*Nitrobenzene-d5*	*35*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*16*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*48*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*43*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
	1H-Indene, 2,3-dihydro-5-me...	**12**		µg/l			1	SW846 8270D TICS	"	"	MSL	"	
020836-11-7	1H-Indene,2,3-dihydro-2,2-d...	**9.7**		µg/l			1	"	"	"	"	"	
	Benzene, (1-methylethyl)-	**5.7**		µg/l			1	"	"	"	"	"	
	Benzene, (3-methyl-2-butenyl)-	**4.9**		µg/l			1	"	"	"	"	"	
488-23-3	Benzene, 1,2,3,4-tetramethyl-	**23**		µg/l			1	"	"	"	"	"	
000526-73-8	Benzene, 1,2,3-trimethyl- (01)	**48**		µg/l			1	"	"	"	"	"	
000095-93-2	Benzene, 1,2,4,5-tetramethyl- (01)	**16**		µg/l			1	"	"	"	"	"	
108-38-3	Benzene, 1,3-dimethyl-	**47**		µg/l			1	"	"	"	"	"	
000620-14-4	Benzene, 1-ethyl-3-methyl-	**110**		µg/l			1	"	"	"	"	"	
001074-43-7	Benzene, 1-methyl-3-propyl-	**29**		µg/l			1	"	"	"	"	"	
000099-87-6	Benzene, 1-methyl-4-(1-meth...	**4.1**		µg/l			1	"	"	"	"	"	
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	**7.6**		µg/l			1	"	"	"	"	"	
103-65-1	Benzene, propyl-	**18**		µg/l			1	"	"	"	"	"	
010544-50-0	Cyclic octaatomic sulfur	**47**		µg/l			1	"	"	"	"	"	
496-11-7	Indane	**24**		µg/l			1	"	"	"	"	"	
112-39-0	n-Hexadecanoic Acid	**5.1**		µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	21-Mar-18		KT	1803871	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	23-Mar-18	30-Mar-18	SJR/T	1803912	X
7429-90-5	Aluminum	< 0.0250	U	mg/l	0.0250	0.0103	1	"	"	03-Apr-18	"	"	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	30-Mar-18	"	"	X
7440-39-3	Barium	**0.518**		mg/l	0.0050	0.0007	1	"	"	03-Apr-18	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**241**	R06	mg/l	5.00	0.0071	1	"	"	30-Mar-18	"	"	X
7440-43-9	Cadmium	**0.0004**	J	mg/l	0.0025	0.0004	1	"	"	"	"	"	X
7440-48-4	Cobalt	< 0.0050	U	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0017**	J	mg/l	0.0050	0.0009	1	"	"	03-Apr-18	"	"	X
7440-50-8	Copper	< 0.0050	U	mg/l	0.0050	0.0023	1	"	"	30-Mar-18	"	"	X
7439-89-6	Iron	**6.36**		mg/l	0.0150	0.0045	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-03-19) SC44935-03	18-051	Ground Water	19-Mar-18 13:54	20-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7440-09-7	Potassium	**10.3**		mg/l	0.500	0.0600	1	SW846 6010C	23-Mar-18	30-Mar-18	SJR/T	1803912	X
7439-95-4	Magnesium	**36.4**	R06	mg/l	5.00	0.0044	1	"	"	03-Apr-18	"	"	X
7439-96-5	Manganese	**1.34**	R06	mg/l	0.0100	0.0019	1	"	"	04-Apr-18	"	"	X
7440-23-5	Sodium	**60.4**	R06	mg/l	5.00	0.0392	1	"	"	03-Apr-18	"	"	X
7440-02-0	Nickel	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	30-Mar-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	**0.0044**	J	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	< 0.0050	U	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0034**	J	mg/l	0.0050	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00013	1	EPA 245.1/7470A	26-Mar-18	27-Mar-18	ABW	1803913	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-03-19)	18-051	Ground Water	19-Mar-18 13:10	20-Mar-18
SC44935-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	22-Mar-18	22-Mar-18	GMA	1803890	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	**0.33**	J	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**0.47**	J	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**1.53**		µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**0.51**	J	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-03-19)	18-051	Ground Water	19-Mar-18 13:10	20-Mar-18
SC44935-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	**3.16**		µg/l	1.00	0.36	1	SW846 8260C	22-Mar-18	22-Mar-18	GMA	1803890	X
99-87-6	4-Isopropyltoluene	**0.59**	J	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	**0.67**	J	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**4.80**		µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**0.79**	J	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**0.62**	J	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*104*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS			J N										
105-05-5	Benzene, 1,4-diethyl-	**9.6**		µg/l			1	SW846 8260C TICs	"	"	GMA	"	
	Cyclohexane, 1,1-dimethyl-	**12**		µg/l			1	"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-03-19) SC44935-04	18-051	Ground Water	19-Mar-18 13:10	20-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS			J N										
000822-50-4	Cyclopentane, 1,2-dimethyl-...	**20**		µg/l			1	SW846 8260C TICs	22-Mar-18	22-Mar-18	GMA	1803890	
473-91-6	Cyclopentene, 1,2,3-trimethyl-	**23**		µg/l			1	"	"	"	"	"	
000767-58-8	Indan, 1-methyl-	**13**		µg/l			1	"	"	"	"	"	
565-59-3	Pentane, 2,3-dimethyl-	**10**		µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	21-Mar-18		KT	1803871	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	23-Mar-18	30-Mar-18	SJR/T	1803912	X
7429-90-5	Aluminum	**2.93**		mg/l	0.0250	0.0103	1	"	"	03-Apr-18	"	"	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	30-Mar-18	"	"	X
7440-39-3	Barium	**0.537**		mg/l	0.0050	0.0007	1	"	"	03-Apr-18	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**230**	R06	mg/l	5.00	0.0071	1	"	"	30-Mar-18	"	"	X
7440-43-9	Cadmium	**0.0004**	J	mg/l	0.0025	0.0004	1	"	"	"	"	"	X
7440-48-4	Cobalt	**0.0010**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0054**		mg/l	0.0050	0.0009	1	"	"	03-Apr-18	"	"	X
7440-50-8	Copper	**0.0058**		mg/l	0.0050	0.0023	1	"	"	30-Mar-18	"	"	X
7439-89-6	Iron	**5.52**		mg/l	0.0150	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**15.6**		mg/l	0.500	0.0600	1	"	"	"	"	"	X
7439-95-4	Magnesium	**36.1**	R06	mg/l	5.00	0.0044	1	"	"	03-Apr-18	"	"	X
7439-96-5	Manganese	**0.730**	R06	mg/l	0.0100	0.0019	1	"	"	04-Apr-18	"	"	X
7440-23-5	Sodium	**449**	GS1, R06, D	mg/l	50.0	0.392	10	"	"	03-Apr-18	"	"	X
7440-02-0	Nickel	**0.0034**	J	mg/l	0.0050	0.0009	1	"	"	30-Mar-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	**0.0034**	J	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	**0.0047**	J	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0106**		mg/l	0.0050	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00013	1	EPA 245.1/7470A	26-Mar-18	27-Mar-18	ABW	1803913	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-03-19)	18-051	Ground Water	19-Mar-18 00:00	20-Mar-18
SC44935-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	22-Mar-18	23-Mar-18	GMA	1803890	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-03-19)	18-051	Ground Water	19-Mar-18 00:00	20-Mar-18
SC44935-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	22-Mar-18	23-Mar-18	GMA	1803890	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*102*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	None found		µg/l			1	SW846 8260C TICs	"	"	GMA	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-03-19) SC44935-05	18-051	Ground Water	19-Mar-18 00:00	20-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	21-Mar-18		KT	1803871	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	23-Mar-18	30-Mar-18	SJR/T	1803912	X
7429-90-5	Aluminum	**0.0666**		mg/l	0.0250	0.0103	1	"	"	03-Apr-18	"	"	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	30-Mar-18	"	"	X
7440-39-3	Barium	**0.230**		mg/l	0.0050	0.0007	1	"	"	03-Apr-18	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**140**	R06	mg/l	5.00	0.0071	1	"	"	30-Mar-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	"	"	"	X
7440-48-4	Cobalt	< 0.0050	U	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0030**	J	mg/l	0.0050	0.0009	1	"	"	03-Apr-18	"	"	X
7440-50-8	Copper	**0.0082**		mg/l	0.0050	0.0023	1	"	"	30-Mar-18	"	"	X
7439-89-6	Iron	**0.0858**		mg/l	0.0150	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**6.26**		mg/l	0.500	0.0600	1	"	"	"	"	"	X
7439-95-4	Magnesium	**18.1**	R06	mg/l	5.00	0.0044	1	"	"	03-Apr-18	"	"	X
7439-96-5	Manganese	**0.0020**	R06, J	mg/l	0.0100	0.0019	1	"	"	04-Apr-18	"	"	X
7440-23-5	Sodium	**1,400**	GS1, R06, D	mg/l	250	1.96	50	"	"	04-Apr-18	"	"	X
7440-02-0	Nickel	**0.0012**	J	mg/l	0.0050	0.0009	1	"	"	30-Mar-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	**0.0062**		mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	**0.0064**	J	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	**0.0028**	J	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0154**		mg/l	0.0050	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00013	1	EPA 245.1/7470A	26-Mar-18	27-Mar-18	ABW	1803913	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	18-051	Aqueous	19-Mar-18 00:00	20-Mar-18
SC44935-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.53	1	SW846 8260C	22-Mar-18	23-Mar-18	GMA	1803890	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	18-051	Aqueous	19-Mar-18 00:00	20-Mar-18
SC44935-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	22-Mar-18	23-Mar-18	GMA	1803890	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*105*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	**None found**		µg/l			1	SW846 8260C TICs	"	"	GMA	"	

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

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803890 - SW846 5030 Water MS										
Blank (1803890-BLK1)					Prepared & Analyzed: 22-Mar-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 1.00	U	µg/l	1.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803890 - SW846 5030 Water MS										
Blank (1803890-BLK1)					Prepared & Analyzed: 22-Mar-18					
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	*47.7*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*49.9*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.5*		µg/l		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*49.9*		µg/l		*50.0*		*100*	*70-130*		
LCS (1803890-BS1)					Prepared & Analyzed: 22-Mar-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.2**		µg/l		20.0		101	70-130		
Acetone	**16.1**		µg/l		20.0		81	70-130		
Acrylonitrile	**14.6**		µg/l		20.0		73	70-130		
Benzene	**16.2**		µg/l		20.0		81	70-130		
Bromobenzene	**17.6**		µg/l		20.0		88	70-130		
Bromochloromethane	**18.4**		µg/l		20.0		92	70-130		
Bromodichloromethane	**19.3**		µg/l		20.0		96	70-130		
Bromoform	**18.6**		µg/l		20.0		93	70-130		
Bromomethane	**22.4**		µg/l		20.0		112	70-130		
2-Butanone (MEK)	**15.1**		µg/l		20.0		76	70-130		
n-Butylbenzene	**15.7**		µg/l		20.0		79	70-130		
sec-Butylbenzene	**17.4**		µg/l		20.0		87	70-130		
tert-Butylbenzene	**17.3**		µg/l		20.0		87	70-130		
Carbon disulfide	**17.9**		µg/l		20.0		89	70-130		
Carbon tetrachloride	**22.0**		µg/l		20.0		110	70-130		
Chlorobenzene	**16.7**		µg/l		20.0		84	70-130		
Chloroethane	**23.6**		µg/l		20.0		118	70-130		
Chloroform	**18.3**		µg/l		20.0		91	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803890 - SW846 5030 Water MS										
LCS (1803890-BS1)					Prepared & Analyzed: 22-Mar-18					
Chloromethane	**14.4**		µg/l		20.0		72	70-130		
2-Chlorotoluene	**17.9**		µg/l		20.0		89	70-130		
4-Chlorotoluene	**18.0**		µg/l		20.0		90	70-130		
1,2-Dibromo-3-chloropropane	**18.5**		µg/l		20.0		93	70-130		
Dibromochloromethane	**20.0**		µg/l		20.0		100	70-130		
1,2-Dibromoethane (EDB)	**18.0**		µg/l		20.0		90	70-130		
Dibromomethane	**18.2**		µg/l		20.0		91	70-130		
1,2-Dichlorobenzene	**16.6**		µg/l		20.0		83	70-130		
1,3-Dichlorobenzene	**18.6**		µg/l		20.0		93	70-130		
1,4-Dichlorobenzene	**17.1**		µg/l		20.0		86	70-130		
Dichlorodifluoromethane (Freon12)	**19.8**		µg/l		20.0		99	70-130		
1,1-Dichloroethane	**16.4**		µg/l		20.0		82	70-130		
1,2-Dichloroethane	**19.0**		µg/l		20.0		95	70-130		
1,1-Dichloroethene	**17.6**		µg/l		20.0		88	70-130		
cis-1,2-Dichloroethene	**16.0**		µg/l		20.0		80	70-130		
trans-1,2-Dichloroethene	**16.3**		µg/l		20.0		81	70-130		
1,2-Dichloropropane	**15.9**		µg/l		20.0		79	70-130		
1,3-Dichloropropane	**16.5**		µg/l		20.0		83	70-130		
2,2-Dichloropropane	**17.7**		µg/l		20.0		88	70-130		
1,1-Dichloropropene	**16.6**		µg/l		20.0		83	70-130		
cis-1,3-Dichloropropene	**15.9**		µg/l		20.0		79	70-130		
trans-1,3-Dichloropropene	**18.2**		µg/l		20.0		91	70-130		
Ethylbenzene	**16.9**		µg/l		20.0		84	70-130		
Hexachlorobutadiene	**16.6**		µg/l		20.0		83	70-130		
2-Hexanone (MBK)	**14.6**		µg/l		20.0		73	70-130		
Isopropylbenzene	**17.1**		µg/l		20.0		86	70-130		
4-Isopropyltoluene	**16.8**		µg/l		20.0		84	70-130		
Methyl tert-butyl ether	**16.3**		µg/l		20.0		82	70-130		
4-Methyl-2-pentanone (MIBK)	**15.3**		µg/l		20.0		77	70-130		
Methylene chloride	**16.2**		µg/l		20.0		81	70-130		
Naphthalene	**20.0**		µg/l		20.0		100	70-130		
n-Propylbenzene	**17.3**		µg/l		20.0		86	70-130		
Styrene	**17.1**		µg/l		20.0		85	70-130		
1,1,1,2-Tetrachloroethane	**19.9**		µg/l		20.0		99	70-130		
1,1,2,2-Tetrachloroethane	**17.3**		µg/l		20.0		87	70-130		
Tetrachloroethene	**18.2**		µg/l		20.0		91	70-130		
Toluene	**17.2**		µg/l		20.0		86	70-130		
1,2,3-Trichlorobenzene	**18.0**		µg/l		20.0		90	70-130		
1,2,4-Trichlorobenzene	**18.2**		µg/l		20.0		91	70-130		
1,3,5-Trichlorobenzene	**18.3**		µg/l		20.0		91	70-130		
1,1,1-Trichloroethane	**20.2**		µg/l		20.0		101	70-130		
1,1,2-Trichloroethane	**17.3**		µg/l		20.0		86	70-130		
Trichloroethene	**18.2**		µg/l		20.0		91	70-130		
Trichlorofluoromethane (Freon 11)	**25.4**		µg/l		20.0		127	70-130		
1,2,3-Trichloropropane	**17.8**		µg/l		20.0		89	70-130		
1,2,4-Trimethylbenzene	**17.8**		µg/l		20.0		89	70-130		
1,3,5-Trimethylbenzene	**18.0**		µg/l		20.0		90	70-130		
Vinyl chloride	**20.6**		µg/l		20.0		103	70-130		
m,p-Xylene	**16.8**		µg/l		20.0		84	70-130		
o-Xylene	**16.2**		µg/l		20.0		81	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803890 - SW846 5030 Water MS										
LCS (1803890-BS1)					Prepared & Analyzed: 22-Mar-18					
Tetrahydrofuran	**13.9**	QM9	µg/l		20.0		69	70-130		
Ethyl ether	**19.5**		µg/l		20.0		98	70-130		
Tert-amyl methyl ether	**16.0**		µg/l		20.0		80	70-130		
Ethyl tert-butyl ether	**15.5**		µg/l		20.0		77	70-130		
Di-isopropyl ether	**14.1**		µg/l		20.0		70	70-130		
Tert-Butanol / butyl alcohol	**150**		µg/l		200		75	70-130		
1,4-Dioxane	**141**		µg/l		200		71	70-130		
trans-1,4-Dichloro-2-butene	**20.7**		µg/l		20.0		103	70-130		
Ethanol	**321**		µg/l		400		80	70-130		
Surrogate: 4-Bromofluorobenzene	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.2*		µg/l		*50.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/l		*50.0*		*102*	*70-130*		
LCS Dup (1803890-BSD1)					Prepared & Analyzed: 22-Mar-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**22.1**		µg/l		20.0		110	70-130	9	20
Acetone	**18.0**		µg/l		20.0		90	70-130	11	20
Acrylonitrile	**17.0**		µg/l		20.0		85	70-130	15	20
Benzene	**17.6**		µg/l		20.0		88	70-130	8	20
Bromobenzene	**19.2**		µg/l		20.0		96	70-130	8	20
Bromochloromethane	**20.3**		µg/l		20.0		101	70-130	9	20
Bromodichloromethane	**21.1**		µg/l		20.0		105	70-130	9	20
Bromoform	**20.6**		µg/l		20.0		103	70-130	11	20
Bromomethane	**25.0**		µg/l		20.0		125	70-130	11	20
2-Butanone (MEK)	**17.1**		µg/l		20.0		86	70-130	13	20
n-Butylbenzene	**16.5**		µg/l		20.0		83	70-130	5	20
sec-Butylbenzene	**18.4**		µg/l		20.0		92	70-130	5	20
tert-Butylbenzene	**18.8**		µg/l		20.0		94	70-130	8	20
Carbon disulfide	**19.2**		µg/l		20.0		96	70-130	7	20
Carbon tetrachloride	**23.5**		µg/l		20.0		117	70-130	6	20
Chlorobenzene	**18.2**		µg/l		20.0		91	70-130	8	20
Chloroethane	**25.3**		µg/l		20.0		126	70-130	7	20
Chloroform	**19.7**		µg/l		20.0		98	70-130	8	20
Chloromethane	**15.8**		µg/l		20.0		79	70-130	9	20
2-Chlorotoluene	**19.3**		µg/l		20.0		97	70-130	8	20
4-Chlorotoluene	**19.4**		µg/l		20.0		97	70-130	7	20
1,2-Dibromo-3-chloropropane	**20.1**		µg/l		20.0		100	70-130	8	20
Dibromochloromethane	**22.6**		µg/l		20.0		113	70-130	12	20
1,2-Dibromoethane (EDB)	**19.7**		µg/l		20.0		98	70-130	9	20
Dibromomethane	**20.0**		µg/l		20.0		100	70-130	10	20
1,2-Dichlorobenzene	**18.6**		µg/l		20.0		93	70-130	12	20
1,3-Dichlorobenzene	**19.8**		µg/l		20.0		99	70-130	6	20
1,4-Dichlorobenzene	**18.1**		µg/l		20.0		91	70-130	6	20
Dichlorodifluoromethane (Freon12)	**21.8**		µg/l		20.0		109	70-130	10	20
1,1-Dichloroethane	**18.3**		µg/l		20.0		91	70-130	11	20
1,2-Dichloroethane	**20.6**		µg/l		20.0		103	70-130	8	20
1,1-Dichloroethene	**19.6**		µg/l		20.0		98	70-130	10	20
cis-1,2-Dichloroethene	**17.6**		µg/l		20.0		88	70-130	9	20
trans-1,2-Dichloroethene	**17.7**		µg/l		20.0		89	70-130	8	20
1,2-Dichloropropane	**17.1**		µg/l		20.0		86	70-130	8	20
1,3-Dichloropropane	**17.8**		µg/l		20.0		89	70-130	7	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803890 - SW846 5030 Water MS										
LCS Dup (1803890-BSD1)					Prepared & Analyzed: 22-Mar-18					
2,2-Dichloropropane	**19.2**		µg/l		20.0		96	70-130	9	20
1,1-Dichloropropene	**18.3**		µg/l		20.0		92	70-130	10	20
cis-1,3-Dichloropropene	**17.5**		µg/l		20.0		88	70-130	10	20
trans-1,3-Dichloropropene	**19.4**		µg/l		20.0		97	70-130	6	20
Ethylbenzene	**18.1**		µg/l		20.0		90	70-130	7	20
Hexachlorobutadiene	**17.3**		µg/l		20.0		87	70-130	4	20
2-Hexanone (MBK)	**16.6**		µg/l		20.0		83	70-130	13	20
Isopropylbenzene	**18.6**		µg/l		20.0		93	70-130	8	20
4-Isopropyltoluene	**17.7**		µg/l		20.0		88	70-130	5	20
Methyl tert-butyl ether	**18.1**		µg/l		20.0		90	70-130	10	20
4-Methyl-2-pentanone (MIBK)	**17.0**		µg/l		20.0		85	70-130	10	20
Methylene chloride	**17.9**		µg/l		20.0		89	70-130	10	20
Naphthalene	**22.2**		µg/l		20.0		111	70-130	11	20
n-Propylbenzene	**18.4**		µg/l		20.0		92	70-130	6	20
Styrene	**18.4**		µg/l		20.0		92	70-130	8	20
1,1,1,2-Tetrachloroethane	**21.5**		µg/l		20.0		108	70-130	8	20
1,1,2,2-Tetrachloroethane	**19.3**		µg/l		20.0		97	70-130	11	20
Tetrachloroethene	**20.0**		µg/l		20.0		100	70-130	9	20
Toluene	**18.3**		µg/l		20.0		91	70-130	6	20
1,2,3-Trichlorobenzene	**19.3**		µg/l		20.0		96	70-130	7	20
1,2,4-Trichlorobenzene	**19.2**		µg/l		20.0		96	70-130	5	20
1,3,5-Trichlorobenzene	**19.6**		µg/l		20.0		98	70-130	7	20
1,1,1-Trichloroethane	**22.3**		µg/l		20.0		111	70-130	10	20
1,1,2-Trichloroethane	**18.8**		µg/l		20.0		94	70-130	9	20
Trichloroethene	**19.6**		µg/l		20.0		98	70-130	8	20
Trichlorofluoromethane (Freon 11)	**27.7**	QM9	µg/l		20.0		138	70-130	9	20
1,2,3-Trichloropropane	**20.3**		µg/l		20.0		101	70-130	13	20
1,2,4-Trimethylbenzene	**19.2**		µg/l		20.0		96	70-130	8	20
1,3,5-Trimethylbenzene	**19.3**		µg/l		20.0		96	70-130	7	20
Vinyl chloride	**22.4**		µg/l		20.0		112	70-130	9	20
m,p-Xylene	**18.3**		µg/l		20.0		91	70-130	8	20
o-Xylene	**17.9**		µg/l		20.0		90	70-130	10	20
Tetrahydrofuran	**15.8**		µg/l		20.0		79	70-130	13	20
Ethyl ether	**21.6**		µg/l		20.0		108	70-130	10	20
Tert-amyl methyl ether	**17.6**		µg/l		20.0		88	70-130	9	20
Ethyl tert-butyl ether	**17.2**		µg/l		20.0		86	70-130	10	20
Di-isopropyl ether	**15.5**		µg/l		20.0		77	70-130	10	20
Tert-Butanol / butyl alcohol	**171**		µg/l		200		85	70-130	13	20
1,4-Dioxane	**158**		µg/l		200		79	70-130	11	20
trans-1,4-Dichloro-2-butene	**23.0**		µg/l		20.0		115	70-130	11	20
Ethanol	**328**		µg/l		400		82	70-130	2	20
Surrogate: 4-Bromofluorobenzene	*49.9*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.7*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Batch 1804359 - SW846 5030 Water MS										
Blank (1804359-BLK1)					Prepared & Analyzed: 02-Apr-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1804359 - SW846 5030 Water MS										
Blank (1804359-BLK1)					Prepared & Analyzed: 02-Apr-18					
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 1.00	U	µg/l	1.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1804359 - SW846 5030 Water MS										
Blank (1804359-BLK1)					Prepared & Analyzed: 02-Apr-18					
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	*45.9*		µg/l		*50.0*		*92*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.6*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*54.7*		µg/l		*50.0*		*109*	*70-130*		
LCS (1804359-BS1)					Prepared & Analyzed: 02-Apr-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**25.9**		µg/l		20.0		130	70-130		
Acetone	**22.9**		µg/l		20.0		115	70-130		
Acrylonitrile	**22.0**		µg/l		20.0		110	70-130		
Benzene	**23.1**		µg/l		20.0		115	70-130		
Bromobenzene	**20.8**		µg/l		20.0		104	70-130		
Bromochloromethane	**21.5**		µg/l		20.0		108	70-130		
Bromodichloromethane	**23.6**		µg/l		20.0		118	70-130		
Bromoform	**23.7**		µg/l		20.0		118	70-130		
Bromomethane	**16.2**		µg/l		20.0		81	70-130		
2-Butanone (MEK)	**23.4**		µg/l		20.0		117	70-130		
n-Butylbenzene	**19.9**		µg/l		20.0		100	70-130		
sec-Butylbenzene	**18.7**		µg/l		20.0		93	70-130		
tert-Butylbenzene	**18.4**		µg/l		20.0		92	70-130		
Carbon disulfide	**23.8**		µg/l		20.0		119	70-130		
Carbon tetrachloride	**27.3**	QM9	µg/l		20.0		137	70-130		
Chlorobenzene	**20.5**		µg/l		20.0		103	70-130		
Chloroethane	**21.7**		µg/l		20.0		108	70-130		
Chloroform	**22.9**		µg/l		20.0		114	70-130		
Chloromethane	**22.7**		µg/l		20.0		114	70-130		
2-Chlorotoluene	**19.6**		µg/l		20.0		98	70-130		
4-Chlorotoluene	**20.8**		µg/l		20.0		104	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1804359 - SW846 5030 Water MS										
LCS (1804359-BS1)					Prepared & Analyzed: 02-Apr-18					
1,2-Dibromo-3-chloropropane	**23.7**		µg/l		20.0		119	70-130		
Dibromochloromethane	**23.4**		µg/l		20.0		117	70-130		
1,2-Dibromoethane (EDB)	**21.5**		µg/l		20.0		107	70-130		
Dibromomethane	**22.5**		µg/l		20.0		112	70-130		
1,2-Dichlorobenzene	**18.9**		µg/l		20.0		95	70-130		
1,3-Dichlorobenzene	**20.8**		µg/l		20.0		104	70-130		
1,4-Dichlorobenzene	**19.1**		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	**22.2**		µg/l		20.0		111	70-130		
1,1-Dichloroethane	**23.3**		µg/l		20.0		116	70-130		
1,2-Dichloroethane	**22.0**		µg/l		20.0		110	70-130		
1,1-Dichloroethene	**23.5**		µg/l		20.0		118	70-130		
cis-1,2-Dichloroethene	**21.5**		µg/l		20.0		108	70-130		
trans-1,2-Dichloroethene	**22.7**		µg/l		20.0		113	70-130		
1,2-Dichloropropane	**21.6**		µg/l		20.0		108	70-130		
1,3-Dichloropropane	**21.2**		µg/l		20.0		106	70-130		
2,2-Dichloropropane	**22.5**		µg/l		20.0		112	70-130		
1,1-Dichloropropene	**23.1**		µg/l		20.0		115	70-130		
cis-1,3-Dichloropropene	**20.5**		µg/l		20.0		102	70-130		
trans-1,3-Dichloropropene	**21.3**		µg/l		20.0		107	70-130		
Ethylbenzene	**20.8**		µg/l		20.0		104	70-130		
Hexachlorobutadiene	**17.5**		µg/l		20.0		88	70-130		
2-Hexanone (MBK)	**19.7**		µg/l		20.0		98	70-130		
Isopropylbenzene	**20.5**		µg/l		20.0		102	70-130		
4-Isopropyltoluene	**17.9**		µg/l		20.0		89	70-130		
Methyl tert-butyl ether	**22.9**		µg/l		20.0		115	70-130		
4-Methyl-2-pentanone (MIBK)	**22.2**		µg/l		20.0		111	70-130		
Methylene chloride	**23.0**		µg/l		20.0		115	70-130		
Naphthalene	**18.1**		µg/l		20.0		90	70-130		
n-Propylbenzene	**18.6**		µg/l		20.0		93	70-130		
Styrene	**17.9**		µg/l		20.0		89	70-130		
1,1,1,2-Tetrachloroethane	**24.3**		µg/l		20.0		121	70-130		
1,1,2,2-Tetrachloroethane	**20.8**		µg/l		20.0		104	70-130		
Tetrachloroethene	**20.9**		µg/l		20.0		105	70-130		
Toluene	**22.0**		µg/l		20.0		110	70-130		
1,2,3-Trichlorobenzene	**18.0**		µg/l		20.0		90	70-130		
1,2,4-Trichlorobenzene	**17.2**		µg/l		20.0		86	70-130		
1,3,5-Trichlorobenzene	**17.0**		µg/l		20.0		85	70-130		
1,1,1-Trichloroethane	**27.5**	QM9	µg/l		20.0		138	70-130		
1,1,2-Trichloroethane	**22.1**		µg/l		20.0		110	70-130		
Trichloroethene	**21.8**		µg/l		20.0		109	70-130		
Trichlorofluoromethane (Freon 11)	**26.8**	QM9	µg/l		20.0		134	70-130		
1,2,3-Trichloropropane	**21.6**		µg/l		20.0		108	70-130		
1,2,4-Trimethylbenzene	**17.8**		µg/l		20.0		89	70-130		
1,3,5-Trimethylbenzene	**18.2**		µg/l		20.0		91	70-130		
Vinyl chloride	**23.3**		µg/l		20.0		117	70-130		
m,p-Xylene	**20.9**		µg/l		20.0		104	70-130		
o-Xylene	**21.5**		µg/l		20.0		107	70-130		
Tetrahydrofuran	**20.7**		µg/l		20.0		103	70-130		
Ethyl ether	**22.4**		µg/l		20.0		112	70-130		
Tert-amyl methyl ether	**20.4**		µg/l		20.0		102	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1804359 - SW846 5030 Water MS										
LCS (1804359-BS1)					Prepared & Analyzed: 02-Apr-18					
Ethyl tert-butyl ether	**21.9**		µg/l		20.0		109	70-130		
Di-isopropyl ether	**22.2**		µg/l		20.0		111	70-130		
Tert-Butanol / butyl alcohol	**214**		µg/l		200		107	70-130		
1,4-Dioxane	**179**		µg/l		200		89	70-130		
trans-1,4-Dichloro-2-butene	**16.9**		µg/l		20.0		84	70-130		
Ethanol	**484**		µg/l		400		121	70-130		
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.4*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: Dibromofluoromethane	*54.6*		µg/l		*50.0*		*109*	*70-130*		
LCS Dup (1804359-BSD1)					Prepared & Analyzed: 02-Apr-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.7**		µg/l		20.0		118	70-130	9	20
Acetone	**23.4**		µg/l		20.0		117	70-130	2	20
Acrylonitrile	**21.0**		µg/l		20.0		105	70-130	4	20
Benzene	**22.0**		µg/l		20.0		110	70-130	5	20
Bromobenzene	**20.4**		µg/l		20.0		102	70-130	2	20
Bromochloromethane	**21.0**		µg/l		20.0		105	70-130	2	20
Bromodichloromethane	**22.7**		µg/l		20.0		114	70-130	4	20
Bromoform	**23.6**		µg/l		20.0		118	70-130	0.3	20
Bromomethane	**15.0**		µg/l		20.0		75	70-130	7	20
2-Butanone (MEK)	**23.5**		µg/l		20.0		117	70-130	0.2	20
n-Butylbenzene	**18.1**		µg/l		20.0		91	70-130	9	20
sec-Butylbenzene	**17.4**		µg/l		20.0		87	70-130	7	20
tert-Butylbenzene	**17.1**		µg/l		20.0		86	70-130	7	20
Carbon disulfide	**22.0**		µg/l		20.0		110	70-130	8	20
Carbon tetrachloride	**25.2**		µg/l		20.0		126	70-130	8	20
Chlorobenzene	**19.9**		µg/l		20.0		99	70-130	3	20
Chloroethane	**19.6**		µg/l		20.0		98	70-130	10	20
Chloroform	**22.0**		µg/l		20.0		110	70-130	4	20
Chloromethane	**20.9**		µg/l		20.0		105	70-130	8	20
2-Chlorotoluene	**21.9**		µg/l		20.0		110	70-130	11	20
4-Chlorotoluene	**20.5**		µg/l		20.0		102	70-130	2	20
1,2-Dibromo-3-chloropropane	**21.5**		µg/l		20.0		108	70-130	10	20
Dibromochloromethane	**23.1**		µg/l		20.0		115	70-130	2	20
1,2-Dibromoethane (EDB)	**21.0**		µg/l		20.0		105	70-130	3	20
Dibromomethane	**21.4**		µg/l		20.0		107	70-130	5	20
1,2-Dichlorobenzene	**18.8**		µg/l		20.0		94	70-130	0.4	20
1,3-Dichlorobenzene	**20.8**		µg/l		20.0		104	70-130	0.1	20
1,4-Dichlorobenzene	**17.5**		µg/l		20.0		87	70-130	9	20
Dichlorodifluoromethane (Freon12)	**24.0**		µg/l		20.0		120	70-130	8	20
1,1-Dichloroethane	**22.0**		µg/l		20.0		110	70-130	6	20
1,2-Dichloroethane	**21.2**		µg/l		20.0		106	70-130	4	20
1,1-Dichloroethene	**23.6**		µg/l		20.0		118	70-130	0.5	20
cis-1,2-Dichloroethene	**20.7**		µg/l		20.0		103	70-130	4	20
trans-1,2-Dichloroethene	**21.1**		µg/l		20.0		105	70-130	7	20
1,2-Dichloropropane	**20.8**		µg/l		20.0		104	70-130	4	20
1,3-Dichloropropane	**20.8**		µg/l		20.0		104	70-130	2	20
2,2-Dichloropropane	**20.1**		µg/l		20.0		101	70-130	11	20
1,1-Dichloropropene	**21.3**		µg/l		20.0		107	70-130	8	20
cis-1,3-Dichloropropene	**19.9**		µg/l		20.0		99	70-130	3	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1804359 - SW846 5030 Water MS										
LCS Dup (1804359-BSD1)					Prepared & Analyzed: 02-Apr-18					
trans-1,3-Dichloropropene	**20.7**		µg/l		20.0		103	70-130	3	20
Ethylbenzene	**20.1**		µg/l		20.0		100	70-130	4	20
Hexachlorobutadiene	**16.4**		µg/l		20.0		82	70-130	7	20
2-Hexanone (MBK)	**20.7**		µg/l		20.0		104	70-130	5	20
Isopropylbenzene	**19.7**		µg/l		20.0		99	70-130	4	20
4-Isopropyltoluene	**16.6**		µg/l		20.0		83	70-130	8	20
Methyl tert-butyl ether	**22.4**		µg/l		20.0		112	70-130	2	20
4-Methyl-2-pentanone (MIBK)	**21.9**		µg/l		20.0		110	70-130	1	20
Methylene chloride	**21.6**		µg/l		20.0		108	70-130	6	20
Naphthalene	**18.1**		µg/l		20.0		91	70-130	0.4	20
n-Propylbenzene	**16.2**		µg/l		20.0		81	70-130	14	20
Styrene	**17.8**		µg/l		20.0		89	70-130	0.6	20
1,1,1,2-Tetrachloroethane	**24.6**		µg/l		20.0		123	70-130	1	20
1,1,2,2-Tetrachloroethane	**21.1**		µg/l		20.0		106	70-130	2	20
Tetrachloroethene	**20.0**		µg/l		20.0		100	70-130	5	20
Toluene	**20.6**		µg/l		20.0		103	70-130	7	20
1,2,3-Trichlorobenzene	**17.4**		µg/l		20.0		87	70-130	4	20
1,2,4-Trichlorobenzene	**16.1**		µg/l		20.0		81	70-130	6	20
1,3,5-Trichlorobenzene	**16.2**		µg/l		20.0		81	70-130	4	20
1,1,1-Trichloroethane	**24.7**		µg/l		20.0		124	70-130	11	20
1,1,2-Trichloroethane	**21.6**		µg/l		20.0		108	70-130	2	20
Trichloroethene	**19.6**		µg/l		20.0		98	70-130	11	20
Trichlorofluoromethane (Freon 11)	**24.2**		µg/l		20.0		121	70-130	10	20
1,2,3-Trichloropropane	**22.3**		µg/l		20.0		112	70-130	3	20
1,2,4-Trimethylbenzene	**17.5**		µg/l		20.0		87	70-130	2	20
1,3,5-Trimethylbenzene	**17.2**		µg/l		20.0		86	70-130	6	20
Vinyl chloride	**23.0**		µg/l		20.0		115	70-130	1	20
m,p-Xylene	**20.1**		µg/l		20.0		100	70-130	4	20
o-Xylene	**21.4**		µg/l		20.0		107	70-130	0.4	20
Tetrahydrofuran	**21.6**		µg/l		20.0		108	70-130	4	20
Ethyl ether	**22.4**		µg/l		20.0		112	70-130	0.1	20
Tert-amyl methyl ether	**19.8**		µg/l		20.0		99	70-130	3	20
Ethyl tert-butyl ether	**21.3**		µg/l		20.0		106	70-130	3	20
Di-isopropyl ether	**21.8**		µg/l		20.0		109	70-130	2	20
Tert-Butanol / butyl alcohol	**219**		µg/l		200		109	70-130	2	20
1,4-Dioxane	**177**		µg/l		200		88	70-130	1	20
trans-1,4-Dichloro-2-butene	**18.7**		µg/l		20.0		93	70-130	10	20
Ethanol	**487**		µg/l		400		122	70-130	0.6	20
Surrogate: 4-Bromofluorobenzene	*51.0*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*53.7*		µg/l		*50.0*		*107*	*70-130*		
SW846 8260C TICs										
Batch 1803890 - SW846 5030 Water MS										
Blank (1803890-BLK1)					Prepared & Analyzed: 22-Mar-18					
Tentatively Identified Compounds	**None found**		µg/l							
Batch 1804359 - SW846 5030 Water MS										
Blank (1804359-BLK1)					Prepared & Analyzed: 02-Apr-18					
Tentatively Identified Compounds	**None found**		µg/l							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804025 - SW846 3510C										
Blank (1804025-BLK1)						Prepared: 26-Mar-18 Analyzed: 28-Mar-18				
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804025 - SW846 3510C										
Blank (1804025-BLK1)					Prepared: 26-Mar-18 Analyzed: 28-Mar-18					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*30.1*		µg/l		*50.0*		*60*	*30-130*		
Surrogate: 2-Fluorophenol	*34.9*		µg/l		*50.0*		*70*	*15-110*		
Surrogate: Nitrobenzene-d5	*30.6*		µg/l		*50.0*		*61*	*30-130*		
Surrogate: Phenol-d5	*32.6*		µg/l		*50.0*		*65*	*15-110*		
Surrogate: Terphenyl-dl4	*37.7*		µg/l		*50.0*		*75*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*33.4*		µg/l		*50.0*		*67*	*15-110*		
LCS (1804025-BS1)					Prepared: 26-Mar-18 Analyzed: 29-Mar-18					
Acenaphthene	**34.9**		µg/l	5.10	51.0		68	40-140		
Acenaphthylene	**35.2**		µg/l	5.10	51.0		69	40-140		
Aniline	**10.7**	QC6	µg/l	5.10	51.0		21	40-140		
Anthracene	**35.1**		µg/l	5.10	51.0		69	40-140		
Azobenzene/Diphenyldiazene	**28.7**		µg/l	5.10	51.0		56	40-140		
Benzidine	**15.3**	QC6	µg/l	10.2	51.0		30	40-140		
Benzo (a) anthracene	**34.6**		µg/l	5.10	51.0		68	40-140		
Benzo (a) pyrene	**26.1**		µg/l	5.10	51.0		51	40-140		
Benzo (b) fluoranthene	**30.5**		µg/l	5.10	51.0		60	40-140		
Benzo (g,h,i) perylene	**25.2**		µg/l	5.10	51.0		49	40-140		
Benzo (k) fluoranthene	**18.3**	QC6	µg/l	5.10	51.0		36	40-140		
Benzoic acid	**32.4**		µg/l	5.10	51.0		64	30-130		
Benzyl alcohol	**16.1**	QC6	µg/l	5.10	51.0		32	40-140		
Bis(2-chloroethoxy)methane	**27.7**		µg/l	5.10	51.0		54	40-140		
Bis(2-chloroethyl)ether	**23.8**		µg/l	5.10	51.0		47	40-140		
Bis(2-chloroisopropyl)ether	**24.8**		µg/l	5.10	51.0		49	40-140		
Bis(2-ethylhexyl)phthalate	**29.3**		µg/l	5.10	51.0		57	40-140		
4-Bromophenyl phenyl ether	**37.1**		µg/l	5.10	51.0		73	40-140		
Butyl benzyl phthalate	**29.8**		µg/l	5.10	51.0		58	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804025 - SW846 3510C										
LCS (1804025-BS1)						Prepared: 26-Mar-18 Analyzed: 29-Mar-18				
Carbazole	**30.0**		µg/l	5.10	51.0		59	40-140		
4-Chloro-3-methylphenol	**34.5**		µg/l	5.10	51.0		68	30-130		
4-Chloroaniline	**11.1**	QC6	µg/l	5.10	51.0		22	40-140		
2-Chloronaphthalene	**40.3**		µg/l	5.10	51.0		79	40-140		
2-Chlorophenol	**33.8**		µg/l	5.10	51.0		66	30-130		
4-Chlorophenyl phenyl ether	**37.3**		µg/l	5.10	51.0		73	40-140		
Chrysene	**32.3**		µg/l	5.10	51.0		63	40-140		
Dibenzo (a,h) anthracene	**27.0**		µg/l	5.10	51.0		53	40-140		
Dibenzofuran	**39.4**		µg/l	5.10	51.0		77	40-140		
1,2-Dichlorobenzene	**38.4**		µg/l	5.10	51.0		75	40-140		
1,3-Dichlorobenzene	**37.5**		µg/l	5.10	51.0		73	40-140		
1,4-Dichlorobenzene	**38.1**		µg/l	5.10	51.0		75	40-140		
3,3´-Dichlorobenzidine	**38.1**		µg/l	5.10	51.0		75	40-140		
2,4-Dichlorophenol	**38.6**		µg/l	5.10	51.0		76	30-130		
Diethyl phthalate	**33.1**		µg/l	5.10	51.0		65	40-140		
Dimethyl phthalate	**32.8**		µg/l	5.10	51.0		64	40-140		
2,4-Dimethylphenol	**32.7**		µg/l	5.10	51.0		64	30-130		
Di-n-butyl phthalate	**31.2**		µg/l	5.10	51.0		61	40-140		
4,6-Dinitro-2-methylphenol	**32.6**		µg/l	5.10	51.0		64	30-130		
2,4-Dinitrophenol	**25.8**		µg/l	5.10	51.0		51	30-130		
2,4-Dinitrotoluene	**43.5**		µg/l	5.10	51.0		85	40-140		
2,6-Dinitrotoluene	**43.2**		µg/l	5.10	51.0		85	40-140		
Di-n-octyl phthalate	**22.8**		µg/l	5.10	51.0		45	40-140		
Fluoranthene	**35.6**		µg/l	5.10	51.0		70	40-140		
Fluorene	**34.7**		µg/l	5.10	51.0		68	40-140		
Hexachlorobenzene	**43.4**		µg/l	5.10	51.0		85	40-140		
Hexachlorobutadiene	**41.6**		µg/l	5.10	51.0		81	40-140		
Hexachlorocyclopentadiene	**36.4**		µg/l	5.10	51.0		71	40-140		
Hexachloroethane	**37.5**		µg/l	5.10	51.0		74	40-140		
Indeno (1,2,3-cd) pyrene	**33.2**		µg/l	5.10	51.0		65	40-140		
Isophorone	**29.9**		µg/l	5.10	51.0		59	40-140		
2-Methylnaphthalene	**57.6**		µg/l	5.10	51.0		113	40-140		
2-Methylphenol	**32.0**		µg/l	5.10	51.0		63	30-130		
3 & 4-Methylphenol	**32.0**		µg/l	10.2	51.0		63	30-130		
Naphthalene	**33.0**		µg/l	5.10	51.0		65	40-140		
2-Nitroaniline	**34.7**		µg/l	5.10	51.0		68	40-140		
3-Nitroaniline	**25.8**		µg/l	5.10	51.0		50	40-140		
4-Nitroaniline	**26.5**		µg/l	5.10	51.0		52	40-140		
Nitrobenzene	**37.0**		µg/l	5.10	51.0		72	40-140		
2-Nitrophenol	**36.2**		µg/l	5.10	51.0		71	30-130		
4-Nitrophenol	**44.0**		µg/l	20.4	51.0		86	30-130		
N-Nitrosodimethylamine	**25.2**		µg/l	5.10	51.0		49	40-140		
N-Nitrosodi-n-propylamine	**28.2**		µg/l	5.10	51.0		55	40-140		
N-Nitrosodiphenylamine	**34.3**		µg/l	5.10	51.0		67	40-140		
Pentachlorophenol	**24.8**		µg/l	20.4	51.0		49	30-130		
Phenanthrene	**32.4**		µg/l	5.10	51.0		63	40-140		
Phenol	**30.5**		µg/l	5.10	51.0		60	30-130		
Pyrene	**34.3**		µg/l	5.10	51.0		67	40-140		
Pyridine	**24.9**		µg/l	5.10	51.0		49	40-140		
1,2,4-Trichlorobenzene	**42.4**		µg/l	5.10	51.0		83	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804025 - SW846 3510C										
LCS (1804025-BS1)					Prepared: 26-Mar-18 Analyzed: 29-Mar-18					
1-Methylnaphthalene	**33.5**		µg/l	5.10	51.0		66	40-140		
2,4,5-Trichlorophenol	**41.2**		µg/l	5.10	51.0		81	30-130		
2,4,6-Trichlorophenol	**34.4**		µg/l	5.10	51.0		67	30-130		
Pentachloronitrobenzene	**37.2**		µg/l	5.10	51.0		73	40-140		
1,2,4,5-Tetrachlorobenzene	**38.6**		µg/l	5.10	51.0		76	40-140		
Surrogate: 2-Fluorobiphenyl	*32.9*		µg/l		*51.0*		*65*	*30-130*		
Surrogate: 2-Fluorophenol	*28.9*		µg/l		*51.0*		*57*	*15-110*		
Surrogate: Nitrobenzene-d5	*29.2*		µg/l		*51.0*		*57*	*30-130*		
Surrogate: Phenol-d5	*29.3*		µg/l		*51.0*		*57*	*15-110*		
Surrogate: Terphenyl-dl4	*34.7*		µg/l		*51.0*		*68*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*37.9*		µg/l		*51.0*		*74*	*15-110*		
LCS Dup (1804025-BSD1)					Prepared: 26-Mar-18 Analyzed: 29-Mar-18					
Acenaphthene	**35.4**		µg/l	5.10	51.0		69	40-140	1	20
Acenaphthylene	**35.1**		µg/l	5.10	51.0		69	40-140	0.06	20
Aniline	**12.1**	QC6	µg/l	5.10	51.0		24	40-140	12	20
Anthracene	**36.1**		µg/l	5.10	51.0		71	40-140	3	20
Azobenzene/Diphenyldiazene	**29.0**		µg/l	5.10	51.0		57	40-140	1	20
Benzidine	**18.9**	QC6, QR5	µg/l	10.2	51.0		37	40-140	21	20
Benzo (a) anthracene	**34.9**		µg/l	5.10	51.0		68	40-140	0.8	20
Benzo (a) pyrene	**26.7**		µg/l	5.10	51.0		52	40-140	2	20
Benzo (b) fluoranthene	**34.0**		µg/l	5.10	51.0		67	40-140	11	20
Benzo (g,h,i) perylene	**25.0**		µg/l	5.10	51.0		49	40-140	0.7	20
Benzo (k) fluoranthene	**18.1**	QC6	µg/l	5.10	51.0		35	40-140	1	20
Benzoic acid	**33.2**		µg/l	5.10	51.0		65	30-130	2	20
Benzyl alcohol	**18.2**	QC6	µg/l	5.10	51.0		36	40-140	12	20
Bis(2-chloroethoxy)methane	**28.3**		µg/l	5.10	51.0		56	40-140	2	20
Bis(2-chloroethyl)ether	**24.4**		µg/l	5.10	51.0		48	40-140	3	20
Bis(2-chloroisopropyl)ether	**25.5**		µg/l	5.10	51.0		50	40-140	3	20
Bis(2-ethylhexyl)phthalate	**30.0**		µg/l	5.10	51.0		59	40-140	2	20
4-Bromophenyl phenyl ether	**37.8**		µg/l	5.10	51.0		74	40-140	2	20
Butyl benzyl phthalate	**30.4**		µg/l	5.10	51.0		60	40-140	2	20
Carbazole	**32.9**		µg/l	5.10	51.0		65	40-140	9	20
4-Chloro-3-methylphenol	**35.3**		µg/l	5.10	51.0		69	30-130	2	20
4-Chloroaniline	**12.8**	QC6	µg/l	5.10	51.0		25	40-140	14	20
2-Chloronaphthalene	**40.2**		µg/l	5.10	51.0		79	40-140	0.2	20
2-Chlorophenol	**34.2**		µg/l	5.10	51.0		67	30-130	1	20
4-Chlorophenyl phenyl ether	**37.2**		µg/l	5.10	51.0		73	40-140	0.2	20
Chrysene	**33.2**		µg/l	5.10	51.0		65	40-140	3	20
Dibenzo (a,h) anthracene	**26.4**		µg/l	5.10	51.0		52	40-140	2	20
Dibenzofuran	**39.4**		µg/l	5.10	51.0		77	40-140	0.1	20
1,2-Dichlorobenzene	**38.5**		µg/l	5.10	51.0		76	40-140	0.2	20
1,3-Dichlorobenzene	**35.9**		µg/l	5.10	51.0		70	40-140	4	20
1,4-Dichlorobenzene	**38.1**		µg/l	5.10	51.0		75	40-140	0.1	20
3,3´-Dichlorobenzidine	**38.7**		µg/l	5.10	51.0		76	40-140	2	20
2,4-Dichlorophenol	**38.7**		µg/l	5.10	51.0		76	30-130	0.3	20
Diethyl phthalate	**32.9**		µg/l	5.10	51.0		65	40-140	0.5	20
Dimethyl phthalate	**32.8**		µg/l	5.10	51.0		64	40-140	0	20
2,4-Dimethylphenol	**39.6**		µg/l	5.10	51.0		78	30-130	19	20
Di-n-butyl phthalate	**31.9**		µg/l	5.10	51.0		62	40-140	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804025 - SW846 3510C										
LCS Dup (1804025-BSD1)					Prepared: 26-Mar-18 Analyzed: 29-Mar-18					
4,6-Dinitro-2-methylphenol	**33.1**		µg/l	5.10	51.0		65	30-130	1	20
2,4-Dinitrophenol	**26.3**		µg/l	5.10	51.0		52	30-130	2	20
2,4-Dinitrotoluene	**43.8**		µg/l	5.10	51.0		86	40-140	0.7	20
2,6-Dinitrotoluene	**42.2**		µg/l	5.10	51.0		83	40-140	2	20
Di-n-octyl phthalate	**23.2**		µg/l	5.10	51.0		46	40-140	2	20
Fluoranthene	**36.7**		µg/l	5.10	51.0		72	40-140	3	20
Fluorene	**34.4**		µg/l	5.10	51.0		67	40-140	0.9	20
Hexachlorobenzene	**44.8**		µg/l	5.10	51.0		88	40-140	3	20
Hexachlorobutadiene	**42.3**		µg/l	5.10	51.0		83	40-140	2	20
Hexachlorocyclopentadiene	**36.9**		µg/l	5.10	51.0		72	40-140	1	20
Hexachloroethane	**37.7**		µg/l	5.10	51.0		74	40-140	0.5	20
Indeno (1,2,3-cd) pyrene	**32.9**		µg/l	5.10	51.0		65	40-140	0.6	20
Isophorone	**30.5**		µg/l	5.10	51.0		60	40-140	2	20
2-Methylnaphthalene	**58.0**		µg/l	5.10	51.0		114	40-140	0.7	20
2-Methylphenol	**32.0**		µg/l	5.10	51.0		63	30-130	0.1	20
3 & 4-Methylphenol	**32.9**		µg/l	10.2	51.0		64	30-130	3	20
Naphthalene	**33.5**		µg/l	5.10	51.0		66	40-140	1	20
2-Nitroaniline	**35.0**		µg/l	5.10	51.0		69	40-140	1	20
3-Nitroaniline	**26.8**		µg/l	5.10	51.0		53	40-140	4	20
4-Nitroaniline	**28.1**		µg/l	5.10	51.0		55	40-140	6	20
Nitrobenzene	**37.1**		µg/l	5.10	51.0		73	40-140	0.3	20
2-Nitrophenol	**36.5**		µg/l	5.10	51.0		72	30-130	0.8	20
4-Nitrophenol	**35.4**	QR9	µg/l	20.4	51.0		69	30-130	22	20
N-Nitrosodimethylamine	**25.4**		µg/l	5.10	51.0		50	40-140	0.7	20
N-Nitrosodi-n-propylamine	**28.5**		µg/l	5.10	51.0		56	40-140	0.9	20
N-Nitrosodiphenylamine	**34.6**		µg/l	5.10	51.0		68	40-140	0.9	20
Pentachlorophenol	**26.8**		µg/l	20.4	51.0		52	30-130	8	20
Phenanthrene	**33.1**		µg/l	5.10	51.0		65	40-140	2	20
Phenol	**30.8**		µg/l	5.10	51.0		60	30-130	1	20
Pyrene	**35.0**		µg/l	5.10	51.0		69	40-140	2	20
Pyridine	**25.1**		µg/l	5.10	51.0		49	40-140	0.7	20
1,2,4-Trichlorobenzene	**42.7**		µg/l	5.10	51.0		84	40-140	0.6	20
1-Methylnaphthalene	**34.1**		µg/l	5.10	51.0		67	40-140	2	20
2,4,5-Trichlorophenol	**38.1**		µg/l	5.10	51.0		75	30-130	8	20
2,4,6-Trichlorophenol	**34.4**		µg/l	5.10	51.0		67	30-130	0.09	20
Pentachloronitrobenzene	**37.5**		µg/l	5.10	51.0		74	40-140	1	20
1,2,4,5-Tetrachlorobenzene	**38.9**		µg/l	5.10	51.0		76	40-140	0.7	20
Surrogate: 2-Fluorobiphenyl	*32.9*		µg/l		*51.0*		*64*	*30-130*		
Surrogate: 2-Fluorophenol	*28.8*		µg/l		*51.0*		*56*	*15-110*		
Surrogate: Nitrobenzene-d5	*29.9*		µg/l		*51.0*		*59*	*30-130*		
Surrogate: Phenol-d5	*29.7*		µg/l		*51.0*		*58*	*15-110*		
Surrogate: Terphenyl-dl4	*34.6*		µg/l		*51.0*		*68*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*38.0*		µg/l		*51.0*		*75*	*15-110*		
SW846 8270D TICS										
Batch 1804025 - SW846 3510C										
Blank (1804025-BLK1)					Prepared: 26-Mar-18 Analyzed: 28-Mar-18					
Tentatively Identified Compounds	**None found**		µg/l							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1803912 - SW846 3005A										
Blank (1803912-BLK1)					Prepared: 26-Mar-18 Analyzed: 30-Mar-18					
Iron	**0.0147**	J	mg/l	0.0150						
Potassium	**0.0801**	J	mg/l	0.500						
Calcium	**0.0172**	J	mg/l	5.00						
Cadmium	< 0.0025	U	mg/l	0.0025						
Cobalt	< 0.0050	U	mg/l	0.0050						
Nickel	< 0.0050	U	mg/l	0.0050						
Arsenic	< 0.00400	U	mg/l	0.00400						
Antimony	**0.0019**	J	mg/l	0.0060						
Selenium	< 0.0150	U	mg/l	0.0150						
Thallium	< 0.0050	U	mg/l	0.0050						
Lead	< 0.0075	U	mg/l	0.0075						
Zinc	< 0.0050	U	mg/l	0.0050						
Copper	< 0.0050	U	mg/l	0.0050						
Silver	**0.0007**	J	mg/l	0.0050						
Vanadium	< 0.0050	U	mg/l	0.0050						
Blank (1803912-BLK2)					Prepared: 26-Mar-18 Analyzed: 03-Apr-18					
Sodium	**0.0952**	J	mg/l	5.00						
Aluminum	< 0.0250	U	mg/l	0.0250						
Barium	< 0.0050	U	mg/l	0.0050						
Beryllium	< 0.0020	U	mg/l	0.0020						
Chromium	< 0.0050	U	mg/l	0.0050						
Magnesium	< 5.00	U	mg/l	5.00						
Blank (1803912-BLK3)					Prepared: 26-Mar-18 Analyzed: 04-Apr-18					
Manganese	< 0.0100	U	mg/l	0.0100						
LCS (1803912-BS1)					Prepared: 26-Mar-18 Analyzed: 30-Mar-18					
Iron	**1.28**		mg/l	0.0150	1.25		103	85-115		
Potassium	**12.3**		mg/l	0.500	12.5		99	85-115		
Calcium	**6.04**		mg/l	5.00	6.25		97	85-115		
Zinc	**1.24**		mg/l	0.0050	1.25		99	85-115		
Antimony	**1.21**		mg/l	0.0060	1.25		96	85-115		
Thallium	**1.18**		mg/l	0.0050	1.25		94	85-115		
Selenium	**1.27**		mg/l	0.0150	1.25		101	85-115		
Vanadium	**1.25**		mg/l	0.0050	1.25		100	85-115		
Lead	**1.23**		mg/l	0.0075	1.25		99	85-115		
Nickel	**1.26**		mg/l	0.0050	1.25		100	85-115		
Copper	**1.25**		mg/l	0.0050	1.25		100	85-115		
Cadmium	**1.19**		mg/l	0.0025	1.25		95	85-115		
Silver	**1.19**		mg/l	0.0050	1.25		95	85-115		
Arsenic	**1.220**		mg/l	0.00400	1.25		98	85-115		
Cobalt	**1.23**		mg/l	0.0050	1.25		99	85-115		
LCS (1803912-BS2)					Prepared: 26-Mar-18 Analyzed: 03-Apr-18					
Sodium	**5.90**		mg/l	5.00	6.25		94	85-115		
Aluminum	**1.27**		mg/l	0.0250	1.25		101	85-115		
Barium	**1.32**		mg/l	0.0050	1.25		106	85-115		
Beryllium	**1.41**		mg/l	0.0020	1.25		112	85-115		
Chromium	**1.32**		mg/l	0.0050	1.25		106	85-115		
Magnesium	**1.32**	J	mg/l	5.00	1.25		106	85-115		
LCS (1803912-BS3)					Prepared: 26-Mar-18 Analyzed: 04-Apr-18					
Manganese	**1.21**		mg/l	0.0100	1.25		97	85-115		
LCS Dup (1803912-BSD1)					Prepared: 26-Mar-18 Analyzed: 30-Mar-18					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1803912 - SW846 3005A										
LCS Dup (1803912-BSD1)					Prepared: 26-Mar-18 Analyzed: 30-Mar-18					
Iron	**1.28**		mg/l	0.0150	1.25		102	85-115	0.4	20
Potassium	**12.3**		mg/l	0.500	12.5		99	85-115	0.08	20
Zinc	**1.24**		mg/l	0.0050	1.25		99	85-115	0.3	20
Vanadium	**1.24**		mg/l	0.0050	1.25		99	85-115	0.7	20
Thallium	**1.17**		mg/l	0.0050	1.25		94	85-115	0.2	20
Selenium	**1.27**		mg/l	0.0150	1.25		102	85-115	0.2	20
Silver	**1.19**		mg/l	0.0050	1.25		95	85-115	0.6	20
Antimony	**1.20**		mg/l	0.0060	1.25		96	85-115	0.2	20
Lead	**1.23**		mg/l	0.0075	1.25		98	85-115	0.4	20
Nickel	**1.25**		mg/l	0.0050	1.25		100	85-115	0.3	20
Copper	**1.25**		mg/l	0.0050	1.25		100	85-115	0.2	20
Cobalt	**1.23**		mg/l	0.0050	1.25		98	85-115	0.3	20
Cadmium	**1.19**		mg/l	0.0025	1.25		95	85-115	0.4	20
Calcium	**6.02**		mg/l	5.00	6.25		96	85-115	0.3	20
Arsenic	**1.222**		mg/l	0.00400	1.25		98	85-115	0.2	20
LCS Dup (1803912-BSD2)					Prepared: 26-Mar-18 Analyzed: 03-Apr-18					
Sodium	**5.88**		mg/l	5.00	6.25		94	85-115	0.3	20
Beryllium	**1.40**		mg/l	0.0020	1.25		112	85-115	0.6	20
Magnesium	**1.32**	J	mg/l	5.00	1.25		105	85-115	0.3	20
Chromium	**1.31**		mg/l	0.0050	1.25		105	85-115	0.8	20
Aluminum	**1.26**		mg/l	0.0250	1.25		101	85-115	0.6	20
Barium	**1.32**		mg/l	0.0050	1.25		106	85-115	0.2	20
LCS Dup (1803912-BSD3)					Prepared: 26-Mar-18 Analyzed: 04-Apr-18					
Manganese	**1.28**		mg/l	0.0100	1.25		102	85-115	5	20
Duplicate (1803912-DUP1)			**Source: SC44935-01**		Prepared: 26-Mar-18 Analyzed: 30-Mar-18					
Iron	**0.0725**		mg/l	0.0150		0.0706			3	20
Potassium	**5.92**		mg/l	0.500		5.90			0.4	20
Lead	< 0.0075	U	mg/l	0.0075		BRL				20
Zinc	**0.0156**		mg/l	0.0050		0.0138			12	20
Vanadium	**0.0026**	J	mg/l	0.0050		0.0027			4	20
Thallium	< 0.0050	U	mg/l	0.0050		BRL				20
Nickel	**0.0012**	J	mg/l	0.0050		0.0010			13	20
Antimony	**0.0066**		mg/l	0.0060		0.0065			0.8	20
Copper	**0.0064**		mg/l	0.0050		0.0064			0.8	20
Cobalt	< 0.0050	U	mg/l	0.0050		BRL				20
Cadmium	< 0.0025	U	mg/l	0.0025		0.0004				20
Arsenic	< 0.00400	U	mg/l	0.00400		BRL				20
Silver	< 0.0050	U	mg/l	0.0050		BRL				20
Selenium	**0.0064**	J	mg/l	0.0150		0.0066			3	20
Calcium	**131**	R06	mg/l	5.00		133			1	20
Duplicate (1803912-DUP2)			**Source: SC44935-01**		Prepared: 26-Mar-18 Analyzed: 03-Apr-18					
Sodium	**1320**	GS1, R06, D	mg/l	100		1330			0.5	20
Magnesium	**17.8**	R06	mg/l	5.00		17.7			0.5	20
Beryllium	**0.0006**	QR8, J	mg/l	0.0020		0.0004			46	20
Chromium	**0.0037**	J	mg/l	0.0050		0.0032			16	20
Barium	**0.226**		mg/l	0.0050		0.230			2	20
Aluminum	**0.0517**	QR8	mg/l	0.0250		0.0682			28	20
Duplicate (1803912-DUP3)			**Source: SC44935-01**		Prepared: 26-Mar-18 Analyzed: 04-Apr-18					
Manganese	< 0.0100	R06, U	mg/l	0.0100		BRL				20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1803912 - SW846 3005A										
Matrix Spike (1803912-MS1)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 30-Mar-18				
Potassium	**21.5**		mg/l	0.500	12.5	9.14	99	75-125		
Iron	**1.31**		mg/l	0.0150	1.25	0.102	97	75-125		
Cadmium	**1.10**		mg/l	0.0025	1.25	BRL	88	75-125		
Cobalt	**1.15**		mg/l	0.0050	1.25	BRL	92	75-125		
Calcium	**178**	QM2	mg/l	5.00	6.25	176	46	75-125		
Copper	**1.31**		mg/l	0.0050	1.25	0.0067	104	75-125		
Nickel	**1.16**		mg/l	0.0050	1.25	0.0016	92	75-125		
Zinc	**1.15**		mg/l	0.0050	1.25	0.0042	92	75-125		
Vanadium	**1.21**		mg/l	0.0050	1.25	BRL	97	70-130		
Antimony	**1.28**		mg/l	0.0060	1.25	0.0022	102	75-125		
Arsenic	**1.304**		mg/l	0.00400	1.25	BRL	104	75-125		
Lead	**1.13**		mg/l	0.0075	1.25	BRL	90	75-125		
Thallium	**1.09**		mg/l	0.0050	1.25	BRL	87	75-125		
Selenium	**1.35**		mg/l	0.0150	1.25	BRL	108	75-125		
Silver	**1.28**		mg/l	0.0050	1.25	BRL	102	75-125		
Matrix Spike (1803912-MS2)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 03-Apr-18				
Sodium	**417**	QM2, D	mg/l	50.0	6.25	409	129	75-125		
Magnesium	**31.4**		mg/l	5.00	1.25	30.0	113	75-125		
Chromium	**1.31**		mg/l	0.0050	1.25	0.0017	104	75-125		
Beryllium	**1.43**		mg/l	0.0020	1.25	BRL	114	75-125		
Barium	**2.01**		mg/l	0.0050	1.25	0.680	107	75-125		
Aluminum	**1.46**		mg/l	0.0250	1.25	0.0330	114	75-125		
Matrix Spike (1803912-MS3)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 04-Apr-18				
Manganese	**1.22**		mg/l	0.0100	1.25	0.0154	97	75-125		
Matrix Spike Dup (1803912-MSD1)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 30-Mar-18				
Iron	**1.29**		mg/l	0.0150	1.25	0.102	95	75-125	2	20
Potassium	**21.7**		mg/l	0.500	12.5	9.14	101	75-125	0.8	20
Copper	**1.33**		mg/l	0.0050	1.25	0.0067	106	75-125	2	20
Cobalt	**1.17**		mg/l	0.0050	1.25	BRL	93	75-125	2	20
Calcium	**177**	QM2	mg/l	5.00	6.25	176	18	75-125	1	20
Thallium	**1.10**		mg/l	0.0050	1.25	BRL	88	75-125	1	20
Cadmium	**1.11**		mg/l	0.0025	1.25	BRL	89	75-125	1	20
Nickel	**1.17**		mg/l	0.0050	1.25	0.0016	94	75-125	2	20
Arsenic	**1.328**		mg/l	0.00400	1.25	BRL	106	75-125	2	20
Selenium	**1.38**		mg/l	0.0150	1.25	BRL	110	75-125	2	20
Vanadium	**1.22**		mg/l	0.0050	1.25	BRL	98	70-130	1	20
Zinc	**1.16**		mg/l	0.0050	1.25	0.0042	93	75-125	1	20
Antimony	**1.31**		mg/l	0.0060	1.25	0.0022	104	75-125	2	20
Silver	**1.29**		mg/l	0.0050	1.25	BRL	103	75-125	1	20
Lead	**1.14**		mg/l	0.0075	1.25	BRL	92	75-125	1	20
Matrix Spike Dup (1803912-MSD2)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 03-Apr-18				
Sodium	**423**	QM2, D	mg/l	50.0	6.25	409	211	75-125	1	20
Magnesium	**31.0**		mg/l	5.00	1.25	30.0	83	75-125	1	20
Chromium	**1.31**		mg/l	0.0050	1.25	0.0017	104	75-125	0.08	20
Beryllium	**1.43**		mg/l	0.0020	1.25	BRL	114	75-125	0.1	20
Barium	**1.95**		mg/l	0.0050	1.25	0.680	102	75-125	3	20
Aluminum	**1.43**		mg/l	0.0250	1.25	0.0330	112	75-125	2	20
Matrix Spike Dup (1803912-MSD3)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 04-Apr-18				
Manganese	**1.22**		mg/l	0.0100	1.25	0.0154	96	75-125	0.6	20
Post Spike (1803912-PS1)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 30-Mar-18				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1803912 - SW846 3005A										
Post Spike (1803912-PS1)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 30-Mar-18				
Potassium	**22.3**		mg/l	0.500	12.5	9.14	105	80-120		
Iron	**1.37**		mg/l	0.0150	1.25	0.102	101	80-120		
Copper	**1.35**		mg/l	0.0050	1.25	0.0067	108	80-120		
Cobalt	**1.20**		mg/l	0.0050	1.25	BRL	96	80-120		
Silver	**1.33**		mg/l	0.0050	1.25	BRL	107	80-120		
Calcium	**184**	QM2	mg/l	5.00	6.25	176	139	80-120		
Selenium	**1.40**		mg/l	0.0150	1.25	BRL	112	80-120		
Arsenic	**1.358**		mg/l	0.00400	1.25	BRL	109	80-120		
Nickel	**1.20**		mg/l	0.0050	1.25	0.0016	96	80-120		
Cadmium	**1.14**		mg/l	0.0025	1.25	BRL	92	80-120		
Antimony	**1.33**		mg/l	0.0060	1.25	0.0022	106	80-120		
Thallium	**1.14**		mg/l	0.0050	1.25	BRL	91	80-120		
Vanadium	**1.26**		mg/l	0.0050	1.25	BRL	101	80-120		
Zinc	**1.20**		mg/l	0.0050	1.25	0.0042	96	80-120		
Lead	**1.17**		mg/l	0.0075	1.25	BRL	94	80-120		
Post Spike (1803912-PS2)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 03-Apr-18				
Sodium	**435**	QM2, D	mg/l	50.0	6.25	409	414	80-120		
Chromium	**1.36**		mg/l	0.0050	1.25	0.0017	109	80-120		
Beryllium	**1.49**		mg/l	0.0020	1.25	BRL	119	80-120		
Barium	**2.05**		mg/l	0.0050	1.25	0.680	110	80-120		
Aluminum	**1.54**		mg/l	0.0250	1.25	0.0330	120	80-120		
Magnesium	**31.8**	QM2	mg/l	5.00	1.25	30.0	147	80-120		
Post Spike (1803912-PS3)			**Source: SC44935-02**			Prepared: 26-Mar-18 Analyzed: 04-Apr-18				
Manganese	**1.22**		mg/l	0.0100	1.25	0.0154	96	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA 245.1/7470A										
Batch 1803913 - EPA200/SW7000 Series										
Blank (1803913-BLK1)						Prepared: 26-Mar-18 Analyzed: 27-Mar-18				
Mercury	< 0.00020	U	mg/l	0.00020						
LCS (1803913-BS1)						Prepared: 26-Mar-18 Analyzed: 27-Mar-18				
Mercury	**0.00472**		mg/l	0.00020	0.00500		94	85-115		
Duplicate (1803913-DUP1)			**Source: SC44935-03**			Prepared: 26-Mar-18 Analyzed: 27-Mar-18				
Mercury	< 0.00020	U	mg/l	0.00020		BRL				20
Matrix Spike (1803913-MS1)			**Source: SC44935-03**			Prepared: 26-Mar-18 Analyzed: 27-Mar-18				
Mercury	**0.00503**		mg/l	0.00020	0.00500	BRL	101	80-120		
Matrix Spike Dup (1803913-MSD1)			**Source: SC44935-03**			Prepared: 26-Mar-18 Analyzed: 27-Mar-18				
Mercury	**0.00505**		mg/l	0.00020	0.00500	BRL	101	80-120	0.5	20
Post Spike (1803913-PS1)			**Source: SC44935-03**			Prepared: 26-Mar-18 Analyzed: 27-Mar-18				
Mercury	**0.00498**		mg/l	0.00020	0.00500	BRL	100	85-115		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J N	(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the 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.
QR5	RPD out of acceptance range.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R06	MRL raised to correlate to batch QC reporting limits.
U	Analyte included in the analysis, but not detected at or above the MDL.
Z-2	Surrogates were out of acceptance criteria, but no extra volume was provided by the client for re-extraction.
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.

SC 44935

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [X] 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: AECOM
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECOM
cbeck@aecomgroup.com

P.O No.: _____ Quote #: _____

Project No: 18-051
Site Name: 700 at Parcel
Location: Syracuse State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below: 2		4	Analysis: 8260 TCL VOCs	8270 TCL SVOCs	6010/7470 TAL Metals	Check if chlorinated
44935-01	MW-5 (2018-03-19)	3/19/18	1100	G	GW	3	1		1				X	X	X	☐
-02	MW-7 (2018-03-19)	3/19/18	1200	G	GW	3	1		1				X	X	X	☐
-03	MW-8 (2018-03-19)	3/19/18	1354	G	GW	3	1		1				X	X	X	☐
-04	MW-9 (2018-03-19)	3/19/18	1310	G	GW	3	1		1				X	X	X	☐
-05	MW-D (2018-03-19)	3/19/18	-	G	GW	3	1		1				X	X	X	☐
-06	Trip Blank	-	-	-	-	2							X			☐
																☐
																☐
																☐
																☐
																☐

QA/QC Reporting Notes:
* additional charges may appply

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

Relinquished by:	Received by:	Date:	Time:
Drew Brantner	FedEx	3/19/18	
Fedex	Rec	3/20/18	1135

Temp °C
Observed: 5.6
Correction Factor: 0
Corrected: 5.6
IR ID #: 2

☒ EDD format: PDF, Excel
☒ E-mail to: rmckenna@aecomgroup.com
dbrantner@aecomgroup.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

FedEx Express Package US Airbill

FedEx Tracking Number 8116 7330 4656

Form ID No. 0200

Recipient's Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1A 1B 1C 2A 2B

1 From

Date 2/11/15

Sender's Name Drew Bratner Phone 315 432-9400

Company AECC

Address 6308 Fly Rd Dept/Floor/Suite/Room

City East Syracuse State NY ZIP 13057

2 Your Internal Billing Reference

18-051

3 To

Recipient's Name Sample Receiving Phone 413 789-9018

Company Eurofins / Spectrum Analytical

Address 11 Almgren Dr Dept/Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA ZIP 01001

☐ Hold Weekday
FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

☐ Hold Saturday
FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

8116 7330 4656

4 Express Package Service

* To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☒ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

5 Packaging

* Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required
Package may be left without obtaining a signature for delivery.

☐ Direct Signature
Someone at recipient's address may sign for delivery.

☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender Acct. No. in Section will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages 1 Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Batch Summary

1803871

Total Metals by EPA 200/6000 Series Methods

SC44935-01 (MW-5 (2018-03-19))
SC44935-02 (MW-7 (2018-03-19))
SC44935-03 (MW-8 (2018-03-19))
SC44935-04 (MW-9 (2018-03-19))
SC44935-05 (MW-D (2018-03-19))

1803890

Volatile Organic Compounds

1803890-BLK1
1803890-BS1
1803890-BSD1
SC44935-02 (MW-7 (2018-03-19))
SC44935-03 (MW-8 (2018-03-19))
SC44935-04 (MW-9 (2018-03-19))
SC44935-05 (MW-D (2018-03-19))
SC44935-06 (Trip Blank)

1803912

Total Metals by EPA 6000/7000 Series Methods

1803912-BLK1
1803912-BLK2
1803912-BLK3
1803912-BS1
1803912-BS2
1803912-BS3
1803912-BSD1
1803912-BSD2
1803912-BSD3
1803912-DUP1
1803912-DUP2
1803912-DUP3
1803912-MS1
1803912-MS2
1803912-MS3
1803912-MSD1
1803912-MSD2
1803912-MSD3
1803912-PS1
1803912-PS2
1803912-PS3
SC44935-01 (MW-5 (2018-03-19))
SC44935-02 (MW-7 (2018-03-19))
SC44935-03 (MW-8 (2018-03-19))
SC44935-04 (MW-9 (2018-03-19))
SC44935-05 (MW-D (2018-03-19))

1803913

Total Metals by EPA 200 Series Methods

1803913-BLK1
1803913-BS1
1803913-DUP1
1803913-MS1
1803913-MSD1
1803913-PS1
SC44935-01 (MW-5 (2018-03-19))
SC44935-02 (MW-7 (2018-03-19))
SC44935-03 (MW-8 (2018-03-19))
SC44935-04 (MW-9 (2018-03-19))
SC44935-05 (MW-D (2018-03-19))

1804025

Semivolatile Organic Compounds by GCMS

1804025-BLK1
1804025-BS1
1804025-BSD1
SC44935-01 (MW-5 (2018-03-19))
SC44935-03 (MW-8 (2018-03-19))

1804359

Volatile Organic Compounds

1804359-BLK1
1804359-BS1
1804359-BSD1
SC44935-01 (MW-5 (2018-03-19))

S815859

Semivolatile Organic Compounds by GCMS

S815859-CAL1
S815859-CAL2
S815859-CAL3
S815859-CAL4
S815859-CAL5
S815859-CAL6
S815859-CAL7
S815859-CAL8
S815859-CAL9
S815859-CALA
S815859-ICV1
S815859-LCV1
S815859-LCV2
S815859-TUN1

S816932

Semivolatile Organic Compounds by GCMS

S816932-CAL1
S816932-CAL2
S816932-CAL3
S816932-CAL4
S816932-CAL5
S816932-CAL6
S816932-CAL7
S816932-CAL8
S816932-CAL9
S816932-ICV1
S816932-LCV1
S816932-LCV2
S816932-TUN1

S817144

Volatile Organic Compounds

S817144-CAL1
S817144-CAL2
S817144-CAL3
S817144-CAL4
S817144-CAL5
S817144-CAL6
S817144-CAL7
S817144-CAL8
S817144-CAL9
S817144-ICV1
S817144-LCV1
S817144-TUN1

S817373

Volatile Organic Compounds

S817373-CAL1
S817373-CAL2
S817373-CAL3
S817373-CAL4
S817373-CAL5
S817373-CAL6
S817373-CAL7
S817373-CAL8
S817373-CAL9
S817373-ICV1
S817373-LCV1
S817373-LCV2
S817373-TUN1

S817892

Volatile Organic Compounds

S817892-CCV1
S817892-TUN1

S818075

Semivolatile Organic Compounds by GCMS

S818075-CCV1
S818075-TUN1

S818116

Semivolatile Organic Compounds by GCMS

S818116-CCV1
S818116-TUN1

S818132

Volatile Organic Compounds

S818132-CCV1
S818132-TUN1

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
04-Apr-18 16:46

Laboratory Report
SC45319

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 700 Out Parcel - Syracuse, NY
Project #: 18-051

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

Dawn E Wojcik

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

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

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

Sample Summary

Work Order: SC45319

Project: 700 Out Parcel - Syracuse, NY

Project Number: 18-051

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC45319-01	MW-7 (2018-04-02)	Ground Water	02-Apr-18 10:01	03-Apr-18 10:30
SC45319-02	MW-9 (2018-04-02)	Ground Water	02-Apr-18 10:54	03-Apr-18 10:30
SC45319-03	MW-D (2018-04-02)	Ground Water	02-Apr-18 00:00	03-Apr-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 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

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

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

SW846 8270D

Calibration:

1801047

Analyte quantified by quadratic equation type calibration.

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

This affected the following samples:

1804437-BLK1
1804437-BS1
1804437-BSD1
MW-7 (2018-04-02)
MW-9 (2018-04-02)
MW-D (2018-04-02)
S815859-ICV1
S818202-CCV1

Laboratory Control Samples:

1804437 BS/BSD

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

MW-7 (2018-04-02)
MW-9 (2018-04-02)
MW-D (2018-04-02)

Phenol percent recoveries (27/28) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-7 (2018-04-02)
MW-9 (2018-04-02)
MW-D (2018-04-02)

SW846 8270D

Laboratory Control Samples:

1804437 BS/BSD

Pyridine percent recoveries (24/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-7 (2018-04-02)
MW-9 (2018-04-02)
MW-D (2018-04-02)

1804437 BSD

Benzidine RPD 38% (20%) is outside individual acceptance criteria.

Pyridine RPD 39% (20%) is outside individual acceptance criteria.

1804437-BS1

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

Aniline
Phenol
Pyridine

1804437-BSD1

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

Phenol
Pyridine

Samples:

S818202-CCV1

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

4-Chloroaniline (-31.1%)
Aniline (-43.9%)
Benzo (a) pyrene (29.9%)
Benzo (b) fluoranthene (44.6%)
Benzo (g,h,i) perylene (27.4%)
Dibenzo (a,h) anthracene (32.3%)
Di-n-octyl phthalate (39.0%)
Indeno (1,2,3-cd) pyrene (28.0%)

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

2,4-Dinitrophenol (39.2%)
4,6-Dinitro-2-methylphenol (40.8%)

This affected the following samples:

1804437-BLK1
1804437-BS1
1804437-BSD1
MW-7 (2018-04-02)
MW-9 (2018-04-02)
MW-D (2018-04-02)

SC45319-02 *MW-9 (2018-04-02)*

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

2-Fluorobiphenyl

SW846 8270D

Samples:

SC45319-03 *MW-D (2018-04-02)*

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

2-Fluorobiphenyl

SW846 8270D TICS

Blanks:

1804437-BLK1

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Cyclododecane
n-Hexadecanoic Acid
Propanoic acid, 3,3'-thiobi...

Samples:

SC45319-01 *MW-7 (2018-04-02)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

9-Octadecenamide, (Z)- (01)

SC45319-02 *MW-9 (2018-04-02)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

13-Docosenamide, (Z)-

SC45319-03 *MW-D (2018-04-02)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

13-Docosenamide, (Z)-

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	700 Out Parcel - Syracuse, NY / 18-051
Work Order:	SC45319
Sample(s) received on:	4/3/2018

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

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

Summary of Hits

Lab ID: SC45319-01 **Client ID:** MW-7 (2018-04-02)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Bis(2-ethylhexyl)phthalate	1.03	J	4.85	µg/l	SW846 8270D
Di-n-butyl phthalate	9.37		4.85	µg/l	SW846 8270D
Di-n-octyl phthalate	54.0		4.85	µg/l	SW846 8270D

Lab ID: SC45319-02 **Client ID:** MW-9 (2018-04-02)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Bis(2-ethylhexyl)phthalate	1.23	J	4.85	µg/l	SW846 8270D
Di-n-butyl phthalate	8.37		4.85	µg/l	SW846 8270D
Di-n-octyl phthalate	2.36	J	4.85	µg/l	SW846 8270D

Lab ID: SC45319-03 **Client ID:** MW-D (2018-04-02)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Bis(2-ethylhexyl)phthalate	0.841	J	4.84	µg/l	SW846 8270D
Di-n-butyl phthalate	8.38		4.84	µg/l	SW846 8270D
Di-n-octyl phthalate	1.59	J	4.84	µg/l	SW846 8270D

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	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-04-02)	18-051	Ground Water	02-Apr-18 10:01	03-Apr-18
SC45319-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	0.671	1	SW846 8270D	03-Apr-18	04-Apr-18	MSL	1804437	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	0.663	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	1.72	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	0.590	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.85	U	µg/l	4.85	0.726	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	1.11	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.520	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.546	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.424	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.515	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.466	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.85	U	µg/l	4.85	0.512	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	0.757	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.85	U	µg/l	4.85	0.647	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	0.713	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.85	U	µg/l	4.85	0.755	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	**1.03**	J	µg/l	4.85	0.619	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.584	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.425	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.486	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.09	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	0.573	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	0.726	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.585	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.517	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.437	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	0.718	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.546	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.628	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.596	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.85	U	µg/l	4.85	1.93	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.515	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	0.605	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	0.736	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	0.634	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	**9.37**		µg/l	4.85	0.444	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85	0.310	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.85	U	µg/l	4.85	0.545	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85	0.653	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85	0.576	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-04-02)	18-051	Ground Water	02-Apr-18 10:01	03-Apr-18
SC45319-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	**54.0**		µg/l	4.85	0.394	1	SW846 8270D	03-Apr-18	04-Apr-18	MSL	1804437	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.619	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.594	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	0.554	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	0.377	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.01	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.85	U	µg/l	4.85	0.620	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.563	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.569	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.85	U	µg/l	4.85	0.557	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	0.646	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	0.597	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.85	U	µg/l	4.85	0.665	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.588	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.527	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.363	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.85	U	µg/l	4.85	0.670	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.451	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.4	U	µg/l	19.4	0.814	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.653	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85	0.561	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.632	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.362	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	0.569	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	0.626	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.592	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.795	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	0.667	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.85	U	µg/l	4.85	0.712	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.505	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.503	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.676	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	0.704	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*32*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*30*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*42*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*19*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*48*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*46*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
000301-02-0	9-Octadecenamide, (Z)-(01)	**8.0**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-04-02)	18-051	Ground Water	02-Apr-18 10:54	03-Apr-18
SC45319-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.85	U	µg/l	4.85	0.671	1	SW846 8270D	03-Apr-18	04-Apr-18	MSL	1804437	X
208-96-8	Acenaphthylene	< 4.85	U	µg/l	4.85	0.663	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.85	U	µg/l	4.85	1.72	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.85	U	µg/l	4.85	0.590	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.85	U	µg/l	4.85	0.726	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.71	U	µg/l	9.71	1.11	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.85	U	µg/l	4.85	0.520	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.85	U	µg/l	4.85	0.546	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85	0.424	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85	0.515	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85	0.466	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.85	U	µg/l	4.85	0.512	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.85	U	µg/l	4.85	0.757	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.85	U	µg/l	4.85	0.647	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85	0.713	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.85	U	µg/l	4.85	0.755	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	1.23	J	µg/l	4.85	0.619	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.584	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.85	U	µg/l	4.85	0.425	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.85	U	µg/l	4.85	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85	0.486	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.85	U	µg/l	4.85	1.09	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.85	U	µg/l	4.85	0.573	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.85	U	µg/l	4.85	0.726	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85	0.585	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.85	U	µg/l	4.85	0.517	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85	0.437	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.85	U	µg/l	4.85	0.718	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.546	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.628	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85	0.596	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.85	U	µg/l	4.85	1.93	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.85	U	µg/l	4.85	0.515	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.85	U	µg/l	4.85	0.605	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.85	U	µg/l	4.85	0.736	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.85	U	µg/l	4.85	0.634	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	8.37		µg/l	4.85	0.444	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85	0.310	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.85	U	µg/l	4.85	0.545	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85	0.653	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85	0.576	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-04-02)	18-051	Ground Water	02-Apr-18 10:54	03-Apr-18
SC45319-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	**2.36**	J	µg/l	4.85	0.394	1	SW846 8270D	03-Apr-18	04-Apr-18	MSL	1804437	X
206-44-0	Fluoranthene	< 4.85	U	µg/l	4.85	0.619	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.85	U	µg/l	4.85	0.594	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.85	U	µg/l	4.85	0.554	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.85	U	µg/l	4.85	0.377	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85	1.01	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.85	U	µg/l	4.85	0.620	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85	0.563	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.85	U	µg/l	4.85	0.569	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.85	U	µg/l	4.85	0.557	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.85	U	µg/l	4.85	0.646	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.71	U	µg/l	9.71	0.597	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.85	U	µg/l	4.85	0.665	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.85	U	µg/l	4.85	0.588	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.85	U	µg/l	4.85	0.527	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.85	U	µg/l	4.85	0.363	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.85	U	µg/l	4.85	0.670	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.85	U	µg/l	4.85	0.451	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.4	U	µg/l	19.4	0.814	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85	0.653	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85	0.561	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85	0.632	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.4	U	µg/l	19.4	0.362	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.85	U	µg/l	4.85	0.569	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.85	U	µg/l	4.85	0.626	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.85	U	µg/l	4.85	0.592	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.85	U	µg/l	4.85	0.795	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85	0.667	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.85	U	µg/l	4.85	0.712	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85	0.505	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85	0.503	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.85	U	µg/l	4.85	0.676	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85	0.704	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*24*	SBN		*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*23*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*31*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*15*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*37*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*33*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
000112-84-5	13-Docosenamide, (Z)-	**4.8**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-04-02)	18-051	Ground Water	02-Apr-18 00:00	03-Apr-18
SC45319-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.84	U	µg/l	4.84	0.668	1	SW846 8270D	03-Apr-18	04-Apr-18	MSL	1804437	X
208-96-8	Acenaphthylene	< 4.84	U	µg/l	4.84	0.661	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.84	U	µg/l	4.84	1.71	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.84	U	µg/l	4.84	0.588	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.84	U	µg/l	4.84	0.723	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.67	U	µg/l	9.67	1.11	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.84	U	µg/l	4.84	0.518	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.84	U	µg/l	4.84	0.544	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.84	U	µg/l	4.84	0.423	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.84	U	µg/l	4.84	0.513	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.84	U	µg/l	4.84	0.464	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.84	U	µg/l	4.84	0.510	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.84	U	µg/l	4.84	0.754	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.84	U	µg/l	4.84	0.644	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.84	U	µg/l	4.84	0.710	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.84	U	µg/l	4.84	0.752	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	**0.841**	J	µg/l	4.84	0.617	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.84	U	µg/l	4.84	0.582	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.84	U	µg/l	4.84	0.424	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.84	U	µg/l	4.84	1.51	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.84	U	µg/l	4.84	0.485	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.84	U	µg/l	4.84	1.08	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.84	U	µg/l	4.84	0.571	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.84	U	µg/l	4.84	0.723	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.84	U	µg/l	4.84	0.583	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.84	U	µg/l	4.84	0.515	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.84	U	µg/l	4.84	0.435	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.84	U	µg/l	4.84	0.716	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.84	U	µg/l	4.84	0.544	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.84	U	µg/l	4.84	0.626	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.84	U	µg/l	4.84	0.594	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.84	U	µg/l	4.84	1.92	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.84	U	µg/l	4.84	0.513	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.84	U	µg/l	4.84	0.603	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.84	U	µg/l	4.84	0.733	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.84	U	µg/l	4.84	0.632	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	**8.38**		µg/l	4.84	0.442	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.84	U	µg/l	4.84	0.309	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.84	U	µg/l	4.84	0.543	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.84	U	µg/l	4.84	0.651	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.84	U	µg/l	4.84	0.574	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-04-02)	18-051	Ground Water	02-Apr-18 00:00	03-Apr-18
SC45319-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	1.59	J	µg/l	4.84	0.393	1	SW846 8270D	03-Apr-18	04-Apr-18	MSL	1804437	X
206-44-0	Fluoranthene	< 4.84	U	µg/l	4.84	0.617	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.84	U	µg/l	4.84	0.592	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.84	U	µg/l	4.84	0.552	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.84	U	µg/l	4.84	0.375	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.84	U	µg/l	4.84	1.00	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.84	U	µg/l	4.84	0.618	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.84	U	µg/l	4.84	0.561	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.84	U	µg/l	4.84	0.567	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.84	U	µg/l	4.84	0.555	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.84	U	µg/l	4.84	0.643	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.67	U	µg/l	9.67	0.595	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.84	U	µg/l	4.84	0.662	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.84	U	µg/l	4.84	0.586	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.84	U	µg/l	4.84	0.525	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.84	U	µg/l	4.84	0.362	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.84	U	µg/l	4.84	0.667	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.84	U	µg/l	4.84	0.450	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.3	U	µg/l	19.3	0.810	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.84	U	µg/l	4.84	0.651	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.84	U	µg/l	4.84	0.559	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.84	U	µg/l	4.84	0.630	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.3	U	µg/l	19.3	0.361	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.84	U	µg/l	4.84	0.567	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.84	U	µg/l	4.84	0.624	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.84	U	µg/l	4.84	0.590	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.84	U	µg/l	4.84	0.792	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.84	U	µg/l	4.84	0.664	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.84	U	µg/l	4.84	0.709	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.84	U	µg/l	4.84	0.503	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.84	U	µg/l	4.84	0.501	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.84	U	µg/l	4.84	0.673	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.84	U	µg/l	4.84	0.701	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*29*	SBN		*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*26*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*37*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*16*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*43*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*40*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
000112-84-5	13-Docosenamide, (Z)-	5.6	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	

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Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804437 - SW846 3510C										
Blank (1804437-BLK1)					Prepared: 03-Apr-18 Analyzed: 04-Apr-18					
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804437 - SW846 3510C										
Blank (1804437-BLK1)					Prepared: 03-Apr-18 Analyzed: 04-Apr-18					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*26.6*		µg/l		*50.0*		*53*	*30-130*		
Surrogate: 2-Fluorophenol	*22.1*		µg/l		*50.0*		*44*	*15-110*		
Surrogate: Nitrobenzene-d5	*32.2*		µg/l		*50.0*		*64*	*30-130*		
Surrogate: Phenol-d5	*14.5*		µg/l		*50.0*		*29*	*15-110*		
Surrogate: Terphenyl-dl4	*37.9*		µg/l		*50.0*		*76*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*35.5*		µg/l		*50.0*		*71*	*15-110*		
LCS (1804437-BS1)					Prepared: 03-Apr-18 Analyzed: 04-Apr-18					
Acenaphthene	**27.0**		µg/l	5.00	50.0		54	40-140		
Acenaphthylene	**26.6**		µg/l	5.00	50.0		53	40-140		
Aniline	**18.2**	QC6	µg/l	5.00	50.0		36	40-140		
Anthracene	**33.3**		µg/l	5.00	50.0		67	40-140		
Azobenzene/Diphenyldiazene	**29.1**		µg/l	5.00	50.0		58	40-140		
Benzidine	**35.4**		µg/l	10.0	50.0		71	40-140		
Benzo (a) anthracene	**32.0**		µg/l	5.00	50.0		64	40-140		
Benzo (a) pyrene	**31.9**		µg/l	5.00	50.0		64	40-140		
Benzo (b) fluoranthene	**32.7**		µg/l	5.00	50.0		65	40-140		
Benzo (g,h,i) perylene	**30.2**		µg/l	5.00	50.0		60	40-140		
Benzo (k) fluoranthene	**33.0**		µg/l	5.00	50.0		66	40-140		
Benzoic acid	**20.2**		µg/l	5.00	50.0		40	30-130		
Benzyl alcohol	**29.2**		µg/l	5.00	50.0		58	40-140		
Bis(2-chloroethoxy)methane	**23.5**		µg/l	5.00	50.0		47	40-140		
Bis(2-chloroethyl)ether	**24.1**		µg/l	5.00	50.0		48	40-140		
Bis(2-chloroisopropyl)ether	**22.1**		µg/l	5.00	50.0		44	40-140		
Bis(2-ethylhexyl)phthalate	**33.3**		µg/l	5.00	50.0		67	40-140		
4-Bromophenyl phenyl ether	**31.5**		µg/l	5.00	50.0		63	40-140		
Butyl benzyl phthalate	**32.9**		µg/l	5.00	50.0		66	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804437 - SW846 3510C										
LCS (1804437-BS1)						Prepared: 03-Apr-18 Analyzed: 04-Apr-18				
Carbazole	**50.6**		µg/l	5.00	50.0		101	40-140		
4-Chloro-3-methylphenol	**30.7**		µg/l	5.00	50.0		61	30-130		
4-Chloroaniline	**26.5**		µg/l	5.00	50.0		53	40-140		
2-Chloronaphthalene	**31.1**		µg/l	5.00	50.0		62	40-140		
2-Chlorophenol	**27.3**		µg/l	5.00	50.0		55	30-130		
4-Chlorophenyl phenyl ether	**24.8**		µg/l	5.00	50.0		50	40-140		
Chrysene	**30.0**		µg/l	5.00	50.0		60	40-140		
Dibenzo (a,h) anthracene	**32.1**		µg/l	5.00	50.0		64	40-140		
Dibenzofuran	**30.2**		µg/l	5.00	50.0		60	40-140		
1,2-Dichlorobenzene	**32.5**		µg/l	5.00	50.0		65	40-140		
1,3-Dichlorobenzene	**31.7**		µg/l	5.00	50.0		63	40-140		
1,4-Dichlorobenzene	**31.7**		µg/l	5.00	50.0		63	40-140		
3,3´-Dichlorobenzidine	**40.9**		µg/l	5.00	50.0		82	40-140		
2,4-Dichlorophenol	**30.9**		µg/l	5.00	50.0		62	30-130		
Diethyl phthalate	**26.6**		µg/l	5.00	50.0		53	40-140		
Dimethyl phthalate	**25.6**		µg/l	5.00	50.0		51	40-140		
2,4-Dimethylphenol	**29.1**		µg/l	5.00	50.0		58	30-130		
Di-n-butyl phthalate	**33.1**		µg/l	5.00	50.0		66	40-140		
4,6-Dinitro-2-methylphenol	**44.6**		µg/l	5.00	50.0		89	30-130		
2,4-Dinitrophenol	**34.2**		µg/l	5.00	50.0		68	30-130		
2,4-Dinitrotoluene	**38.9**		µg/l	5.00	50.0		78	40-140		
2,6-Dinitrotoluene	**38.4**		µg/l	5.00	50.0		77	40-140		
Di-n-octyl phthalate	**33.8**		µg/l	5.00	50.0		68	40-140		
Fluoranthene	**31.8**		µg/l	5.00	50.0		64	40-140		
Fluorene	**25.5**		µg/l	5.00	50.0		51	40-140		
Hexachlorobenzene	**37.5**		µg/l	5.00	50.0		75	40-140		
Hexachlorobutadiene	**26.9**		µg/l	5.00	50.0		54	40-140		
Hexachlorocyclopentadiene	**32.0**		µg/l	5.00	50.0		64	40-140		
Hexachloroethane	**30.6**		µg/l	5.00	50.0		61	40-140		
Indeno (1,2,3-cd) pyrene	**32.1**		µg/l	5.00	50.0		64	40-140		
Isophorone	**29.2**		µg/l	5.00	50.0		58	40-140		
2-Methylnaphthalene	**35.3**		µg/l	5.00	50.0		71	40-140		
2-Methylphenol	**26.3**		µg/l	5.00	50.0		53	30-130		
3 & 4-Methylphenol	**25.2**		µg/l	10.0	50.0		50	30-130		
Naphthalene	**28.1**		µg/l	5.00	50.0		56	40-140		
2-Nitroaniline	**29.1**		µg/l	5.00	50.0		58	40-140		
3-Nitroaniline	**36.5**		µg/l	5.00	50.0		73	40-140		
4-Nitroaniline	**44.3**		µg/l	5.00	50.0		89	40-140		
Nitrobenzene	**37.0**		µg/l	5.00	50.0		74	40-140		
2-Nitrophenol	**33.5**		µg/l	5.00	50.0		67	30-130		
4-Nitrophenol	**19.1**	J	µg/l	20.0	50.0		38	30-130		
N-Nitrosodimethylamine	**20.3**		µg/l	5.00	50.0		41	40-140		
N-Nitrosodi-n-propylamine	**27.2**		µg/l	5.00	50.0		54	40-140		
N-Nitrosodiphenylamine	**37.3**		µg/l	5.00	50.0		75	40-140		
Pentachlorophenol	**31.5**		µg/l	20.0	50.0		63	30-130		
Phenanthrene	**31.4**		µg/l	5.00	50.0		63	40-140		
Phenol	**13.6**	QC6	µg/l	5.00	50.0		27	30-130		
Pyrene	**30.9**		µg/l	5.00	50.0		62	40-140		
Pyridine	**12.2**	QC6	µg/l	5.00	50.0		24	40-140		
1,2,4-Trichlorobenzene	**33.1**		µg/l	5.00	50.0		66	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804437 - SW846 3510C										
LCS (1804437-BS1)					Prepared: 03-Apr-18 Analyzed: 04-Apr-18					
1-Methylnaphthalene	**26.1**		µg/l	5.00	50.0		52	40-140		
2,4,5-Trichlorophenol	**28.6**		µg/l	5.00	50.0		57	30-130		
2,4,6-Trichlorophenol	**25.9**		µg/l	5.00	50.0		52	30-130		
Pentachloronitrobenzene	**33.4**		µg/l	5.00	50.0		67	40-140		
1,2,4,5-Tetrachlorobenzene	**23.3**		µg/l	5.00	50.0		47	40-140		
Surrogate: 2-Fluorobiphenyl	*25.7*		µg/l		*50.0*		*51*	*30-130*		
Surrogate: 2-Fluorophenol	*20.2*		µg/l		*50.0*		*40*	*15-110*		
Surrogate: Nitrobenzene-d5	*31.0*		µg/l		*50.0*		*62*	*30-130*		
Surrogate: Phenol-d5	*13.6*		µg/l		*50.0*		*27*	*15-110*		
Surrogate: Terphenyl-dl4	*35.2*		µg/l		*50.0*		*70*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*36.2*		µg/l		*50.0*		*72*	*15-110*		
LCS Dup (1804437-BSD1)					Prepared: 03-Apr-18 Analyzed: 04-Apr-18					
Acenaphthene	**27.9**		µg/l	5.00	50.0		56	40-140	3	20
Acenaphthylene	**27.5**		µg/l	5.00	50.0		55	40-140	3	20
Aniline	**19.9**		µg/l	5.00	50.0		40	40-140	9	20
Anthracene	**35.0**		µg/l	5.00	50.0		70	40-140	5	20
Azobenzene/Diphenyldiazene	**30.1**		µg/l	5.00	50.0		60	40-140	3	20
Benzidine	**51.9**	QR2	µg/l	10.0	50.0		104	40-140	38	20
Benzo (a) anthracene	**32.9**		µg/l	5.00	50.0		66	40-140	3	20
Benzo (a) pyrene	**33.1**		µg/l	5.00	50.0		66	40-140	4	20
Benzo (b) fluoranthene	**35.6**		µg/l	5.00	50.0		71	40-140	9	20
Benzo (g,h,i) perylene	**32.2**		µg/l	5.00	50.0		64	40-140	7	20
Benzo (k) fluoranthene	**31.9**		µg/l	5.00	50.0		64	40-140	3	20
Benzoic acid	**20.0**		µg/l	5.00	50.0		40	30-130	1	20
Benzyl alcohol	**29.8**		µg/l	5.00	50.0		60	40-140	2	20
Bis(2-chloroethoxy)methane	**23.7**		µg/l	5.00	50.0		47	40-140	0.8	20
Bis(2-chloroethyl)ether	**25.5**		µg/l	5.00	50.0		51	40-140	6	20
Bis(2-chloroisopropyl)ether	**23.0**		µg/l	5.00	50.0		46	40-140	4	20
Bis(2-ethylhexyl)phthalate	**33.6**		µg/l	5.00	50.0		67	40-140	0.8	20
4-Bromophenyl phenyl ether	**32.6**		µg/l	5.00	50.0		65	40-140	3	20
Butyl benzyl phthalate	**33.7**		µg/l	5.00	50.0		67	40-140	2	20
Carbazole	**52.6**		µg/l	5.00	50.0		105	40-140	4	20
4-Chloro-3-methylphenol	**30.8**		µg/l	5.00	50.0		62	30-130	0.4	20
4-Chloroaniline	**27.8**		µg/l	5.00	50.0		56	40-140	5	20
2-Chloronaphthalene	**32.2**		µg/l	5.00	50.0		64	40-140	3	20
2-Chlorophenol	**28.4**		µg/l	5.00	50.0		57	30-130	4	20
4-Chlorophenyl phenyl ether	**25.2**		µg/l	5.00	50.0		50	40-140	1	20
Chrysene	**31.0**		µg/l	5.00	50.0		62	40-140	3	20
Dibenzo (a,h) anthracene	**33.8**		µg/l	5.00	50.0		68	40-140	5	20
Dibenzofuran	**31.2**		µg/l	5.00	50.0		62	40-140	3	20
1,2-Dichlorobenzene	**34.4**		µg/l	5.00	50.0		69	40-140	6	20
1,3-Dichlorobenzene	**33.6**		µg/l	5.00	50.0		67	40-140	6	20
1,4-Dichlorobenzene	**33.4**		µg/l	5.00	50.0		67	40-140	5	20
3,3´-Dichlorobenzidine	**43.7**		µg/l	5.00	50.0		87	40-140	7	20
2,4-Dichlorophenol	**31.4**		µg/l	5.00	50.0		63	30-130	2	20
Diethyl phthalate	**26.8**		µg/l	5.00	50.0		54	40-140	0.9	20
Dimethyl phthalate	**26.1**		µg/l	5.00	50.0		52	40-140	2	20
2,4-Dimethylphenol	**29.3**		µg/l	5.00	50.0		59	30-130	0.6	20
Di-n-butyl phthalate	**34.0**		µg/l	5.00	50.0		68	40-140	3	20
4,6-Dinitro-2-methylphenol	**46.9**		µg/l	5.00	50.0		94	30-130	5	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1804437 - SW846 3510C										
LCS Dup (1804437-BSD1)					Prepared: 03-Apr-18 Analyzed: 04-Apr-18					
2,4-Dinitrophenol	**35.7**		µg/l	5.00	50.0		71	30-130	4	20
2,4-Dinitrotoluene	**40.4**		µg/l	5.00	50.0		81	40-140	4	20
2,6-Dinitrotoluene	**39.6**		µg/l	5.00	50.0		79	40-140	3	20
Di-n-octyl phthalate	**34.0**		µg/l	5.00	50.0		68	40-140	0.4	20
Fluoranthene	**33.0**		µg/l	5.00	50.0		66	40-140	4	20
Fluorene	**26.2**		µg/l	5.00	50.0		52	40-140	3	20
Hexachlorobenzene	**39.6**		µg/l	5.00	50.0		79	40-140	5	20
Hexachlorobutadiene	**27.9**		µg/l	5.00	50.0		56	40-140	3	20
Hexachlorocyclopentadiene	**33.6**		µg/l	5.00	50.0		67	40-140	5	20
Hexachloroethane	**32.4**		µg/l	5.00	50.0		65	40-140	6	20
Indeno (1,2,3-cd) pyrene	**34.3**		µg/l	5.00	50.0		69	40-140	6	20
Isophorone	**28.9**		µg/l	5.00	50.0		58	40-140	0.9	20
2-Methylnaphthalene	**36.6**		µg/l	5.00	50.0		73	40-140	4	20
2-Methylphenol	**27.1**		µg/l	5.00	50.0		54	30-130	3	20
3 & 4-Methylphenol	**25.5**		µg/l	10.0	50.0		51	30-130	1	20
Naphthalene	**28.9**		µg/l	5.00	50.0		58	40-140	3	20
2-Nitroaniline	**30.3**		µg/l	5.00	50.0		61	40-140	4	20
3-Nitroaniline	**36.7**		µg/l	5.00	50.0		73	40-140	0.6	20
4-Nitroaniline	**45.7**		µg/l	5.00	50.0		91	40-140	3	20
Nitrobenzene	**37.7**		µg/l	5.00	50.0		75	40-140	2	20
2-Nitrophenol	**34.2**		µg/l	5.00	50.0		68	30-130	2	20
4-Nitrophenol	**18.0**	J	µg/l	20.0	50.0		36	30-130	6	20
N-Nitrosodimethylamine	**20.2**		µg/l	5.00	50.0		40	40-140	0.7	20
N-Nitrosodi-n-propylamine	**27.7**		µg/l	5.00	50.0		55	40-140	2	20
N-Nitrosodiphenylamine	**38.9**		µg/l	5.00	50.0		78	40-140	4	20
Pentachlorophenol	**33.1**		µg/l	20.0	50.0		66	30-130	5	20
Phenanthrene	**32.6**		µg/l	5.00	50.0		65	40-140	4	20
Phenol	**13.9**	QC6	µg/l	5.00	50.0		28	30-130	2	20
Pyrene	**32.0**		µg/l	5.00	50.0		64	40-140	4	20
Pyridine	**18.1**	QC6, QR5	µg/l	5.00	50.0		36	40-140	39	20
1,2,4-Trichlorobenzene	**34.2**		µg/l	5.00	50.0		68	40-140	3	20
1-Methylnaphthalene	**27.1**		µg/l	5.00	50.0		54	40-140	4	20
2,4,5-Trichlorophenol	**29.2**		µg/l	5.00	50.0		58	30-130	2	20
2,4,6-Trichlorophenol	**26.6**		µg/l	5.00	50.0		53	30-130	3	20
Pentachloronitrobenzene	**34.3**		µg/l	5.00	50.0		69	40-140	3	20
1,2,4,5-Tetrachlorobenzene	**24.4**		µg/l	5.00	50.0		49	40-140	5	20
Surrogate: 2-Fluorobiphenyl	*26.3*		µg/l		*50.0*		*53*	*30-130*		
Surrogate: 2-Fluorophenol	*20.4*		µg/l		*50.0*		*41*	*15-110*		
Surrogate: Nitrobenzene-d5	*31.7*		µg/l		*50.0*		*63*	*30-130*		
Surrogate: Phenol-d5	*13.5*		µg/l		*50.0*		*27*	*15-110*		
Surrogate: Terphenyl-dl4	*35.2*		µg/l		*50.0*		*70*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*37.8*		µg/l		*50.0*		*76*	*15-110*		
SW846 8270D TICS										
Batch 1804437 - SW846 3510C										
Blank (1804437-BLK1)					Prepared: 03-Apr-18 Analyzed: 04-Apr-18					
Tentatively Identified Compounds	**0.0**	U	µg/l							
Cyclododecane	**7.5**	J N	µg/l							
n-Hexadecanoic Acid	**4.1**	J N	µg/l							
Propanoic acid, 3,3'-thiobi...	**7.5**	J N	µg/l							

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J N	(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
SBN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

SC 45319

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

☐ Standard TAT - 7 to 10 business days

☒ Rush TAT - Date Needed: _____

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

Report To: AECC
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECC
cbeck@aecegroup.com

P.O No.: _____ Quote #: _____

Project No: 18-051
Site Name: 700 Ait Parcel
Location: Syracuse State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: List Preservative Code below: 8270 TCL SVOCs	Check if chlorinated
45319-01	MW-7 (2018-04-02)	4/2/18	1001	G	GW		1			X	☐
-02	MW-9 (2018-04-02)	4/2/18	1054	G	GW		1			X	☐
-03	MW-D (2018-04-02)	4/2/18	-	G	GW		1			X	☐
											☐
											☐
											☐
											☐
											☐
											☐
											☐

QA/QC Reporting Notes:
* additional charges may appply

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

Relinquished by:	Received by:	Date:	Time:	Temp °C
Drew Brantner	FedEx	4/2/18		Observed 3.7
Fed Ex	BM	4/3/18	1030	Correction Factor 0
				Corrected 3.7
				IR ID # 2

☒ EDD format: PDF, Excel
☒ E-mail to: rmckenna@aecegroup.com
dbrantner@aecegroup.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

FedEx Express Package US Airbill

FedEx Tracking Number 8116 7330 4564

Form ID No. 0200

Recipient's Copy

1 From

Date 4/2/15

Sender's Name Drew Brantner Phone 315 422-9400

Company AECC

Address 6308 Fly Rd Dept./Floor/Suite/Room

City East Syracuse State NY ZIP 13057

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 413 789-9018

Company Eurofins / Spectrum Analytical

Address 11 Almgren Dr Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA

001

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to selected locations.

8116 7330 4564

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery.
☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages 1 Total Weight 33 lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Batch Summary

1804437

Semivolatile Organic Compounds by GCMS

1804437-BLK1
1804437-BS1
1804437-BSD1
SC45319-01 (MW-7 (2018-04-02))
SC45319-02 (MW-9 (2018-04-02))
SC45319-03 (MW-D (2018-04-02))

S815859

Semivolatile Organic Compounds by GCMS

S815859-CAL1
S815859-CAL2
S815859-CAL3
S815859-CAL4
S815859-CAL5
S815859-CAL6
S815859-CAL7
S815859-CAL8
S815859-CAL9
S815859-CALA
S815859-ICV1
S815859-LCV1
S815859-LCV2
S815859-TUN1

S818202

Semivolatile Organic Compounds by GCMS

S818202-CCV1
S818202-TUN1

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☑ Final Report
☐ Revised Report

Report Date:
02-Jul-18 17:16

Laboratory Report
SC47714

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 700 Out Parcel - Syracuse, NY
Project #: 18-051

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

Dawn E Wojcik

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

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

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

Sample Summary

Work Order: SC47714

Project: 700 Out Parcel - Syracuse, NY

Project Number: 18-051

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC47714-01	MW-5 (2018-06-13)	Ground Water	13-Jun-18 10:54	14-Jun-18 09:42
SC47714-02	MW-7 (2018-06-13)	Ground Water	13-Jun-18 11:41	14-Jun-18 09:42
SC47714-03	MW-8 (2018-06-13)	Ground Water	13-Jun-18 12:40	14-Jun-18 09:42
SC47714-04	MW-9 (2018-06-13)	Ground Water	13-Jun-18 13:15	14-Jun-18 09:42
SC47714-05	Trip Blank (2018-06)	Aqueous	13-Jun-18 00:00	14-Jun-18 09:42
SC47714-06	MW-D (2018-06-13)	Ground Water	13-Jun-18 00:00	14-Jun-18 09:42

CASE NARRATIVE:

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

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

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

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

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

SW846 6010C

Laboratory Control Samples:

1808547 BS/BSD

Beryllium percent recoveries (112/116) are outside individual acceptance criteria (85-115), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)

Spikes:

1808547-MS2 *Source: SC47714-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Calcium

1808547-MSD1 *Source: SC47714-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Magnesium
Sodium

1808547-MSD2 *Source: SC47714-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Calcium

Duplicates:

1808547-DUP3 *Source: SC47714-01*

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.

Manganese

MRL raised to correlate to batch QC reporting limits.

Manganese

SW846 6010C

Samples:

SC47714-01 *MW-5 (2018-06-13)*

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.

Manganese

MRL raised to correlate to batch QC reporting limits.

Manganese

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

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

Thallium

SC47714-02 *MW-7 (2018-06-13)*

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.

Manganese

MRL raised to correlate to batch QC reporting limits.

Manganese

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Magnesium
Sodium

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

Thallium

SC47714-03 *MW-8 (2018-06-13)*

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.

Manganese

MRL raised to correlate to batch QC reporting limits.

Manganese

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium

SC47714-04 *MW-9 (2018-06-13)*

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.

Manganese

MRL raised to correlate to batch QC reporting limits.

Manganese

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Sodium

SW846 6010C

Samples:

SC47714-06 *MW-D (2018-06-13)*

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.

Manganese

MRL raised to correlate to batch QC reporting limits.

Manganese

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium

SW846 8260C

Calibration:

1805057

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Chlorotoluene
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
Bromoform
Carbon tetrachloride
Cyclohexane
Isopropylbenzene
m,p-Xylene
Methylcyclohexane
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene

This affected the following samples:

1808472-BLK1
1808472-BS1
1808472-BSD1
1808472-MS1
1808472-MSD1
MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)
S819667-ICV1
S820210-CCV1
Trip Blank (2018-06)

SW846 8260C

Calibration:

1806025

Analyte quantified by quadratic equation type calibration.

1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Ethylbenzene
m,p-Xylene
Naphthalene
n-Propylbenzene
o-Xylene

This affected the following samples:

1808627-BLK1
1808627-BS1
1808627-BSD1
1808627-MS1
1808627-MSD1
MW-D (2018-06-13)
S820051-ICV1
S820269-CCV1

S819667-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Bromomethane (75%)

This affected the following samples:

1808472-BLK1
1808472-BS1
1808472-BSD1
1808472-MS1
1808472-MSD1
MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)
S820210-CCV1
Trip Blank (2018-06)

Laboratory Control Samples:

1808472 BS/BSD

Chloromethane percent recoveries (144/146) 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-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)
Trip Blank (2018-06)

SW846 8260C

Laboratory Control Samples:

1808472 BS/BSD

Dichlorodifluoromethane (Freon12) percent recoveries (131/124) 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-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)
Trip Blank (2018-06)

Vinyl chloride percent recoveries (149/140) 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-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)
Trip Blank (2018-06)

Spikes:

1808472-MS1 *Source: SC47714-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1,2-Trichloroethane
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
2-Butanone (MEK)
2-Hexanone (MBK)
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Acrylonitrile
Chloroethane
Naphthalene
Tetrahydrofuran

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.

1,2,4-Trimethylbenzene

1808472-MSD1 *Source: SC47714-03*

RPD out of acceptance range.

Chloroethane
Trichlorofluoromethane (Freon 11)

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Ethanol

SW846 8260C

Spikes:

1808472-MSD1 *Source: SC47714-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1,2-Trichloroethane
1,4-Dioxane
2-Butanone (MEK)
2-Hexanone (MBK)
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Acrylonitrile
Bromomethane
Chloroethane
Tetrahydrofuran
Trichlorofluoromethane (Freon 11)

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.

1,2,4-Trimethylbenzene

1808627-MS1 *Source: SC47714-06RE1*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Acetone

1808627-MSD1 *Source: SC47714-06RE1*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,3,5-Trichlorobenzene
Acetone

Samples:

S820210-CCV1

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

2-Butanone (MEK) (25.7%)
Chloromethane (23.4%)

This affected the following samples:

1808472-BLK1
1808472-BS1
1808472-BSD1
1808472-MS1
1808472-MSD1
MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)
Trip Blank (2018-06)

S820269-CCV1

SW846 8260C

Samples:

S820269-CCV1

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

1,1-Dichloroethene (24.2%)
2,2-Dichloropropane (39.8%)
Ethyl tert-butyl ether (22.1%)
Methyl tert-butyl ether (21.9%)
Tert-Butanol / butyl alcohol (21.0%)

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

Acetone (26.2%)
Ethanol (22.0%)
Trichlorofluoromethane (Freon 11) (24.7%)

This affected the following samples:

1808627-BLK1
1808627-BS1
1808627-BSD1
1808627-MS1
1808627-MSD1

SC47714-03 *MW-8 (2018-06-13)*

Non-target concentration sufficient to be reported as one of the highest TICs.

Cyclohexane
Methylcyclohexane

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC47714-06 *MW-D (2018-06-13)*

Non-target concentration sufficient to be reported as one of the highest TICs.

Cyclohexane
Methylcyclohexane

SC47714-06RE1 *MW-D (2018-06-13)*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8260C TICs

Samples:

SC47714-03 *MW-8 (2018-06-13)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SC47714-04 *MW-9 (2018-06-13)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SC47714-06 *MW-D (2018-06-13)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SW846 8270D

Calibration:

1804057

Analyte quantified by quadratic equation type calibration.

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

This affected the following samples:

1808368-BLK1
1808368-BS1
1808368-BSD1
MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)
S818863-ICV1
S820321-CCV1
S820397-CCV1

Laboratory Control Samples:

1808368 BS/BSD

Benzoic acid percent recoveries (29/34) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)

N-Nitrosodimethylamine percent recoveries (38/44) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)

Phenol percent recoveries (25/28) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)

Pyridine percent recoveries (32/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)
MW-D (2018-06-13)

SW846 8270D

Laboratory Control Samples:

1808368 BSD

Benzo (g,h,i) perylene RPD 43% (20%) is outside individual acceptance criteria.

Benzo (k) fluoranthene RPD 33% (20%) is outside individual acceptance criteria.

Dibenzo (a,h) anthracene RPD 30% (20%) is outside individual acceptance criteria.

Di-n-octyl phthalate RPD 29% (20%) is outside individual acceptance criteria.

Indeno (1,2,3-cd) pyrene RPD 33% (20%) is outside individual acceptance criteria.

Pentachlorophenol RPD 21% (20%) is outside individual acceptance criteria.

1808368-BS1

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

Benzoic acid
N-Nitrosodimethylamine
Phenol
Pyridine

1808368-BSD1

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

Phenol
Pyridine

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Dibenzo (a,h) anthracene
Di-n-octyl phthalate
Indeno (1,2,3-cd) pyrene
Pentachlorophenol

Samples:

S820321-CCV1

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

3-Nitroaniline (-35.5%)
4-Chloroaniline (-33.2%)
4-Chlorophenyl phenyl ether (23.2%)
Aniline (-60.2%)
Diethyl phthalate (20.8%)
Hexachlorocyclopentadiene (27.7%)
Nitrobenzene (50.5%)

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

Carbazole (-24.0%)

SW846 8270D

Samples:

S820321-CCV1

This affected the following samples:

1808368-BLK1
1808368-BS1
1808368-BSD1
MW-5 (2018-06-13)
MW-7 (2018-06-13)
MW-8 (2018-06-13)
MW-9 (2018-06-13)

S820397-CCV1

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

3-Nitroaniline (-33.7%)
Aniline (-31.8%)
Benzidine (29.4%)
Benzo (b) fluoranthene (20.8%)
Hexachlorocyclopentadiene (33.5%)
Nitrobenzene (54.7%)

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

Carbazole (-30.6%)

This affected the following samples:

MW-D (2018-06-13)

SC47714-06 *MW-D (2018-06-13)*

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

2-Fluorobiphenyl

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8270D TICS

Blanks:

1808368-BLK1

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

5-Eicosene, (E)-
n-Hexadecanoic Acid

Samples:

SC47714-01 *MW-5 (2018-06-13)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

5-Eicosene, (E)-
n-Hexadecanoic Acid

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

5-Eicosene, (E)-
n-Hexadecanoic Acid

SW846 8270D TICS

Samples:

SC47714-03 *MW-8 (2018-06-13)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1,3-Cyclopentadiene, 1,2,3,...
1H-Indene, 2,3-dihydro-1,3-...
1-Nonadecene
Benzene, (1-methylethyl)-
Benzene, 1,2,3-trimethyl-
Benzene, 1,2,4,5-tetramethyl-
Benzene, 1,2,4-trimethyl-
Benzene, 1,3,5-trimethyl-
Benzene, 1-ethyl-4-methyl-
Benzene, 1-methyl-2-(1-meth...
Benzene, 1-methyl-3-propyl-
Benzene, 1-methyl-4-propyl-
Benzene, 2-ethenyl-1,4-dime...
Benzene, 2-ethyl-1,3-dimethyl-
Benzene, propyl-
Cyclic octaatomic sulfur
Ethylbenzene
Indane
n-Hexadecanoic Acid
p-Xylene

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

n-Hexadecanoic Acid

SC47714-04 *MW-9 (2018-06-13)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Benzoic acid, 2,4-dichloro-
n-Hexadecanoic Acid

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

n-Hexadecanoic Acid

SC47714-06 *MW-D (2018-06-13)*

SW846 8270D TICS

Samples:

SC47714-06 *MW-D (2018-06-13)*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1H-Indene, 2,3-dihydro-1,3-...
2-Tolyloxirane
Benzene, (1-methyl-1-butenyl)-
Benzene, 1,2,3-trimethyl-
Benzene, 1,2,4,5-tetramethyl- (01)
Benzene, 1,2-diethyl-
Benzene, 1-ethyl-2,3-dimethyl-
Benzene, 1-ethyl-2-methyl- (01)
Benzene, 1-ethyl-3-methyl-
Benzene, 1-methyl-2-(1-meth...
Benzene, 1-methyl-4-propyl-
Benzene, propyl-
Cyclic octaatomic sulfur
Ethylbenzene
Indane
p-Xylene
Undecane

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	700 Out Parcel - Syracuse, NY / 18-051
Work Order:	SC47714
Sample(s) received on:	6/14/2018

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

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

Summary of Hits

Lab ID: SC47714-01 **Client ID:** MW-5 (2018-06-13)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	3.31		0.0250	mg/l	SW846 6010C
Antimony	0.0024	J	0.0060	mg/l	SW846 6010C
Arsenic	0.00455		0.00400	mg/l	SW846 6010C
Barium	0.342		0.0050	mg/l	SW846 6010C
Cadmium	0.0005	J	0.0025	mg/l	SW846 6010C
Calcium	181		0.100	mg/l	SW846 6010C
Chromium	0.0055		0.0050	mg/l	SW846 6010C
Cobalt	0.0023	J	0.0050	mg/l	SW846 6010C
Copper	0.0124		0.0050	mg/l	SW846 6010C
Iron	3.13		0.125	mg/l	SW846 6010C
Lead	0.0092		0.0075	mg/l	SW846 6010C
Magnesium	25.2		0.0200	mg/l	SW846 6010C
Manganese	0.108	R05, R(	0.625	mg/l	SW846 6010C
Nickel	0.0040	J	0.0050	mg/l	SW846 6010C
Potassium	9.38		0.500	mg/l	SW846 6010C
Sodium	1660	GS1, D	15.0	mg/l	SW846 6010C
Vanadium	0.0070		0.0050	mg/l	SW846 6010C
Zinc	0.0329		0.0250	mg/l	SW846 6010C
Isopropylbenzene	0.72	J	1.00	µg/l	SW846 8260C
n-Propylbenzene	0.67	J	1.00	µg/l	SW846 8260C

Lab ID: SC47714-02 **Client ID:** MW-7 (2018-06-13)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.287		0.0250	mg/l	SW846 6010C
Arsenic	0.01835		0.00400	mg/l	SW846 6010C
Barium	0.303		0.0050	mg/l	SW846 6010C
Calcium	265		0.100	mg/l	SW846 6010C
Cobalt	0.0020	J	0.0050	mg/l	SW846 6010C
Iron	3.71		0.125	mg/l	SW846 6010C
Magnesium	55.2	GS1, D	0.100	mg/l	SW846 6010C
Manganese	0.0418	R05, R(	0.625	mg/l	SW846 6010C
Nickel	0.0020	J	0.0050	mg/l	SW846 6010C
Potassium	4.68		0.500	mg/l	SW846 6010C
Sodium	1310	GS1, D	7.50	mg/l	SW846 6010C
Zinc	0.0042	J	0.0250	mg/l	SW846 6010C

Lab ID: SC47714-03 **Client ID:** MW-8 (2018-06-13)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.01500		0.00400	mg/l	SW846 6010C
Barium	1.87		0.0050	mg/l	SW846 6010C
Calcium	262	GS1, D	0.500	mg/l	SW846 6010C
Iron	1.66		0.125	mg/l	SW846 6010C
Lead	0.0168		0.0075	mg/l	SW846 6010C
Magnesium	43.4		0.0200	mg/l	SW846 6010C
Manganese	0.441	R05, R0	0.625	mg/l	SW846 6010C
Potassium	5.88		0.500	mg/l	SW846 6010C
Sodium	141		0.750	mg/l	SW846 6010C
Zinc	0.0033	J	0.0250	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	921	D	10.0	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	274	D	10.0	µg/l	SW846 8260C
4-Isopropyltoluene	16.5	D	10.0	µg/l	SW846 8260C
Benzene	44.1	D	10.0	µg/l	SW846 8260C
Cyclohexane	330	NonTR	50.0	µg/l	SW846 8260C
Ethylbenzene	301	D	10.0	µg/l	SW846 8260C
Isopropylbenzene	37.3	D	10.0	µg/l	SW846 8260C
m,p-Xylene	693	D	20.0	µg/l	SW846 8260C
Methylcyclohexane	373	NonTR	50.0	µg/l	SW846 8260C
Naphthalene	171	D	20.0	µg/l	SW846 8260C
n-Butylbenzene	39.7	D	10.0	µg/l	SW846 8260C
n-Propylbenzene	116	D	10.0	µg/l	SW846 8260C
o-Xylene	163	D	10.0	µg/l	SW846 8260C
sec-Butylbenzene	17.0	D	10.0	µg/l	SW846 8260C
tert-Butylbenzene	6.50	J, D	10.0	µg/l	SW846 8260C
Toluene	42.7	D	10.0	µg/l	SW846 8260C
1-Methylnaphthalene	27.8		4.67	µg/l	SW846 8270D
2-Methylnaphthalene	65.2		4.67	µg/l	SW846 8270D
Bis(2-ethylhexyl)phthalate	2.53	J	4.67	µg/l	SW846 8270D
Di-n-octyl phthalate	0.916	J	4.67	µg/l	SW846 8270D
Fluorene	0.579	J	4.67	µg/l	SW846 8270D
Naphthalene	53.9		4.67	µg/l	SW846 8270D

Lab ID: SC47714-04 **Client ID:** MW-9 (2018-06-13)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	2.19		0.0250	mg/l	SW846 6010C
Arsenic	0.00500		0.00400	mg/l	SW846 6010C
Barium	0.468		0.0050	mg/l	SW846 6010C
Cadmium	0.0007	J	0.0025	mg/l	SW846 6010C
Calcium	236	GS1, D	0.500	mg/l	SW846 6010C
Chromium	0.0039	J	0.0050	mg/l	SW846 6010C
Cobalt	0.0016	J	0.0050	mg/l	SW846 6010C
Copper	0.0054		0.0050	mg/l	SW846 6010C
Iron	8.72		0.125	mg/l	SW846 6010C
Magnesium	38.6		0.0200	mg/l	SW846 6010C
Manganese	0.570	R05, R0	0.625	mg/l	SW846 6010C
Nickel	0.0030	J	0.0050	mg/l	SW846 6010C
Potassium	15.4		0.500	mg/l	SW846 6010C
Sodium	465	GS1, D	3.75	mg/l	SW846 6010C
Vanadium	0.0048	J	0.0050	mg/l	SW846 6010C
Zinc	0.0117	J	0.0250	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	0.85	J	1.00	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	0.55	J	1.00	µg/l	SW846 8260C
Benzene	0.79	J	1.00	µg/l	SW846 8260C
Isopropylbenzene	2.14		1.00	µg/l	SW846 8260C
m,p-Xylene	0.60	J	2.00	µg/l	SW846 8260C
n-Butylbenzene	0.62	J	1.00	µg/l	SW846 8260C
n-Propylbenzene	1.92		1.00	µg/l	SW846 8260C
sec-Butylbenzene	1.11		1.00	µg/l	SW846 8260C
tert-Butylbenzene	0.73	J	1.00	µg/l	SW846 8260C
Bis(2-ethylhexyl)phthalate	1.74	J	4.67	µg/l	SW846 8270D

Lab ID: SC47714-06 **Client ID:** MW-D (2018-06-13)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.01765		0.00400	mg/l	SW846 6010C
Barium	1.87		0.0050	mg/l	SW846 6010C
Calcium	269	GS1, D	0.500	mg/l	SW846 6010C
Iron	1.60		0.125	mg/l	SW846 6010C
Lead	0.0166		0.0075	mg/l	SW846 6010C
Magnesium	43.3		0.0200	mg/l	SW846 6010C
Manganese	0.456	R05, R0	0.625	mg/l	SW846 6010C
Potassium	5.86		0.500	mg/l	SW846 6010C
Sodium	140		0.750	mg/l	SW846 6010C
Zinc	0.0026	J	0.0250	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	370	E	1.00	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	226	E	1.00	µg/l	SW846 8260C
4-Isopropyltoluene	13.8		1.00	µg/l	SW846 8260C
Benzene	42.6		1.00	µg/l	SW846 8260C
Cyclohexane	238	NonTR	5.00	µg/l	SW846 8260C
Ethanol	43.4	J	200	µg/l	SW846 8260C
Ethylbenzene	227	E	1.00	µg/l	SW846 8260C
Isopropylbenzene	40.1		1.00	µg/l	SW846 8260C
m,p-Xylene	489	E	2.00	µg/l	SW846 8260C
Methylcyclohexane	285	NonTR	5.00	µg/l	SW846 8260C
Naphthalene	147	E	2.00	µg/l	SW846 8260C
n-Butylbenzene	38.0		1.00	µg/l	SW846 8260C
n-Propylbenzene	118	E	1.00	µg/l	SW846 8260C
o-Xylene	147	E	1.00	µg/l	SW846 8260C
sec-Butylbenzene	14.5		1.00	µg/l	SW846 8260C
tert-Butylbenzene	2.82		1.00	µg/l	SW846 8260C
Toluene	42.9		1.00	µg/l	SW846 8260C
1-Methylnaphthalene	53.3	D	23.4	µg/l	SW846 8270D
2-Methylnaphthalene	162	D	23.4	µg/l	SW846 8270D
Bis(2-ethylhexyl)phthalate	5.05	J, D	23.4	µg/l	SW846 8270D
Naphthalene	82.7	D	23.4	µg/l	SW846 8270D

Lab ID: SC47714-06RE1 **Client ID:** MW-D (2018-06-13)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	1120	D	20.0	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	313	D	20.0	µg/l	SW846 8260C
Ethylbenzene	342	D	20.0	µg/l	SW846 8260C
m,p-Xylene	739	D	40.0	µg/l	SW846 8260C
Naphthalene	204	D	40.0	µg/l	SW846 8260C
n-Propylbenzene	115	D	20.0	µg/l	SW846 8260C
o-Xylene	126	D	20.0	µg/l	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	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-06-13)	18-051	Ground Water	13-Jun-18 10:54	14-Jun-18
SC47714-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-06-13) SC47714-01	18-051	Ground Water	13-Jun-18 10:54	14-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	**0.72**	J	µg/l	1.00	0.30	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**0.67**	J	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*102*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	**None found**		µg/l			1	SW846 8260C TICs	"	"	GMA	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-06-13)	18-051	Ground Water	13-Jun-18 10:54	14-Jun-18
SC47714-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.59	U	µg/l	4.59	0.634	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
208-96-8	Acenaphthylene	< 4.59	U	µg/l	4.59	0.627	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.59	U	µg/l	4.59	1.62	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.59	U	µg/l	4.59	0.558	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.59	U	µg/l	4.59	0.686	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.17	U	µg/l	9.17	1.05	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.59	U	µg/l	4.59	0.492	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.59	U	µg/l	4.59	0.516	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.59	U	µg/l	4.59	0.401	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.59	U	µg/l	4.59	0.486	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.59	U	µg/l	4.59	0.440	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.59	U	µg/l	4.59	0.483	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.59	U	µg/l	4.59	0.716	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.59	U	µg/l	4.59	0.611	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.59	U	µg/l	4.59	0.673	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.59	U	µg/l	4.59	0.714	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.59	U	µg/l	4.59	0.585	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.59	U	µg/l	4.59	0.552	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.59	U	µg/l	4.59	0.402	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.59	U	µg/l	4.59	1.43	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.59	U	µg/l	4.59	0.460	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.59	U	µg/l	4.59	1.03	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.59	U	µg/l	4.59	0.541	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.59	U	µg/l	4.59	0.686	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.59	U	µg/l	4.59	0.553	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.59	U	µg/l	4.59	0.488	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.59	U	µg/l	4.59	0.413	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.59	U	µg/l	4.59	0.679	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.59	U	µg/l	4.59	0.516	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.59	U	µg/l	4.59	0.594	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.59	U	µg/l	4.59	0.563	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.59	U	µg/l	4.59	1.82	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.59	U	µg/l	4.59	0.486	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.59	U	µg/l	4.59	0.572	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.59	U	µg/l	4.59	0.695	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.59	U	µg/l	4.59	0.599	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.59	U	µg/l	4.59	0.419	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.59	U	µg/l	4.59	0.293	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.59	U	µg/l	4.59	0.515	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.59	U	µg/l	4.59	0.617	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.59	U	µg/l	4.59	0.544	1	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	< 4.59	U	µg/l	4.59	0.372	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
206-44-0	Fluoranthene	< 4.59	U	µg/l	4.59	0.585	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.59	U	µg/l	4.59	0.561	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.59	U	µg/l	4.59	0.524	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.59	U	µg/l	4.59	0.356	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.59	U	µg/l	4.59	0.950	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.59	U	µg/l	4.59	0.586	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.59	U	µg/l	4.59	0.532	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.59	U	µg/l	4.59	0.538	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.59	U	µg/l	4.59	0.527	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.59	U	µg/l	4.59	0.610	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.17	U	µg/l	9.17	0.564	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.59	U	µg/l	4.59	0.628	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.59	U	µg/l	4.59	0.556	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.59	U	µg/l	4.59	0.498	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.59	U	µg/l	4.59	0.343	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.59	U	µg/l	4.59	0.633	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.59	U	µg/l	4.59	0.427	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.3	U	µg/l	18.3	0.769	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.59	U	µg/l	4.59	0.617	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.59	U	µg/l	4.59	0.530	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.59	U	µg/l	4.59	0.597	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.3	U	µg/l	18.3	0.342	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.59	U	µg/l	4.59	0.538	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.59	U	µg/l	4.59	0.592	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.59	U	µg/l	4.59	0.560	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.59	U	µg/l	4.59	0.751	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.59	U	µg/l	4.59	0.630	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.59	U	µg/l	4.59	0.672	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.59	U	µg/l	4.59	0.477	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.59	U	µg/l	4.59	0.475	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.59	U	µg/l	4.59	0.639	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.59	U	µg/l	4.59	0.665	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*50*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*48*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*60*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*35*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*57*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*69*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
074685-30-6	5-Eicosene, (E)-	14	J N, B	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
112-39-0	n-Hexadecanoic Acid	13	J N, B	µg/l			1	"	"	"	"	"	

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 (2018-06-13) SC47714-01	18-051	Ground Water	13-Jun-18 10:54	14-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	15-Jun-18		KP1	1808348	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	21-Jun-18	22-Jun-18	SJR/T	1808547	X
7429-90-5	Aluminum	**3.31**		mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.00455**		mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.342**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**181**		mg/l	0.100	0.0071	1	"	"	26-Jun-18	"	"	X
7440-43-9	Cadmium	**0.0005**	J	mg/l	0.0025	0.0004	1	"	"	22-Jun-18	"	"	X
7440-48-4	Cobalt	**0.0023**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0055**		mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0124**		mg/l	0.0050	0.0023	1	"	"	"	"	"	X
7439-89-6	Iron	**3.13**		mg/l	0.125	0.0045	1	"	"	26-Jun-18	"	"	X
7440-09-7	Potassium	**9.38**		mg/l	0.500	0.0600	1	"	"	22-Jun-18	"	"	X
7439-95-4	Magnesium	**25.2**		mg/l	0.0200	0.0044	1	"	"	"	"	"	X
7439-96-5	Manganese	**0.108**	R05, R06, J, D	mg/l	0.625	0.0095	5	"	"	30-Jun-18	"	"	X
7440-23-5	Sodium	**1,660**	GS1, D	mg/l	15.0	0.785	20	"	"	26-Jun-18	"	"	X
7440-02-0	Nickel	**0.0040**	J	mg/l	0.0050	0.0009	1	"	"	22-Jun-18	"	"	X
7439-92-1	Lead	**0.0092**		mg/l	0.0075	0.0062	1	"	"	26-Jun-18	"	"	X
7440-36-0	Antimony	**0.0024**	J	mg/l	0.0060	0.0016	1	"	"	22-Jun-18	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0250	R01, U, D	mg/l	0.0250	0.0105	5	"	"	30-Jun-18	"	"	X
7440-62-2	Vanadium	**0.0070**		mg/l	0.0050	0.0011	1	"	"	22-Jun-18	"	"	X
7440-66-6	Zinc	**0.0329**		mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	21-Jun-18	25-Jun-18	TSF/T	1808550	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-06-13)	18-051	Ground Water	13-Jun-18 11:41	14-Jun-18
SC47714-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-06-13)	18-051	Ground Water	13-Jun-18 11:41	14-Jun-18
SC47714-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*101*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	**None found**		µg/l			1	SW846 8260C TICs	"	"	GMA	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-06-13)	18-051	Ground Water	13-Jun-18 11:41	14-Jun-18
SC47714-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.67	U	µg/l	4.67	0.646	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
208-96-8	Acenaphthylene	< 4.67	U	µg/l	4.67	0.638	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.67	U	µg/l	4.67	1.65	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.67	U	µg/l	4.67	0.568	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.67	U	µg/l	4.67	0.699	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.35	U	µg/l	9.35	1.07	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.67	U	µg/l	4.67	0.501	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.67	U	µg/l	4.67	0.525	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.67	U	µg/l	4.67	0.408	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.67	U	µg/l	4.67	0.495	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.67	U	µg/l	4.67	0.449	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.67	U	µg/l	4.67	0.493	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.67	U	µg/l	4.67	0.729	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.67	U	µg/l	4.67	0.622	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.67	U	µg/l	4.67	0.686	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.67	U	µg/l	4.67	0.727	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.67	U	µg/l	4.67	0.596	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.563	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.67	U	µg/l	4.67	0.409	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.67	U	µg/l	4.67	1.46	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.67	U	µg/l	4.67	0.468	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.67	U	µg/l	4.67	1.05	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.67	U	µg/l	4.67	0.551	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.67	U	µg/l	4.67	0.699	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.564	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.67	U	µg/l	4.67	0.497	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.67	U	µg/l	4.67	0.421	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.67	U	µg/l	4.67	0.692	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.525	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.605	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.574	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.67	U	µg/l	4.67	1.86	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.67	U	µg/l	4.67	0.495	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.67	U	µg/l	4.67	0.582	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.67	U	µg/l	4.67	0.708	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.67	U	µg/l	4.67	0.610	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.67	U	µg/l	4.67	0.427	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.67	U	µg/l	4.67	0.298	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.67	U	µg/l	4.67	0.524	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.67	U	µg/l	4.67	0.629	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.67	U	µg/l	4.67	0.554	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-06-13)	18-051	Ground Water	13-Jun-18 11:41	14-Jun-18
SC47714-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	< 4.67	U	µg/l	4.67	0.379	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
206-44-0	Fluoranthene	< 4.67	U	µg/l	4.67	0.596	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.67	U	µg/l	4.67	0.572	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.67	U	µg/l	4.67	0.534	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.67	U	µg/l	4.67	0.363	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.67	U	µg/l	4.67	0.968	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.67	U	µg/l	4.67	0.597	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.67	U	µg/l	4.67	0.542	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.67	U	µg/l	4.67	0.548	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.67	U	µg/l	4.67	0.536	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.67	U	µg/l	4.67	0.621	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.35	U	µg/l	9.35	0.575	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.67	U	µg/l	4.67	0.640	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.67	U	µg/l	4.67	0.566	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.67	U	µg/l	4.67	0.507	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.67	U	µg/l	4.67	0.350	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.67	U	µg/l	4.67	0.645	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.67	U	µg/l	4.67	0.435	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.7	U	µg/l	18.7	0.783	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.67	U	µg/l	4.67	0.629	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.67	U	µg/l	4.67	0.540	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.67	U	µg/l	4.67	0.608	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.7	U	µg/l	18.7	0.349	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.67	U	µg/l	4.67	0.548	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.67	U	µg/l	4.67	0.603	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.67	U	µg/l	4.67	0.570	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.67	U	µg/l	4.67	0.765	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.67	U	µg/l	4.67	0.642	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.67	U	µg/l	4.67	0.685	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.67	U	µg/l	4.67	0.486	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.67	U	µg/l	4.67	0.484	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.67	U	µg/l	4.67	0.650	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.67	U	µg/l	4.67	0.678	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*43*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*39*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*45*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*30*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*49*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*60*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
	Tentatively Identified Compounds	None found		µg/l			1	SW846 8270D TICS	"	"	MSL	"	
Total Metals by EPA 200/6000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-7 (2018-06-13) SC47714-02	18-051	Ground Water	13-Jun-18 11:41	14-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	15-Jun-18		KP1	1808348	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	21-Jun-18	22-Jun-18	SJR/T	1808547	X
7429-90-5	Aluminum	**0.287**		mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.01835**		mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.303**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**265**		mg/l	0.100	0.0071	1	"	"	26-Jun-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	22-Jun-18	"	"	X
7440-48-4	Cobalt	**0.0020**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050	U	mg/l	0.0050	0.0023	1	"	"	"	"	"	X
7439-89-6	Iron	**3.71**		mg/l	0.125	0.0045	1	"	"	26-Jun-18	"	"	X
7440-09-7	Potassium	**4.68**		mg/l	0.500	0.0600	1	"	"	22-Jun-18	"	"	X
7439-95-4	Magnesium	**55.2**	GS1, D	mg/l	0.100	0.0221	5	"	"	26-Jun-18	"	"	X
7439-96-5	Manganese	**0.0418**	R05, R06, J, D	mg/l	0.625	0.0095	5	"	"	30-Jun-18	"	"	X
7440-23-5	Sodium	**1,310**	GS1, D	mg/l	7.50	0.392	10	"	"	26-Jun-18	"	"	X
7440-02-0	Nickel	**0.0020**	J	mg/l	0.0050	0.0009	1	"	"	22-Jun-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	26-Jun-18	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	22-Jun-18	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0250	R01, U, D	mg/l	0.0250	0.0105	5	"	"	26-Jun-18	"	"	X
7440-62-2	Vanadium	< 0.0050	U	mg/l	0.0050	0.0011	1	"	"	22-Jun-18	"	"	X
7440-66-6	Zinc	**0.0042**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	21-Jun-18	25-Jun-18	TSF/T	1808550	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-06-13)	18-051	Ground Water	13-Jun-18 12:40	14-Jun-18
SC47714-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 10.0	U, D	µg/l	10.0	5.81	10	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
67-64-1	Acetone	< 100	U, D	µg/l	100	37.6	10	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U, D	µg/l	5.00	4.75	10	"	"	"	"	"	X
71-43-2	Benzene	**44.1**	D	µg/l	10.0	3.39	10	"	"	"	"	"	X
108-86-1	Bromobenzene	< 10.0	U, D	µg/l	10.0	2.79	10	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 10.0	U, D	µg/l	10.0	3.39	10	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U, D	µg/l	5.00	2.91	10	"	"	"	"	"	X
75-25-2	Bromoform	< 10.0	U, D	µg/l	10.0	2.42	10	"	"	"	"	"	X
74-83-9	Bromomethane	< 20.0	U, D	µg/l	20.0	4.46	10	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.0	U, D	µg/l	20.0	7.03	10	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**39.7**	D	µg/l	10.0	4.68	10	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**17.0**	D	µg/l	10.0	3.11	10	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**6.50**	J, D	µg/l	10.0	2.96	10	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 20.0	U, D	µg/l	20.0	7.00	10	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 10.0	U, D	µg/l	10.0	3.92	10	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 10.0	U, D	µg/l	10.0	3.00	10	"	"	"	"	"	X
75-00-3	Chloroethane	< 20.0	U, D	µg/l	20.0	4.03	10	"	"	"	"	"	X
67-66-3	Chloroform	< 10.0	U, D	µg/l	10.0	2.86	10	"	"	"	"	"	X
74-87-3	Chloromethane	< 20.0	U, D	µg/l	20.0	3.60	10	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.13	10	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 20.0	U, D	µg/l	20.0	4.71	10	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U, D	µg/l	5.00	2.91	10	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U, D	µg/l	5.00	3.01	10	"	"	"	"	"	X
74-95-3	Dibromomethane	< 10.0	U, D	µg/l	10.0	2.72	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.45	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	3.00	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.72	10	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.0	U, D	µg/l	20.0	3.45	10	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 10.0	U, D	µg/l	10.0	1.81	10	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.14	10	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.97	10	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.80	10	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.89	10	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	4.45	10	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 10.0	U, D	µg/l	10.0	3.34	10	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.28	10	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.06	10	"	"	"	"	"	X
100-41-4	Ethylbenzene	**301**	D	µg/l	10.0	3.17	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U, D	µg/l	5.00	2.58	10	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 20.0	U, D	µg/l	20.0	6.34	10	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-06-13)	18-051	Ground Water	13-Jun-18 12:40	14-Jun-18
SC47714-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
98-82-8	Isopropylbenzene	**37.3**	D	µg/l	10.0	3.02	10	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
99-87-6	4-Isopropyltoluene	**16.5**	D	µg/l	10.0	4.20	10	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.95	10	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 20.0	U, D	µg/l	20.0	3.54	10	"	"	"	"	"	X
75-09-2	Methylene chloride	< 20.0	U, D	µg/l	20.0	3.85	10	"	"	"	"	"	X
91-20-3	Naphthalene	**171**	D	µg/l	20.0	13.9	10	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**116**	D	µg/l	10.0	3.20	10	"	"	"	"	"	X
100-42-5	Styrene	< 10.0	U, D	µg/l	10.0	3.28	10	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 10.0	U, D	µg/l	10.0	3.17	10	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U, D	µg/l	5.00	2.57	10	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 10.0	U, D	µg/l	10.0	3.11	10	"	"	"	"	"	X
108-88-3	Toluene	**42.7**	D	µg/l	10.0	2.90	10	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.81	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.23	10	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.90	10	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 10.0	U, D	µg/l	10.0	2.45	10	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 10.0	U, D	µg/l	10.0	3.09	10	"	"	"	"	"	X
79-01-6	Trichloroethene	< 10.0	U, D	µg/l	10.0	3.55	10	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 10.0	U, D	µg/l	10.0	2.76	10	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 10.0	U, D	µg/l	10.0	2.60	10	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**921**	D	µg/l	10.0	6.20	10	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**274**	D	µg/l	10.0	5.40	10	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 10.0	U, D	µg/l	10.0	4.02	10	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**693**	D	µg/l	20.0	4.74	10	"	"	"	"	"	X
95-47-6	o-Xylene	**163**	D	µg/l	10.0	4.10	10	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 20.0	U, D	µg/l	20.0	4.98	10	"	"	"	"	"	
60-29-7	Ethyl ether	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 10.0	U, D	µg/l	10.0	2.98	10	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.90	10	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 10.0	U, D	µg/l	10.0	2.94	10	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 100	U, D	µg/l	100	31.3	10	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 200	U, D	µg/l	200	58.1	10	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 50.0	U, D	µg/l	50.0	6.13	10	"	"	"	"	"	X
64-17-5	Ethanol	< 2000	U, D	µg/l	2000	132	10	"	"	"	"	"	X
110-82-7	Cyclohexane	**330**	NonTRG TIC, D	µg/l	50.0	4.36	10	"	"	"	"	"	X
108-87-2	Methylcyclohexane	**373**	NonTRG TIC, D	µg/l	50.0	3.90	10	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*100*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*105*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*99*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*94*			*70-130 %*			"	"	"	"	"	

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS			J N										
95-93-2	Benzene, 1,2,4,5-tetramethyl-	120	D	µg/l			10	SW846 8260C TICs	19-Jun-18	20-Jun-18	GMA	1808472	
933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	120	D	µg/l			10	"	"	"	"	"	
611-14-3	Benzene, 1-ethyl-2-methyl-	410	D	µg/l			10	"	"	"	"	"	
622-96-8	Benzene, 1-ethyl-4-methyl-	120	D	µg/l			10	"	"	"	"	"	
002039-89-6	Benzene, 2-ethenyl-1,4-dime...	160	D	µg/l			10	"	"	"	"	"	
96-37-7	Cyclopentane, methyl-	360	D	µg/l			10	"	"	"	"	"	
96-14-0	Pentane, 3-methyl-	140	D	µg/l			10	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.67	U	µg/l	4.67	0.646	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
208-96-8	Acenaphthylene	< 4.67	U	µg/l	4.67	0.638	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.67	U	µg/l	4.67	1.65	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.67	U	µg/l	4.67	0.568	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.67	U	µg/l	4.67	0.699	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.35	U	µg/l	9.35	1.07	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.67	U	µg/l	4.67	0.501	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.67	U	µg/l	4.67	0.525	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.67	U	µg/l	4.67	0.408	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.67	U	µg/l	4.67	0.495	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.67	U	µg/l	4.67	0.449	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.67	U	µg/l	4.67	0.493	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.67	U	µg/l	4.67	0.729	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.67	U	µg/l	4.67	0.622	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.67	U	µg/l	4.67	0.686	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.67	U	µg/l	4.67	0.727	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	2.53	J	µg/l	4.67	0.596	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.563	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.67	U	µg/l	4.67	0.409	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.67	U	µg/l	4.67	1.46	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.67	U	µg/l	4.67	0.468	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.67	U	µg/l	4.67	1.05	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.67	U	µg/l	4.67	0.551	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.67	U	µg/l	4.67	0.699	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.564	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.67	U	µg/l	4.67	0.497	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.67	U	µg/l	4.67	0.421	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.67	U	µg/l	4.67	0.692	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.525	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-06-13)	18-051	Ground Water	13-Jun-18 12:40	14-Jun-18
SC47714-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
541-73-1	1,3-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.605	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
106-46-7	1,4-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.574	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.67	U	µg/l	4.67	1.86	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.67	U	µg/l	4.67	0.495	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.67	U	µg/l	4.67	0.582	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.67	U	µg/l	4.67	0.708	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.67	U	µg/l	4.67	0.610	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.67	U	µg/l	4.67	0.427	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.67	U	µg/l	4.67	0.298	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.67	U	µg/l	4.67	0.524	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.67	U	µg/l	4.67	0.629	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.67	U	µg/l	4.67	0.554	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	**0.916**	J	µg/l	4.67	0.379	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.67	U	µg/l	4.67	0.596	1	"	"	"	"	"	X
86-73-7	Fluorene	**0.579**	J	µg/l	4.67	0.572	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.67	U	µg/l	4.67	0.534	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.67	U	µg/l	4.67	0.363	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.67	U	µg/l	4.67	0.968	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.67	U	µg/l	4.67	0.597	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.67	U	µg/l	4.67	0.542	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.67	U	µg/l	4.67	0.548	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**65.2**		µg/l	4.67	0.536	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.67	U	µg/l	4.67	0.621	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.35	U	µg/l	9.35	0.575	1	"	"	"	"	"	X
91-20-3	Naphthalene	**53.9**		µg/l	4.67	0.640	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.67	U	µg/l	4.67	0.566	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.67	U	µg/l	4.67	0.507	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.67	U	µg/l	4.67	0.350	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.67	U	µg/l	4.67	0.645	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.67	U	µg/l	4.67	0.435	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.7	U	µg/l	18.7	0.783	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.67	U	µg/l	4.67	0.629	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.67	U	µg/l	4.67	0.540	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.67	U	µg/l	4.67	0.608	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.7	U	µg/l	18.7	0.349	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.67	U	µg/l	4.67	0.548	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.67	U	µg/l	4.67	0.603	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.67	U	µg/l	4.67	0.570	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.67	U	µg/l	4.67	0.765	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.67	U	µg/l	4.67	0.642	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**27.8**		µg/l	4.67	0.685	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.67	U	µg/l	4.67	0.486	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.67	U	µg/l	4.67	0.484	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.67	U	µg/l	4.67	0.650	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-06-13) SC47714-03	18-051	Ground Water	13-Jun-18 12:40	14-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.67	U	µg/l	4.67	0.678	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*34*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*44*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*53*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*35*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*40*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*53*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
076089-59-3	1,3-Cyclopentadiene, 1,2,3,...	**26**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
018435-45-5	1-Nonadecene	**19**	J N	µg/l			1	"	"	"	"	"	
	1H-Indene, 2,3-dihydro-1,3-...	**18**	J N	µg/l			1	"	"	"	"	"	
	Benzene, (1-methylethyl)-	**16**	J N	µg/l			1	"	"	"	"	"	
95-36-3	Benzene, 1,2,3-trimethyl-	**94**	J N	µg/l			1	"	"	"	"	"	
95-93-2	Benzene, 1,2,4,5-tetramethyl-	**24**	J N	µg/l			1	"	"	"	"	"	
95-63-6	Benzene, 1,2,4-trimethyl-	**55**	J N	µg/l			1	"	"	"	"	"	
108-67-8	Benzene, 1,3,5-trimethyl-	**85**	J N	µg/l			1	"	"	"	"	"	
622-96-8	Benzene, 1-ethyl-4-methyl-	**140**	J N	µg/l			1	"	"	"	"	"	
000527-84-4	Benzene, 1-methyl-2-(1-meth...	**70**	J N	µg/l			1	"	"	"	"	"	
001074-43-7	Benzene, 1-methyl-3-propyl-	**59**	J N	µg/l			1	"	"	"	"	"	
001074-55-1	Benzene, 1-methyl-4-propyl-	**14**	J N	µg/l			1	"	"	"	"	"	
002039-89-6	Benzene, 2-ethenyl-1,4-dime...	**44**	J N	µg/l			1	"	"	"	"	"	
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	**81**	J N	µg/l			1	"	"	"	"	"	
103-65-1	Benzene, propyl-	**22**	J N	µg/l			1	"	"	"	"	"	
010544-50-0	Cyclic octaatomic sulfur	**42**	J N	µg/l			1	"	"	"	"	"	
100-41-4	Ethylbenzene	**79**	J N	µg/l			1	"	"	"	"	"	
496-11-7	Indane	**52**	J N	µg/l			1	"	"	"	"	"	
112-39-0	n-Hexadecanoic Acid	**24**	J N, B	µg/l			1	"	"	"	"	"	
106-42-3	p-Xylene	**200**	J N	µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	15-Jun-18		KP1	1808348	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	21-Jun-18	22-Jun-18	SJR/T	1808547	X
7429-90-5	Aluminum	< 0.0250	U	mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.01500**		mg/l	0.00400	0.00138	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-8 (2018-06-13) SC47714-03	18-051	Ground Water	13-Jun-18 12:40	14-Jun-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**1.87**		mg/l	0.0050	0.0007	1	SW846 6010C	21-Jun-18	22-Jun-18	SJR/T	1808547	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**262**	GS1, D	mg/l	0.500	0.0355	5	"	"	26-Jun-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	22-Jun-18	"	"	X
7440-48-4	Cobalt	< 0.0050	U	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050	U	mg/l	0.0050	0.0023	1	"	"	"	"	"	X
7439-89-6	Iron	**1.66**		mg/l	0.125	0.0045	1	"	"	26-Jun-18	"	"	X
7440-09-7	Potassium	**5.88**		mg/l	0.500	0.0600	1	"	"	22-Jun-18	"	"	X
7439-95-4	Magnesium	**43.4**		mg/l	0.0200	0.0044	1	"	"	"	"	"	X
7439-96-5	Manganese	**0.441**	R05, R06, J, D	mg/l	0.625	0.0095	5	"	"	26-Jun-18	"	"	X
7440-23-5	Sodium	**141**		mg/l	0.750	0.0392	1	"	"	22-Jun-18	"	"	X
7440-02-0	Nickel	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7439-92-1	Lead	**0.0168**		mg/l	0.0075	0.0062	1	"	"	26-Jun-18	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	22-Jun-18	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	< 0.0050	U	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0033**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	21-Jun-18	25-Jun-18	TSF/T	1808550	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-06-13)	18-051	Ground Water	13-Jun-18 13:15	14-Jun-18
SC47714-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	**0.79**	J	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**0.62**	J	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**1.11**		µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**0.73**	J	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	**2.14**		µg/l	1.00	0.30	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**1.92**		µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**0.85**	J	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**0.55**	J	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**0.60**	J	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*88*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS			J N										
105-05-5	Benzene, 1,4-diethyl-	**5.5**		µg/l			1	SW846 8260C TICs	"	"	GMA	"	
007525-62-4	Benzene, 1-ethenyl-3-ethyl-	**7.9**		µg/l			1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-06-13)	18-051	Ground Water	13-Jun-18 13:15	14-Jun-18
SC47714-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS			J N										
	Cyclohexane, 1,1-dimethyl-	7.2		µg/l			1	SW846 8260C TICs	19-Jun-18	20-Jun-18	GMA	1808472	
473-91-6	Cyclopentene, 1,2,3-trimethyl-	12		µg/l			1	"	"	"	"	"	
872-56-0	Isopropylcyclobutane	9.2		µg/l			1	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.67	U	µg/l	4.67	0.646	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
208-96-8	Acenaphthylene	< 4.67	U	µg/l	4.67	0.638	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.67	U	µg/l	4.67	1.65	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.67	U	µg/l	4.67	0.568	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.67	U	µg/l	4.67	0.699	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.35	U	µg/l	9.35	1.07	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.67	U	µg/l	4.67	0.501	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.67	U	µg/l	4.67	0.525	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.67	U	µg/l	4.67	0.408	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.67	U	µg/l	4.67	0.495	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.67	U	µg/l	4.67	0.449	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.67	U	µg/l	4.67	0.493	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.67	U	µg/l	4.67	0.729	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.67	U	µg/l	4.67	0.622	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.67	U	µg/l	4.67	0.686	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.67	U	µg/l	4.67	0.727	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	1.74	J	µg/l	4.67	0.596	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.563	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.67	U	µg/l	4.67	0.409	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.67	U	µg/l	4.67	1.46	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.67	U	µg/l	4.67	0.468	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.67	U	µg/l	4.67	1.05	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.67	U	µg/l	4.67	0.551	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.67	U	µg/l	4.67	0.699	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.564	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.67	U	µg/l	4.67	0.497	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.67	U	µg/l	4.67	0.421	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.67	U	µg/l	4.67	0.692	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.525	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.605	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.67	U	µg/l	4.67	0.574	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.67	U	µg/l	4.67	1.86	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.67	U	µg/l	4.67	0.495	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.67	U	µg/l	4.67	0.582	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.67	U	µg/l	4.67	0.708	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-06-13)	18-051	Ground Water	13-Jun-18 13:15	14-Jun-18
SC47714-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
105-67-9	2,4-Dimethylphenol	< 4.67	U	µg/l	4.67	0.610	1	SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	X
84-74-2	Di-n-butyl phthalate	< 4.67	U	µg/l	4.67	0.427	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.67	U	µg/l	4.67	0.298	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.67	U	µg/l	4.67	0.524	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.67	U	µg/l	4.67	0.629	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.67	U	µg/l	4.67	0.554	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4.67	U	µg/l	4.67	0.379	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.67	U	µg/l	4.67	0.596	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.67	U	µg/l	4.67	0.572	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.67	U	µg/l	4.67	0.534	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.67	U	µg/l	4.67	0.363	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.67	U	µg/l	4.67	0.968	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.67	U	µg/l	4.67	0.597	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.67	U	µg/l	4.67	0.542	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.67	U	µg/l	4.67	0.548	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.67	U	µg/l	4.67	0.536	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.67	U	µg/l	4.67	0.621	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.35	U	µg/l	9.35	0.575	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.67	U	µg/l	4.67	0.640	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.67	U	µg/l	4.67	0.566	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.67	U	µg/l	4.67	0.507	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.67	U	µg/l	4.67	0.350	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.67	U	µg/l	4.67	0.645	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.67	U	µg/l	4.67	0.435	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.7	U	µg/l	18.7	0.783	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.67	U	µg/l	4.67	0.629	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.67	U	µg/l	4.67	0.540	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.67	U	µg/l	4.67	0.608	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.7	U	µg/l	18.7	0.349	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.67	U	µg/l	4.67	0.548	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.67	U	µg/l	4.67	0.603	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.67	U	µg/l	4.67	0.570	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.67	U	µg/l	4.67	0.765	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.67	U	µg/l	4.67	0.642	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.67	U	µg/l	4.67	0.685	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.67	U	µg/l	4.67	0.486	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.67	U	µg/l	4.67	0.484	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.67	U	µg/l	4.67	0.650	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.67	U	µg/l	4.67	0.678	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*46*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*43*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*54*			*30-130 %*			"	"	"	"	"	

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-9 (2018-06-13) SC47714-04	18-051	Ground Water	13-Jun-18 13:15	14-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
4165-62-2	*Phenol-d5*	*33*			*15-110 %*			SW846 8270D	18-Jun-18	21-Jun-18	MSL	1808368	
1718-51-0	*Terphenyl-dl4*	*36*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*62*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
000050-84-0	Benzoic acid, 2,4-dichloro-	**8.5**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
112-39-0	n-Hexadecanoic Acid	**19**	J N, B	µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	15-Jun-18		KP1	1808348	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	21-Jun-18	22-Jun-18	SJR/T	1808547	X
7429-90-5	Aluminum	**2.19**		mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.00500**		mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.468**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**236**	GS1, D	mg/l	0.500	0.0355	5	"	"	26-Jun-18	"	"	X
7440-43-9	Cadmium	**0.0007**	J	mg/l	0.0025	0.0004	1	"	"	22-Jun-18	"	"	X
7440-48-4	Cobalt	**0.0016**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0039**	J	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0054**		mg/l	0.0050	0.0023	1	"	"	"	"	"	X
7439-89-6	Iron	**8.72**		mg/l	0.125	0.0045	1	"	"	26-Jun-18	"	"	X
7440-09-7	Potassium	**15.4**		mg/l	0.500	0.0600	1	"	"	22-Jun-18	"	"	X
7439-95-4	Magnesium	**38.6**		mg/l	0.0200	0.0044	1	"	"	"	"	"	X
7439-96-5	Manganese	**0.570**	R05, R06, J, D	mg/l	0.625	0.0095	5	"	"	26-Jun-18	"	"	X
7440-23-5	Sodium	**465**	GS1, D	mg/l	3.75	0.196	5	"	"	"	"	"	X
7440-02-0	Nickel	**0.0030**	J	mg/l	0.0050	0.0009	1	"	"	22-Jun-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	26-Jun-18	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	22-Jun-18	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	**0.0048**	J	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0117**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	21-Jun-18	25-Jun-18	TSF/T	1808550	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank (2018-06)	18-051	Aqueous	13-Jun-18 00:00	14-Jun-18
SC47714-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank (2018-06)	18-051	Aqueous	13-Jun-18 00:00	14-Jun-18
SC47714-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*96*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*89*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	None found		µg/l			1	SW846 8260C TICs	"	"	GMA	"	

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-06-13)	18-051	Ground Water	13-Jun-18 00:00	14-Jun-18
SC47714-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	**42.6**		µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**38.0**		µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**14.5**		µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**2.82**		µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	**227**	E	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-06-13)	18-051	Ground Water	13-Jun-18 00:00	14-Jun-18
SC47714-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	**40.1**		µg/l	1.00	0.30	1	SW846 8260C	19-Jun-18	20-Jun-18	GMA	1808472	X
99-87-6	4-Isopropyltoluene	**13.8**		µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	**147**	E	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**118**	E	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	**42.9**		µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**370**	E	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**226**	E	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**489**	E	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	**147**	E	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	**43.4**	J	µg/l	200	13.2	1	"	"	"	"	"	X
110-82-7	Cyclohexane	**238**	NonTRG TIC, E	µg/l	5.00	0.44	1	"	"	"	"	"	X
108-87-2	Methylcyclohexane	**285**	NonTRG TIC, E	µg/l	5.00	0.39	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*108*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*108*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*93*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*81*			*70-130 %*			"	"	"	"	"	

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-06-13) SC47714-06	18-051	Ground Water	13-Jun-18 00:00	14-Jun-18

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 Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
100-41-4	Ethylbenzene	**342**	D	µg/l	20.0	6.34	20	SW846 8260C	21-Jun-18	21-Jun-18	GMA	1808627	X
91-20-3	Naphthalene	**204**	D	µg/l	40.0	27.8	20	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**115**	D	µg/l	20.0	6.40	20	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**1,120**	D	µg/l	20.0	12.4	20	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**313**	D	µg/l	20.0	10.8	20	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**739**	D	µg/l	40.0	9.48	20	"	"	"	"	"	X
95-47-6	o-Xylene	**126**	D	µg/l	20.0	8.20	20	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*108*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*109*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5030 Water MS			J N										
611-14-3	Benzene, 1-ethyl-2-methyl-	**100**		µg/l			1	SW846 8260C TICs	19-Jun-18	20-Jun-18	GMA	1808472	
78-78-4	Butane, 2-methyl-	**92**		µg/l			1	"	"	"	"	"	
001528-22-9	Cyclobutane, (1-methylethyl...	**64**		µg/l			1	"	"	"	"	"	
000638-04-0	Cyclohexane, 1,3-dimethyl-,...	**62**		µg/l			1	"	"	"	"	"	
000822-50-4	Cyclopentane, 1,2-dimethyl-...	**53**		µg/l			1	"	"	"	"	"	
2453-00-1	Cyclopentane, 1,3-dimethyl-	**59**		µg/l			1	"	"	"	"	"	
96-37-7	Cyclopentane, methyl-	**220**		µg/l			1	"	"	"	"	"	
107-83-5	Pentane, 2-methyl-	**180**		µg/l			1	"	"	"	"	"	
96-14-0	Pentane, 3-methyl-	**88**		µg/l			1	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C			GS1										
83-32-9	Acenaphthene	< 23.4	U, D	µg/l	23.4	3.23	5	SW846 8270D	18-Jun-18	25-Jun-18	MSL	1808368	X
208-96-8	Acenaphthylene	< 23.4	U, D	µg/l	23.4	3.19	5	"	"	"	"	"	X
62-53-3	Aniline	< 23.4	U, D	µg/l	23.4	8.27	5	"	"	"	"	"	X
120-12-7	Anthracene	< 23.4	U, D	µg/l	23.4	2.84	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 23.4	U, D	µg/l	23.4	3.50	5	"	"	"	"	"	
92-87-5	Benzidine	< 46.7	U, D	µg/l	46.7	5.36	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 23.4	U, D	µg/l	23.4	2.50	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 23.4	U, D	µg/l	23.4	2.63	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 23.4	U, D	µg/l	23.4	2.04	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 23.4	U, D	µg/l	23.4	2.48	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 23.4	U, D	µg/l	23.4	2.24	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 23.4	U, D	µg/l	23.4	2.46	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 23.4	U, D	µg/l	23.4	3.64	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 23.4	U, D	µg/l	23.4	3.11	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-06-13) SC47714-06	18-051	Ground Water	13-Jun-18 00:00	14-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			GS1										
111-44-4	Bis(2-chloroethyl)ether	< 23.4	U, D	µg/l	23.4	3.43	5	SW846 8270D	18-Jun-18	25-Jun-18	MSL	1808368	X
108-60-1	Bis(2-chloroisopropyl)ether	< 23.4	U, D	µg/l	23.4	3.64	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	**5.05**	J, D	µg/l	23.4	2.98	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 23.4	U, D	µg/l	23.4	2.81	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 23.4	U, D	µg/l	23.4	2.05	5	"	"	"	"	"	X
86-74-8	Carbazole	< 23.4	U, D	µg/l	23.4	7.29	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 23.4	U, D	µg/l	23.4	2.34	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 23.4	U, D	µg/l	23.4	5.24	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 23.4	U, D	µg/l	23.4	2.76	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 23.4	U, D	µg/l	23.4	3.50	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 23.4	U, D	µg/l	23.4	2.82	5	"	"	"	"	"	X
218-01-9	Chrysene	< 23.4	U, D	µg/l	23.4	2.49	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 23.4	U, D	µg/l	23.4	2.10	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 23.4	U, D	µg/l	23.4	3.46	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 23.4	U, D	µg/l	23.4	2.63	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 23.4	U, D	µg/l	23.4	3.02	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 23.4	U, D	µg/l	23.4	2.87	5	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 23.4	U, D	µg/l	23.4	9.29	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 23.4	U, D	µg/l	23.4	2.48	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 23.4	U, D	µg/l	23.4	2.91	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 23.4	U, D	µg/l	23.4	3.54	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 23.4	U, D	µg/l	23.4	3.05	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 23.4	U, D	µg/l	23.4	2.14	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 23.4	U, D	µg/l	23.4	1.49	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 23.4	U, D	µg/l	23.4	2.62	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 23.4	U, D	µg/l	23.4	3.14	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 23.4	U, D	µg/l	23.4	2.77	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 23.4	U, D	µg/l	23.4	1.90	5	"	"	"	"	"	X
206-44-0	Fluoranthene	< 23.4	U, D	µg/l	23.4	2.98	5	"	"	"	"	"	X
86-73-7	Fluorene	< 23.4	U, D	µg/l	23.4	2.86	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 23.4	U, D	µg/l	23.4	2.67	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 23.4	U, D	µg/l	23.4	1.81	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 23.4	U, D	µg/l	23.4	4.84	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 23.4	U, D	µg/l	23.4	2.99	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 23.4	U, D	µg/l	23.4	2.71	5	"	"	"	"	"	X
78-59-1	Isophorone	< 23.4	U, D	µg/l	23.4	2.74	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**162**	D	µg/l	23.4	2.68	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 23.4	U, D	µg/l	23.4	3.11	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 46.7	U, D	µg/l	46.7	2.87	5	"	"	"	"	"	X
91-20-3	Naphthalene	**82.7**	D	µg/l	23.4	3.20	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 23.4	U, D	µg/l	23.4	2.83	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 23.4	U, D	µg/l	23.4	2.54	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-06-13)	18-051	Ground Water	13-Jun-18 00:00	14-Jun-18
SC47714-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			GS1										
100-01-6	4-Nitroaniline	< 23.4	U, D	µg/l	23.4	1.75	5	SW846 8270D	18-Jun-18	25-Jun-18	MSL	1808368	X
98-95-3	Nitrobenzene	< 23.4	U, D	µg/l	23.4	3.22	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 23.4	U, D	µg/l	23.4	2.17	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 93.5	U, D	µg/l	93.5	3.92	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 23.4	U, D	µg/l	23.4	3.14	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 23.4	U, D	µg/l	23.4	2.70	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 23.4	U, D	µg/l	23.4	3.04	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 93.5	U, D	µg/l	93.5	1.74	5	"	"	"	"	"	X
85-01-8	Phenanthrene	< 23.4	U, D	µg/l	23.4	2.74	5	"	"	"	"	"	X
108-95-2	Phenol	< 23.4	U, D	µg/l	23.4	3.01	5	"	"	"	"	"	X
129-00-0	Pyrene	< 23.4	U, D	µg/l	23.4	2.85	5	"	"	"	"	"	X
110-86-1	Pyridine	< 23.4	U, D	µg/l	23.4	3.83	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 23.4	U, D	µg/l	23.4	3.21	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**53.3**	D	µg/l	23.4	3.43	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 23.4	U, D	µg/l	23.4	2.43	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 23.4	U, D	µg/l	23.4	2.42	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 23.4	U, D	µg/l	23.4	3.25	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 23.4	U, D	µg/l	23.4	3.39	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*29*	SBN		*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*28*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*52*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*35*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*33*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*36*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds			GS1										
	1H-Indene, 2,3-dihydro-1,3-...	**57**	J N, D	µg/l			5	SW846 8270D TICS	"	"	MSL	"	
002783-26-8	2-Tolyloxirane	**300**	J N, D	µg/l			5	"	"	"	"	"	
53172-84-2	Benzene, (1-methyl-1-butenyl)-	**220**	J N, D	µg/l			5	"	"	"	"	"	
95-36-3	Benzene, 1,2,3-trimethyl-	**220**	J N, D	µg/l			5	"	"	"	"	"	
000095-93-2	Benzene, 1,2,4,5-tetramethyl- (01)	**320**	J N, D	µg/l			5	"	"	"	"	"	
135-01-3	Benzene, 1,2-diethyl-	**170**	J N, D	µg/l			5	"	"	"	"	"	
933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	**120**	J N, D	µg/l			5	"	"	"	"	"	
000611-14-3	Benzene, 1-ethyl-2-methyl- (01)	**320**	J N, D	µg/l			5	"	"	"	"	"	
000620-14-4	Benzene, 1-ethyl-3-methyl-	**260**	J N, D	µg/l			5	"	"	"	"	"	
000527-84-4	Benzene, 1-methyl-2-(1-meth...	**290**	J N, D	µg/l			5	"	"	"	"	"	
001074-55-1	Benzene, 1-methyl-4-propyl-	**63**	J N, D	µg/l			5	"	"	"	"	"	
103-65-1	Benzene, propyl-	**58**	J N, D	µg/l			5	"	"	"	"	"	
010544-50-0	Cyclic octaatomic sulfur	**57**	J N, D	µg/l			5	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D (2018-06-13) SC47714-06	18-051	Ground Water	13-Jun-18 00:00	14-Jun-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Tentatively Identified Compounds			GS1										
100-41-4	Ethylbenzene	**66**	J N, D	µg/l			5	SW846 8270D TICS	18-Jun-18	25-Jun-18	MSL	1808368	
496-11-7	Indane	**110**	J N, D	µg/l			5	"	"	"	"	"	
106-42-3	p-Xylene	**160**	J N, D	µg/l			5	"	"	"	"	"	
1120-21-4	Undecane	**120**	J N, D	µg/l			5	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	15-Jun-18		KP1	1808348	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	21-Jun-18	22-Jun-18	SJR/T	1808547	X
7429-90-5	Aluminum	< 0.0250	U	mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.01765**		mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**1.87**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**269**	GS1, D	mg/l	0.500	0.0355	5	"	"	26-Jun-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	22-Jun-18	"	"	X
7440-48-4	Cobalt	< 0.0050	U	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050	U	mg/l	0.0050	0.0023	1	"	"	"	"	"	X
7439-89-6	Iron	**1.60**		mg/l	0.125	0.0045	1	"	"	26-Jun-18	"	"	X
7440-09-7	Potassium	**5.86**		mg/l	0.500	0.0600	1	"	"	22-Jun-18	"	"	X
7439-95-4	Magnesium	**43.3**		mg/l	0.0200	0.0044	1	"	"	"	"	"	X
7439-96-5	Manganese	**0.456**	R05, R06, J, D	mg/l	0.625	0.0095	5	"	"	26-Jun-18	"	"	X
7440-23-5	Sodium	**140**		mg/l	0.750	0.0392	1	"	"	22-Jun-18	"	"	X
7440-02-0	Nickel	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7439-92-1	Lead	**0.0166**		mg/l	0.0075	0.0062	1	"	"	26-Jun-18	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	22-Jun-18	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	< 0.0050	U	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0026**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	21-Jun-18	25-Jun-18	TSF/T	1808550	X

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
Blank (1808472-BLK1)					Prepared & Analyzed: 19-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 2.00	U	µg/l	2.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
Blank (1808472-BLK1)					Prepared & Analyzed: 19-Jun-18					
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*50.5*		µg/l		*50.0*		*101*	*70-130*		
LCS (1808472-BS1)					Prepared & Analyzed: 19-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.3**		µg/l		20.0		107	70-130		
Acetone	**17.9**		µg/l		20.0		90	70-130		
Acrylonitrile	**21.8**		µg/l		20.0		109	70-130		
Benzene	**22.0**		µg/l		20.0		110	70-130		
Bromobenzene	**20.8**		µg/l		20.0		104	70-130		
Bromochloromethane	**20.0**		µg/l		20.0		100	70-130		
Bromodichloromethane	**20.2**		µg/l		20.0		101	70-130		
Bromoform	**19.2**		µg/l		20.0		96	70-130		
Bromomethane	**19.9**		µg/l		20.0		100	70-130		
2-Butanone (MEK)	**25.0**		µg/l		20.0		125	70-130		
n-Butylbenzene	**19.5**		µg/l		20.0		98	70-130		
sec-Butylbenzene	**17.6**		µg/l		20.0		88	70-130		
tert-Butylbenzene	**19.1**		µg/l		20.0		95	70-130		
Carbon disulfide	**21.8**		µg/l		20.0		109	70-130		
Carbon tetrachloride	**20.2**		µg/l		20.0		101	70-130		
Chlorobenzene	**19.9**		µg/l		20.0		99	70-130		
Chloroethane	**16.7**		µg/l		20.0		84	70-130		
Chloroform	**18.2**		µg/l		20.0		91	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
LCS (1808472-BS1)					Prepared & Analyzed: 19-Jun-18					
Chloromethane	**28.8**		µg/l		20.0		144	70-130		
2-Chlorotoluene	**19.4**		µg/l		20.0		97	70-130		
4-Chlorotoluene	**19.2**		µg/l		20.0		96	70-130		
1,2-Dibromo-3-chloropropane	**22.7**		µg/l		20.0		114	70-130		
Dibromochloromethane	**19.2**		µg/l		20.0		96	70-130		
1,2-Dibromoethane (EDB)	**20.0**		µg/l		20.0		100	70-130		
Dibromomethane	**19.8**		µg/l		20.0		99	70-130		
1,2-Dichlorobenzene	**20.9**		µg/l		20.0		104	70-130		
1,3-Dichlorobenzene	**16.4**		µg/l		20.0		82	70-130		
1,4-Dichlorobenzene	**19.9**		µg/l		20.0		99	70-130		
Dichlorodifluoromethane (Freon12)	**26.3**		µg/l		20.0		131	70-130		
1,1-Dichloroethane	**21.7**		µg/l		20.0		109	70-130		
1,2-Dichloroethane	**19.9**		µg/l		20.0		100	70-130		
1,1-Dichloroethene	**20.1**		µg/l		20.0		100	70-130		
cis-1,2-Dichloroethene	**20.3**		µg/l		20.0		101	70-130		
trans-1,2-Dichloroethene	**20.4**		µg/l		20.0		102	70-130		
1,2-Dichloropropane	**22.8**		µg/l		20.0		114	70-130		
1,3-Dichloropropane	**21.4**		µg/l		20.0		107	70-130		
2,2-Dichloropropane	**23.9**		µg/l		20.0		119	70-130		
1,1-Dichloropropene	**19.2**		µg/l		20.0		96	70-130		
cis-1,3-Dichloropropene	**20.7**		µg/l		20.0		103	70-130		
trans-1,3-Dichloropropene	**21.1**		µg/l		20.0		105	70-130		
Ethylbenzene	**20.0**		µg/l		20.0		100	70-130		
Hexachlorobutadiene	**21.4**		µg/l		20.0		107	70-130		
2-Hexanone (MBK)	**19.6**		µg/l		20.0		98	70-130		
Isopropylbenzene	**19.5**		µg/l		20.0		97	70-130		
4-Isopropyltoluene	**21.9**		µg/l		20.0		109	70-130		
Methyl tert-butyl ether	**18.3**		µg/l		20.0		91	70-130		
4-Methyl-2-pentanone (MIBK)	**21.8**		µg/l		20.0		109	70-130		
Methylene chloride	**19.6**		µg/l		20.0		98	70-130		
Naphthalene	**18.4**		µg/l		20.0		92	70-130		
n-Propylbenzene	**19.7**		µg/l		20.0		98	70-130		
Styrene	**19.1**		µg/l		20.0		96	70-130		
1,1,1,2-Tetrachloroethane	**20.8**		µg/l		20.0		104	70-130		
1,1,2,2-Tetrachloroethane	**21.6**		µg/l		20.0		108	70-130		
Tetrachloroethene	**19.1**		µg/l		20.0		95	70-130		
Toluene	**20.5**		µg/l		20.0		103	70-130		
1,2,3-Trichlorobenzene	**19.1**		µg/l		20.0		95	70-130		
1,2,4-Trichlorobenzene	**18.1**		µg/l		20.0		91	70-130		
1,3,5-Trichlorobenzene	**19.0**		µg/l		20.0		95	70-130		
1,1,1-Trichloroethane	**20.6**		µg/l		20.0		103	70-130		
1,1,2-Trichloroethane	**19.7**		µg/l		20.0		99	70-130		
Trichloroethene	**21.4**		µg/l		20.0		107	70-130		
Trichlorofluoromethane (Freon 11)	**19.2**		µg/l		20.0		96	70-130		
1,2,3-Trichloropropane	**23.5**		µg/l		20.0		117	70-130		
1,2,4-Trimethylbenzene	**18.7**		µg/l		20.0		94	70-130		
1,3,5-Trimethylbenzene	**19.6**		µg/l		20.0		98	70-130		
Vinyl chloride	**29.8**	QC2	µg/l		20.0		149	70-130		
m,p-Xylene	**18.5**		µg/l		20.0		92	70-130		
o-Xylene	**18.9**		µg/l		20.0		94	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
LCS (1808472-BS1)					Prepared & Analyzed: 19-Jun-18					
Tetrahydrofuran	**21.2**		µg/l		20.0		106	70-130		
Ethyl ether	**17.7**		µg/l		20.0		89	70-130		
Tert-amyl methyl ether	**18.3**		µg/l		20.0		91	70-130		
Ethyl tert-butyl ether	**17.9**		µg/l		20.0		89	70-130		
Di-isopropyl ether	**19.6**		µg/l		20.0		98	70-130		
Tert-Butanol / butyl alcohol	**188**		µg/l		200		94	70-130		
1,4-Dioxane	**192**		µg/l		200		96	70-130		
trans-1,4-Dichloro-2-butene	**24.3**		µg/l		20.0		122	70-130		
Ethanol	**381**		µg/l		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*49.0*		µg/l		*50.0*		*98*	*70-130*		
LCS Dup (1808472-BSD1)					Prepared & Analyzed: 19-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.4**		µg/l		20.0		97	70-130	10	20
Acetone	**20.5**		µg/l		20.0		102	70-130	13	20
Acrylonitrile	**24.5**		µg/l		20.0		122	70-130	11	20
Benzene	**22.4**		µg/l		20.0		112	70-130	1	20
Bromobenzene	**20.8**		µg/l		20.0		104	70-130	0.2	20
Bromochloromethane	**21.6**		µg/l		20.0		108	70-130	8	20
Bromodichloromethane	**20.9**		µg/l		20.0		105	70-130	3	20
Bromoform	**19.8**		µg/l		20.0		99	70-130	3	20
Bromomethane	**19.4**		µg/l		20.0		97	70-130	3	20
2-Butanone (MEK)	**25.6**		µg/l		20.0		128	70-130	2	20
n-Butylbenzene	**19.7**		µg/l		20.0		98	70-130	0.7	20
sec-Butylbenzene	**17.9**		µg/l		20.0		90	70-130	2	20
tert-Butylbenzene	**19.6**		µg/l		20.0		98	70-130	3	20
Carbon disulfide	**20.8**		µg/l		20.0		104	70-130	5	20
Carbon tetrachloride	**19.5**		µg/l		20.0		97	70-130	4	20
Chlorobenzene	**20.3**		µg/l		20.0		102	70-130	2	20
Chloroethane	**15.7**		µg/l		20.0		78	70-130	6	20
Chloroform	**18.6**		µg/l		20.0		93	70-130	2	20
Chloromethane	**29.2**		µg/l		20.0		146	70-130	2	20
2-Chlorotoluene	**19.3**		µg/l		20.0		97	70-130	0.4	20
4-Chlorotoluene	**19.0**		µg/l		20.0		95	70-130	0.7	20
1,2-Dibromo-3-chloropropane	**23.6**		µg/l		20.0		118	70-130	4	20
Dibromochloromethane	**20.2**		µg/l		20.0		101	70-130	5	20
1,2-Dibromoethane (EDB)	**21.2**		µg/l		20.0		106	70-130	6	20
Dibromomethane	**20.9**		µg/l		20.0		104	70-130	5	20
1,2-Dichlorobenzene	**21.6**		µg/l		20.0		108	70-130	3	20
1,3-Dichlorobenzene	**16.9**		µg/l		20.0		85	70-130	3	20
1,4-Dichlorobenzene	**20.0**		µg/l		20.0		100	70-130	0.7	20
Dichlorodifluoromethane (Freon12)	**24.9**		µg/l		20.0		124	70-130	5	20
1,1-Dichloroethane	**22.2**		µg/l		20.0		111	70-130	2	20
1,2-Dichloroethane	**20.9**		µg/l		20.0		104	70-130	5	20
1,1-Dichloroethene	**20.0**		µg/l		20.0		100	70-130	0.3	20
cis-1,2-Dichloroethene	**21.1**		µg/l		20.0		106	70-130	4	20
trans-1,2-Dichloroethene	**20.2**		µg/l		20.0		101	70-130	1	20
1,2-Dichloropropane	**23.3**		µg/l		20.0		116	70-130	2	20
1,3-Dichloropropane	**22.9**		µg/l		20.0		115	70-130	7	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
LCS Dup (1808472-BSD1)					Prepared & Analyzed: 19-Jun-18					
2,2-Dichloropropane	**23.0**		µg/l		20.0		115	70-130	4	20
1,1-Dichloropropene	**18.7**		µg/l		20.0		94	70-130	2	20
cis-1,3-Dichloropropene	**21.8**		µg/l		20.0		109	70-130	5	20
trans-1,3-Dichloropropene	**21.7**		µg/l		20.0		108	70-130	3	20
Ethylbenzene	**19.8**		µg/l		20.0		99	70-130	1	20
Hexachlorobutadiene	**22.0**		µg/l		20.0		110	70-130	2	20
2-Hexanone (MBK)	**20.0**		µg/l		20.0		100	70-130	2	20
Isopropylbenzene	**19.1**		µg/l		20.0		96	70-130	2	20
4-Isopropyltoluene	**21.8**		µg/l		20.0		109	70-130	0.1	20
Methyl tert-butyl ether	**19.4**		µg/l		20.0		97	70-130	6	20
4-Methyl-2-pentanone (MIBK)	**22.9**		µg/l		20.0		115	70-130	5	20
Methylene chloride	**21.4**		µg/l		20.0		107	70-130	9	20
Naphthalene	**18.8**		µg/l		20.0		94	70-130	2	20
n-Propylbenzene	**19.6**		µg/l		20.0		98	70-130	0.6	20
Styrene	**18.1**		µg/l		20.0		90	70-130	5	20
1,1,1,2-Tetrachloroethane	**21.2**		µg/l		20.0		106	70-130	2	20
1,1,2,2-Tetrachloroethane	**22.5**		µg/l		20.0		112	70-130	4	20
Tetrachloroethene	**18.7**		µg/l		20.0		93	70-130	2	20
Toluene	**20.3**		µg/l		20.0		101	70-130	1	20
1,2,3-Trichlorobenzene	**20.3**		µg/l		20.0		101	70-130	6	20
1,2,4-Trichlorobenzene	**19.5**		µg/l		20.0		98	70-130	7	20
1,3,5-Trichlorobenzene	**19.9**		µg/l		20.0		100	70-130	5	20
1,1,1-Trichloroethane	**19.8**		µg/l		20.0		99	70-130	4	20
1,1,2-Trichloroethane	**21.4**		µg/l		20.0		107	70-130	8	20
Trichloroethene	**20.8**		µg/l		20.0		104	70-130	3	20
Trichlorofluoromethane (Freon 11)	**17.8**		µg/l		20.0		89	70-130	8	20
1,2,3-Trichloropropane	**23.8**		µg/l		20.0		119	70-130	2	20
1,2,4-Trimethylbenzene	**17.7**		µg/l		20.0		88	70-130	6	20
1,3,5-Trimethylbenzene	**18.5**		µg/l		20.0		92	70-130	6	20
Vinyl chloride	**28.0**	QC2	µg/l		20.0		140	70-130	6	20
m,p-Xylene	**18.3**		µg/l		20.0		92	70-130	1	20
o-Xylene	**18.6**		µg/l		20.0		93	70-130	1	20
Tetrahydrofuran	**22.9**		µg/l		20.0		114	70-130	8	20
Ethyl ether	**18.1**		µg/l		20.0		91	70-130	2	20
Tert-amyl methyl ether	**20.0**		µg/l		20.0		100	70-130	9	20
Ethyl tert-butyl ether	**19.3**		µg/l		20.0		97	70-130	8	20
Di-isopropyl ether	**21.2**		µg/l		20.0		106	70-130	8	20
Tert-Butanol / butyl alcohol	**198**		µg/l		200		99	70-130	5	20
1,4-Dioxane	**169**		µg/l		200		84	70-130	13	20
trans-1,4-Dichloro-2-butene	**24.1**		µg/l		20.0		120	70-130	1	20
Ethanol	**457**		µg/l		400		114	70-130	18	20
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.1*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*49.9*		µg/l		*50.0*		*100*	*70-130*		
Matrix Spike (1808472-MS1)			**Source: SC47714-03**		Prepared & Analyzed: 19-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.7**	D	µg/l		20.0	0.00	89	70-130		
Acetone	**22.4**	D	µg/l		20.0	0.00	112	70-130		
Acrylonitrile	**56.8**	QM7, D	µg/l		20.0	0.00	284	70-130		
Benzene	**26.6**	D	µg/l		20.0	4.41	111	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
Matrix Spike (1808472-MS1)			**Source: SC47714-03**			Prepared & Analyzed: 19-Jun-18				
Bromobenzene	**19.4**	D	µg/l		20.0	0.00	97	70-130		
Bromochloromethane	**18.9**	D	µg/l		20.0	0.00	95	70-130		
Bromodichloromethane	**19.2**	D	µg/l		20.0	0.00	96	70-130		
Bromoform	**18.8**	D	µg/l		20.0	0.00	94	70-130		
Bromomethane	**15.3**	D	µg/l		20.0	0.00	76	70-130		
2-Butanone (MEK)	**43.1**	QM7, D	µg/l		20.0	0.00	216	70-130		
n-Butylbenzene	**27.4**	D	µg/l		20.0	3.97	117	70-130		
sec-Butylbenzene	**20.1**	D	µg/l		20.0	1.70	92	70-130		
tert-Butylbenzene	**19.8**	D	µg/l		20.0	0.65	96	70-130		
Carbon disulfide	**18.7**	D	µg/l		20.0	0.00	93	70-130		
Carbon tetrachloride	**19.2**	D	µg/l		20.0	0.00	96	70-130		
Chlorobenzene	**19.5**	D	µg/l		20.0	0.00	98	70-130		
Chloroethane	**13.1**	QM7, D	µg/l		20.0	0.00	66	70-130		
Chloroform	**16.4**	D	µg/l		20.0	0.00	82	70-130		
Chloromethane	**25.1**	D	µg/l		20.0	0.00	125	70-130		
2-Chlorotoluene	**23.6**	D	µg/l		20.0	0.00	118	70-130		
4-Chlorotoluene	**19.0**	D	µg/l		20.0	0.00	95	70-130		
1,2-Dibromo-3-chloropropane	**30.3**	QM7, D	µg/l		20.0	0.00	152	70-130		
Dibromochloromethane	**20.1**	D	µg/l		20.0	0.00	101	70-130		
1,2-Dibromoethane (EDB)	**21.8**	D	µg/l		20.0	0.00	109	70-130		
Dibromomethane	**20.7**	D	µg/l		20.0	0.00	104	70-130		
1,2-Dichlorobenzene	**23.2**	D	µg/l		20.0	0.00	116	70-130		
1,3-Dichlorobenzene	**17.1**	D	µg/l		20.0	0.00	86	70-130		
1,4-Dichlorobenzene	**20.1**	D	µg/l		20.0	0.00	100	70-130		
Dichlorodifluoromethane (Freon12)	**21.5**	D	µg/l		20.0	0.00	108	70-130		
1,1-Dichloroethane	**20.2**	D	µg/l		20.0	0.00	101	70-130		
1,2-Dichloroethane	**18.5**	D	µg/l		20.0	0.00	92	70-130		
1,1-Dichloroethene	**17.3**	D	µg/l		20.0	0.00	86	70-130		
cis-1,2-Dichloroethene	**21.2**	D	µg/l		20.0	0.00	106	70-130		
trans-1,2-Dichloroethene	**18.9**	D	µg/l		20.0	0.00	95	70-130		
1,2-Dichloropropane	**24.6**	D	µg/l		20.0	0.00	123	70-130		
1,3-Dichloropropane	**23.6**	D	µg/l		20.0	0.00	118	70-130		
2,2-Dichloropropane	**18.6**	D	µg/l		20.0	0.00	93	70-130		
1,1-Dichloropropene	**19.4**	D	µg/l		20.0	0.00	97	70-130		
cis-1,3-Dichloropropene	**25.7**	D	µg/l		20.0	0.00	128	70-130		
trans-1,3-Dichloropropene	**21.2**	D	µg/l		20.0	0.00	106	70-130		
Ethylbenzene	**50.5**	D	µg/l		20.0	30.1	102	70-130		
Hexachlorobutadiene	**24.4**	D	µg/l		20.0	0.00	122	70-130		
2-Hexanone (MBK)	**27.4**	QM7, D	µg/l		20.0	0.00	137	70-130		
Isopropylbenzene	**24.0**	D	µg/l		20.0	3.73	101	70-130		
4-Isopropyltoluene	**28.4**	QM7, D	µg/l		20.0	1.65	134	70-130		
Methyl tert-butyl ether	**18.3**	D	µg/l		20.0	0.00	92	70-130		
4-Methyl-2-pentanone (MIBK)	**27.5**	QM7, D	µg/l		20.0	0.00	138	70-130		
Methylene chloride	**19.4**	D	µg/l		20.0	0.00	97	70-130		
Naphthalene	**46.2**	QM7, D	µg/l		20.0	17.1	145	70-130		
n-Propylbenzene	**32.4**	D	µg/l		20.0	11.6	104	70-130		
Styrene	**19.9**	D	µg/l		20.0	0.00	99	70-130		
1,1,1,2-Tetrachloroethane	**19.5**	D	µg/l		20.0	0.00	98	70-130		
1,1,2,2-Tetrachloroethane	**22.0**	D	µg/l		20.0	0.00	110	70-130		
Tetrachloroethene	**19.6**	D	µg/l		20.0	0.00	98	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
Matrix Spike (1808472-MS1)			**Source: SC47714-03**			Prepared & Analyzed: 19-Jun-18				
Toluene	**24.5**	D	µg/l		20.0	4.27	101	70-130		
1,2,3-Trichlorobenzene	**26.4**	QM7, D	µg/l		20.0	0.00	132	70-130		
1,2,4-Trichlorobenzene	**26.8**	QM7, D	µg/l		20.0	0.00	134	70-130		
1,3,5-Trichlorobenzene	**24.6**	D	µg/l		20.0	0.00	123	70-130		
1,1,1-Trichloroethane	**17.8**	D	µg/l		20.0	0.00	89	70-130		
1,1,2-Trichloroethane	**42.5**	QM7, D	µg/l		20.0	0.00	212	70-130		
Trichloroethene	**20.7**	D	µg/l		20.0	0.00	104	70-130		
Trichlorofluoromethane (Freon 11)	**15.8**	D	µg/l		20.0	0.00	79	70-130		
1,2,3-Trichloropropane	**25.7**	D	µg/l		20.0	0.00	129	70-130		
1,2,4-Trimethylbenzene	**119**	QM7, D, E	µg/l		20.0	92.1	137	70-130		
1,3,5-Trimethylbenzene	**50.3**	D	µg/l		20.0	27.4	114	70-130		
Vinyl chloride	**25.0**	D	µg/l		20.0	0.00	125	70-130		
m,p-Xylene	**90.6**	D	µg/l		20.0	69.3	106	70-130		
o-Xylene	**38.6**	D	µg/l		20.0	16.3	111	70-130		
Tetrahydrofuran	**30.0**	QM7, D	µg/l		20.0	0.00	150	70-130		
Ethyl ether	**17.5**	D	µg/l		20.0	0.00	88	70-130		
Tert-amyl methyl ether	**19.7**	D	µg/l		20.0	0.00	99	70-130		
Ethyl tert-butyl ether	**18.4**	D	µg/l		20.0	0.00	92	70-130		
Di-isopropyl ether	**21.6**	D	µg/l		20.0	0.00	108	70-130		
Tert-Butanol / butyl alcohol	**186**	D	µg/l		200	0.00	93	70-130		
1,4-Dioxane	**214**	D	µg/l		200	0.00	107	70-130		
trans-1,4-Dichloro-2-butene	**21.7**	D	µg/l		20.0	0.00	108	70-130		
Ethanol	**373**	D	µg/l		400	0.00	93	70-130		
Surrogate: 4-Bromofluorobenzene	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.9*		µg/l		*50.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*46.6*		µg/l		*50.0*		*93*	*70-130*		
Matrix Spike Dup (1808472-MSD1)			**Source: SC47714-03**			Prepared & Analyzed: 19-Jun-18				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.9**	D	µg/l		20.0	0.00	85	70-130	5	20
Acetone	**21.0**	D	µg/l		20.0	0.00	105	70-130		20
Acrylonitrile	**53.8**	QM7, D	µg/l		20.0	0.00	269	70-130	6	20
Benzene	**27.4**	D	µg/l		20.0	4.41	115	70-130	3	20
Bromobenzene	**19.2**	D	µg/l		20.0	0.00	96	70-130	1	20
Bromochloromethane	**18.8**	D	µg/l		20.0	0.00	94	70-130	0.4	20
Bromodichloromethane	**17.4**	D	µg/l		20.0	0.00	87	70-130	10	20
Bromoform	**17.8**	D	µg/l		20.0	0.00	89	70-130	6	20
Bromomethane	**12.6**	QM7, D	µg/l		20.0	0.00	63	70-130	20	20
2-Butanone (MEK)	**45.8**	QM7, D	µg/l		20.0	0.00	229	70-130	6	20
n-Butylbenzene	**25.4**	D	µg/l		20.0	3.97	107	70-130	8	20
sec-Butylbenzene	**18.4**	D	µg/l		20.0	1.70	83	70-130	9	20
tert-Butylbenzene	**18.6**	D	µg/l		20.0	0.65	90	70-130	6	20
Carbon disulfide	**19.3**	D	µg/l		20.0	0.00	96	70-130	3	20
Carbon tetrachloride	**16.5**	D	µg/l		20.0	0.00	82	70-130	15	20
Chlorobenzene	**19.5**	D	µg/l		20.0	0.00	98	70-130	0	20
Chloroethane	**8.58**	QM7, QR5, D	µg/l		20.0	0.00	43	70-130	42	20
Chloroform	**15.0**	D	µg/l		20.0	0.00	75	70-130	9	20
Chloromethane	**24.8**	D	µg/l		20.0	0.00	124	70-130	0.9	20
2-Chlorotoluene	**21.8**	D	µg/l		20.0	0.00	109	70-130	8	20
4-Chlorotoluene	**17.9**	D	µg/l		20.0	0.00	89	70-130	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
Matrix Spike Dup (1808472-MSD1)			**Source: SC47714-03**		Prepared & Analyzed: 19-Jun-18					
1,2-Dibromo-3-chloropropane	**26.0**	D	µg/l		20.0	0.00	130	70-130	15	20
Dibromochloromethane	**18.1**	D	µg/l		20.0	0.00	91	70-130	11	20
1,2-Dibromoethane (EDB)	**21.0**	D	µg/l		20.0	0.00	105	70-130	4	20
Dibromomethane	**19.4**	D	µg/l		20.0	0.00	97	70-130	7	20
1,2-Dichlorobenzene	**22.4**	D	µg/l		20.0	0.00	112	70-130	4	20
1,3-Dichlorobenzene	**15.6**	D	µg/l		20.0	0.00	78	70-130	9	20
1,4-Dichlorobenzene	**19.3**	D	µg/l		20.0	0.00	96	70-130	4	20
Dichlorodifluoromethane (Freon12)	**18.2**	D	µg/l		20.0	0.00	91	70-130	17	20
1,1-Dichloroethane	**19.7**	D	µg/l		20.0	0.00	99	70-130	2	20
1,2-Dichloroethane	**15.3**	D	µg/l		20.0	0.00	76	70-130	19	20
1,1-Dichloroethene	**18.6**	D	µg/l		20.0	0.00	93	70-130	7	20
cis-1,2-Dichloroethene	**21.7**	D	µg/l		20.0	0.00	109	70-130	3	20
trans-1,2-Dichloroethene	**20.1**	D	µg/l		20.0	0.00	100	70-130	6	20
1,2-Dichloropropane	**25.1**	D	µg/l		20.0	0.00	126	70-130	2	20
1,3-Dichloropropane	**22.6**	D	µg/l		20.0	0.00	113	70-130	5	20
2,2-Dichloropropane	**16.7**	D	µg/l		20.0	0.00	83	70-130	11	20
1,1-Dichloropropene	**18.7**	D	µg/l		20.0	0.00	94	70-130	4	20
cis-1,3-Dichloropropene	**24.2**	D	µg/l		20.0	0.00	121	70-130	6	20
trans-1,3-Dichloropropene	**19.0**	D	µg/l		20.0	0.00	95	70-130	11	20
Ethylbenzene	**49.7**	D	µg/l		20.0	30.1	98	70-130	2	20
Hexachlorobutadiene	**20.8**	D	µg/l		20.0	0.00	104	70-130	16	20
2-Hexanone (MBK)	**27.6**	QM7, D	µg/l		20.0	0.00	138	70-130	0.9	20
Isopropylbenzene	**23.6**	D	µg/l		20.0	3.73	99	70-130	2	20
4-Isopropyltoluene	**27.8**	QM7, D	µg/l		20.0	1.65	131	70-130	2	20
Methyl tert-butyl ether	**17.8**	D	µg/l		20.0	0.00	89	70-130	3	20
4-Methyl-2-pentanone (MIBK)	**28.0**	QM7, D	µg/l		20.0	0.00	140	70-130	2	20
Methylene chloride	**20.5**	D	µg/l		20.0	0.00	102	70-130	6	20
Naphthalene	**42.6**	D	µg/l		20.0	17.1	127	70-130	8	20
n-Propylbenzene	**31.3**	D	µg/l		20.0	11.6	99	70-130	3	20
Styrene	**19.9**	D	µg/l		20.0	0.00	100	70-130	0.3	20
1,1,1,2-Tetrachloroethane	**18.5**	D	µg/l		20.0	0.00	92	70-130	5	20
1,1,2,2-Tetrachloroethane	**23.2**	D	µg/l		20.0	0.00	116	70-130	5	20
Tetrachloroethene	**18.6**	D	µg/l		20.0	0.00	93	70-130	5	20
Toluene	**24.2**	D	µg/l		20.0	4.27	99	70-130	2	20
1,2,3-Trichlorobenzene	**22.6**	D	µg/l		20.0	0.00	113	70-130	15	20
1,2,4-Trichlorobenzene	**23.4**	D	µg/l		20.0	0.00	117	70-130	14	20
1,3,5-Trichlorobenzene	**21.6**	D	µg/l		20.0	0.00	108	70-130	13	20
1,1,1-Trichloroethane	**15.7**	D	µg/l		20.0	0.00	78	70-130	13	20
1,1,2-Trichloroethane	**40.9**	QM7, D	µg/l		20.0	0.00	204	70-130	4	20
Trichloroethene	**19.2**	D	µg/l		20.0	0.00	96	70-130	7	20
Trichlorofluoromethane (Freon 11)	**11.5**	QM7, QR5, D	µg/l		20.0	0.00	58	70-130	31	20
1,2,3-Trichloropropane	**24.5**	D	µg/l		20.0	0.00	123	70-130	5	20
1,2,4-Trimethylbenzene	**107**	D, E	µg/l		20.0	92.1	77	70-130	11	20
1,3,5-Trimethylbenzene	**46.5**	D	µg/l		20.0	27.4	95	70-130	8	20
Vinyl chloride	**24.3**	D	µg/l		20.0	0.00	122	70-130	3	20
m,p-Xylene	**90.0**	D	µg/l		20.0	69.3	103	70-130	0.7	20
o-Xylene	**38.2**	D	µg/l		20.0	16.3	110	70-130	0.9	20
Tetrahydrofuran	**31.3**	QM7, D	µg/l		20.0	0.00	156	70-130	4	20
Ethyl ether	**16.0**	D	µg/l		20.0	0.00	80	70-130	9	20
Tert-amyl methyl ether	**19.5**	D	µg/l		20.0	0.00	98	70-130	1	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808472 - SW846 5030 Water MS										
Matrix Spike Dup (1808472-MSD1)			**Source: SC47714-03**		Prepared & Analyzed: 19-Jun-18					
Ethyl tert-butyl ether	**18.6**	D	µg/l		20.0	0.00	93	70-130	1	20
Di-isopropyl ether	**22.8**	D	µg/l		20.0	0.00	114	70-130	5	20
Tert-Butanol / butyl alcohol	**201**	D	µg/l		200	0.00	101	70-130	8	20
1,4-Dioxane	**261**	QM7, D	µg/l		200	0.00	131	70-130	20	20
trans-1,4-Dichloro-2-butene	**18.4**	D	µg/l		20.0	0.00	92	70-130	16	20
Ethanol	**465**	QR2, D	µg/l		400	0.00	116	70-130	22	20
Surrogate: 4-Bromofluorobenzene	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*38.7*		µg/l		*50.0*		*77*	*70-130*		
Surrogate: Dibromofluoromethane	*44.5*		µg/l		*50.0*		*89*	*70-130*		
Batch 1808627 - SW846 5030 Water MS										
Blank (1808627-BLK1)					Prepared & Analyzed: 21-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
Blank (1808627-BLK1)					Prepared & Analyzed: 21-Jun-18					
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 2.00	U	µg/l	2.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	*46.0*		µg/l		*50.0*		*92*	*70-130*		
Surrogate: Toluene-d8	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.4*		µg/l		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*56.3*		µg/l		*50.0*		*113*	*70-130*		
LCS (1808627-BS1)					Prepared & Analyzed: 21-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.5**		µg/l		20.0		118	70-130		
Acetone	**25.2**		µg/l		20.0		126	70-130		
Acrylonitrile	**21.0**		µg/l		20.0		105	70-130		
Benzene	**22.9**		µg/l		20.0		114	70-130		
Bromobenzene	**21.8**		µg/l		20.0		109	70-130		
Bromochloromethane	**22.1**		µg/l		20.0		110	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
LCS (1808627-BS1)					Prepared & Analyzed: 21-Jun-18					
Bromodichloromethane	**22.0**		µg/l		20.0		110	70-130		
Bromoform	**21.2**		µg/l		20.0		106	70-130		
Bromomethane	**20.1**		µg/l		20.0		100	70-130		
2-Butanone (MEK)	**21.9**		µg/l		20.0		109	70-130		
n-Butylbenzene	**19.3**		µg/l		20.0		96	70-130		
sec-Butylbenzene	**20.6**		µg/l		20.0		103	70-130		
tert-Butylbenzene	**20.8**		µg/l		20.0		104	70-130		
Carbon disulfide	**23.4**		µg/l		20.0		117	70-130		
Carbon tetrachloride	**23.1**		µg/l		20.0		115	70-130		
Chlorobenzene	**20.2**		µg/l		20.0		101	70-130		
Chloroethane	**22.9**		µg/l		20.0		114	70-130		
Chloroform	**21.5**		µg/l		20.0		108	70-130		
Chloromethane	**19.6**		µg/l		20.0		98	70-130		
2-Chlorotoluene	**20.0**		µg/l		20.0		100	70-130		
4-Chlorotoluene	**20.2**		µg/l		20.0		101	70-130		
1,2-Dibromo-3-chloropropane	**19.5**		µg/l		20.0		98	70-130		
Dibromochloromethane	**22.8**		µg/l		20.0		114	70-130		
1,2-Dibromoethane (EDB)	**23.0**		µg/l		20.0		115	70-130		
Dibromomethane	**21.2**		µg/l		20.0		106	70-130		
1,2-Dichlorobenzene	**20.8**		µg/l		20.0		104	70-130		
1,3-Dichlorobenzene	**23.2**		µg/l		20.0		116	70-130		
1,4-Dichlorobenzene	**19.2**		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	**23.7**		µg/l		20.0		119	70-130		
1,1-Dichloroethane	**23.0**		µg/l		20.0		115	70-130		
1,2-Dichloroethane	**21.8**		µg/l		20.0		109	70-130		
1,1-Dichloroethene	**24.8**		µg/l		20.0		124	70-130		
cis-1,2-Dichloroethene	**22.8**		µg/l		20.0		114	70-130		
trans-1,2-Dichloroethene	**23.4**		µg/l		20.0		117	70-130		
1,2-Dichloropropane	**20.8**		µg/l		20.0		104	70-130		
1,3-Dichloropropane	**21.2**		µg/l		20.0		106	70-130		
2,2-Dichloropropane	**28.0**	QM9	µg/l		20.0		140	70-130		
1,1-Dichloropropene	**21.6**		µg/l		20.0		108	70-130		
cis-1,3-Dichloropropene	**21.3**		µg/l		20.0		107	70-130		
trans-1,3-Dichloropropene	**23.1**		µg/l		20.0		115	70-130		
Ethylbenzene	**20.0**		µg/l		20.0		100	70-130		
Hexachlorobutadiene	**22.0**		µg/l		20.0		110	70-130		
2-Hexanone (MBK)	**20.8**		µg/l		20.0		104	70-130		
Isopropylbenzene	**23.0**		µg/l		20.0		115	70-130		
4-Isopropyltoluene	**19.3**		µg/l		20.0		96	70-130		
Methyl tert-butyl ether	**24.4**		µg/l		20.0		122	70-130		
4-Methyl-2-pentanone (MIBK)	**20.2**		µg/l		20.0		101	70-130		
Methylene chloride	**22.6**		µg/l		20.0		113	70-130		
Naphthalene	**18.7**		µg/l		20.0		93	70-130		
n-Propylbenzene	**19.7**		µg/l		20.0		98	70-130		
Styrene	**20.0**		µg/l		20.0		100	70-130		
1,1,1,2-Tetrachloroethane	**22.9**		µg/l		20.0		114	70-130		
1,1,2,2-Tetrachloroethane	**19.9**		µg/l		20.0		100	70-130		
Tetrachloroethene	**22.7**		µg/l		20.0		114	70-130		
Toluene	**22.6**		µg/l		20.0		113	70-130		
1,2,3-Trichlorobenzene	**20.8**		µg/l		20.0		104	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
LCS (1808627-BS1)					Prepared & Analyzed: 21-Jun-18					
1,2,4-Trichlorobenzene	**20.0**		µg/l		20.0		100	70-130		
1,3,5-Trichlorobenzene	**21.2**		µg/l		20.0		106	70-130		
1,1,1-Trichloroethane	**22.9**		µg/l		20.0		114	70-130		
1,1,2-Trichloroethane	**21.9**		µg/l		20.0		110	70-130		
Trichloroethene	**23.0**		µg/l		20.0		115	70-130		
Trichlorofluoromethane (Freon 11)	**24.9**		µg/l		20.0		125	70-130		
1,2,3-Trichloropropane	**21.2**		µg/l		20.0		106	70-130		
1,2,4-Trimethylbenzene	**20.4**		µg/l		20.0		102	70-130		
1,3,5-Trimethylbenzene	**20.5**		µg/l		20.0		102	70-130		
Vinyl chloride	**22.2**		µg/l		20.0		111	70-130		
m,p-Xylene	**20.3**		µg/l		20.0		102	70-130		
o-Xylene	**20.6**		µg/l		20.0		103	70-130		
Tetrahydrofuran	**19.4**		µg/l		20.0		97	70-130		
Ethyl ether	**21.6**		µg/l		20.0		108	70-130		
Tert-amyl methyl ether	**20.1**		µg/l		20.0		100	70-130		
Ethyl tert-butyl ether	**24.4**		µg/l		20.0		122	70-130		
Di-isopropyl ether	**21.9**		µg/l		20.0		110	70-130		
Tert-Butanol / butyl alcohol	**242**		µg/l		200		121	70-130		
1,4-Dioxane	**192**		µg/l		200		96	70-130		
trans-1,4-Dichloro-2-butene	**19.5**		µg/l		20.0		98	70-130		
Ethanol	**488**		µg/l		400		122	70-130		
Surrogate: 4-Bromofluorobenzene	*53.4*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*52.7*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*54.3*		µg/l		*50.0*		*109*	*70-130*		
LCS Dup (1808627-BSD1)					Prepared & Analyzed: 21-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.7**		µg/l		20.0		108	70-130	8	20
Acetone	**23.8**		µg/l		20.0		119	70-130	6	20
Acrylonitrile	**21.6**		µg/l		20.0		108	70-130	3	20
Benzene	**21.7**		µg/l		20.0		108	70-130	5	20
Bromobenzene	**20.2**		µg/l		20.0		101	70-130	8	20
Bromochloromethane	**22.4**		µg/l		20.0		112	70-130	1	20
Bromodichloromethane	**21.4**		µg/l		20.0		107	70-130	3	20
Bromoform	**20.8**		µg/l		20.0		104	70-130	2	20
Bromomethane	**18.2**		µg/l		20.0		91	70-130	10	20
2-Butanone (MEK)	**22.8**		µg/l		20.0		114	70-130	4	20
n-Butylbenzene	**17.8**		µg/l		20.0		89	70-130	8	20
sec-Butylbenzene	**18.8**		µg/l		20.0		94	70-130	9	20
tert-Butylbenzene	**19.6**		µg/l		20.0		98	70-130	6	20
Carbon disulfide	**21.4**		µg/l		20.0		107	70-130	9	20
Carbon tetrachloride	**21.8**		µg/l		20.0		109	70-130	5	20
Chlorobenzene	**19.3**		µg/l		20.0		97	70-130	4	20
Chloroethane	**21.9**		µg/l		20.0		110	70-130	4	20
Chloroform	**20.8**		µg/l		20.0		104	70-130	4	20
Chloromethane	**19.4**		µg/l		20.0		97	70-130	1	20
2-Chlorotoluene	**18.5**		µg/l		20.0		92	70-130	8	20
4-Chlorotoluene	**18.6**		µg/l		20.0		93	70-130	8	20
1,2-Dibromo-3-chloropropane	**19.6**		µg/l		20.0		98	70-130	0.4	20
Dibromochloromethane	**22.4**		µg/l		20.0		112	70-130	2	20
1,2-Dibromoethane (EDB)	**22.6**		µg/l		20.0		113	70-130	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
LCS Dup (1808627-BSD1)					Prepared & Analyzed: 21-Jun-18					
Dibromomethane	**20.8**		µg/l		20.0		104	70-130	2	20
1,2-Dichlorobenzene	**19.3**		µg/l		20.0		97	70-130	7	20
1,3-Dichlorobenzene	**21.3**		µg/l		20.0		106	70-130	9	20
1,4-Dichlorobenzene	**17.8**		µg/l		20.0		89	70-130	8	20
Dichlorodifluoromethane (Freon12)	**22.8**		µg/l		20.0		114	70-130	4	20
1,1-Dichloroethane	**22.1**		µg/l		20.0		110	70-130	4	20
1,2-Dichloroethane	**21.5**		µg/l		20.0		107	70-130	1	20
1,1-Dichloroethene	**23.4**		µg/l		20.0		117	70-130	6	20
cis-1,2-Dichloroethene	**21.8**		µg/l		20.0		109	70-130	4	20
trans-1,2-Dichloroethene	**22.0**		µg/l		20.0		110	70-130	6	20
1,2-Dichloropropane	**20.2**		µg/l		20.0		101	70-130	3	20
1,3-Dichloropropane	**21.0**		µg/l		20.0		105	70-130	1	20
2,2-Dichloropropane	**24.9**		µg/l		20.0		125	70-130	11	20
1,1-Dichloropropene	**19.8**		µg/l		20.0		99	70-130	9	20
cis-1,3-Dichloropropene	**21.0**		µg/l		20.0		105	70-130	1	20
trans-1,3-Dichloropropene	**22.3**		µg/l		20.0		112	70-130	3	20
Ethylbenzene	**18.3**		µg/l		20.0		92	70-130	9	20
Hexachlorobutadiene	**19.8**		µg/l		20.0		99	70-130	10	20
2-Hexanone (MBK)	**21.8**		µg/l		20.0		109	70-130	5	20
Isopropylbenzene	**20.6**		µg/l		20.0		103	70-130	11	20
4-Isopropyltoluene	**17.9**		µg/l		20.0		89	70-130	8	20
Methyl tert-butyl ether	**24.0**		µg/l		20.0		120	70-130	2	20
4-Methyl-2-pentanone (MIBK)	**21.9**		µg/l		20.0		110	70-130	8	20
Methylene chloride	**21.6**		µg/l		20.0		108	70-130	4	20
Naphthalene	**18.5**		µg/l		20.0		92	70-130	1	20
n-Propylbenzene	**18.2**		µg/l		20.0		91	70-130	8	20
Styrene	**18.8**		µg/l		20.0		94	70-130	6	20
1,1,1,2-Tetrachloroethane	**21.3**		µg/l		20.0		106	70-130	7	20
1,1,2,2-Tetrachloroethane	**19.8**		µg/l		20.0		99	70-130	0.6	20
Tetrachloroethene	**20.9**		µg/l		20.0		104	70-130	9	20
Toluene	**21.0**		µg/l		20.0		105	70-130	7	20
1,2,3-Trichlorobenzene	**20.0**		µg/l		20.0		100	70-130	4	20
1,2,4-Trichlorobenzene	**19.1**		µg/l		20.0		95	70-130	5	20
1,3,5-Trichlorobenzene	**19.2**		µg/l		20.0		96	70-130	10	20
1,1,1-Trichloroethane	**21.0**		µg/l		20.0		105	70-130	9	20
1,1,2-Trichloroethane	**21.4**		µg/l		20.0		107	70-130	2	20
Trichloroethene	**21.3**		µg/l		20.0		106	70-130	8	20
Trichlorofluoromethane (Freon 11)	**23.5**		µg/l		20.0		118	70-130	6	20
1,2,3-Trichloropropane	**20.9**		µg/l		20.0		104	70-130	2	20
1,2,4-Trimethylbenzene	**19.1**		µg/l		20.0		95	70-130	7	20
1,3,5-Trimethylbenzene	**19.1**		µg/l		20.0		95	70-130	7	20
Vinyl chloride	**22.6**		µg/l		20.0		113	70-130	2	20
m,p-Xylene	**19.2**		µg/l		20.0		96	70-130	6	20
o-Xylene	**19.3**		µg/l		20.0		96	70-130	7	20
Tetrahydrofuran	**21.0**		µg/l		20.0		105	70-130	8	20
Ethyl ether	**21.6**		µg/l		20.0		108	70-130	0.4	20
Tert-amyl methyl ether	**20.6**		µg/l		20.0		103	70-130	3	20
Ethyl tert-butyl ether	**24.2**		µg/l		20.0		121	70-130	0.7	20
Di-isopropyl ether	**21.6**		µg/l		20.0		108	70-130	1	20
Tert-Butanol / butyl alcohol	**246**		µg/l		200		123	70-130	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
LCS Dup (1808627-BSD1)					Prepared & Analyzed: 21-Jun-18					
1,4-Dioxane	**224**		µg/l		200		112	70-130	16	20
trans-1,4-Dichloro-2-butene	**20.0**		µg/l		20.0		100	70-130	2	20
Ethanol	**568**	QM9	µg/l		400		142	70-130	15	20
Surrogate: 4-Bromofluorobenzene	*52.7*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*53.0*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.1*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*54.5*		µg/l		*50.0*		*109*	*70-130*		
Matrix Spike (1808627-MS1)			**Source: SC47714-06RE1**		Prepared & Analyzed: 21-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.0**	D	µg/l		20.0	0.00	115	70-130		
Acetone	**52.4**	QM7, D	µg/l		20.0	0.00	262	70-130		
Acrylonitrile	**19.0**	D	µg/l		20.0	0.00	95	70-130		
Benzene	**24.2**	D	µg/l		20.0	2.62	108	70-130		
Bromobenzene	**20.0**	D	µg/l		20.0	0.00	100	70-130		
Bromochloromethane	**21.7**	D	µg/l		20.0	0.00	109	70-130		
Bromodichloromethane	**21.4**	D	µg/l		20.0	0.00	107	70-130		
Bromoform	**19.4**	D	µg/l		20.0	0.00	97	70-130		
Bromomethane	**16.2**	D	µg/l		20.0	0.00	81	70-130		
2-Butanone (MEK)	**23.0**	D	µg/l		20.0	0.00	115	70-130		
n-Butylbenzene	**24.1**	D	µg/l		20.0	3.76	102	70-130		
sec-Butylbenzene	**20.7**	D	µg/l		20.0	1.72	95	70-130		
tert-Butylbenzene	**20.3**	D	µg/l		20.0	0.62	98	70-130		
Carbon disulfide	**19.6**	D	µg/l		20.0	1.32	91	70-130		
Carbon tetrachloride	**23.3**	D	µg/l		20.0	0.00	116	70-130		
Chlorobenzene	**18.5**	D	µg/l		20.0	0.00	92	70-130		
Chloroethane	**20.9**	D	µg/l		20.0	0.00	105	70-130		
Chloroform	**21.1**	D	µg/l		20.0	0.31	104	70-130		
Chloromethane	**17.8**	D	µg/l		20.0	0.00	89	70-130		
2-Chlorotoluene	**16.0**	D	µg/l		20.0	0.00	80	70-130		
4-Chlorotoluene	**21.8**	D	µg/l		20.0	0.00	109	70-130		
1,2-Dibromo-3-chloropropane	**18.3**	D	µg/l		20.0	0.00	92	70-130		
Dibromochloromethane	**22.6**	D	µg/l		20.0	0.00	113	70-130		
1,2-Dibromoethane (EDB)	**23.6**	D	µg/l		20.0	0.00	118	70-130		
Dibromomethane	**20.2**	D	µg/l		20.0	0.00	101	70-130		
1,2-Dichlorobenzene	**20.8**	D	µg/l		20.0	0.00	104	70-130		
1,3-Dichlorobenzene	**21.8**	D	µg/l		20.0	0.00	109	70-130		
1,4-Dichlorobenzene	**18.2**	D	µg/l		20.0	0.00	91	70-130		
Dichlorodifluoromethane (Freon12)	**19.6**	D	µg/l		20.0	0.00	98	70-130		
1,1-Dichloroethane	**21.6**	D	µg/l		20.0	0.00	108	70-130		
1,2-Dichloroethane	**21.3**	D	µg/l		20.0	0.00	106	70-130		
1,1-Dichloroethene	**23.0**	D	µg/l		20.0	0.00	115	70-130		
cis-1,2-Dichloroethene	**21.5**	D	µg/l		20.0	0.00	108	70-130		
trans-1,2-Dichloroethene	**22.0**	D	µg/l		20.0	0.00	110	70-130		
1,2-Dichloropropane	**19.9**	D	µg/l		20.0	0.00	100	70-130		
1,3-Dichloropropane	**20.8**	D	µg/l		20.0	0.00	104	70-130		
2,2-Dichloropropane	**23.5**	D	µg/l		20.0	0.00	117	70-130		
1,1-Dichloropropene	**20.7**	D	µg/l		20.0	0.00	104	70-130		
cis-1,3-Dichloropropene	**20.6**	D	µg/l		20.0	0.00	103	70-130		
trans-1,3-Dichloropropene	**21.7**	D	µg/l		20.0	0.00	108	70-130		
Ethylbenzene	**37.0**	D	µg/l		20.0	17.1	100	70-130		
Hexachlorobutadiene	**20.4**	D	µg/l		20.0	0.00	102	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
Matrix Spike (1808627-MS1)			**Source: SC47714-06RE1**		Prepared & Analyzed: 21-Jun-18					
2-Hexanone (MBK)	**21.1**	D	µg/l		20.0	0.00	105	70-130		
Isopropylbenzene	**23.4**	D	µg/l		20.0	2.32	105	70-130		
4-Isopropyltoluene	**19.7**	D	µg/l		20.0	0.97	94	70-130		
Methyl tert-butyl ether	**20.8**	D	µg/l		20.0	0.00	104	70-130		
4-Methyl-2-pentanone (MIBK)	**20.8**	D	µg/l		20.0	0.00	104	70-130		
Methylene chloride	**21.1**	D	µg/l		20.0	0.00	105	70-130		
Naphthalene	**33.6**	D	µg/l		20.0	10.2	117	70-130		
n-Propylbenzene	**28.3**	D	µg/l		20.0	5.74	113	70-130		
Styrene	**19.9**	D	µg/l		20.0	0.00	99	70-130		
1,1,1,2-Tetrachloroethane	**20.1**	D	µg/l		20.0	0.00	100	70-130		
1,1,2,2-Tetrachloroethane	**18.8**	D	µg/l		20.0	0.00	94	70-130		
Tetrachloroethene	**22.8**	D	µg/l		20.0	0.00	114	70-130		
Toluene	**24.3**	D	µg/l		20.0	2.71	108	70-130		
1,2,3-Trichlorobenzene	**22.1**	D	µg/l		20.0	0.00	110	70-130		
1,2,4-Trichlorobenzene	**23.9**	D	µg/l		20.0	0.00	119	70-130		
1,3,5-Trichlorobenzene	**25.3**	D	µg/l		20.0	0.00	127	70-130		
1,1,1-Trichloroethane	**21.3**	D	µg/l		20.0	0.00	106	70-130		
1,1,2-Trichloroethane	**21.5**	D	µg/l		20.0	0.00	107	70-130		
Trichloroethene	**21.4**	D	µg/l		20.0	0.00	107	70-130		
Trichlorofluoromethane (Freon 11)	**23.2**	D	µg/l		20.0	0.00	116	70-130		
1,2,3-Trichloropropane	**19.0**	D	µg/l		20.0	0.00	95	70-130		
1,2,4-Trimethylbenzene	**75.5**	D	µg/l		20.0	55.9	98	70-130		
1,3,5-Trimethylbenzene	**37.3**	D	µg/l		20.0	15.6	108	70-130		
Vinyl chloride	**22.4**	D	µg/l		20.0	0.00	112	70-130		
m,p-Xylene	**55.6**	D	µg/l		20.0	37.0	93	70-130		
o-Xylene	**26.9**	D	µg/l		20.0	6.31	103	70-130		
Tetrahydrofuran	**16.9**	D	µg/l		20.0	0.00	84	70-130		
Ethyl ether	**20.4**	D	µg/l		20.0	0.00	102	70-130		
Tert-amyl methyl ether	**23.5**	D	µg/l		20.0	0.00	117	70-130		
Ethyl tert-butyl ether	**21.5**	D	µg/l		20.0	0.00	108	70-130		
Di-isopropyl ether	**20.6**	D	µg/l		20.0	0.00	103	70-130		
Tert-Butanol / butyl alcohol	**188**	D	µg/l		200	0.00	94	70-130		
1,4-Dioxane	**208**	D	µg/l		200	0.00	104	70-130		
trans-1,4-Dichloro-2-butene	**20.3**	D	µg/l		20.0	0.00	102	70-130		
Ethanol	**483**	D	µg/l		400	0.00	121	70-130		
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*54.6*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*56.2*		µg/l		*50.0*		*112*	*70-130*		
Matrix Spike Dup (1808627-MSD1)			**Source: SC47714-06RE1**		Prepared & Analyzed: 21-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.8**	D	µg/l		20.0	0.00	119	70-130	3	20
Acetone	**53.8**	QM7, D	µg/l		20.0	0.00	269	70-130		20
Acrylonitrile	**20.2**	D	µg/l		20.0	0.00	101	70-130	6	20
Benzene	**25.1**	D	µg/l		20.0	2.62	113	70-130	4	20
Bromobenzene	**20.9**	D	µg/l		20.0	0.00	104	70-130	4	20
Bromochloromethane	**22.0**	D	µg/l		20.0	0.00	110	70-130	1	20
Bromodichloromethane	**20.4**	D	µg/l		20.0	0.00	102	70-130	5	20
Bromoform	**19.2**	D	µg/l		20.0	0.00	96	70-130	1	20
Bromomethane	**17.2**	D	µg/l		20.0	0.00	86	70-130	6	20
2-Butanone (MEK)	**22.1**	D	µg/l		20.0	0.00	111	70-130	4	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
Matrix Spike Dup (1808627-MSD1)			**Source: SC47714-06RE1**		Prepared & Analyzed: 21-Jun-18					
n-Butylbenzene	**25.6**	D	µg/l		20.0	3.76	109	70-130	6	20
sec-Butylbenzene	**22.2**	D	µg/l		20.0	1.72	102	70-130	7	20
tert-Butylbenzene	**22.1**	D	µg/l		20.0	0.62	108	70-130	9	20
Carbon disulfide	**22.0**	D	µg/l		20.0	1.32	103	70-130	11	20
Carbon tetrachloride	**23.7**	D	µg/l		20.0	0.00	119	70-130	2	20
Chlorobenzene	**19.6**	D	µg/l		20.0	0.00	98	70-130	6	20
Chloroethane	**21.8**	D	µg/l		20.0	0.00	109	70-130	4	20
Chloroform	**20.5**	D	µg/l		20.0	0.31	101	70-130	3	20
Chloromethane	**19.1**	D	µg/l		20.0	0.00	96	70-130	7	20
2-Chlorotoluene	**16.3**	D	µg/l		20.0	0.00	82	70-130	2	20
4-Chlorotoluene	**23.1**	D	µg/l		20.0	0.00	116	70-130	6	20
1,2-Dibromo-3-chloropropane	**18.4**	D	µg/l		20.0	0.00	92	70-130	0.2	20
Dibromochloromethane	**21.9**	D	µg/l		20.0	0.00	109	70-130	3	20
1,2-Dibromoethane (EDB)	**23.6**	D	µg/l		20.0	0.00	118	70-130	0.2	20
Dibromomethane	**21.2**	D	µg/l		20.0	0.00	106	70-130	5	20
1,2-Dichlorobenzene	**21.6**	D	µg/l		20.0	0.00	108	70-130	4	20
1,3-Dichlorobenzene	**22.4**	D	µg/l		20.0	0.00	112	70-130	3	20
1,4-Dichlorobenzene	**18.9**	D	µg/l		20.0	0.00	95	70-130	4	20
Dichlorodifluoromethane (Freon12)	**20.6**	D	µg/l		20.0	0.00	103	70-130	5	20
1,1-Dichloroethane	**21.7**	D	µg/l		20.0	0.00	108	70-130	0.3	20
1,2-Dichloroethane	**21.0**	D	µg/l		20.0	0.00	105	70-130	1	20
1,1-Dichloroethene	**24.3**	D	µg/l		20.0	0.00	121	70-130	5	20
cis-1,2-Dichloroethene	**22.1**	D	µg/l		20.0	0.00	110	70-130	3	20
trans-1,2-Dichloroethene	**22.4**	D	µg/l		20.0	0.00	112	70-130	2	20
1,2-Dichloropropane	**20.3**	D	µg/l		20.0	0.00	101	70-130	2	20
1,3-Dichloropropane	**21.3**	D	µg/l		20.0	0.00	106	70-130	2	20
2,2-Dichloropropane	**23.6**	D	µg/l		20.0	0.00	118	70-130	0.5	20
1,1-Dichloropropene	**22.1**	D	µg/l		20.0	0.00	111	70-130	7	20
cis-1,3-Dichloropropene	**21.6**	D	µg/l		20.0	0.00	108	70-130	5	20
trans-1,3-Dichloropropene	**22.6**	D	µg/l		20.0	0.00	113	70-130	4	20
Ethylbenzene	**39.8**	D	µg/l		20.0	17.1	113	70-130	7	20
Hexachlorobutadiene	**23.1**	D	µg/l		20.0	0.00	115	70-130	12	20
2-Hexanone (MBK)	**22.0**	D	µg/l		20.0	0.00	110	70-130	4	20
Isopropylbenzene	**25.0**	D	µg/l		20.0	2.32	113	70-130	7	20
4-Isopropyltoluene	**20.8**	D	µg/l		20.0	0.97	99	70-130	6	20
Methyl tert-butyl ether	**21.2**	D	µg/l		20.0	0.00	106	70-130	2	20
4-Methyl-2-pentanone (MIBK)	**21.2**	D	µg/l		20.0	0.00	106	70-130	2	20
Methylene chloride	**22.0**	D	µg/l		20.0	0.00	110	70-130	4	20
Naphthalene	**35.6**	D	µg/l		20.0	10.2	127	70-130	6	20
n-Propylbenzene	**30.3**	D	µg/l		20.0	5.74	123	70-130	7	20
Styrene	**20.8**	D	µg/l		20.0	0.00	104	70-130	4	20
1,1,1,2-Tetrachloroethane	**21.1**	D	µg/l		20.0	0.00	106	70-130	5	20
1,1,2,2-Tetrachloroethane	**18.8**	D	µg/l		20.0	0.00	94	70-130	0.3	20
Tetrachloroethene	**23.6**	D	µg/l		20.0	0.00	118	70-130	3	20
Toluene	**25.5**	D	µg/l		20.0	2.71	114	70-130	5	20
1,2,3-Trichlorobenzene	**23.2**	D	µg/l		20.0	0.00	116	70-130	5	20
1,2,4-Trichlorobenzene	**25.2**	D	µg/l		20.0	0.00	126	70-130	5	20
1,3,5-Trichlorobenzene	**26.2**	QM7, D	µg/l		20.0	0.00	131	70-130	3	20
1,1,1-Trichloroethane	**21.8**	D	µg/l		20.0	0.00	109	70-130	2	20
1,1,2-Trichloroethane	**21.5**	D	µg/l		20.0	0.00	108	70-130	0.3	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808627 - SW846 5030 Water MS										
Matrix Spike Dup (1808627-MSD1)			**Source: SC47714-06RE1**		Prepared & Analyzed: 21-Jun-18					
Trichloroethene	**22.6**	D	µg/l		20.0	0.00	113	70-130	5	20
Trichlorofluoromethane (Freon 11)	**24.1**	D	µg/l		20.0	0.00	121	70-130	4	20
1,2,3-Trichloropropane	**19.8**	D	µg/l		20.0	0.00	99	70-130	4	20
1,2,4-Trimethylbenzene	**78.4**	D	µg/l		20.0	55.9	112	70-130	4	20
1,3,5-Trimethylbenzene	**38.4**	D	µg/l		20.0	15.6	114	70-130	3	20
Vinyl chloride	**23.2**	D	µg/l		20.0	0.00	116	70-130	3	20
m,p-Xylene	**57.9**	D	µg/l		20.0	37.0	105	70-130	4	20
o-Xylene	**28.5**	D	µg/l		20.0	6.31	111	70-130	6	20
Tetrahydrofuran	**17.8**	D	µg/l		20.0	0.00	89	70-130	5	20
Ethyl ether	**21.3**	D	µg/l		20.0	0.00	107	70-130	4	20
Tert-amyl methyl ether	**23.5**	D	µg/l		20.0	0.00	118	70-130	0.3	20
Ethyl tert-butyl ether	**21.9**	D	µg/l		20.0	0.00	110	70-130	2	20
Di-isopropyl ether	**21.0**	D	µg/l		20.0	0.00	105	70-130	2	20
Tert-Butanol / butyl alcohol	**204**	D	µg/l		200	0.00	102	70-130	8	20
1,4-Dioxane	**224**	D	µg/l		200	0.00	112	70-130	7	20
trans-1,4-Dichloro-2-butene	**20.6**	D	µg/l		20.0	0.00	103	70-130	1	20
Ethanol	**500**	D	µg/l		400	0.00	125	70-130	3	20
Surrogate: 4-Bromofluorobenzene	*52.7*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*53.7*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.7*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*52.3*		µg/l		*50.0*		*105*	*70-130*		
SW846 8260C TICs										
Batch 1808472 - SW846 5030 Water MS										
Blank (1808472-BLK1)					Prepared & Analyzed: 19-Jun-18					
Tentatively Identified Compounds	**None found**		µg/l							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1808368 - SW846 3510C										
Blank (1808368-BLK1)					Prepared: 18-Jun-18 Analyzed: 21-Jun-18					
Acenaphthene	< 4.85	U	µg/l	4.85						
Acenaphthylene	< 4.85	U	µg/l	4.85						
Aniline	< 4.85	U	µg/l	4.85						
Anthracene	< 4.85	U	µg/l	4.85						
Azobenzene/Diphenyldiazene	< 4.85	U	µg/l	4.85						
Benzidine	< 9.71	U	µg/l	9.71						
Benzo (a) anthracene	< 4.85	U	µg/l	4.85						
Benzo (a) pyrene	< 4.85	U	µg/l	4.85						
Benzo (b) fluoranthene	< 4.85	U	µg/l	4.85						
Benzo (g,h,i) perylene	< 4.85	U	µg/l	4.85						
Benzo (k) fluoranthene	< 4.85	U	µg/l	4.85						
Benzoic acid	< 4.85	U	µg/l	4.85						
Benzyl alcohol	< 4.85	U	µg/l	4.85						
Bis(2-chloroethoxy)methane	< 4.85	U	µg/l	4.85						
Bis(2-chloroethyl)ether	< 4.85	U	µg/l	4.85						
Bis(2-chloroisopropyl)ether	< 4.85	U	µg/l	4.85						
Bis(2-ethylhexyl)phthalate	< 4.85	U	µg/l	4.85						
4-Bromophenyl phenyl ether	< 4.85	U	µg/l	4.85						
Butyl benzyl phthalate	< 4.85	U	µg/l	4.85						
Carbazole	< 4.85	U	µg/l	4.85						
4-Chloro-3-methylphenol	< 4.85	U	µg/l	4.85						
4-Chloroaniline	< 4.85	U	µg/l	4.85						
2-Chloronaphthalene	< 4.85	U	µg/l	4.85						
2-Chlorophenol	< 4.85	U	µg/l	4.85						
4-Chlorophenyl phenyl ether	< 4.85	U	µg/l	4.85						
Chrysene	< 4.85	U	µg/l	4.85						
Dibenzo (a,h) anthracene	< 4.85	U	µg/l	4.85						
Dibenzofuran	< 4.85	U	µg/l	4.85						
1,2-Dichlorobenzene	< 4.85	U	µg/l	4.85						
1,3-Dichlorobenzene	< 4.85	U	µg/l	4.85						
1,4-Dichlorobenzene	< 4.85	U	µg/l	4.85						
3,3´-Dichlorobenzidine	< 4.85	U	µg/l	4.85						
2,4-Dichlorophenol	< 4.85	U	µg/l	4.85						
Diethyl phthalate	< 4.85	U	µg/l	4.85						
Dimethyl phthalate	< 4.85	U	µg/l	4.85						
2,4-Dimethylphenol	< 4.85	U	µg/l	4.85						
Di-n-butyl phthalate	< 4.85	U	µg/l	4.85						
4,6-Dinitro-2-methylphenol	< 4.85	U	µg/l	4.85						
2,4-Dinitrophenol	< 4.85	U	µg/l	4.85						
2,4-Dinitrotoluene	< 4.85	U	µg/l	4.85						
2,6-Dinitrotoluene	< 4.85	U	µg/l	4.85						
Di-n-octyl phthalate	< 4.85	U	µg/l	4.85						
Fluoranthene	< 4.85	U	µg/l	4.85						
Fluorene	< 4.85	U	µg/l	4.85						
Hexachlorobenzene	< 4.85	U	µg/l	4.85						
Hexachlorobutadiene	< 4.85	U	µg/l	4.85						
Hexachlorocyclopentadiene	< 4.85	U	µg/l	4.85						
Hexachloroethane	< 4.85	U	µg/l	4.85						
Indeno (1,2,3-cd) pyrene	< 4.85	U	µg/l	4.85						
Isophorone	< 4.85	U	µg/l	4.85						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1808368 - SW846 3510C										
Blank (1808368-BLK1)						Prepared: 18-Jun-18 Analyzed: 21-Jun-18				
2-Methylnaphthalene	< 4.85	U	µg/l	4.85						
2-Methylphenol	< 4.85	U	µg/l	4.85						
3 & 4-Methylphenol	< 9.71	U	µg/l	9.71						
Naphthalene	< 4.85	U	µg/l	4.85						
2-Nitroaniline	< 4.85	U	µg/l	4.85						
3-Nitroaniline	< 4.85	U	µg/l	4.85						
4-Nitroaniline	< 4.85	U	µg/l	4.85						
Nitrobenzene	< 4.85	U	µg/l	4.85						
2-Nitrophenol	< 4.85	U	µg/l	4.85						
4-Nitrophenol	< 19.4	U	µg/l	19.4						
N-Nitrosodimethylamine	< 4.85	U	µg/l	4.85						
N-Nitrosodi-n-propylamine	< 4.85	U	µg/l	4.85						
N-Nitrosodiphenylamine	< 4.85	U	µg/l	4.85						
Pentachlorophenol	< 19.4	U	µg/l	19.4						
Phenanthrene	< 4.85	U	µg/l	4.85						
Phenol	< 4.85	U	µg/l	4.85						
Pyrene	< 4.85	U	µg/l	4.85						
Pyridine	< 4.85	U	µg/l	4.85						
1,2,4-Trichlorobenzene	< 4.85	U	µg/l	4.85						
1-Methylnaphthalene	< 4.85	U	µg/l	4.85						
2,4,5-Trichlorophenol	< 4.85	U	µg/l	4.85						
2,4,6-Trichlorophenol	< 4.85	U	µg/l	4.85						
Pentachloronitrobenzene	< 4.85	U	µg/l	4.85						
1,2,4,5-Tetrachlorobenzene	< 4.85	U	µg/l	4.85						
Surrogate: 2-Fluorobiphenyl	*27.3*		µg/l		*48.5*		*56*	*30-130*		
Surrogate: 2-Fluorophenol	*22.3*		µg/l		*48.5*		*46*	*15-110*		
Surrogate: Nitrobenzene-d5	*26.6*		µg/l		*48.5*		*55*	*30-130*		
Surrogate: Phenol-d5	*13.5*		µg/l		*48.5*		*28*	*15-110*		
Surrogate: Terphenyl-dl4	*32.0*		µg/l		*48.5*		*66*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*31.5*		µg/l		*48.5*		*65*	*15-110*		
LCS (1808368-BS1)						Prepared: 18-Jun-18 Analyzed: 21-Jun-18				
Acenaphthene	**30.1**		µg/l	4.90	49.0		61	40-140		
Acenaphthylene	**28.2**		µg/l	4.90	49.0		58	40-140		
Aniline	**22.8**		µg/l	4.90	49.0		47	40-140		
Anthracene	**31.2**		µg/l	4.90	49.0		64	40-140		
Azobenzene/Diphenyldiazene	**30.5**		µg/l	4.90	49.0		62	40-140		
Benzidine	**24.6**		µg/l	9.80	49.0		50	40-140		
Benzo (a) anthracene	**30.8**		µg/l	4.90	49.0		63	40-140		
Benzo (a) pyrene	**30.4**		µg/l	4.90	49.0		62	40-140		
Benzo (b) fluoranthene	**29.3**		µg/l	4.90	49.0		60	40-140		
Benzo (g,h,i) perylene	**24.5**		µg/l	4.90	49.0		50	40-140		
Benzo (k) fluoranthene	**26.6**		µg/l	4.90	49.0		54	40-140		
Benzoic acid	**14.2**	QC6	µg/l	4.90	49.0		29	30-130		
Benzyl alcohol	**27.7**		µg/l	4.90	49.0		57	40-140		
Bis(2-chloroethoxy)methane	**22.7**		µg/l	4.90	49.0		46	40-140		
Bis(2-chloroethyl)ether	**21.3**		µg/l	4.90	49.0		43	40-140		
Bis(2-chloroisopropyl)ether	**24.9**		µg/l	4.90	49.0		51	40-140		
Bis(2-ethylhexyl)phthalate	**31.1**		µg/l	4.90	49.0		64	40-140		
4-Bromophenyl phenyl ether	**27.6**		µg/l	4.90	49.0		56	40-140		
Butyl benzyl phthalate	**31.5**		µg/l	4.90	49.0		64	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1808368 - SW846 3510C										
LCS (1808368-BS1)					Prepared: 18-Jun-18 Analyzed: 21-Jun-18					
Carbazole	**38.8**		µg/l	4.90	49.0		79	40-140		
4-Chloro-3-methylphenol	**31.7**		µg/l	4.90	49.0		65	30-130		
4-Chloroaniline	**30.9**		µg/l	4.90	49.0		63	40-140		
2-Chloronaphthalene	**35.3**		µg/l	4.90	49.0		72	40-140		
2-Chlorophenol	**26.9**		µg/l	4.90	49.0		55	30-130		
4-Chlorophenyl phenyl ether	**31.9**		µg/l	4.90	49.0		65	40-140		
Chrysene	**33.2**		µg/l	4.90	49.0		68	40-140		
Dibenzo (a,h) anthracene	**27.0**		µg/l	4.90	49.0		55	40-140		
Dibenzofuran	**34.2**		µg/l	4.90	49.0		70	40-140		
1,2-Dichlorobenzene	**29.3**		µg/l	4.90	49.0		60	40-140		
1,3-Dichlorobenzene	**28.3**		µg/l	4.90	49.0		58	40-140		
1,4-Dichlorobenzene	**29.5**		µg/l	4.90	49.0		60	40-140		
3,3´-Dichlorobenzidine	**39.5**		µg/l	4.90	49.0		81	40-140		
2,4-Dichlorophenol	**29.0**		µg/l	4.90	49.0		59	30-130		
Diethyl phthalate	**31.1**		µg/l	4.90	49.0		64	40-140		
Dimethyl phthalate	**28.0**		µg/l	4.90	49.0		57	40-140		
2,4-Dimethylphenol	**26.5**		µg/l	4.90	49.0		54	30-130		
Di-n-butyl phthalate	**28.6**		µg/l	4.90	49.0		58	40-140		
4,6-Dinitro-2-methylphenol	**26.8**		µg/l	4.90	49.0		55	30-130		
2,4-Dinitrophenol	**20.3**		µg/l	4.90	49.0		41	30-130		
2,4-Dinitrotoluene	**35.2**		µg/l	4.90	49.0		72	40-140		
2,6-Dinitrotoluene	**35.8**		µg/l	4.90	49.0		73	40-140		
Di-n-octyl phthalate	**28.4**		µg/l	4.90	49.0		58	40-140		
Fluoranthene	**30.2**		µg/l	4.90	49.0		62	40-140		
Fluorene	**27.6**		µg/l	4.90	49.0		56	40-140		
Hexachlorobenzene	**40.4**		µg/l	4.90	49.0		82	40-140		
Hexachlorobutadiene	**30.6**		µg/l	4.90	49.0		62	40-140		
Hexachlorocyclopentadiene	**41.8**		µg/l	4.90	49.0		85	40-140		
Hexachloroethane	**31.7**		µg/l	4.90	49.0		65	40-140		
Indeno (1,2,3-cd) pyrene	**25.1**		µg/l	4.90	49.0		51	40-140		
Isophorone	**29.7**		µg/l	4.90	49.0		61	40-140		
2-Methylnaphthalene	**34.0**		µg/l	4.90	49.0		69	40-140		
2-Methylphenol	**27.1**		µg/l	4.90	49.0		55	30-130		
3 & 4-Methylphenol	**24.3**		µg/l	9.80	49.0		50	30-130		
Naphthalene	**25.8**		µg/l	4.90	49.0		53	40-140		
2-Nitroaniline	**28.0**		µg/l	4.90	49.0		57	40-140		
3-Nitroaniline	**28.8**		µg/l	4.90	49.0		59	40-140		
4-Nitroaniline	**38.4**		µg/l	4.90	49.0		78	40-140		
Nitrobenzene	**46.8**		µg/l	4.90	49.0		96	40-140		
2-Nitrophenol	**28.0**		µg/l	4.90	49.0		57	30-130		
4-Nitrophenol	**14.8**	J	µg/l	19.6	49.0		30	30-130		
N-Nitrosodimethylamine	**18.7**	QC6	µg/l	4.90	49.0		38	40-140		
N-Nitrosodi-n-propylamine	**28.4**		µg/l	4.90	49.0		58	40-140		
N-Nitrosodiphenylamine	**32.9**		µg/l	4.90	49.0		67	40-140		
Pentachlorophenol	**18.1**	J	µg/l	19.6	49.0		37	30-130		
Phenanthrene	**32.5**		µg/l	4.90	49.0		66	40-140		
Phenol	**12.1**	QC6	µg/l	4.90	49.0		25	30-130		
Pyrene	**32.8**		µg/l	4.90	49.0		67	40-140		
Pyridine	**15.7**	QC6	µg/l	4.90	49.0		32	40-140		
1,2,4-Trichlorobenzene	**32.6**		µg/l	4.90	49.0		66	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1808368 - SW846 3510C										
LCS (1808368-BS1)					Prepared: 18-Jun-18 Analyzed: 21-Jun-18					
1-Methylnaphthalene	**28.0**		µg/l	4.90	49.0		57	40-140		
2,4,5-Trichlorophenol	**29.8**		µg/l	4.90	49.0		61	30-130		
2,4,6-Trichlorophenol	**31.5**		µg/l	4.90	49.0		64	30-130		
Pentachloronitrobenzene	**36.3**		µg/l	4.90	49.0		74	40-140		
1,2,4,5-Tetrachlorobenzene	**27.7**		µg/l	4.90	49.0		57	40-140		
Surrogate: 2-Fluorobiphenyl	*24.0*		µg/l		*49.0*		*49*	*30-130*		
Surrogate: 2-Fluorophenol	*17.7*		µg/l		*49.0*		*36*	*15-110*		
Surrogate: Nitrobenzene-d5	*29.6*		µg/l		*49.0*		*60*	*30-130*		
Surrogate: Phenol-d5	*15.2*		µg/l		*49.0*		*31*	*15-110*		
Surrogate: Terphenyl-dl4	*30.4*		µg/l		*49.0*		*62*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*33.5*		µg/l		*49.0*		*68*	*15-110*		
LCS Dup (1808368-BSD1)					Prepared: 18-Jun-18 Analyzed: 21-Jun-18					
Acenaphthene	**34.1**		µg/l	4.76	47.6		72	40-140	13	20
Acenaphthylene	**33.4**		µg/l	4.76	47.6		70	40-140	17	20
Aniline	**23.9**		µg/l	4.76	47.6		50	40-140	5	20
Anthracene	**32.2**		µg/l	4.76	47.6		68	40-140	3	20
Azobenzene/Diphenyldiazene	**35.4**		µg/l	4.76	47.6		74	40-140	15	20
Benzidine	**26.8**		µg/l	9.52	47.6		56	40-140	9	20
Benzo (a) anthracene	**35.3**		µg/l	4.76	47.6		74	40-140	14	20
Benzo (a) pyrene	**35.1**		µg/l	4.76	47.6		74	40-140	14	20
Benzo (b) fluoranthene	**34.9**		µg/l	4.76	47.6		73	40-140	17	20
Benzo (g,h,i) perylene	**38.0**	QR9	µg/l	4.76	47.6		80	40-140	43	20
Benzo (k) fluoranthene	**37.2**	QR9	µg/l	4.76	47.6		78	40-140	33	20
Benzoic acid	**16.2**		µg/l	4.76	47.6		34	30-130	13	20
Benzyl alcohol	**30.9**		µg/l	4.76	47.6		65	40-140	11	20
Bis(2-chloroethoxy)methane	**25.3**		µg/l	4.76	47.6		53	40-140	11	20
Bis(2-chloroethyl)ether	**25.7**		µg/l	4.76	47.6		54	40-140	19	20
Bis(2-chloroisopropyl)ether	**27.3**		µg/l	4.76	47.6		57	40-140	9	20
Bis(2-ethylhexyl)phthalate	**33.4**		µg/l	4.76	47.6		70	40-140	7	20
4-Bromophenyl phenyl ether	**33.2**		µg/l	4.76	47.6		70	40-140	18	20
Butyl benzyl phthalate	**31.0**		µg/l	4.76	47.6		65	40-140	2	20
Carbazole	**43.6**		µg/l	4.76	47.6		92	40-140	12	20
4-Chloro-3-methylphenol	**35.6**		µg/l	4.76	47.6		75	30-130	12	20
4-Chloroaniline	**35.7**		µg/l	4.76	47.6		75	40-140	14	20
2-Chloronaphthalene	**41.2**		µg/l	4.76	47.6		86	40-140	15	20
2-Chlorophenol	**30.0**		µg/l	4.76	47.6		63	30-130	11	20
4-Chlorophenyl phenyl ether	**33.8**		µg/l	4.76	47.6		71	40-140	6	20
Chrysene	**34.9**		µg/l	4.76	47.6		73	40-140	5	20
Dibenzo (a,h) anthracene	**36.7**	QR9	µg/l	4.76	47.6		77	40-140	30	20
Dibenzofuran	**36.1**		µg/l	4.76	47.6		76	40-140	6	20
1,2-Dichlorobenzene	**32.6**		µg/l	4.76	47.6		68	40-140	10	20
1,3-Dichlorobenzene	**31.2**		µg/l	4.76	47.6		66	40-140	10	20
1,4-Dichlorobenzene	**32.7**		µg/l	4.76	47.6		69	40-140	11	20
3,3´-Dichlorobenzidine	**42.9**		µg/l	4.76	47.6		90	40-140	8	20
2,4-Dichlorophenol	**33.3**		µg/l	4.76	47.6		70	30-130	14	20
Diethyl phthalate	**33.7**		µg/l	4.76	47.6		71	40-140	8	20
Dimethyl phthalate	**33.2**		µg/l	4.76	47.6		70	40-140	17	20
2,4-Dimethylphenol	**30.5**		µg/l	4.76	47.6		64	30-130	14	20
Di-n-butyl phthalate	**34.5**		µg/l	4.76	47.6		72	40-140	19	20
4,6-Dinitro-2-methylphenol	**29.2**		µg/l	4.76	47.6		61	30-130	9	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1808368 - SW846 3510C										
LCS Dup (1808368-BSD1)					Prepared: 18-Jun-18 Analyzed: 21-Jun-18					
2,4-Dinitrophenol	**20.3**		µg/l	4.76	47.6		43	30-130	0.001	20
2,4-Dinitrotoluene	**37.2**		µg/l	4.76	47.6		78	40-140	6	20
2,6-Dinitrotoluene	**40.0**		µg/l	4.76	47.6		84	40-140	11	20
Di-n-octyl phthalate	**38.0**	QR9	µg/l	4.76	47.6		80	40-140	29	20
Fluoranthene	**34.1**		µg/l	4.76	47.6		72	40-140	12	20
Fluorene	**29.8**		µg/l	4.76	47.6		63	40-140	8	20
Hexachlorobenzene	**43.4**		µg/l	4.76	47.6		91	40-140	7	20
Hexachlorobutadiene	**35.5**		µg/l	4.76	47.6		74	40-140	15	20
Hexachlorocyclopentadiene	**50.0**		µg/l	4.76	47.6		105	40-140	18	20
Hexachloroethane	**35.0**		µg/l	4.76	47.6		74	40-140	10	20
Indeno (1,2,3-cd) pyrene	**35.1**	QR9	µg/l	4.76	47.6		74	40-140	33	20
Isophorone	**31.3**		µg/l	4.76	47.6		66	40-140	5	20
2-Methylnaphthalene	**38.9**		µg/l	4.76	47.6		82	40-140	13	20
2-Methylphenol	**30.0**		µg/l	4.76	47.6		63	30-130	10	20
3 & 4-Methylphenol	**27.2**		µg/l	9.52	47.6		57	30-130	11	20
Naphthalene	**29.6**		µg/l	4.76	47.6		62	40-140	14	20
2-Nitroaniline	**32.7**		µg/l	4.76	47.6		69	40-140	15	20
3-Nitroaniline	**30.7**		µg/l	4.76	47.6		65	40-140	7	20
4-Nitroaniline	**40.0**		µg/l	4.76	47.6		84	40-140	4	20
Nitrobenzene	**48.0**		µg/l	4.76	47.6		101	40-140	2	20
2-Nitrophenol	**29.4**		µg/l	4.76	47.6		62	30-130	5	20
4-Nitrophenol	**15.8**	J	µg/l	19.0	47.6		33	30-130	7	20
N-Nitrosodimethylamine	**21.2**		µg/l	4.76	47.6		44	40-140	12	20
N-Nitrosodi-n-propylamine	**31.3**		µg/l	4.76	47.6		66	40-140	10	20
N-Nitrosodiphenylamine	**38.5**		µg/l	4.76	47.6		81	40-140	16	20
Pentachlorophenol	**22.4**	QR9	µg/l	19.0	47.6		47	30-130	21	20
Phenanthrene	**33.8**		µg/l	4.76	47.6		71	40-140	4	20
Phenol	**13.3**	QC6	µg/l	4.76	47.6		28	30-130	9	20
Pyrene	**30.4**		µg/l	4.76	47.6		64	40-140	8	20
Pyridine	**17.1**	QC6	µg/l	4.76	47.6		36	40-140	9	20
1,2,4-Trichlorobenzene	**37.3**		µg/l	4.76	47.6		78	40-140	14	20
1-Methylnaphthalene	**32.5**		µg/l	4.76	47.6		68	40-140	15	20
2,4,5-Trichlorophenol	**35.3**		µg/l	4.76	47.6		74	30-130	17	20
2,4,6-Trichlorophenol	**36.9**		µg/l	4.76	47.6		77	30-130	16	20
Pentachloronitrobenzene	**41.6**		µg/l	4.76	47.6		87	40-140	14	20
1,2,4,5-Tetrachlorobenzene	**33.6**		µg/l	4.76	47.6		71	40-140	19	20
Surrogate: 2-Fluorobiphenyl	*28.3*		µg/l		*47.6*		*59*	*30-130*		
Surrogate: 2-Fluorophenol	*19.3*		µg/l		*47.6*		*40*	*15-110*		
Surrogate: Nitrobenzene-d5	*30.8*		µg/l		*47.6*		*65*	*30-130*		
Surrogate: Phenol-d5	*16.9*		µg/l		*47.6*		*35*	*15-110*		
Surrogate: Terphenyl-dl4	*29.9*		µg/l		*47.6*		*63*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*37.8*		µg/l		*47.6*		*79*	*15-110*		
SW846 8270D TICS										
Batch 1808368 - SW846 3510C										
Blank (1808368-BLK1)					Prepared: 18-Jun-18 Analyzed: 21-Jun-18					
5-Eicosene, (E)-	**16**	J N	µg/l							
n-Hexadecanoic Acid	**15**	J N	µg/l							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1808547 - SW846 3005A										
Blank (1808547-BLK1)						Prepared: 21-Jun-18 Analyzed: 22-Jun-18				
Potassium	< 0.500	U	mg/l	0.500						
Sodium	< 0.750	U	mg/l	0.750						
Vanadium	< 0.0050	U	mg/l	0.0050						
Zinc	< 0.0250	U	mg/l	0.0250						
Thallium	< 0.0050	U	mg/l	0.0050						
Selenium	< 0.0150	U	mg/l	0.0150						
Antimony	< 0.0060	U	mg/l	0.0060						
Nickel	< 0.0050	U	mg/l	0.0050						
Magnesium	< 0.0200	U	mg/l	0.0200						
Chromium	< 0.0050	U	mg/l	0.0050						
Cobalt	< 0.0050	U	mg/l	0.0050						
Cadmium	< 0.0025	U	mg/l	0.0025						
Beryllium	< 0.0020	U	mg/l	0.0020						
Barium	< 0.0050	U	mg/l	0.0050						
Copper	< 0.0050	U	mg/l	0.0050						
Arsenic	< 0.00400	U	mg/l	0.00400						
Aluminum	< 0.0250	U	mg/l	0.0250						
Silver	< 0.0050	U	mg/l	0.0050						
Blank (1808547-BLK2)						Prepared: 21-Jun-18 Analyzed: 26-Jun-18				
Iron	< 0.125	U	mg/l	0.125						
Lead	< 0.0075	U	mg/l	0.0075						
Calcium	< 0.100	U	mg/l	0.100						
Blank (1808547-BLK3)						Prepared: 21-Jun-18 Analyzed: 30-Jun-18				
Manganese	< 0.125	U	mg/l	0.125						
LCS (1808547-BS1)						Prepared: 21-Jun-18 Analyzed: 22-Jun-18				
Potassium	**12.5**		mg/l	0.500	12.5		100	85-115		
Sodium	**6.14**		mg/l	0.750	6.25		98	85-115		
Beryllium	**1.40**		mg/l	0.0020	1.25		112	85-115		
Silver	**1.28**		mg/l	0.0050	1.25		103	85-115		
Aluminum	**1.29**		mg/l	0.0250	1.25		103	85-115		
Cadmium	**1.32**		mg/l	0.0025	1.25		106	85-115		
Cobalt	**1.28**		mg/l	0.0050	1.25		102	85-115		
Chromium	**1.28**		mg/l	0.0050	1.25		102	85-115		
Barium	**1.32**		mg/l	0.0050	1.25		106	85-115		
Copper	**1.36**		mg/l	0.0050	1.25		109	85-115		
Arsenic	**1.307**		mg/l	0.00400	1.25		105	85-115		
Magnesium	**1.30**		mg/l	0.0200	1.25		104	85-115		
Nickel	**1.31**		mg/l	0.0050	1.25		105	85-115		
Antimony	**1.31**		mg/l	0.0060	1.25		105	85-115		
Selenium	**1.35**		mg/l	0.0150	1.25		108	85-115		
Thallium	**1.33**		mg/l	0.0050	1.25		107	85-115		
Vanadium	**1.21**		mg/l	0.0050	1.25		97	85-115		
Zinc	**1.28**		mg/l	0.0250	1.25		103	85-115		
LCS (1808547-BS2)						Prepared: 21-Jun-18 Analyzed: 26-Jun-18				
Iron	**1.32**		mg/l	0.125	1.25		106	85-115		
Lead	**1.35**		mg/l	0.0075	1.25		108	85-115		
Calcium	**6.27**		mg/l	0.100	6.25		100	85-115		
LCS (1808547-BS3)						Prepared: 21-Jun-18 Analyzed: 30-Jun-18				
Manganese	**1.26**		mg/l	0.125	1.25		101	85-115		
LCS Dup (1808547-BSD1)						Prepared: 21-Jun-18 Analyzed: 22-Jun-18				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1808547 - SW846 3005A										
LCS Dup (1808547-BSD1)					Prepared: 21-Jun-18 Analyzed: 22-Jun-18					
Potassium	**12.8**		mg/l	0.500	12.5		102	85-115	3	20
Sodium	**6.29**		mg/l	0.750	6.25		101	85-115	2	20
Magnesium	**1.33**		mg/l	0.0200	1.25		106	85-115	2	20
Aluminum	**1.30**		mg/l	0.0250	1.25		104	85-115	0.7	20
Arsenic	**1.326**		mg/l	0.00400	1.25		106	85-115	1	20
Vanadium	**1.25**		mg/l	0.0050	1.25		100	85-115	3	20
Thallium	**1.37**		mg/l	0.0050	1.25		109	85-115	2	20
Selenium	**1.37**		mg/l	0.0150	1.25		110	85-115	1	20
Antimony	**1.32**		mg/l	0.0060	1.25		106	85-115	1	20
Barium	**1.35**		mg/l	0.0050	1.25		108	85-115	2	20
Nickel	**1.34**		mg/l	0.0050	1.25		108	85-115	2	20
Silver	**1.32**		mg/l	0.0050	1.25		106	85-115	3	20
Copper	**1.39**		mg/l	0.0050	1.25		111	85-115	2	20
Chromium	**1.32**		mg/l	0.0050	1.25		106	85-115	3	20
Cobalt	**1.31**		mg/l	0.0050	1.25		105	85-115	2	20
Cadmium	**1.36**		mg/l	0.0025	1.25		109	85-115	3	20
Beryllium	**1.45**	QC2	mg/l	0.0020	1.25		116	85-115	3	20
Zinc	**1.33**		mg/l	0.0250	1.25		107	85-115	4	20
LCS Dup (1808547-BSD2)					Prepared: 21-Jun-18 Analyzed: 26-Jun-18					
Iron	**1.37**		mg/l	0.125	1.25		109	85-115	3	20
Calcium	**6.48**		mg/l	0.100	6.25		104	85-115	3	20
Lead	**1.40**		mg/l	0.0075	1.25		112	85-115	4	20
LCS Dup (1808547-BSD3)					Prepared: 21-Jun-18 Analyzed: 30-Jun-18					
Manganese	**1.31**		mg/l	0.125	1.25		105	85-115	4	20
Duplicate (1808547-DUP1)			**Source: SC47714-01**		Prepared: 21-Jun-18 Analyzed: 22-Jun-18					
Potassium	**9.48**		mg/l	0.500		9.38			1	20
Arsenic	**0.0038**	J	mg/l	0.00400		0.0046			17	20
Zinc	**0.0294**		mg/l	0.0250		0.0329			11	20
Vanadium	**0.0075**		mg/l	0.0050		0.0070			7	20
Selenium	< 0.0150	U	mg/l	0.0150		BRL				20
Antimony	**0.0016**	J	mg/l	0.0060		0.0024				20
Nickel	**0.0037**	J	mg/l	0.0050		0.0040			8	20
Magnesium	**24.8**		mg/l	0.0200		25.2			1	20
Copper	**0.0120**		mg/l	0.0050		0.0124			3	20
Chromium	**0.0057**		mg/l	0.0050		0.0055			4	20
Cobalt	**0.0022**	J	mg/l	0.0050		0.0023			4	20
Cadmium	**0.0005**	J	mg/l	0.0025		0.0005			2	20
Barium	**0.339**		mg/l	0.0050		0.342			1	20
Aluminum	**3.69**		mg/l	0.0250		3.31			11	20
Silver	< 0.0050	U	mg/l	0.0050		BRL				20
Beryllium	< 0.0020	U	mg/l	0.0020		BRL				20
Duplicate (1808547-DUP2)			**Source: SC47714-01**		Prepared: 21-Jun-18 Analyzed: 26-Jun-18					
Iron	**3.30**		mg/l	0.125		3.13			5	20
Sodium	**1710**	D	mg/l	15.0		1660			3	20
Calcium	**188**		mg/l	0.100		181			4	20
Lead	**0.0093**		mg/l	0.0075		0.0092			0.5	20
Duplicate (1808547-DUP3)			**Source: SC47714-01**		Prepared: 21-Jun-18 Analyzed: 30-Jun-18					
Manganese	**0.107**	R05, R06, J, D	mg/l	0.625		0.108			0.7	20
Thallium	**0.0105**	J, D	mg/l	0.0250		BRL				20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1808547 - SW846 3005A										
Matrix Spike (1808547-MS1)			**Source: SC47714-03**			Prepared: 21-Jun-18 Analyzed: 22-Jun-18				
Sodium	**148**		mg/l	0.750	6.25	141	112	75-125		
Potassium	**19.9**		mg/l	0.500	12.5	5.88	112	75-125		
Zinc	**1.29**		mg/l	0.0250	1.25	0.0033	103	75-125		
Vanadium	**1.26**		mg/l	0.0050	1.25	BRL	101	70-130		
Thallium	**1.35**		mg/l	0.0050	1.25	BRL	108	75-125		
Selenium	**1.49**		mg/l	0.0150	1.25	BRL	119	75-125		
Antimony	**1.44**		mg/l	0.0060	1.25	BRL	115	75-125		
Magnesium	**44.9**		mg/l	0.0200	1.25	43.4	121	75-125		
Aluminum	**1.45**		mg/l	0.0250	1.25	BRL	116	75-125		
Nickel	**1.28**		mg/l	0.0050	1.25	BRL	102	75-125		
Silver	**1.45**		mg/l	0.0050	1.25	BRL	116	75-125		
Copper	**1.47**		mg/l	0.0050	1.25	BRL	118	75-125		
Arsenic	**1.486**		mg/l	0.00400	1.25	0.0150	118	75-125		
Barium	**3.26**		mg/l	0.0050	1.25	1.87	111	75-125		
Beryllium	**1.47**		mg/l	0.0020	1.25	BRL	117	75-125		
Cadmium	**1.33**		mg/l	0.0025	1.25	BRL	107	75-125		
Cobalt	**1.26**		mg/l	0.0050	1.25	BRL	101	75-125		
Chromium	**1.29**		mg/l	0.0050	1.25	BRL	103	75-125		
Matrix Spike (1808547-MS2)			**Source: SC47714-03**			Prepared: 21-Jun-18 Analyzed: 26-Jun-18				
Manganese	**1.74**	D	mg/l	0.625	1.25	0.441	104	75-125		
Iron	**2.97**		mg/l	0.125	1.25	1.66	105	75-125		
Lead	**1.31**		mg/l	0.0075	1.25	0.0168	104	75-125		
Calcium	**273**	QM2, D	mg/l	0.500	6.25	262	168	75-125		
Matrix Spike Dup (1808547-MSD1)			**Source: SC47714-03**			Prepared: 21-Jun-18 Analyzed: 22-Jun-18				
Potassium	**20.3**		mg/l	0.500	12.5	5.88	115	75-125	2	20
Sodium	**152**	QM2	mg/l	0.750	6.25	141	178	75-125	3	20
Selenium	**1.52**		mg/l	0.0150	1.25	BRL	122	75-125	3	20
Cadmium	**1.37**		mg/l	0.0025	1.25	BRL	110	75-125	3	20
Zinc	**1.33**		mg/l	0.0250	1.25	0.0033	106	75-125	3	20
Vanadium	**1.30**		mg/l	0.0050	1.25	BRL	104	70-130	3	20
Thallium	**1.38**		mg/l	0.0050	1.25	BRL	110	75-125	2	20
Antimony	**1.47**		mg/l	0.0060	1.25	BRL	118	75-125	2	20
Magnesium	**45.7**	QM2	mg/l	0.0200	1.25	43.4	188	75-125	2	20
Copper	**1.50**		mg/l	0.0050	1.25	BRL	120	75-125	2	20
Nickel	**1.32**		mg/l	0.0050	1.25	BRL	105	75-125	3	20
Cobalt	**1.30**		mg/l	0.0050	1.25	BRL	104	75-125	3	20
Beryllium	**1.50**		mg/l	0.0020	1.25	BRL	120	75-125	2	20
Barium	**3.33**		mg/l	0.0050	1.25	1.87	117	75-125	2	20
Arsenic	**1.525**		mg/l	0.00400	1.25	0.0150	121	75-125	3	20
Aluminum	**1.49**		mg/l	0.0250	1.25	BRL	119	75-125	3	20
Silver	**1.48**		mg/l	0.0050	1.25	BRL	118	75-125	2	20
Chromium	**1.33**		mg/l	0.0050	1.25	BRL	106	75-125	3	20
Matrix Spike Dup (1808547-MSD2)			**Source: SC47714-03**			Prepared: 21-Jun-18 Analyzed: 26-Jun-18				
Iron	**2.77**		mg/l	0.125	1.25	1.66	89	75-125	7	20
Manganese	**1.73**	D	mg/l	0.625	1.25	0.441	103	75-125	0.3	20
Lead	**1.24**		mg/l	0.0075	1.25	0.0168	98	75-125	6	20
Calcium	**275**	QM2, D	mg/l	0.500	6.25	262	204	75-125	0.8	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA 245.1/7470A										
Batch 1808550 - EPA200/SW7000 Series										
Blank (1808550-BLK1)						Prepared: 21-Jun-18 Analyzed: 25-Jun-18				
Mercury	< 0.00020	U	mg/l	0.00020						
LCS (1808550-BS1)						Prepared: 21-Jun-18 Analyzed: 25-Jun-18				
Mercury	**0.00454**		mg/l	0.00020	0.00500		91	85-115		
Duplicate (1808550-DUP1)			**Source: SC47714-02**			Prepared: 21-Jun-18 Analyzed: 25-Jun-18				
Mercury	< 0.00020	U	mg/l	0.00020		BRL				20
Matrix Spike (1808550-MS1)			**Source: SC47714-02**			Prepared: 21-Jun-18 Analyzed: 25-Jun-18				
Mercury	**0.00486**		mg/l	0.00020	0.00500	BRL	97	80-120		
Matrix Spike Dup (1808550-MSD1)			**Source: SC47714-02**			Prepared: 21-Jun-18 Analyzed: 25-Jun-18				
Mercury	**0.00484**		mg/l	0.00020	0.00500	BRL	97	80-120	0.5	20
Post Spike (1808550-PS1)			**Source: SC47714-02**			Prepared: 21-Jun-18 Analyzed: 25-Jun-18				
Mercury	**0.00503**		mg/l	0.00020	0.00500	BRL	101	85-115		

Notes and Definitions

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J N	(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.
NonTRG TIC	Non-target concentration sufficient to be reported as one of the highest TICs.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R01	The Reporting Limit has been raised to account for matrix interference.
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.
R06	MRL raised to correlate to batch QC reporting limits.
SBN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

SC47714 BM

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- [X] 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: AECC
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECC
check@aecgroup.com

P.O No.: _____ Quote #: _____

Project No: 18-051
Site Name: 700 outparcel
Location: Syracuse State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below: 2	4	Analysis: 8260 TCL VOCs	8270 TCL SVOCs	6010/7470 TAL Metals	Check if chlorinated
SC47714-01	MW-5(2018-06-13)	6/13/18	1054	G	GW	3	1		1			X	X	X	☐
02	MW-7(2018-06-13)	6/13/18	1141	G	GW	3	1		1			X	X	X	☐
03	MW-8(2018-06-13)	6/13/18	1240	G	GW	3	1		1			X	X	X	☐
04	MW-9(2018-06-13)	6/13/18	1315	G	GW	3	1		1			X	X	X	☐
05	Trip Blank(2018-06)	—	—	—	—	2						X			☐
06	MW-D(2018-06-13)	6/13/18	—	G	GW	3	1		1			X	X	X	☐
															☐
															☐
															☐
															☐

QA/QC Reporting Notes:
* additional charges may appply

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

Relinquished by:	Received by:	Date:	Time:
Drew Brantner	FedEx	6/13/18	~1515
Todd	A Knowles	6/14/18	942

Temp °C
Observed: 2.0
Correction Factor: 0
Corrected: 2.0
IR ID #: 02

☒ EDD format: PDF, Excel
☒ E-mail to: rmckenna@aecgroup.com
dbrantner@aecgroup.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

FedEx Express Package US Airbill

FedEx Tracking Number 8120 9570 7889

Form ID No. 0200

14/2/14

Recipient's Copy

1 From

Date 6/13/18

Sender's Name Drew Brantner Phone 315 432-9400

Company AECC

Address 6308 Fly Road

Dept./Floor/Suite/Room

City East Syracuse State NY ZIP 13057

2 Your Internal Billing Reference 18-051

3 To

Recipient's Name Sample Receiving Phone 413 789-9018

Company Eurofins / Spectrum Analytical

Address 11 Almgren Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA ZIP 01001

Hold Weekday
FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

8120 9570 7889

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | [X] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery.

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?
One box must be checked.

[X] No | Yes — As per attached Shipper's Declaration | Yes — Shipper's Declaration not required | Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No.

[X] Sender Acct. No. in Section 1 will be billed. | Recipient | Third Party | Credit Card | Cash/Check

Total Packages 1 Total Weight 55 lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Batch Summary

1808348

Total Metals by EPA 200/6000 Series Methods

SC47714-01 (MW-5 (2018-06-13))
SC47714-02 (MW-7 (2018-06-13))
SC47714-03 (MW-8 (2018-06-13))
SC47714-04 (MW-9 (2018-06-13))
SC47714-06 (MW-D (2018-06-13))

1808368

Semivolatile Organic Compounds by GCMS

1808368-BLK1
1808368-BS1
1808368-BSD1
SC47714-01 (MW-5 (2018-06-13))
SC47714-02 (MW-7 (2018-06-13))
SC47714-03 (MW-8 (2018-06-13))
SC47714-04 (MW-9 (2018-06-13))
SC47714-06 (MW-D (2018-06-13))

1808472

Volatile Organic Compounds

1808472-BLK1
1808472-BS1
1808472-BSD1
1808472-MS1
1808472-MSD1
SC47714-01 (MW-5 (2018-06-13))
SC47714-02 (MW-7 (2018-06-13))
SC47714-03 (MW-8 (2018-06-13))
SC47714-04 (MW-9 (2018-06-13))
SC47714-05 (Trip Blank (2018-06))
SC47714-06 (MW-D (2018-06-13))

1808547

Total Metals by EPA 6000/7000 Series Methods

1808547-BLK1
1808547-BLK2
1808547-BLK3
1808547-BS1
1808547-BS2
1808547-BS3
1808547-BSD1
1808547-BSD2
1808547-BSD3
1808547-DUP1
1808547-DUP2
1808547-DUP3
1808547-MS1
1808547-MS2
1808547-MSD1
1808547-MSD2
SC47714-01 (MW-5 (2018-06-13))
SC47714-02 (MW-7 (2018-06-13))
SC47714-03 (MW-8 (2018-06-13))
SC47714-04 (MW-9 (2018-06-13))
SC47714-06 (MW-D (2018-06-13))

1808550

Total Metals by EPA 200 Series Methods

1808550-BLK1
1808550-BS1
1808550-DUP1
1808550-MS1
1808550-MSD1
1808550-PS1
SC47714-01 (MW-5 (2018-06-13))
SC47714-02 (MW-7 (2018-06-13))
SC47714-03 (MW-8 (2018-06-13))
SC47714-04 (MW-9 (2018-06-13))
SC47714-06 (MW-D (2018-06-13))

1808627

Volatile Organic Compounds

1808627-BLK1
1808627-BS1
1808627-BSD1
1808627-MS1
1808627-MSD1
SC47714-06RE1 (MW-D (2018-06-13))

S818863

Semivolatile Organic Compounds by GCMS

S818863-CAL1
S818863-CAL2
S818863-CAL3
S818863-CAL4
S818863-CAL5
S818863-CAL6
S818863-CAL7
S818863-CAL8
S818863-CAL9
S818863-CALA
S818863-ICV1
S818863-LCV1
S818863-LCV2
S818863-TUN1

S819667

Volatile Organic Compounds

S819667-CAL1
S819667-CAL2
S819667-CAL3
S819667-CAL4
S819667-CAL5
S819667-CAL6
S819667-CAL7
S819667-CAL8
S819667-CAL9
S819667-ICV1
S819667-LCV1
S819667-LCV2
S819667-TUN1

S820051

Volatile Organic Compounds

S820051-CAL1
S820051-CAL2
S820051-CAL3
S820051-CAL4
S820051-CAL5
S820051-CAL6
S820051-CAL7
S820051-CAL8
S820051-CAL9
S820051-ICV1
S820051-LCV1
S820051-LCV2
S820051-TUN1
S820051-TUN2

S820210

Volatile Organic Compounds

S820210-CCV1
S820210-TUN1

S820269

Volatile Organic Compounds

S820269-CCV1
S820269-TUN1

S820321

Semivolatile Organic Compounds by GCMS

S820321-CCV1
S820321-TUN1

S820397

Semivolatile Organic Compounds by GCMS

S820397-CCV1
S820397-TUN1

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
25-Sep-18 17:34

Laboratory Report
SC50148

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 700 Out Parcel - Syracuse, NY
Project #: 18-051

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

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

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

Sample Summary

Work Order: SC50148

Project: 700 Out Parcel - Syracuse, NY

Project Number: 18-051

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC50148-01	MW-05	Ground Water	06-Sep-18 12:20	08-Sep-18 11:00
SC50148-02	MW-07	Ground Water	06-Sep-18 10:53	08-Sep-18 11:00
SC50148-03	MW-08	Ground Water	07-Sep-18 12:58	08-Sep-18 11:00
SC50148-04	MW-09	Ground Water	07-Sep-18 12:30	08-Sep-18 11:00
SC50148-05	MW-D	Ground Water	07-Sep-18 00:00	08-Sep-18 11:00
SC50148-06	Trip Blank	Aqueous	07-Sep-18 00:00	08-Sep-18 11:00

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.

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:

1812528 BS/BSD

Beryllium percent recoveries (117/109) are outside individual acceptance criteria (85-115), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-05
MW-07
MW-08
MW-09
MW-D

Spikes:

1812528-MS2 *Source: SC50148-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Calcium
Magnesium

1812528-MSD2 *Source: SC50148-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Calcium
Magnesium
Sodium

1812528-PS2 *Source: SC50148-03*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Magnesium
Sodium

1812528-PS3 *Source: SC50148-03*

The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Iron

Duplicates:

SW846 6010C

Duplicates:

1812528-DUP1 *Source: SC50148-03*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

1812528-DUP2 *Source: SC50148-03*

MRL raised to correlate to batch QC reporting limits.

Magnesium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Sodium

1812528-DUP3 *Source: SC50148-03*

MRL raised to correlate to batch QC reporting limits.

Iron

Samples:

SC50148-01 *MW-05*

MRL raised to correlate to batch QC reporting limits.

Iron
Magnesium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

SC50148-02 *MW-07*

MRL raised to correlate to batch QC reporting limits.

Iron
Magnesium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Magnesium
Sodium

SC50148-03 *MW-08*

MRL raised to correlate to batch QC reporting limits.

Iron
Magnesium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Sodium

SC50148-04 *MW-09*

MRL raised to correlate to batch QC reporting limits.

Iron
Magnesium

SW846 6010C

Samples:

SC50148-04 *MW-09*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

SC50148-05 *MW-D*

MRL raised to correlate to batch QC reporting limits.

Iron
Magnesium

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sodium

SW846 8260C

Calibration:

1807003

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
2-Hexanone (MBK)
Bromoform
Carbon disulfide
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
n-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Vinyl chloride

This affected the following samples:

1812693-BLK1
1812693-BS1
1812693-BSD1
1812693-MS1
1812693-MSD1
1812696-BLK1
1812696-BS1
1812696-BSD1
MW-05
MW-07
MW-08
MW-09
MW-D
S820548-ICV1
S822171-CCV1
S822172-CCV1
Trip Blank

Laboratory Control Samples:

SW846 8260C

Laboratory Control Samples:

1812693 BS/BSD

1,1-Dichloroethene percent recoveries (149/110) 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-05
MW-07
MW-08

Acetone percent recoveries (139/127) 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-05
MW-07
MW-08

Bromomethane percent recoveries (186/171) 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-05
MW-07
MW-08

Chloroethane percent recoveries (136/138) 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-05
MW-07
MW-08

Vinyl chloride percent recoveries (194/177) 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-05
MW-07
MW-08

1812693 BSD

1,1-Dichloroethene RPD 30% (20%) is outside individual acceptance criteria.

1812696 BS/BSD

1,1-Dichloroethene percent recoveries (108/149) 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-09
MW-D
Trip Blank

Bromomethane percent recoveries (125/137) 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-09
MW-D
Trip Blank

Chloroethane percent recoveries (133/133) 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-09
MW-D
Trip Blank

SW846 8260C

Laboratory Control Samples:

1812696 BS/BSD

Vinyl chloride percent recoveries (207/188) 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-09
MW-D
Trip Blank

1812696 BSD

1,1-Dichloroethene RPD 32% (20%) is outside individual acceptance criteria.

Spikes:

1812693-MS1 *Source: SC50148-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trichlorobenzene
4-Chlorotoluene
Dichlorodifluoromethane (Freon12)
m,p-Xylene
Naphthalene

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.

1,2,4-Trimethylbenzene

1812693-MSD1 *Source: SC50148-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trichlorobenzene
Dichlorodifluoromethane (Freon12)
Naphthalene

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.

1,2,4-Trimethylbenzene

Samples:

S822171-CCV1

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

Chloroethane (30.0%)

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

Bromomethane (84.0%)
Ethanol (20.6%)
Vinyl chloride (79.7%)

SW846 8260C

Samples:

S822171-CCV1

This affected the following samples:

1812693-BLK1
1812693-BS1
1812693-BSD1
1812693-MS1
1812693-MSD1
MW-05
MW-07
MW-08

S822172-CCV1

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

1,1,2,2-Tetrachloroethane (23.1%)
1,1-Dichloroethene (45.6%)
Chloroethane (35.0%)
Chloromethane (24.0%)

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

Ethanol (30.5%)
Vinyl chloride (55.5%)

This affected the following samples:

1812696-BLK1
1812696-BS1
1812696-BSD1
MW-09
MW-D
Trip Blank

SC50148-03 *MW-08*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8260C TICs

Samples:

SC50148-01 *MW-05*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1-Phenyl-1-Butene
Benzene, 1-ethyl-2,4-dimethyl-
Butane, 2,3-dimethyl-
Butane, 2-methyl-
Cyclopentane, 1,1-dimethyl-
Cyclopentane, methyl-
Cyclopentene, 1,5-dimethyl-
Isopropylcyclobutane
Pentane, 2-methyl-
Pentane, 3-methyl-

SC50148-03 *MW-08*

SW846 8260C TICs

Samples:

SC50148-03 *MW-08*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1-Phenyl-1-Butene
Benzene, 1-ethyl-2,4-dimethyl-
Benzene, 1-ethyl-2-methyl-
Benzene, 1-ethyl-4-methyl-
Butane, 2-methyl-
Cyclopentane, methyl-
Indan, 1-methyl-
Indane
Pentane, 2-methyl-

SC50148-04 *MW-09*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1-Phenyl-1-Butene
Benzene, 1,3-diethyl-
Butane, 2,3-dimethyl-
Cyclohexane, 1,2-dimethyl-
Isopropylcyclobutane

SC50148-05 *MW-D*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1-Phenyl-1-Butene
Benzene, 1,2,4,5-tetramethyl-
Benzene, 1,3-diethyl-
Butane, 2,3-dimethyl-
Cyclohexane, 1,1-dimethyl-
Cyclohexane, 1,3-dimethyl-,...
Cyclopentane, 1,1-dimethyl-
Cyclopentane, 1,2-dimethyl-
Cyclopentene, 1,2,3-trimethyl-

SW846 8270D

Calibration:

1808015

Analyte quantified by quadratic equation type calibration.

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

SW846 8270D

Calibration:

1808015

This affected the following samples:

1812395-BLK1
1812395-BS1
1812395-BSD1
1812441-BLK1
1812441-BS1
1812441-BSD1
1812441-MS1
1812441-MSD1
MW-05
MW-07
MW-08
MW-09
MW-D
S821565-ICV1
S822130-CCV1
S822148-CCV1
S822214-CCV1

Laboratory Control Samples:

1812395 BS/BSD

Benzidine percent recoveries (193/183) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-05
MW-07

Benzoic acid percent recoveries (28/29) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-05
MW-07

Benzyl alcohol percent recoveries (31/53) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-05
MW-07

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

MW-05
MW-07

Pyridine percent recoveries (48/38) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-05
MW-07

1812395 BSD

4,6-Dinitro-2-methylphenol RPD 24% (20%) is outside individual acceptance criteria.

Azobenzene/Diphenyldiazene RPD 21% (20%) is outside individual acceptance criteria.

SW846 8270D

Laboratory Control Samples:

1812395 BSD

Benzyl alcohol RPD 52% (20%) is outside individual acceptance criteria.

Dimethyl phthalate RPD 21% (20%) is outside individual acceptance criteria.

Fluoranthene RPD 22% (20%) is outside individual acceptance criteria.

N-Nitrosodiphenylamine RPD 24% (20%) is outside individual acceptance criteria.

Pentachlorophenol RPD 24% (20%) is outside individual acceptance criteria.

Pyridine RPD 24% (20%) is outside individual acceptance criteria.

1812395-BS1

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

Benzoic acid
Benzyl alcohol
Phenol

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

Benzidine

1812395-BSD1

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

Benzoic acid
Phenol
Pyridine

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

4,6-Dinitro-2-methylphenol
Azobenzene/Diphenyldiazene
Benzyl alcohol
Dimethyl phthalate
Fluoranthene
N-Nitrosodiphenylamine
Pentachlorophenol
Pyridine

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

Benzidine

1812441 BS/BSD

1,2-Dichlorobenzene percent recoveries (36/31) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

SW846 8270D

Laboratory Control Samples:

1812441 BS/BSD

1,3-Dichlorobenzene percent recoveries (28/25) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

1,4-Dichlorobenzene percent recoveries (31/27) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

4-Nitrophenol percent recoveries (27/24) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Aniline percent recoveries (32/29) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Benzidine percent recoveries (184/162) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-08
MW-09
MW-D

Benzoic acid percent recoveries (20/16) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Benzyl alcohol percent recoveries (23/17) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Bis(2-chloroethoxy)methane percent recoveries (43/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Bis(2-chloroethyl)ether percent recoveries (35/31) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

SW846 8270D

Laboratory Control Samples:

1812441 BS/BSD

Bis(2-chloroisopropyl)ether percent recoveries (44/38) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Hexachlorobutadiene percent recoveries (41/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Hexachloroethane percent recoveries (33/29) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

N-Nitrosodimethylamine percent recoveries (15/13) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Pentachlorophenol percent recoveries (31/26) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Phenol percent recoveries (22/19) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

Pyridine percent recoveries (11/10) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-08
MW-09
MW-D

1812441 BSD

Benzoic acid RPD 22% (20%) is outside individual acceptance criteria.

Benzyl alcohol RPD 28% (20%) is outside individual acceptance criteria.

1812441-BS1

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

Benzidine

SW846 8270D

Laboratory Control Samples:

1812441-BSD1

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

Benzidine

Spikes:

1812441-MS1 *Source: SC50148-03*

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

4-Nitrophenol
Aniline
Benzidine
N-Nitrosodimethylamine
Phenol

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
4-Chloroaniline
Hexachlorocyclopentadiene

1812441-MSD1 *Source: SC50148-03*

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

4-Nitrophenol
Aniline
Benzidine
Benzoic acid
Hexachlorocyclopentadiene
N-Nitrosodimethylamine
Phenol

RPD out of acceptance range.

Benzoic acid

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Hexachloroethane

Samples:

S822130-CCV1

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

Benzo (b) fluoranthene (25.7%)
Benzyl alcohol (-40.5%)
Bis(2-chloroethyl)ether (28.9%)
Bis(2-chloroisopropyl)ether (25.4%)

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

Benzidine (22.1%)

SW846 8270D

Samples:

S822130-CCV1

This affected the following samples:

1812441-BLK1
1812441-BS1
1812441-BSD1

S822148-CCV1

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

Benzo (b) fluoranthene (25.7%)
Benzyl alcohol (-40.5%)
Bis(2-chloroethyl)ether (28.9%)
Bis(2-chloroisopropyl)ether (25.4%)

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

Benzidine (22.1%)

This affected the following samples:

1812395-BLK1
1812395-BS1
1812395-BSD1
MW-05
MW-07

S822214-CCV1

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

Aniline (27.5%)

This affected the following samples:

1812441-MS1
1812441-MSD1
MW-08
MW-09
MW-D

SW846 8270D TICS

Samples:

SC50148-01 *MW-05*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1-Docosene
Benzene, 1,2,4,5-tetramethyl-
Benzene, 2-ethenyl-1,4-dime...

SC50148-03 *MW-08*

SW846 8270D TICS

Samples:

SC50148-03 *MW-08*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1H-Indene, 2,3-dihydro-4,7-...
1H-Indene, 2,3-dihydro-5-me...
Benzene, 1,2,3,4-tetramethyl-
Benzene, 1,2,3-trimethyl- (02)
Benzene, 1,2,4,5-tetramethyl-
Benzene, 1,2,4-trimethyl-
Benzene, 1,3-dimethyl-
Benzene, 1-ethyl-2-methyl-
Benzene, 1-methyl-4-propyl-
Benzene, 2-ethenyl-1,4-dime...
Benzene, 4-ethyl-1,2-dimethyl- (02)
Benzoic acid, 2,4-dichloro-
Cyclic octaatomic sulfur
Cyclobutane, (1-methylethyl...
Ethylbenzene
Indane
o-Xylene

SC50148-04 *MW-09*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1-Heptadecanol
Benzene, 1,3-diethyl-
Benzoic acid, 2,4-dichloro-

SC50148-05 *MW-D*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Benzene, 1,3-diethyl-
E-14-Hexadecenal

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	700 Out Parcel - Syracuse, NY / 18-051
Work Order:	SC50148
Sample(s) received on:	9/8/2018

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

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

Summary of Hits

Lab ID: SC50148-01 **Client ID:** MW-05

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.866		0.0250	mg/l	SW846 6010C
Arsenic	0.00250	J	0.00400	mg/l	SW846 6010C
Barium	0.616		0.0050	mg/l	SW846 6010C
Calcium	188		0.100	mg/l	SW846 6010C
Chromium	0.0021	J	0.0050	mg/l	SW846 6010C
Cobalt	0.0015	J	0.0050	mg/l	SW846 6010C
Copper	0.0068		0.0050	mg/l	SW846 6010C
Iron	2.11	R06	1.00	mg/l	SW846 6010C
Magnesium	21.5	R06	5.00	mg/l	SW846 6010C
Manganese	0.180		0.0040	mg/l	SW846 6010C
Nickel	0.0027	J	0.0050	mg/l	SW846 6010C
Potassium	12.1		0.500	mg/l	SW846 6010C
Sodium	2180	GS1, D1	5.0	mg/l	SW846 6010C
Vanadium	0.0037	J	0.0050	mg/l	SW846 6010C
Zinc	0.0136	J	0.0250	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	0.95	J	1.00	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	0.62	J	1.00	µg/l	SW846 8260C
4-Isopropyltoluene	0.72	J	1.00	µg/l	SW846 8260C
Isopropylbenzene	4.64		1.00	µg/l	SW846 8260C
m,p-Xylene	1.08	J	2.00	µg/l	SW846 8260C
n-Butylbenzene	2.27		1.00	µg/l	SW846 8260C
n-Propylbenzene	8.93		1.00	µg/l	SW846 8260C
sec-Butylbenzene	1.87		1.00	µg/l	SW846 8260C
tert-Butylbenzene	0.33	J	1.00	µg/l	SW846 8260C
Toluene	0.66	J	1.00	µg/l	SW846 8260C
Di-n-octyl phthalate	5.45		4.95	µg/l	SW846 8270D

Lab ID: SC50148-02 **Client ID:** MW-07

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.506		0.0250	mg/l	SW846 6010C
Arsenic	0.01460		0.00400	mg/l	SW846 6010C
Barium	0.234		0.0050	mg/l	SW846 6010C
Calcium	337	GS1, D1	1.00	mg/l	SW846 6010C
Chromium	0.0014	J	0.0050	mg/l	SW846 6010C
Cobalt	0.0010	J	0.0050	mg/l	SW846 6010C
Iron	3.57	R06	1.00	mg/l	SW846 6010C
Magnesium	71.9	GS1, R1	50.0	mg/l	SW846 6010C
Manganese	0.0773		0.0040	mg/l	SW846 6010C
Nickel	0.0020	J	0.0050	mg/l	SW846 6010C
Potassium	5.55		0.500	mg/l	SW846 6010C
Sodium	1350	GS1, D1	7.50	mg/l	SW846 6010C
Zinc	0.0106	J	0.0250	mg/l	SW846 6010C

Lab ID: SC50148-03 **Client ID:** MW-08

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.0150	J	0.0250	mg/l	SW846 6010C
Arsenic	0.00375	J	0.00400	mg/l	SW846 6010C
Barium	0.800		0.0050	mg/l	SW846 6010C
Calcium	256	GS1, D	0.500	mg/l	SW846 6010C
Iron	5.04	R06	1.00	mg/l	SW846 6010C
Lead	0.0122		0.0075	mg/l	SW846 6010C
Magnesium	33.4	R06	5.00	mg/l	SW846 6010C
Manganese	0.591		0.0040	mg/l	SW846 6010C
Potassium	9.14		0.500	mg/l	SW846 6010C
Sodium	371	GS1, D	3.75	mg/l	SW846 6010C
Zinc	0.0032	J	0.0250	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	922	D	10.0	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	195	D	10.0	µg/l	SW846 8260C
4-Isopropyltoluene	10.3	D	10.0	µg/l	SW846 8260C
Benzene	34.2	D	10.0	µg/l	SW846 8260C
Ethylbenzene	352	D	10.0	µg/l	SW846 8260C
Isopropylbenzene	41.2	D	10.0	µg/l	SW846 8260C
m,p-Xylene	629	D	20.0	µg/l	SW846 8260C
Naphthalene	164	D	20.0	µg/l	SW846 8260C
n-Butylbenzene	24.6	D	10.0	µg/l	SW846 8260C
n-Propylbenzene	74.9	D	10.0	µg/l	SW846 8260C
o-Xylene	84.6	D	10.0	µg/l	SW846 8260C
sec-Butylbenzene	8.10	J, D	10.0	µg/l	SW846 8260C
Toluene	49.4	D	10.0	µg/l	SW846 8260C
1-Methylnaphthalene	15.0		4.76	µg/l	SW846 8270D
2-Methylnaphthalene	11.2		4.76	µg/l	SW846 8270D
Bis(2-ethylhexyl)phthalate	2.67	J	4.76	µg/l	SW846 8270D
Naphthalene	38.1		4.76	µg/l	SW846 8270D

Lab ID: SC50148-04 **Client ID:** MW-09

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.870		0.0250	mg/l	SW846 6010C
Arsenic	0.00300	J	0.00400	mg/l	SW846 6010C
Barium	0.604		0.0050	mg/l	SW846 6010C
Cadmium	0.0004	J	0.0025	mg/l	SW846 6010C
Calcium	182		0.100	mg/l	SW846 6010C
Chromium	0.0022	J	0.0050	mg/l	SW846 6010C
Cobalt	0.0008	J	0.0050	mg/l	SW846 6010C
Copper	0.0029	J	0.0050	mg/l	SW846 6010C
Iron	5.50	R06	1.00	mg/l	SW846 6010C
Magnesium	25.4	R06	5.00	mg/l	SW846 6010C
Manganese	0.337		0.0040	mg/l	SW846 6010C
Nickel	0.0018	J	0.0050	mg/l	SW846 6010C
Potassium	10.9		0.500	mg/l	SW846 6010C
Sodium	557	GS1, D	3.75	mg/l	SW846 6010C
Vanadium	0.0028	J	0.0050	mg/l	SW846 6010C
Zinc	0.0071	J	0.0250	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	0.69	J	1.00	µg/l	SW846 8260C
4-Isopropyltoluene	0.82	J	1.00	µg/l	SW846 8260C
Acetone	5.01	J	10.0	µg/l	SW846 8260C
Isopropylbenzene	1.13		1.00	µg/l	SW846 8260C
n-Butylbenzene	1.62		1.00	µg/l	SW846 8260C
n-Propylbenzene	1.43		1.00	µg/l	SW846 8260C
sec-Butylbenzene	0.75	J	1.00	µg/l	SW846 8260C
tert-Butylbenzene	0.61	J	1.00	µg/l	SW846 8260C
Bis(2-ethylhexyl)phthalate	4.21	J	4.72	µg/l	SW846 8270D

Lab ID: SC50148-05 **Client ID:** MW-D

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	0.742		0.0250	mg/l	SW846 6010C
Barium	0.544		0.0050	mg/l	SW846 6010C
Calcium	187		0.100	mg/l	SW846 6010C
Chromium	0.0020	J	0.0050	mg/l	SW846 6010C
Cobalt	0.0008	J	0.0050	mg/l	SW846 6010C
Copper	0.0028	J	0.0050	mg/l	SW846 6010C
Iron	5.52	R06	1.00	mg/l	SW846 6010C
Magnesium	26.4	R06	5.00	mg/l	SW846 6010C
Manganese	0.302		0.0040	mg/l	SW846 6010C
Nickel	0.0014	J	0.0050	mg/l	SW846 6010C
Potassium	9.78		0.500	mg/l	SW846 6010C
Sodium	581	GS1, D	3.75	mg/l	SW846 6010C
Vanadium	0.0022	J	0.0050	mg/l	SW846 6010C
Zinc	0.0077	J	0.0250	mg/l	SW846 6010C
1,2,4-Trimethylbenzene	0.68	J	1.00	µg/l	SW846 8260C
4-Isopropyltoluene	0.81	J	1.00	µg/l	SW846 8260C
Chloromethane	0.50	J	2.00	µg/l	SW846 8260C
Isopropylbenzene	1.56		1.00	µg/l	SW846 8260C
n-Butylbenzene	1.82		1.00	µg/l	SW846 8260C
n-Propylbenzene	2.04		1.00	µg/l	SW846 8260C
sec-Butylbenzene	1.12		1.00	µg/l	SW846 8260C
tert-Butylbenzene	0.60	J	1.00	µg/l	SW846 8260C
Bis(2-ethylhexyl)phthalate	2.67	J	4.72	µg/l	SW846 8270D

Lab ID: SC50148-06 **Client ID:** Trip Blank

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Chloromethane	0.70	J	2.00	µg/l	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	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	06-Sep-18 12:20	08-Sep-18
SC50148-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Sep-18	19-Sep-18	MP	1812693	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**2.27**		µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**1.87**		µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**0.33**	J	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	06-Sep-18 12:20	08-Sep-18
SC50148-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	**4.64**		µg/l	1.00	0.30	1	SW846 8260C	19-Sep-18	19-Sep-18	MP	1812693	X
99-87-6	4-Isopropyltoluene	**0.72**	J	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**8.93**		µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	**0.66**	J	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**0.95**	J	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**0.62**	J	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**1.08**	J	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*89*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*96*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
824-90-8	1-Phenyl-1-Butene	**12**	J N	µg/l			1	SW846 8260C TICs	"	"	MP	"	
874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	**18**	J N	µg/l			1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	06-Sep-18 12:20	08-Sep-18
SC50148-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS													
79-29-8	Butane, 2,3-dimethyl-	35	J N	µg/l			1	SW846 8260C TICs	19-Sep-18	19-Sep-18	MP	1812693	
78-78-4	Butane, 2-methyl-	31	J N	µg/l			1	"	"	"	"	"	
001638-26-2	Cyclopentane, 1,1-dimethyl-	14	J N	µg/l			1	"	"	"	"	"	
96-37-7	Cyclopentane, methyl-	19	J N	µg/l			1	"	"	"	"	"	
016491-15-9	Cyclopentene, 1,5-dimethyl-	13	J N	µg/l			1	"	"	"	"	"	
872-56-0	Isopropylcyclobutane	23	J N	µg/l			1	"	"	"	"	"	
107-83-5	Pentane, 2-methyl-	42	J N	µg/l			1	"	"	"	"	"	
96-14-0	Pentane, 3-methyl-	32	J N	µg/l			1	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.95	U	µg/l	4.95	1.08	1	SW846 8270D	12-Sep-18	17-Sep-18	MSL	1812395	X
208-96-8	Acenaphthylene	< 4.95	U	µg/l	4.95	1.14	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.95	U	µg/l	4.95	0.489	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.95	U	µg/l	4.95	1.16	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.95	U	µg/l	4.95	0.957	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.90	U	µg/l	9.90	4.52	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.95	U	µg/l	4.95	0.860	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.95	U	µg/l	4.95	0.711	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.95	U	µg/l	4.95	0.662	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.95	U	µg/l	4.95	0.693	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.95	U	µg/l	4.95	0.972	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.95	U	µg/l	4.95	1.72	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.95	U	µg/l	4.95	1.04	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.95	U	µg/l	4.95	0.865	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.95	U	µg/l	4.95	1.10	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.95	U	µg/l	4.95	1.00	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.95	U	µg/l	4.95	0.717	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.95	U	µg/l	4.95	0.928	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.95	U	µg/l	4.95	0.462	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.95	U	µg/l	4.95	1.54	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.95	U	µg/l	4.95	0.825	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.95	U	µg/l	4.95	1.16	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.95	U	µg/l	4.95	1.34	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.95	U	µg/l	4.95	1.10	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.95	U	µg/l	4.95	0.493	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.95	U	µg/l	4.95	0.927	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.95	U	µg/l	4.95	0.671	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.95	U	µg/l	4.95	1.21	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.95	U	µg/l	4.95	1.68	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.95	U	µg/l	4.95	1.56	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	06-Sep-18 12:20	08-Sep-18
SC50148-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
106-46-7	1,4-Dichlorobenzene	< 4.95	U	µg/l	4.95	1.50	1	SW846 8270D	12-Sep-18	17-Sep-18	MSL	1812395	X
91-94-1	3,3´-Dichlorobenzidine	< 4.95	U	µg/l	4.95	0.839	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.95	U	µg/l	4.95	0.931	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.95	U	µg/l	4.95	1.79	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.95	U	µg/l	4.95	1.72	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.95	U	µg/l	4.95	1.05	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.95	U	µg/l	4.95	0.615	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.95	U	µg/l	4.95	1.07	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.95	U	µg/l	4.95	1.20	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.95	U	µg/l	4.95	1.18	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.95	U	µg/l	4.95	1.24	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	**5.45**		µg/l	4.95	1.25	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.95	U	µg/l	4.95	1.01	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.95	U	µg/l	4.95	0.963	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.95	U	µg/l	4.95	1.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.95	U	µg/l	4.95	1.50	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.95	U	µg/l	4.95	1.24	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.95	U	µg/l	4.95	1.65	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.95	U	µg/l	4.95	0.575	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.95	U	µg/l	4.95	0.809	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.95	U	µg/l	4.95	1.63	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.95	U	µg/l	4.95	1.05	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.90	U	µg/l	9.90	1.12	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.95	U	µg/l	4.95	1.35	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.95	U	µg/l	4.95	0.497	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.95	U	µg/l	4.95	0.630	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.95	U	µg/l	4.95	0.623	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.95	U	µg/l	4.95	1.28	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.95	U	µg/l	4.95	0.710	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.8	U	µg/l	19.8	0.771	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.95	U	µg/l	4.95	0.593	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.95	U	µg/l	4.95	1.02	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.95	U	µg/l	4.95	1.00	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.8	U	µg/l	19.8	0.769	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.95	U	µg/l	4.95	1.16	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.95	U	µg/l	4.95	1.24	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.95	U	µg/l	4.95	0.978	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.95	U	µg/l	4.95	0.403	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.95	U	µg/l	4.95	1.55	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.95	U	µg/l	4.95	1.17	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.95	U	µg/l	4.95	0.773	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.95	U	µg/l	4.95	0.692	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.95	U	µg/l	4.95	0.795	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.95	U	µg/l	4.95	1.09	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	06-Sep-18 12:20	08-Sep-18
SC50148-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*59*			*30-130 %*			SW846 8270D	12-Sep-18	17-Sep-18	MSL	1812395	
367-12-4	*2-Fluorophenol*	*48*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*63*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*34*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*94*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*64*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
001599-67-3	1-Docosene	**5.6**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
95-93-2	Benzene, 1,2,4,5-tetramethyl-	**4.0**	J N	µg/l			1	"	"	"	"	"	
002039-89-6	Benzene, 2-ethenyl-1,4-dime...	**4.9**	J N	µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	10-Sep-18		KT	1812341	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	17-Sep-18	19-Sep-18	SC/ED	1812528	X
7429-90-5	Aluminum	**0.866**		mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.00250**	J	mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.616**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**188**		mg/l	0.100	0.0071	1	"	"	21-Sep-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	19-Sep-18	"	"	X
7440-48-4	Cobalt	**0.0015**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0021**	J	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0068**		mg/l	0.0050	0.0023	1	"	"	25-Sep-18	"	"	X
7439-89-6	Iron	**2.11**	R06	mg/l	1.00	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**12.1**		mg/l	0.500	0.0600	1	"	"	19-Sep-18	"	"	X
7439-95-4	Magnesium	**21.5**	R06	mg/l	5.00	0.0044	1	"	"	21-Sep-18	"	"	X
7439-96-5	Manganese	**0.180**		mg/l	0.0040	0.0019	1	"	"	19-Sep-18	"	"	X
7440-23-5	Sodium	**2,180**	GS1, D	mg/l	15.0	0.785	20	"	"	21-Sep-18	"	"	X
7440-02-0	Nickel	**0.0027**	J	mg/l	0.0050	0.0009	1	"	"	19-Sep-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	**0.0037**	J	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0136**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	17-Sep-18	18-Sep-18	ABW	1812530	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07	18-051	Ground Water	06-Sep-18 10:53	08-Sep-18
SC50148-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Sep-18	19-Sep-18	MP	1812693	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	19-Sep-18	19-Sep-18	MP	1812693	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*91*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*95*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	**None found**		µg/l			1	SW846 8260C TICs	"	"	MP	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07	18-051	Ground Water	06-Sep-18 10:53	08-Sep-18
SC50148-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.67	U	µg/l	4.67	1.02	1	SW846 8270D	12-Sep-18	17-Sep-18	MSL	1812395	X
208-96-8	Acenaphthylene	< 4.67	U	µg/l	4.67	1.07	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.67	U	µg/l	4.67	0.462	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.67	U	µg/l	4.67	1.09	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.67	U	µg/l	4.67	0.904	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.35	U	µg/l	9.35	4.27	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.67	U	µg/l	4.67	0.812	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.67	U	µg/l	4.67	0.671	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.67	U	µg/l	4.67	0.625	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.67	U	µg/l	4.67	0.654	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.67	U	µg/l	4.67	0.918	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.67	U	µg/l	4.67	1.63	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.67	U	µg/l	4.67	0.981	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.67	U	µg/l	4.67	0.817	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.67	U	µg/l	4.67	1.04	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.67	U	µg/l	4.67	0.944	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4.67	U	µg/l	4.67	0.677	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.876	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.67	U	µg/l	4.67	0.436	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.67	U	µg/l	4.67	1.46	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.67	U	µg/l	4.67	0.779	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.67	U	µg/l	4.67	1.09	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.67	U	µg/l	4.67	1.26	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.67	U	µg/l	4.67	1.04	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.67	U	µg/l	4.67	0.465	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.67	U	µg/l	4.67	0.875	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.67	U	µg/l	4.67	0.634	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.67	U	µg/l	4.67	1.14	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.67	U	µg/l	4.67	1.59	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.67	U	µg/l	4.67	1.48	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.67	U	µg/l	4.67	1.41	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.67	U	µg/l	4.67	0.792	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.67	U	µg/l	4.67	0.879	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.67	U	µg/l	4.67	1.69	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.67	U	µg/l	4.67	1.63	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.67	U	µg/l	4.67	0.991	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.67	U	µg/l	4.67	0.580	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.67	U	µg/l	4.67	1.01	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.67	U	µg/l	4.67	1.13	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.67	U	µg/l	4.67	1.11	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.67	U	µg/l	4.67	1.17	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07	18-051	Ground Water	06-Sep-18 10:53	08-Sep-18
SC50148-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	< 4.67	U	µg/l	4.67	1.18	1	SW846 8270D	12-Sep-18	17-Sep-18	MSL	1812395	X
206-44-0	Fluoranthene	< 4.67	U	µg/l	4.67	0.953	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.67	U	µg/l	4.67	0.909	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.67	U	µg/l	4.67	1.25	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.67	U	µg/l	4.67	1.42	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.67	U	µg/l	4.67	1.17	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.67	U	µg/l	4.67	1.56	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.67	U	µg/l	4.67	0.543	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.67	U	µg/l	4.67	0.764	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.67	U	µg/l	4.67	1.54	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.67	U	µg/l	4.67	0.991	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.35	U	µg/l	9.35	1.06	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.67	U	µg/l	4.67	1.27	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.67	U	µg/l	4.67	0.469	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.67	U	µg/l	4.67	0.594	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.67	U	µg/l	4.67	0.588	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.67	U	µg/l	4.67	1.21	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.67	U	µg/l	4.67	0.670	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.7	U	µg/l	18.7	0.728	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.67	U	µg/l	4.67	0.560	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.67	U	µg/l	4.67	0.963	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.67	U	µg/l	4.67	0.944	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.7	U	µg/l	18.7	0.726	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.67	U	µg/l	4.67	1.09	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.67	U	µg/l	4.67	1.17	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.67	U	µg/l	4.67	0.923	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.67	U	µg/l	4.67	0.380	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.67	U	µg/l	4.67	1.47	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.67	U	µg/l	4.67	1.10	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.67	U	µg/l	4.67	0.730	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.67	U	µg/l	4.67	0.653	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.67	U	µg/l	4.67	0.750	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.67	U	µg/l	4.67	1.03	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*54*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*45*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*61*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*30*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*86*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*57*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
	Tentatively Identified Compounds	**0.0**	U	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
Total Metals by EPA 200/6000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07 SC50148-02	18-051	Ground Water	06-Sep-18 10:53	08-Sep-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	10-Sep-18		KT	1812341	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	17-Sep-18	19-Sep-18	SC/ED	1812528	X
7429-90-5	Aluminum	**0.506**		mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.01460**		mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.234**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**337**	GS1, D	mg/l	1.00	0.0710	10	"	"	21-Sep-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	19-Sep-18	"	"	X
7440-48-4	Cobalt	**0.0010**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0014**	J	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050	U	mg/l	0.0050	0.0023	1	"	"	25-Sep-18	"	"	X
7439-89-6	Iron	**3.57**	R06	mg/l	1.00	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**5.55**		mg/l	0.500	0.0600	1	"	"	19-Sep-18	"	"	X
7439-95-4	Magnesium	**71.9**	GS1, R06, D	mg/l	50.0	0.0442	10	"	"	21-Sep-18	"	"	X
7439-96-5	Manganese	**0.0773**		mg/l	0.0040	0.0019	1	"	"	19-Sep-18	"	"	X
7440-23-5	Sodium	**1,350**	GS1, D	mg/l	7.50	0.392	10	"	"	21-Sep-18	"	"	X
7440-02-0	Nickel	**0.0020**	J	mg/l	0.0050	0.0009	1	"	"	19-Sep-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	< 0.0050	U	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0106**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	17-Sep-18	18-Sep-18	ABW	1812530	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	07-Sep-18 12:58	08-Sep-18
SC50148-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 10.0	U, D	µg/l	10.0	5.81	10	SW846 8260C	19-Sep-18	19-Sep-18	MP	1812693	X
67-64-1	Acetone	< 100	U, D	µg/l	100	37.6	10	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U, D	µg/l	5.00	4.75	10	"	"	"	"	"	X
71-43-2	Benzene	**34.2**	D	µg/l	10.0	3.39	10	"	"	"	"	"	X
108-86-1	Bromobenzene	< 10.0	U, D	µg/l	10.0	2.79	10	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 10.0	U, D	µg/l	10.0	3.39	10	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U, D	µg/l	5.00	2.91	10	"	"	"	"	"	X
75-25-2	Bromoform	< 10.0	U, D	µg/l	10.0	2.42	10	"	"	"	"	"	X
74-83-9	Bromomethane	< 20.0	U, D	µg/l	20.0	4.46	10	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.0	U, D	µg/l	20.0	7.03	10	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**24.6**	D	µg/l	10.0	4.68	10	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**8.10**	J, D	µg/l	10.0	3.11	10	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 10.0	U, D	µg/l	10.0	2.96	10	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 20.0	U, D	µg/l	20.0	7.00	10	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 10.0	U, D	µg/l	10.0	3.92	10	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 10.0	U, D	µg/l	10.0	3.00	10	"	"	"	"	"	X
75-00-3	Chloroethane	< 20.0	U, D	µg/l	20.0	4.03	10	"	"	"	"	"	X
67-66-3	Chloroform	< 10.0	U, D	µg/l	10.0	2.86	10	"	"	"	"	"	X
74-87-3	Chloromethane	< 20.0	U, D	µg/l	20.0	3.60	10	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 10.0	U, D	µg/l	10.0	3.13	10	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 20.0	U, D	µg/l	20.0	4.71	10	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U, D	µg/l	5.00	2.91	10	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U, D	µg/l	5.00	3.01	10	"	"	"	"	"	X
74-95-3	Dibromomethane	< 10.0	U, D	µg/l	10.0	2.72	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.45	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	3.00	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 10.0	U, D	µg/l	10.0	2.72	10	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 20.0	U, D	µg/l	20.0	3.45	10	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 10.0	U, D	µg/l	10.0	1.81	10	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.14	10	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.97	10	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 10.0	U, D	µg/l	10.0	3.80	10	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.89	10	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 10.0	U, D	µg/l	10.0	4.45	10	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 10.0	U, D	µg/l	10.0	3.34	10	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.28	10	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U, D	µg/l	5.00	3.06	10	"	"	"	"	"	X
100-41-4	Ethylbenzene	**352**	D	µg/l	10.0	3.17	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U, D	µg/l	5.00	2.58	10	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 20.0	U, D	µg/l	20.0	6.34	10	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	07-Sep-18 12:58	08-Sep-18
SC50148-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
98-82-8	Isopropylbenzene	**41.2**	D	µg/l	10.0	3.02	10	SW846 8260C	19-Sep-18	19-Sep-18	MP	1812693	X
99-87-6	4-Isopropyltoluene	**10.3**	D	µg/l	10.0	4.20	10	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.95	10	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 20.0	U, D	µg/l	20.0	3.54	10	"	"	"	"	"	X
75-09-2	Methylene chloride	< 20.0	U, D	µg/l	20.0	3.85	10	"	"	"	"	"	X
91-20-3	Naphthalene	**164**	D	µg/l	20.0	13.9	10	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**74.9**	D	µg/l	10.0	3.20	10	"	"	"	"	"	X
100-42-5	Styrene	< 10.0	U, D	µg/l	10.0	3.28	10	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 10.0	U, D	µg/l	10.0	3.17	10	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U, D	µg/l	5.00	2.57	10	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 10.0	U, D	µg/l	10.0	3.11	10	"	"	"	"	"	X
108-88-3	Toluene	**49.4**	D	µg/l	10.0	2.90	10	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.81	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.23	10	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 10.0	U, D	µg/l	10.0	3.90	10	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 10.0	U, D	µg/l	10.0	2.45	10	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 10.0	U, D	µg/l	10.0	3.09	10	"	"	"	"	"	X
79-01-6	Trichloroethene	< 10.0	U, D	µg/l	10.0	3.55	10	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 10.0	U, D	µg/l	10.0	2.76	10	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 10.0	U, D	µg/l	10.0	2.60	10	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**922**	D	µg/l	10.0	6.20	10	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**195**	D	µg/l	10.0	5.40	10	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 10.0	U, D	µg/l	10.0	4.02	10	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**629**	D	µg/l	20.0	4.74	10	"	"	"	"	"	X
95-47-6	o-Xylene	**84.6**	D	µg/l	10.0	4.10	10	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 20.0	U, D	µg/l	20.0	4.98	10	"	"	"	"	"	
60-29-7	Ethyl ether	< 10.0	U, D	µg/l	10.0	2.92	10	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 10.0	U, D	µg/l	10.0	2.98	10	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.90	10	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 10.0	U, D	µg/l	10.0	2.94	10	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 100	U, D	µg/l	100	31.3	10	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 200	U, D	µg/l	200	58.1	10	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 50.0	U, D	µg/l	50.0	6.13	10	"	"	"	"	"	X
64-17-5	Ethanol	< 2000	U, D	µg/l	2000	132	10	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*95*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
824-90-8	1-Phenyl-1-Butene	**120**	J N, D	µg/l			10	SW846 8260C TICs	"	"	MP	"	
874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	**130**	J N, D	µg/l			10	"	"	"	"	"	

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	07-Sep-18 12:58	08-Sep-18
SC50148-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS													
611-14-3	Benzene, 1-ethyl-2-methyl-	**220**	J N, D	µg/l			10	SW846 8260C TICs	19-Sep-18	19-Sep-18	MP	1812693	
622-96-8	Benzene, 1-ethyl-4-methyl-	**210**	J N, D	µg/l			10	"	"	"	"	"	
78-78-4	Butane, 2-methyl-	**180**	J N, D	µg/l			10	"	"	"	"	"	
96-37-7	Cyclopentane, methyl-	**250**	J N, D	µg/l			10	"	"	"	"	"	
000767-58-8	Indan, 1-methyl-	**99**	J N, D	µg/l			10	"	"	"	"	"	
496-11-7	Indane	**220**	J N, D	µg/l			10	"	"	"	"	"	
107-83-5	Pentane, 2-methyl-	**100**	J N, D	µg/l			10	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.76	U	µg/l	4.76	1.04	1	SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	X
208-96-8	Acenaphthylene	< 4.76	U	µg/l	4.76	1.10	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.76	U	µg/l	4.76	0.470	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.76	U	µg/l	4.76	0.921	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.52	U	µg/l	9.52	4.35	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.76	U	µg/l	4.76	0.828	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.76	U	µg/l	4.76	0.684	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.76	U	µg/l	4.76	0.637	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.76	U	µg/l	4.76	0.667	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.76	U	µg/l	4.76	0.935	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.76	U	µg/l	4.76	1.00	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.76	U	µg/l	4.76	0.832	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	**2.67**	J	µg/l	4.76	0.690	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.892	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.76	U	µg/l	4.76	0.445	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.76	U	µg/l	4.76	1.49	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.76	U	µg/l	4.76	0.793	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.76	U	µg/l	4.76	1.29	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.76	U	µg/l	4.76	1.06	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.76	U	µg/l	4.76	0.474	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.76	U	µg/l	4.76	0.891	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.76	U	µg/l	4.76	0.646	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.76	U	µg/l	4.76	1.16	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.62	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.76	U	µg/l	4.76	1.44	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	07-Sep-18 12:58	08-Sep-18
SC50148-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
91-94-1	3,3´-Dichlorobenzidine	< 4.76	U	µg/l	4.76	0.807	1	SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	X
120-83-2	2,4-Dichlorophenol	< 4.76	U	µg/l	4.76	0.895	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.76	U	µg/l	4.76	1.72	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.76	U	µg/l	4.76	1.66	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.76	U	µg/l	4.76	0.591	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.76	U	µg/l	4.76	1.03	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.76	U	µg/l	4.76	1.15	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.13	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4.76	U	µg/l	4.76	1.20	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.76	U	µg/l	4.76	0.971	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.76	U	µg/l	4.76	0.927	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.76	U	µg/l	4.76	1.28	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.76	U	µg/l	4.76	1.45	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.76	U	µg/l	4.76	1.59	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.76	U	µg/l	4.76	0.553	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.76	U	µg/l	4.76	0.778	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**11.2**		µg/l	4.76	1.57	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.76	U	µg/l	4.76	1.01	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.52	U	µg/l	9.52	1.08	1	"	"	"	"	"	X
91-20-3	Naphthalene	**38.1**		µg/l	4.76	1.30	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.76	U	µg/l	4.76	0.478	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.76	U	µg/l	4.76	0.606	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.76	U	µg/l	4.76	0.599	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.76	U	µg/l	4.76	1.23	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.76	U	µg/l	4.76	0.683	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19.0	U	µg/l	19.0	0.742	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.76	U	µg/l	4.76	0.570	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.76	U	µg/l	4.76	0.981	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.76	U	µg/l	4.76	0.962	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19.0	U	µg/l	19.0	0.740	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.76	U	µg/l	4.76	1.11	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.76	U	µg/l	4.76	1.19	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.76	U	µg/l	4.76	0.941	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.76	U	µg/l	4.76	0.388	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.76	U	µg/l	4.76	1.50	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**15.0**		µg/l	4.76	1.12	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.76	U	µg/l	4.76	0.744	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.76	U	µg/l	4.76	0.666	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.76	U	µg/l	4.76	0.765	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.76	U	µg/l	4.76	1.05	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08 SC50148-03	18-051	Ground Water	07-Sep-18 12:58	08-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*52*			*30-130 %*			SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	
367-12-4	*2-Fluorophenol*	*41*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*61*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*24*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*82*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*62*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
	1H-Indene, 2,3-dihydro-4,7-...	**13**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
	1H-Indene, 2,3-dihydro-5-me...	**29**	J N	µg/l			1	"	"	"	"	"	
488-23-3	Benzene, 1,2,3,4-tetramethyl-	**22**	J N	µg/l			1	"	"	"	"	"	
000526-73-8	Benzene, 1,2,3-trimethyl- (02)	**270**	J N	µg/l			1	"	"	"	"	"	
95-93-2	Benzene, 1,2,4,5-tetramethyl-	**25**	J N	µg/l			1	"	"	"	"	"	
95-63-6	Benzene, 1,2,4-trimethyl-	**140**	J N	µg/l			1	"	"	"	"	"	
108-38-3	Benzene, 1,3-dimethyl-	**180**	J N	µg/l			1	"	"	"	"	"	
611-14-3	Benzene, 1-ethyl-2-methyl-	**110**	J N	µg/l			1	"	"	"	"	"	
001074-55-1	Benzene, 1-methyl-4-propyl-	**14**	J N	µg/l			1	"	"	"	"	"	
002039-89-6	Benzene, 2-ethenyl-1,4-dime...	**56**	J N	µg/l			1	"	"	"	"	"	
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl- (02)	**72**	J N	µg/l			1	"	"	"	"	"	
000050-84-0	Benzoic acid, 2,4-dichloro-	**11**	J N	µg/l			1	"	"	"	"	"	
010544-50-0	Cyclic octaatomic sulfur	**39**	J N	µg/l			1	"	"	"	"	"	
001528-22-9	Cyclobutane, (1-methylethyl...	**13**	J N	µg/l			1	"	"	"	"	"	
100-41-4	Ethylbenzene	**18**	J N	µg/l			1	"	"	"	"	"	
496-11-7	Indane	**90**	J N	µg/l			1	"	"	"	"	"	
95-47-6	o-Xylene	**34**	J N	µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	10-Sep-18		KT	1812341	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	17-Sep-18	19-Sep-18	SC/ED	1812528	X
7429-90-5	Aluminum	**0.0150**	J	mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.00375**	J	mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.800**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**256**	GS1, D	mg/l	0.500	0.0355	5	"	"	21-Sep-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	19-Sep-18	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08 SC50148-03	18-051	Ground Water	07-Sep-18 12:58	08-Sep-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-48-4	Cobalt	< 0.0050	U	mg/l	0.0050	0.0008	1	SW846 6010C	17-Sep-18	19-Sep-18	SC/ED	1812528	X
7440-47-3	Chromium	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050	U	mg/l	0.0050	0.0023	1	"	"	25-Sep-18	"	"	X
7439-89-6	Iron	**5.04**	R06	mg/l	1.00	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**9.14**		mg/l	0.500	0.0600	1	"	"	19-Sep-18	"	"	X
7439-95-4	Magnesium	**33.4**	R06	mg/l	5.00	0.0044	1	"	"	21-Sep-18	"	"	X
7439-96-5	Manganese	**0.591**		mg/l	0.0040	0.0019	1	"	"	19-Sep-18	"	"	X
7440-23-5	Sodium	**371**	GS1, D	mg/l	3.75	0.196	5	"	"	21-Sep-18	"	"	X
7440-02-0	Nickel	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	19-Sep-18	"	"	X
7439-92-1	Lead	**0.0122**		mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	< 0.0050	U	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0032**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	17-Sep-18	18-Sep-18	ABW	1812530	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	07-Sep-18 12:30	08-Sep-18
SC50148-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Sep-18	20-Sep-18	MP	1812696	X
67-64-1	Acetone	**5.01**	J	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**1.62**		µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**0.75**	J	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**0.61**	J	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	**1.13**		µg/l	1.00	0.30	1	SW846 8260C	19-Sep-18	20-Sep-18	MP	1812696	X
99-87-6	4-Isopropyltoluene	**0.82**	J	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**1.43**		µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**0.69**	J	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*97*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*95*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
824-90-8	1-Phenyl-1-Butene	**12**	J N	µg/l			1	SW846 8260C TICs	"	"	MP	"	
141-93-5	Benzene, 1,3-diethyl-	**7.4**	J N	µg/l			1	"	"	"	"	"	
79-29-8	Butane, 2,3-dimethyl-	**9.4**	J N	µg/l			1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	07-Sep-18 12:30	08-Sep-18
SC50148-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS													
	Cyclohexane, 1,2-dimethyl-	9.9	J N	µg/l			1	SW846 8260C TICs	19-Sep-18	20-Sep-18	MP	1812696	
872-56-0	Isopropylcyclobutane	15	J N	µg/l			1	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.72	U	µg/l	4.72	1.03	1	SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	X
208-96-8	Acenaphthylene	< 4.72	U	µg/l	4.72	1.08	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.72	U	µg/l	4.72	0.466	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.72	U	µg/l	4.72	0.912	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.43	U	µg/l	9.43	4.31	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72	U	µg/l	4.72	0.820	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72	U	µg/l	4.72	0.677	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72	U	µg/l	4.72	0.631	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72	U	µg/l	4.72	0.660	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72	U	µg/l	4.72	0.926	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.72	U	µg/l	4.72	0.991	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.72	U	µg/l	4.72	0.825	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	4.21	J	µg/l	4.72	0.683	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.884	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.72	U	µg/l	4.72	0.441	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.72	U	µg/l	4.72	1.47	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.72	U	µg/l	4.72	0.786	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.72	U	µg/l	4.72	1.27	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.470	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72	U	µg/l	4.72	0.883	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72	U	µg/l	4.72	0.640	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.72	U	µg/l	4.72	1.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.60	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.49	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.42	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.72	U	µg/l	4.72	0.799	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.72	U	µg/l	4.72	0.887	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.72	U	µg/l	4.72	1.71	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.72	U	µg/l	4.72	0.586	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	07-Sep-18 12:30	08-Sep-18
SC50148-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
534-52-1	4,6-Dinitro-2-methylphenol	< 4.72	U	µg/l	4.72	1.02	1	SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	X
51-28-5	2,4-Dinitrophenol	< 4.72	U	µg/l	4.72	1.14	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.12	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4.72	U	µg/l	4.72	1.19	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.72	U	µg/l	4.72	0.962	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72	U	µg/l	4.72	0.918	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.72	U	µg/l	4.72	1.26	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.72	U	µg/l	4.72	1.43	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.72	U	µg/l	4.72	1.58	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72	U	µg/l	4.72	0.548	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.72	U	µg/l	4.72	0.771	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.72	U	µg/l	4.72	1.56	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.43	U	µg/l	9.43	1.07	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72	U	µg/l	4.72	1.28	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.72	U	µg/l	4.72	0.474	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.72	U	µg/l	4.72	0.600	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.72	U	µg/l	4.72	0.593	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.72	U	µg/l	4.72	1.22	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.72	U	µg/l	4.72	0.676	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.9	U	µg/l	18.9	0.735	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.72	U	µg/l	4.72	0.565	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.72	U	µg/l	4.72	0.972	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.9	U	µg/l	18.9	0.733	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72	U	µg/l	4.72	0.932	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.72	U	µg/l	4.72	0.384	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.72	U	µg/l	4.72	1.48	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.72	U	µg/l	4.72	1.11	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.72	U	µg/l	4.72	0.737	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.72	U	µg/l	4.72	0.659	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.72	U	µg/l	4.72	0.758	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.72	U	µg/l	4.72	1.04	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*43*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*62*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*28*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*97*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09 SC50148-04	18-051	Ground Water	07-Sep-18 12:30	08-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
118-79-6	*2,4,6-Tribromophenol*	*66*			*15-110 %*			SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	
Tentatively Identified Compounds													
001454-85-9	1-Heptadecanol	**6.3**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
141-93-5	Benzene, 1,3-diethyl-	**5.5**	J N	µg/l			1	"	"	"	"	"	
000050-84-0	Benzoic acid, 2,4-dichloro-	**8.2**	J N	µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	10-Sep-18		KT	1812341	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	17-Sep-18	19-Sep-18	SC/ED	1812528	X
7429-90-5	Aluminum	**0.870**		mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	**0.00300**	J	mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.604**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**182**		mg/l	0.100	0.0071	1	"	"	22-Sep-18	"	"	X
7440-43-9	Cadmium	**0.0004**	J	mg/l	0.0025	0.0004	1	"	"	19-Sep-18	"	"	X
7440-48-4	Cobalt	**0.0008**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0022**	J	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0029**	J	mg/l	0.0050	0.0023	1	"	"	25-Sep-18	"	"	X
7439-89-6	Iron	**5.50**	R06	mg/l	1.00	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**10.9**		mg/l	0.500	0.0600	1	"	"	19-Sep-18	"	"	X
7439-95-4	Magnesium	**25.4**	R06	mg/l	5.00	0.0044	1	"	"	22-Sep-18	"	"	X
7439-96-5	Manganese	**0.337**		mg/l	0.0040	0.0019	1	"	"	19-Sep-18	"	"	X
7440-23-5	Sodium	**557**	GS1, D	mg/l	3.75	0.196	5	"	"	22-Sep-18	"	"	X
7440-02-0	Nickel	**0.0018**	J	mg/l	0.0050	0.0009	1	"	"	19-Sep-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	**0.0028**	J	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0071**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	17-Sep-18	18-Sep-18	ABW	1812530	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	07-Sep-18 00:00	08-Sep-18
SC50148-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Sep-18	20-Sep-18	MP	1812696	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**1.82**		µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**1.12**		µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**0.60**	J	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	**0.50**	J	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	07-Sep-18 00:00	08-Sep-18
SC50148-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	**1.56**		µg/l	1.00	0.30	1	SW846 8260C	19-Sep-18	20-Sep-18	MP	1812696	X
99-87-6	4-Isopropyltoluene	**0.81**	J	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**2.04**		µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**0.68**	J	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*92*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
824-90-8	1-Phenyl-1-Butene	**13**	J N	µg/l			1	SW846 8260C TICs	"	"	MP	"	
95-93-2	Benzene, 1,2,4,5-tetramethyl-	**6.6**	J N	µg/l			1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	07-Sep-18 00:00	08-Sep-18
SC50148-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS													
141-93-5	Benzene, 1,3-diethyl-	8.2	J N	µg/l			1	SW846 8260C TICs	19-Sep-18	20-Sep-18	MP	1812696	
79-29-8	Butane, 2,3-dimethyl-	9.9	J N	µg/l			1	"	"	"	"	"	
	Cyclohexane, 1,1-dimethyl-	7.8	J N	µg/l			1	"	"	"	"	"	
000638-04-0	Cyclohexane, 1,3-dimethyl-,...	11	J N	µg/l			1	"	"	"	"	"	
001638-26-2	Cyclopentane, 1,1-dimethyl-	7.3	J N	µg/l			1	"	"	"	"	"	
1192-18-3	Cyclopentane, 1,2-dimethyl-	16	J N	µg/l			1	"	"	"	"	"	
473-91-6	Cyclopentene, 1,2,3-trimethyl-	16	J N	µg/l			1	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.72	U	µg/l	4.72	1.03	1	SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	X
208-96-8	Acenaphthylene	< 4.72	U	µg/l	4.72	1.08	1	"	"	"	"	"	X
62-53-3	Aniline	< 4.72	U	µg/l	4.72	0.466	1	"	"	"	"	"	X
120-12-7	Anthracene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4.72	U	µg/l	4.72	0.912	1	"	"	"	"	"	
92-87-5	Benzidine	< 9.43	U	µg/l	9.43	4.31	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72	U	µg/l	4.72	0.820	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72	U	µg/l	4.72	0.677	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72	U	µg/l	4.72	0.631	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72	U	µg/l	4.72	0.660	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72	U	µg/l	4.72	0.926	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4.72	U	µg/l	4.72	0.991	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4.72	U	µg/l	4.72	0.825	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	2.67	J	µg/l	4.72	0.683	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.884	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4.72	U	µg/l	4.72	0.441	1	"	"	"	"	"	X
86-74-8	Carbazole	< 4.72	U	µg/l	4.72	1.47	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4.72	U	µg/l	4.72	0.786	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4.72	U	µg/l	4.72	1.27	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4.72	U	µg/l	4.72	1.05	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4.72	U	µg/l	4.72	0.470	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72	U	µg/l	4.72	0.883	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72	U	µg/l	4.72	0.640	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4.72	U	µg/l	4.72	1.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.60	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	07-Sep-18 00:00	08-Sep-18
SC50148-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
541-73-1	1,3-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.49	1	SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	X
106-46-7	1,4-Dichlorobenzene	< 4.72	U	µg/l	4.72	1.42	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 4.72	U	µg/l	4.72	0.799	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4.72	U	µg/l	4.72	0.887	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4.72	U	µg/l	4.72	1.71	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4.72	U	µg/l	4.72	1.64	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4.72	U	µg/l	4.72	0.586	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4.72	U	µg/l	4.72	1.02	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4.72	U	µg/l	4.72	1.14	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.12	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4.72	U	µg/l	4.72	1.19	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.72	U	µg/l	4.72	0.962	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72	U	µg/l	4.72	0.918	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4.72	U	µg/l	4.72	1.26	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4.72	U	µg/l	4.72	1.43	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4.72	U	µg/l	4.72	1.58	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72	U	µg/l	4.72	0.548	1	"	"	"	"	"	X
78-59-1	Isophorone	< 4.72	U	µg/l	4.72	0.771	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 4.72	U	µg/l	4.72	1.56	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4.72	U	µg/l	4.72	1.00	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 9.43	U	µg/l	9.43	1.07	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72	U	µg/l	4.72	1.28	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4.72	U	µg/l	4.72	0.474	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4.72	U	µg/l	4.72	0.600	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4.72	U	µg/l	4.72	0.593	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4.72	U	µg/l	4.72	1.22	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4.72	U	µg/l	4.72	0.676	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 18.9	U	µg/l	18.9	0.735	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4.72	U	µg/l	4.72	0.565	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4.72	U	µg/l	4.72	0.972	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4.72	U	µg/l	4.72	0.953	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18.9	U	µg/l	18.9	0.733	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72	U	µg/l	4.72	1.10	1	"	"	"	"	"	X
108-95-2	Phenol	< 4.72	U	µg/l	4.72	1.18	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72	U	µg/l	4.72	0.932	1	"	"	"	"	"	X
110-86-1	Pyridine	< 4.72	U	µg/l	4.72	0.384	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.72	U	µg/l	4.72	1.48	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.72	U	µg/l	4.72	1.11	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.72	U	µg/l	4.72	0.737	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4.72	U	µg/l	4.72	0.659	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4.72	U	µg/l	4.72	0.758	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	07-Sep-18 00:00	08-Sep-18
SC50148-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4.72	U	µg/l	4.72	1.04	1	SW846 8270D	13-Sep-18	20-Sep-18	MSL	1812441	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*44*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*34*			*15-110 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*50*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*22*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*75*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*47*			*15-110 %*			"	"	"	"	"	
Tentatively Identified Compounds													
141-93-5	Benzene, 1,3-diethyl-	**4.6**	J N	µg/l			1	SW846 8270D TICS	"	"	MSL	"	
330207-53-9	E-14-Hexadecenal	**5.1**	J N	µg/l			1	"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	10-Sep-18		KT	1812341	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0006	1	SW846 6010C	17-Sep-18	19-Sep-18	SC/ED	1812528	X
7429-90-5	Aluminum	**0.742**		mg/l	0.0250	0.0103	1	"	"	"	"	"	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	**0.544**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-41-7	Beryllium	< 0.0020	U	mg/l	0.0020	0.0003	1	"	"	"	"	"	X
7440-70-2	Calcium	**187**		mg/l	0.100	0.0071	1	"	"	22-Sep-18	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0004	1	"	"	19-Sep-18	"	"	X
7440-48-4	Cobalt	**0.0008**	J	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0020**	J	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0028**	J	mg/l	0.0050	0.0023	1	"	"	25-Sep-18	"	"	X
7439-89-6	Iron	**5.52**	R06	mg/l	1.00	0.0045	1	"	"	"	"	"	X
7440-09-7	Potassium	**9.78**		mg/l	0.500	0.0600	1	"	"	19-Sep-18	"	"	X
7439-95-4	Magnesium	**26.4**	R06	mg/l	5.00	0.0044	1	"	"	22-Sep-18	"	"	X
7439-96-5	Manganese	**0.302**		mg/l	0.0040	0.0019	1	"	"	19-Sep-18	"	"	X
7440-23-5	Sodium	**581**	GS1, D	mg/l	3.75	0.196	5	"	"	22-Sep-18	"	"	X
7440-02-0	Nickel	**0.0014**	J	mg/l	0.0050	0.0009	1	"	"	19-Sep-18	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0062	1	"	"	"	"	"	X
7440-36-0	Antimony	< 0.0060	U	mg/l	0.0060	0.0016	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0042	1	"	"	"	"	"	X
7440-28-0	Thallium	< 0.0050	U	mg/l	0.0050	0.0021	1	"	"	"	"	"	X
7440-62-2	Vanadium	**0.0022**	J	mg/l	0.0050	0.0011	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0077**	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	17-Sep-18	18-Sep-18	ABW	1812530	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	18-051	Aqueous	07-Sep-18 00:00	08-Sep-18
SC50148-06				

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260
Prepared by method SW846 5030 Water MS

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	19-Sep-18	20-Sep-18	MP	1812696	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	**0.70**	J	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC50148-06	18-051	Aqueous	07-Sep-18 00:00	08-Sep-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	19-Sep-18	20-Sep-18	MP	1812696	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*97*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS													
	Tentatively Identified Compounds	None found		µg/l			1	SW846 8260C TICs	"	"	MP	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
Blank (1812693-BLK1)					Prepared & Analyzed: 19-Sep-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 2.00	U	µg/l	2.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
Blank (1812693-BLK1)					Prepared & Analyzed: 19-Sep-18					
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	*44.9*		µg/l		*50.0*		*90*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*49.9*		µg/l		*50.0*		*100*	*70-130*		
LCS (1812693-BS1)					Prepared & Analyzed: 19-Sep-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**22.9**		µg/l		20.0		114	70-130		
Acetone	**27.8**		µg/l		20.0		139	70-130		
Acrylonitrile	**22.4**		µg/l		20.0		112	70-130		
Benzene	**24.0**		µg/l		20.0		120	70-130		
Bromobenzene	**20.9**		µg/l		20.0		104	70-130		
Bromochloromethane	**21.5**		µg/l		20.0		107	70-130		
Bromodichloromethane	**23.8**		µg/l		20.0		119	70-130		
Bromoform	**19.4**		µg/l		20.0		97	70-130		
Bromomethane	**37.3**	QC2	µg/l		20.0		186	70-130		
2-Butanone (MEK)	**16.0**		µg/l		20.0		80	70-130		
n-Butylbenzene	**25.1**		µg/l		20.0		126	70-130		
sec-Butylbenzene	**24.7**		µg/l		20.0		123	70-130		
tert-Butylbenzene	**23.0**		µg/l		20.0		115	70-130		
Carbon disulfide	**24.4**		µg/l		20.0		122	70-130		
Carbon tetrachloride	**19.0**		µg/l		20.0		95	70-130		
Chlorobenzene	**22.1**		µg/l		20.0		110	70-130		
Chloroethane	**27.2**	QC2	µg/l		20.0		136	70-130		
Chloroform	**20.0**		µg/l		20.0		100	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
LCS (1812693-BS1)					Prepared & Analyzed: 19-Sep-18					
Chloromethane	**19.8**		µg/l		20.0		99	70-130		
2-Chlorotoluene	**22.1**		µg/l		20.0		111	70-130		
4-Chlorotoluene	**23.6**		µg/l		20.0		118	70-130		
1,2-Dibromo-3-chloropropane	**21.5**		µg/l		20.0		107	70-130		
Dibromochloromethane	**20.9**		µg/l		20.0		105	70-130		
1,2-Dibromoethane (EDB)	**22.3**		µg/l		20.0		111	70-130		
Dibromomethane	**22.5**		µg/l		20.0		113	70-130		
1,2-Dichlorobenzene	**23.1**		µg/l		20.0		115	70-130		
1,3-Dichlorobenzene	**22.3**		µg/l		20.0		112	70-130		
1,4-Dichlorobenzene	**22.4**		µg/l		20.0		112	70-130		
Dichlorodifluoromethane (Freon12)	**23.8**		µg/l		20.0		119	70-130		
1,1-Dichloroethane	**23.6**		µg/l		20.0		118	70-130		
1,2-Dichloroethane	**20.8**		µg/l		20.0		104	70-130		
1,1-Dichloroethene	**29.7**	QM9	µg/l		20.0		149	70-130		
cis-1,2-Dichloroethene	**22.7**		µg/l		20.0		113	70-130		
trans-1,2-Dichloroethene	**22.0**		µg/l		20.0		110	70-130		
1,2-Dichloropropane	**23.8**		µg/l		20.0		119	70-130		
1,3-Dichloropropane	**22.9**		µg/l		20.0		115	70-130		
2,2-Dichloropropane	**22.9**		µg/l		20.0		114	70-130		
1,1-Dichloropropene	**23.2**		µg/l		20.0		116	70-130		
cis-1,3-Dichloropropene	**21.0**		µg/l		20.0		105	70-130		
trans-1,3-Dichloropropene	**21.4**		µg/l		20.0		107	70-130		
Ethylbenzene	**23.0**		µg/l		20.0		115	70-130		
Hexachlorobutadiene	**23.7**		µg/l		20.0		119	70-130		
2-Hexanone (MBK)	**20.4**		µg/l		20.0		102	70-130		
Isopropylbenzene	**23.0**		µg/l		20.0		115	70-130		
4-Isopropyltoluene	**22.8**		µg/l		20.0		114	70-130		
Methyl tert-butyl ether	**20.9**		µg/l		20.0		104	70-130		
4-Methyl-2-pentanone (MIBK)	**22.3**		µg/l		20.0		111	70-130		
Methylene chloride	**22.0**		µg/l		20.0		110	70-130		
Naphthalene	**19.4**		µg/l		20.0		97	70-130		
n-Propylbenzene	**24.3**		µg/l		20.0		122	70-130		
Styrene	**24.3**		µg/l		20.0		122	70-130		
1,1,1,2-Tetrachloroethane	**21.8**		µg/l		20.0		109	70-130		
1,1,2,2-Tetrachloroethane	**24.9**		µg/l		20.0		124	70-130		
Tetrachloroethene	**20.8**		µg/l		20.0		104	70-130		
Toluene	**22.6**		µg/l		20.0		113	70-130		
1,2,3-Trichlorobenzene	**21.2**		µg/l		20.0		106	70-130		
1,2,4-Trichlorobenzene	**20.7**		µg/l		20.0		103	70-130		
1,3,5-Trichlorobenzene	**21.5**		µg/l		20.0		107	70-130		
1,1,1-Trichloroethane	**22.2**		µg/l		20.0		111	70-130		
1,1,2-Trichloroethane	**23.2**		µg/l		20.0		116	70-130		
Trichloroethene	**21.9**		µg/l		20.0		110	70-130		
Trichlorofluoromethane (Freon 11)	**25.0**		µg/l		20.0		125	70-130		
1,2,3-Trichloropropane	**22.7**		µg/l		20.0		113	70-130		
1,2,4-Trimethylbenzene	**23.1**		µg/l		20.0		115	70-130		
1,3,5-Trimethylbenzene	**22.3**		µg/l		20.0		111	70-130		
Vinyl chloride	**38.7**	QC1	µg/l		20.0		194	70-130		
m,p-Xylene	**23.6**		µg/l		20.0		118	70-130		
o-Xylene	**23.3**		µg/l		20.0		117	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
LCS (1812693-BS1)					Prepared & Analyzed: 19-Sep-18					
Tetrahydrofuran	**22.4**		µg/l		20.0		112	70-130		
Ethyl ether	**24.2**		µg/l		20.0		121	70-130		
Tert-amyl methyl ether	**20.9**		µg/l		20.0		104	70-130		
Ethyl tert-butyl ether	**21.7**		µg/l		20.0		108	70-130		
Di-isopropyl ether	**23.3**		µg/l		20.0		116	70-130		
Tert-Butanol / butyl alcohol	**199**		µg/l		200		99	70-130		
1,4-Dioxane	**164**		µg/l		200		82	70-130		
trans-1,4-Dichloro-2-butene	**19.7**		µg/l		20.0		99	70-130		
Ethanol	**458**		µg/l		400		114	70-130		
Surrogate: 4-Bromofluorobenzene	*47.4*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.0*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*49.2*		µg/l		*50.0*		*98*	*70-130*		
LCS Dup (1812693-BSD1)					Prepared & Analyzed: 19-Sep-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.3**		µg/l		20.0		116	70-130	2	20
Acetone	**25.5**		µg/l		20.0		127	70-130	9	20
Acrylonitrile	**21.0**		µg/l		20.0		105	70-130	7	20
Benzene	**23.7**		µg/l		20.0		118	70-130	1	20
Bromobenzene	**20.4**		µg/l		20.0		102	70-130	3	20
Bromochloromethane	**19.9**		µg/l		20.0		100	70-130	8	20
Bromodichloromethane	**22.9**		µg/l		20.0		114	70-130	4	20
Bromoform	**19.2**		µg/l		20.0		96	70-130	0.9	20
Bromomethane	**34.1**	QC2	µg/l		20.0		171	70-130	9	20
2-Butanone (MEK)	**18.3**		µg/l		20.0		92	70-130	13	20
n-Butylbenzene	**24.6**		µg/l		20.0		123	70-130	2	20
sec-Butylbenzene	**24.9**		µg/l		20.0		125	70-130	1	20
tert-Butylbenzene	**23.2**		µg/l		20.0		116	70-130	0.9	20
Carbon disulfide	**24.9**		µg/l		20.0		124	70-130	2	20
Carbon tetrachloride	**19.8**		µg/l		20.0		99	70-130	4	20
Chlorobenzene	**21.4**		µg/l		20.0		107	70-130	3	20
Chloroethane	**27.6**	QC2	µg/l		20.0		138	70-130	2	20
Chloroform	**19.8**		µg/l		20.0		99	70-130	0.7	20
Chloromethane	**21.4**		µg/l		20.0		107	70-130	8	20
2-Chlorotoluene	**22.4**		µg/l		20.0		112	70-130	1	20
4-Chlorotoluene	**23.1**		µg/l		20.0		115	70-130	2	20
1,2-Dibromo-3-chloropropane	**19.8**		µg/l		20.0		99	70-130	8	20
Dibromochloromethane	**20.0**		µg/l		20.0		100	70-130	5	20
1,2-Dibromoethane (EDB)	**20.8**		µg/l		20.0		104	70-130	7	20
Dibromomethane	**21.9**		µg/l		20.0		110	70-130	3	20
1,2-Dichlorobenzene	**22.5**		µg/l		20.0		112	70-130	3	20
1,3-Dichlorobenzene	**21.6**		µg/l		20.0		108	70-130	3	20
1,4-Dichlorobenzene	**21.8**		µg/l		20.0		109	70-130	2	20
Dichlorodifluoromethane (Freon12)	**23.7**		µg/l		20.0		118	70-130	0.4	20
1,1-Dichloroethane	**22.7**		µg/l		20.0		114	70-130	4	20
1,2-Dichloroethane	**19.4**		µg/l		20.0		97	70-130	7	20
1,1-Dichloroethene	**22.0**	QR2	µg/l		20.0		110	70-130	30	20
cis-1,2-Dichloroethene	**22.0**		µg/l		20.0		110	70-130	3	20
trans-1,2-Dichloroethene	**22.3**		µg/l		20.0		112	70-130	2	20
1,2-Dichloropropane	**23.1**		µg/l		20.0		115	70-130	3	20
1,3-Dichloropropane	**22.3**		µg/l		20.0		111	70-130	3	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
LCS Dup (1812693-BSD1)					Prepared & Analyzed: 19-Sep-18					
2,2-Dichloropropane	**23.5**		µg/l		20.0		117	70-130	3	20
1,1-Dichloropropene	**23.0**		µg/l		20.0		115	70-130	1	20
cis-1,3-Dichloropropene	**20.2**		µg/l		20.0		101	70-130	4	20
trans-1,3-Dichloropropene	**20.2**		µg/l		20.0		101	70-130	6	20
Ethylbenzene	**22.8**		µg/l		20.0		114	70-130	0.7	20
Hexachlorobutadiene	**23.6**		µg/l		20.0		118	70-130	0.5	20
2-Hexanone (MBK)	**18.3**		µg/l		20.0		92	70-130	11	20
Isopropylbenzene	**23.3**		µg/l		20.0		117	70-130	1	20
4-Isopropyltoluene	**22.6**		µg/l		20.0		113	70-130	0.7	20
Methyl tert-butyl ether	**20.1**		µg/l		20.0		100	70-130	4	20
4-Methyl-2-pentanone (MIBK)	**21.0**		µg/l		20.0		105	70-130	6	20
Methylene chloride	**20.8**		µg/l		20.0		104	70-130	6	20
Naphthalene	**18.9**		µg/l		20.0		94	70-130	3	20
n-Propylbenzene	**24.7**		µg/l		20.0		124	70-130	2	20
Styrene	**23.9**		µg/l		20.0		120	70-130	2	20
1,1,1,2-Tetrachloroethane	**22.0**		µg/l		20.0		110	70-130	0.9	20
1,1,2,2-Tetrachloroethane	**24.2**		µg/l		20.0		121	70-130	3	20
Tetrachloroethene	**20.0**		µg/l		20.0		100	70-130	3	20
Toluene	**22.1**		µg/l		20.0		110	70-130	2	20
1,2,3-Trichlorobenzene	**19.7**		µg/l		20.0		99	70-130	7	20
1,2,4-Trichlorobenzene	**20.6**		µg/l		20.0		103	70-130	0.3	20
1,3,5-Trichlorobenzene	**22.0**		µg/l		20.0		110	70-130	2	20
1,1,1-Trichloroethane	**22.3**		µg/l		20.0		111	70-130	0.2	20
1,1,2-Trichloroethane	**22.2**		µg/l		20.0		111	70-130	4	20
Trichloroethene	**21.4**		µg/l		20.0		107	70-130	3	20
Trichlorofluoromethane (Freon 11)	**24.4**		µg/l		20.0		122	70-130	3	20
1,2,3-Trichloropropane	**22.2**		µg/l		20.0		111	70-130	2	20
1,2,4-Trimethylbenzene	**22.7**		µg/l		20.0		113	70-130	2	20
1,3,5-Trimethylbenzene	**22.5**		µg/l		20.0		113	70-130	1	20
Vinyl chloride	**35.4**	QC1	µg/l		20.0		177	70-130	9	20
m,p-Xylene	**22.9**		µg/l		20.0		115	70-130	3	20
o-Xylene	**23.0**		µg/l		20.0		115	70-130	2	20
Tetrahydrofuran	**20.0**		µg/l		20.0		100	70-130	11	20
Ethyl ether	**22.4**		µg/l		20.0		112	70-130	8	20
Tert-amyl methyl ether	**19.6**		µg/l		20.0		98	70-130	6	20
Ethyl tert-butyl ether	**20.1**		µg/l		20.0		101	70-130	8	20
Di-isopropyl ether	**22.5**		µg/l		20.0		113	70-130	3	20
Tert-Butanol / butyl alcohol	**179**		µg/l		200		89	70-130	11	20
1,4-Dioxane	**185**		µg/l		200		92	70-130	12	20
trans-1,4-Dichloro-2-butene	**19.4**		µg/l		20.0		97	70-130	1	20
Ethanol	**479**		µg/l		400		120	70-130	5	20
Surrogate: 4-Bromofluorobenzene	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*48.3*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.0*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Matrix Spike (1812693-MS1)			**Source: SC50148-03**		Prepared & Analyzed: 19-Sep-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.0**	D	µg/l		20.0	0.00	95	70-130		
Acetone	**24.9**	D	µg/l		20.0	0.00	124	70-130		
Acrylonitrile	**18.8**	D	µg/l		20.0	0.00	94	70-130		
Benzene	**25.3**	D	µg/l		20.0	3.42	109	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
Matrix Spike (1812693-MS1)			**Source: SC50148-03**		Prepared & Analyzed: 19-Sep-18					
Bromobenzene	**19.1**	D	µg/l		20.0	0.00	96	70-130		
Bromochloromethane	**18.8**	D	µg/l		20.0	0.00	94	70-130		
Bromodichloromethane	**21.7**	D	µg/l		20.0	0.00	108	70-130		
Bromoform	**17.6**	D	µg/l		20.0	0.00	88	70-130		
Bromomethane	**16.4**	D	µg/l		20.0	0.00	82	70-130		
2-Butanone (MEK)	**19.6**	D	µg/l		20.0	0.00	98	70-130		
n-Butylbenzene	**27.3**	D	µg/l		20.0	2.46	124	70-130		
sec-Butylbenzene	**24.2**	D	µg/l		20.0	0.81	117	70-130		
tert-Butylbenzene	**21.8**	D	µg/l		20.0	0.00	109	70-130		
Carbon disulfide	**17.7**	D	µg/l		20.0	0.00	88	70-130		
Carbon tetrachloride	**17.8**	D	µg/l		20.0	0.00	89	70-130		
Chlorobenzene	**20.0**	D	µg/l		20.0	0.00	100	70-130		
Chloroethane	**20.8**	D	µg/l		20.0	0.00	104	70-130		
Chloroform	**18.2**	D	µg/l		20.0	0.00	91	70-130		
Chloromethane	**14.8**	D	µg/l		20.0	0.00	74	70-130		
2-Chlorotoluene	**20.6**	D	µg/l		20.0	0.00	103	70-130		
4-Chlorotoluene	**26.2**	QM7, D	µg/l		20.0	0.00	131	70-130		
1,2-Dibromo-3-chloropropane	**20.0**	D	µg/l		20.0	0.00	100	70-130		
Dibromochloromethane	**18.6**	D	µg/l		20.0	0.00	93	70-130		
1,2-Dibromoethane (EDB)	**20.9**	D	µg/l		20.0	0.00	104	70-130		
Dibromomethane	**20.8**	D	µg/l		20.0	0.00	104	70-130		
1,2-Dichlorobenzene	**21.5**	D	µg/l		20.0	0.00	108	70-130		
1,3-Dichlorobenzene	**20.0**	D	µg/l		20.0	0.00	100	70-130		
1,4-Dichlorobenzene	**20.7**	D	µg/l		20.0	0.00	104	70-130		
Dichlorodifluoromethane (Freon12)	**5.93**	QM7, D	µg/l		20.0	0.00	30	70-130		
1,1-Dichloroethane	**21.0**	D	µg/l		20.0	0.00	105	70-130		
1,2-Dichloroethane	**18.1**	D	µg/l		20.0	0.00	90	70-130		
1,1-Dichloroethene	**26.0**	D	µg/l		20.0	0.00	130	70-130		
cis-1,2-Dichloroethene	**20.5**	D	µg/l		20.0	0.00	103	70-130		
trans-1,2-Dichloroethene	**20.0**	D	µg/l		20.0	0.00	100	70-130		
1,2-Dichloropropane	**22.0**	D	µg/l		20.0	0.00	110	70-130		
1,3-Dichloropropane	**20.9**	D	µg/l		20.0	0.00	104	70-130		
2,2-Dichloropropane	**20.3**	D	µg/l		20.0	0.00	101	70-130		
1,1-Dichloropropene	**20.6**	D	µg/l		20.0	0.00	103	70-130		
cis-1,3-Dichloropropene	**19.7**	D	µg/l		20.0	0.00	98	70-130		
trans-1,3-Dichloropropene	**19.2**	D	µg/l		20.0	0.00	96	70-130		
Ethylbenzene	**59.8**	D	µg/l		20.0	35.2	123	70-130		
Hexachlorobutadiene	**23.1**	D	µg/l		20.0	0.00	116	70-130		
2-Hexanone (MBK)	**18.3**	D	µg/l		20.0	0.00	91	70-130		
Isopropylbenzene	**26.0**	D	µg/l		20.0	4.12	109	70-130		
4-Isopropyltoluene	**22.2**	D	µg/l		20.0	1.03	106	70-130		
Methyl tert-butyl ether	**18.6**	D	µg/l		20.0	0.00	93	70-130		
4-Methyl-2-pentanone (MIBK)	**20.6**	D	µg/l		20.0	0.00	103	70-130		
Methylene chloride	**19.7**	D	µg/l		20.0	0.00	98	70-130		
Naphthalene	**43.9**	QM7, D	µg/l		20.0	16.4	138	70-130		
n-Propylbenzene	**32.0**	D	µg/l		20.0	7.49	122	70-130		
Styrene	**22.6**	D	µg/l		20.0	0.00	113	70-130		
1,1,1,2-Tetrachloroethane	**20.3**	D	µg/l		20.0	0.00	101	70-130		
1,1,2,2-Tetrachloroethane	**22.0**	D	µg/l		20.0	0.00	110	70-130		
Tetrachloroethene	**19.1**	D	µg/l		20.0	0.00	95	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
Matrix Spike (1812693-MS1)			**Source: SC50148-03**			Prepared & Analyzed: 19-Sep-18				
Toluene	**25.8**	D	µg/l		20.0	4.94	104	70-130		
1,2,3-Trichlorobenzene	**31.4**	QM7, D	µg/l		20.0	0.00	157	70-130		
1,2,4-Trichlorobenzene	**30.7**	QM7, D	µg/l		20.0	0.00	153	70-130		
1,3,5-Trichlorobenzene	**29.3**	QM7, D	µg/l		20.0	0.00	146	70-130		
1,1,1-Trichloroethane	**19.4**	D	µg/l		20.0	0.00	97	70-130		
1,1,2-Trichloroethane	**21.3**	D	µg/l		20.0	0.00	107	70-130		
Trichloroethene	**20.4**	D	µg/l		20.0	0.00	102	70-130		
Trichlorofluoromethane (Freon 11)	**19.8**	D	µg/l		20.0	0.00	99	70-130		
1,2,3-Trichloropropane	**20.0**	D	µg/l		20.0	0.00	100	70-130		
1,2,4-Trimethylbenzene	**121**	QM7, D, E	µg/l		20.0	92.2	145	70-130		
1,3,5-Trimethylbenzene	**42.2**	D	µg/l		20.0	19.5	114	70-130		
Vinyl chloride	**16.9**	D	µg/l		20.0	0.00	84	70-130		
m,p-Xylene	**89.2**	QM7, D	µg/l		20.0	62.9	132	70-130		
o-Xylene	**30.6**	D	µg/l		20.0	8.46	111	70-130		
Tetrahydrofuran	**17.2**	D	µg/l		20.0	0.00	86	70-130		
Ethyl ether	**21.3**	D	µg/l		20.0	0.00	106	70-130		
Tert-amyl methyl ether	**18.8**	D	µg/l		20.0	0.00	94	70-130		
Ethyl tert-butyl ether	**19.0**	D	µg/l		20.0	0.00	95	70-130		
Di-isopropyl ether	**20.8**	D	µg/l		20.0	0.00	104	70-130		
Tert-Butanol / butyl alcohol	**166**	D	µg/l		200	0.00	83	70-130		
1,4-Dioxane	**156**	D	µg/l		200	0.00	78	70-130		
trans-1,4-Dichloro-2-butene	**15.2**	D	µg/l		20.0	0.00	76	70-130		
Ethanol	**426**	D	µg/l		400	0.00	107	70-130		
Surrogate: 4-Bromofluorobenzene	*47.1*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*49.3*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.0*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*47.9*		µg/l		*50.0*		*96*	*70-130*		
Matrix Spike Dup (1812693-MSD1)			**Source: SC50148-03**			Prepared & Analyzed: 19-Sep-18				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.6**	D	µg/l		20.0	0.00	98	70-130	3	20
Acetone	**24.7**	D	µg/l		20.0	0.00	124	70-130		20
Acrylonitrile	**18.8**	D	µg/l		20.0	0.00	94	70-130	0.05	20
Benzene	**25.1**	D	µg/l		20.0	3.42	108	70-130	0.7	20
Bromobenzene	**18.8**	D	µg/l		20.0	0.00	94	70-130	2	20
Bromochloromethane	**19.7**	D	µg/l		20.0	0.00	99	70-130	5	20
Bromodichloromethane	**21.8**	D	µg/l		20.0	0.00	109	70-130	0.6	20
Bromoform	**17.0**	D	µg/l		20.0	0.00	85	70-130	3	20
Bromomethane	**16.0**	D	µg/l		20.0	0.00	80	70-130	2	20
2-Butanone (MEK)	**19.4**	D	µg/l		20.0	0.00	97	70-130	1	20
n-Butylbenzene	**26.4**	D	µg/l		20.0	2.46	120	70-130	3	20
sec-Butylbenzene	**23.9**	D	µg/l		20.0	0.81	116	70-130	1	20
tert-Butylbenzene	**21.7**	D	µg/l		20.0	0.00	108	70-130	0.4	20
Carbon disulfide	**17.8**	D	µg/l		20.0	0.00	89	70-130	0.7	20
Carbon tetrachloride	**18.2**	D	µg/l		20.0	0.00	91	70-130	2	20
Chlorobenzene	**19.9**	D	µg/l		20.0	0.00	99	70-130	0.7	20
Chloroethane	**20.4**	D	µg/l		20.0	0.00	102	70-130	2	20
Chloroform	**18.2**	D	µg/l		20.0	0.00	91	70-130	0.05	20
Chloromethane	**16.6**	D	µg/l		20.0	0.00	83	70-130	12	20
2-Chlorotoluene	**20.1**	D	µg/l		20.0	0.00	100	70-130	3	20
4-Chlorotoluene	**25.7**	D	µg/l		20.0	0.00	129	70-130	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
Matrix Spike Dup (1812693-MSD1)			**Source: SC50148-03**		Prepared & Analyzed: 19-Sep-18					
1,2-Dibromo-3-chloropropane	**19.2**	D	µg/l		20.0	0.00	96	70-130	4	20
Dibromochloromethane	**18.4**	D	µg/l		20.0	0.00	92	70-130	0.9	20
1,2-Dibromoethane (EDB)	**20.1**	D	µg/l		20.0	0.00	101	70-130	4	20
Dibromomethane	**19.8**	D	µg/l		20.0	0.00	99	70-130	5	20
1,2-Dichlorobenzene	**21.2**	D	µg/l		20.0	0.00	106	70-130	1	20
1,3-Dichlorobenzene	**20.2**	D	µg/l		20.0	0.00	101	70-130	0.8	20
1,4-Dichlorobenzene	**20.1**	D	µg/l		20.0	0.00	100	70-130	3	20
Dichlorodifluoromethane (Freon12)	**6.06**	QM7, D	µg/l		20.0	0.00	30	70-130	2	20
1,1-Dichloroethane	**20.2**	D	µg/l		20.0	0.00	101	70-130	4	20
1,2-Dichloroethane	**18.4**	D	µg/l		20.0	0.00	92	70-130	2	20
1,1-Dichloroethene	**26.0**	D	µg/l		20.0	0.00	130	70-130	0.2	20
cis-1,2-Dichloroethene	**20.0**	D	µg/l		20.0	0.00	100	70-130	3	20
trans-1,2-Dichloroethene	**20.0**	D	µg/l		20.0	0.00	100	70-130	0.2	20
1,2-Dichloropropane	**21.3**	D	µg/l		20.0	0.00	107	70-130	3	20
1,3-Dichloropropane	**20.2**	D	µg/l		20.0	0.00	101	70-130	3	20
2,2-Dichloropropane	**19.9**	D	µg/l		20.0	0.00	100	70-130	2	20
1,1-Dichloropropene	**21.0**	D	µg/l		20.0	0.00	105	70-130	2	20
cis-1,3-Dichloropropene	**19.6**	D	µg/l		20.0	0.00	98	70-130	0.7	20
trans-1,3-Dichloropropene	**19.3**	D	µg/l		20.0	0.00	96	70-130	0.4	20
Ethylbenzene	**58.8**	D	µg/l		20.0	35.2	118	70-130	2	20
Hexachlorobutadiene	**23.5**	D	µg/l		20.0	0.00	118	70-130	2	20
2-Hexanone (MBK)	**18.6**	D	µg/l		20.0	0.00	93	70-130	1	20
Isopropylbenzene	**26.0**	D	µg/l		20.0	4.12	109	70-130	0.2	20
4-Isopropyltoluene	**21.9**	D	µg/l		20.0	1.03	104	70-130	2	20
Methyl tert-butyl ether	**18.6**	D	µg/l		20.0	0.00	93	70-130	0.4	20
4-Methyl-2-pentanone (MIBK)	**20.2**	D	µg/l		20.0	0.00	101	70-130	2	20
Methylene chloride	**19.4**	D	µg/l		20.0	0.00	97	70-130	1	20
Naphthalene	**43.6**	QM7, D	µg/l		20.0	16.4	136	70-130	0.8	20
n-Propylbenzene	**31.6**	D	µg/l		20.0	7.49	121	70-130	1	20
Styrene	**22.1**	D	µg/l		20.0	0.00	111	70-130	2	20
1,1,1,2-Tetrachloroethane	**20.3**	D	µg/l		20.0	0.00	102	70-130	0.3	20
1,1,2,2-Tetrachloroethane	**21.6**	D	µg/l		20.0	0.00	108	70-130	2	20
Tetrachloroethene	**19.5**	D	µg/l		20.0	0.00	98	70-130	2	20
Toluene	**26.9**	D	µg/l		20.0	4.94	110	70-130	4	20
1,2,3-Trichlorobenzene	**30.8**	QM7, D	µg/l		20.0	0.00	154	70-130	2	20
1,2,4-Trichlorobenzene	**31.5**	QM7, D	µg/l		20.0	0.00	158	70-130	3	20
1,3,5-Trichlorobenzene	**28.6**	QM7, D	µg/l		20.0	0.00	143	70-130	2	20
1,1,1-Trichloroethane	**19.6**	D	µg/l		20.0	0.00	98	70-130	1	20
1,1,2-Trichloroethane	**20.0**	D	µg/l		20.0	0.00	100	70-130	6	20
Trichloroethene	**19.9**	D	µg/l		20.0	0.00	99	70-130	2	20
Trichlorofluoromethane (Freon 11)	**20.3**	D	µg/l		20.0	0.00	102	70-130	3	20
1,2,3-Trichloropropane	**19.6**	D	µg/l		20.0	0.00	98	70-130	3	20
1,2,4-Trimethylbenzene	**120**	QM7, D, E	µg/l		20.0	92.2	139	70-130	1	20
1,3,5-Trimethylbenzene	**41.7**	D	µg/l		20.0	19.5	111	70-130	1	20
Vinyl chloride	**17.0**	D	µg/l		20.0	0.00	85	70-130	0.5	20
m,p-Xylene	**88.9**	D	µg/l		20.0	62.9	130	70-130	0.3	20
o-Xylene	**30.8**	D	µg/l		20.0	8.46	112	70-130	0.5	20
Tetrahydrofuran	**17.7**	D	µg/l		20.0	0.00	89	70-130	3	20
Ethyl ether	**20.6**	D	µg/l		20.0	0.00	103	70-130	3	20
Tert-amyl methyl ether	**18.9**	D	µg/l		20.0	0.00	95	70-130	0.8	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812693 - SW846 5030 Water MS										
Matrix Spike Dup (1812693-MSD1)			**Source: SC50148-03**		Prepared & Analyzed: 19-Sep-18					
Ethyl tert-butyl ether	**19.1**	D	µg/l		20.0	0.00	96	70-130	0.8	20
Di-isopropyl ether	**20.8**	D	µg/l		20.0	0.00	104	70-130	0.05	20
Tert-Butanol / butyl alcohol	**171**	D	µg/l		200	0.00	86	70-130	3	20
1,4-Dioxane	**177**	D	µg/l		200	0.00	89	70-130	13	20
trans-1,4-Dichloro-2-butene	**14.5**	D	µg/l		20.0	0.00	73	70-130	4	20
Ethanol	**441**	D	µg/l		400	0.00	110	70-130	3	20
Surrogate: 4-Bromofluorobenzene	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Batch 1812696 - SW846 5030 Water MS										
Blank (1812696-BLK1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812696 - SW846 5030 Water MS										
Blank (1812696-BLK1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 2.00	U	µg/l	2.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
Surrogate: 4-Bromofluorobenzene	*47.2*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*49.8*		µg/l		*50.0*		*100*	*70-130*		
LCS (1812696-BS1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**22.2**		µg/l		20.0		111	70-130		
Acetone	**24.9**		µg/l		20.0		124	70-130		
Acrylonitrile	**21.7**		µg/l		20.0		109	70-130		
Benzene	**22.7**		µg/l		20.0		113	70-130		
Bromobenzene	**19.6**		µg/l		20.0		98	70-130		
Bromochloromethane	**20.3**		µg/l		20.0		102	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812696 - SW846 5030 Water MS										
LCS (1812696-BS1)						Prepared: 19-Sep-18 Analyzed: 20-Sep-18				
Bromodichloromethane	**23.3**		µg/l		20.0		117	70-130		
Bromoform	**19.0**		µg/l		20.0		95	70-130		
Bromomethane	**25.0**		µg/l		20.0		125	70-130		
2-Butanone (MEK)	**23.8**		µg/l		20.0		119	70-130		
n-Butylbenzene	**22.9**		µg/l		20.0		115	70-130		
sec-Butylbenzene	**23.1**		µg/l		20.0		116	70-130		
tert-Butylbenzene	**21.5**		µg/l		20.0		108	70-130		
Carbon disulfide	**24.1**		µg/l		20.0		121	70-130		
Carbon tetrachloride	**19.6**		µg/l		20.0		98	70-130		
Chlorobenzene	**20.1**		µg/l		20.0		101	70-130		
Chloroethane	**26.7**	QC2	µg/l		20.0		133	70-130		
Chloroform	**18.9**		µg/l		20.0		95	70-130		
Chloromethane	**24.0**		µg/l		20.0		120	70-130		
2-Chlorotoluene	**20.8**		µg/l		20.0		104	70-130		
4-Chlorotoluene	**21.6**		µg/l		20.0		108	70-130		
1,2-Dibromo-3-chloropropane	**20.1**		µg/l		20.0		100	70-130		
Dibromochloromethane	**19.8**		µg/l		20.0		99	70-130		
1,2-Dibromoethane (EDB)	**20.8**		µg/l		20.0		104	70-130		
Dibromomethane	**21.7**		µg/l		20.0		108	70-130		
1,2-Dichlorobenzene	**20.7**		µg/l		20.0		104	70-130		
1,3-Dichlorobenzene	**20.3**		µg/l		20.0		101	70-130		
1,4-Dichlorobenzene	**20.8**		µg/l		20.0		104	70-130		
Dichlorodifluoromethane (Freon12)	**21.4**		µg/l		20.0		107	70-130		
1,1-Dichloroethane	**22.5**		µg/l		20.0		112	70-130		
1,2-Dichloroethane	**19.5**		µg/l		20.0		98	70-130		
1,1-Dichloroethene	**21.6**		µg/l		20.0		108	70-130		
cis-1,2-Dichloroethene	**21.7**		µg/l		20.0		108	70-130		
trans-1,2-Dichloroethene	**22.1**		µg/l		20.0		111	70-130		
1,2-Dichloropropane	**22.5**		µg/l		20.0		112	70-130		
1,3-Dichloropropane	**21.6**		µg/l		20.0		108	70-130		
2,2-Dichloropropane	**22.3**		µg/l		20.0		112	70-130		
1,1-Dichloropropene	**22.0**		µg/l		20.0		110	70-130		
cis-1,3-Dichloropropene	**20.6**		µg/l		20.0		103	70-130		
trans-1,3-Dichloropropene	**20.2**		µg/l		20.0		101	70-130		
Ethylbenzene	**21.4**		µg/l		20.0		107	70-130		
Hexachlorobutadiene	**22.0**		µg/l		20.0		110	70-130		
2-Hexanone (MBK)	**19.5**		µg/l		20.0		98	70-130		
Isopropylbenzene	**21.7**		µg/l		20.0		108	70-130		
4-Isopropyltoluene	**21.6**		µg/l		20.0		108	70-130		
Methyl tert-butyl ether	**19.7**		µg/l		20.0		98	70-130		
4-Methyl-2-pentanone (MIBK)	**21.8**		µg/l		20.0		109	70-130		
Methylene chloride	**20.3**		µg/l		20.0		101	70-130		
Naphthalene	**18.9**		µg/l		20.0		95	70-130		
n-Propylbenzene	**23.0**		µg/l		20.0		115	70-130		
Styrene	**22.6**		µg/l		20.0		113	70-130		
1,1,1,2-Tetrachloroethane	**20.5**		µg/l		20.0		103	70-130		
1,1,2,2-Tetrachloroethane	**22.8**		µg/l		20.0		114	70-130		
Tetrachloroethene	**19.8**		µg/l		20.0		99	70-130		
Toluene	**21.7**		µg/l		20.0		108	70-130		
1,2,3-Trichlorobenzene	**20.4**		µg/l		20.0		102	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812696 - SW846 5030 Water MS										
LCS (1812696-BS1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
1,2,4-Trichlorobenzene	**20.5**		µg/l		20.0		102	70-130		
1,3,5-Trichlorobenzene	**20.6**		µg/l		20.0		103	70-130		
1,1,1-Trichloroethane	**21.2**		µg/l		20.0		106	70-130		
1,1,2-Trichloroethane	**21.1**		µg/l		20.0		105	70-130		
Trichloroethene	**21.3**		µg/l		20.0		106	70-130		
Trichlorofluoromethane (Freon 11)	**25.1**		µg/l		20.0		126	70-130		
1,2,3-Trichloropropane	**21.6**		µg/l		20.0		108	70-130		
1,2,4-Trimethylbenzene	**21.1**		µg/l		20.0		106	70-130		
1,3,5-Trimethylbenzene	**20.7**		µg/l		20.0		104	70-130		
Vinyl chloride	**41.4**	QC1	µg/l		20.0		207	70-130		
m,p-Xylene	**22.1**		µg/l		20.0		111	70-130		
o-Xylene	**21.3**		µg/l		20.0		106	70-130		
Tetrahydrofuran	**21.2**		µg/l		20.0		106	70-130		
Ethyl ether	**23.2**		µg/l		20.0		116	70-130		
Tert-amyl methyl ether	**19.0**		µg/l		20.0		95	70-130		
Ethyl tert-butyl ether	**20.1**		µg/l		20.0		100	70-130		
Di-isopropyl ether	**22.5**		µg/l		20.0		112	70-130		
Tert-Butanol / butyl alcohol	**201**		µg/l		200		100	70-130		
1,4-Dioxane	**195**		µg/l		200		98	70-130		
trans-1,4-Dichloro-2-butene	**17.1**		µg/l		20.0		85	70-130		
Ethanol	**482**		µg/l		400		120	70-130		
Surrogate: 4-Bromofluorobenzene	*46.7*		µg/l		*50.0*		*93*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*49.7*		µg/l		*50.0*		*99*	*70-130*		
LCS Dup (1812696-BSD1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.8**		µg/l		20.0		109	70-130	2	20
Acetone	**24.8**		µg/l		20.0		124	70-130	0.4	20
Acrylonitrile	**21.8**		µg/l		20.0		109	70-130	0.1	20
Benzene	**22.1**		µg/l		20.0		111	70-130	2	20
Bromobenzene	**20.0**		µg/l		20.0		100	70-130	2	20
Bromochloromethane	**20.6**		µg/l		20.0		103	70-130	1	20
Bromodichloromethane	**22.2**		µg/l		20.0		111	70-130	5	20
Bromoform	**20.0**		µg/l		20.0		100	70-130	5	20
Bromomethane	**27.5**		µg/l		20.0		137	70-130	9	20
2-Butanone (MEK)	**25.6**		µg/l		20.0		128	70-130	7	20
n-Butylbenzene	**23.0**		µg/l		20.0		115	70-130	0.3	20
sec-Butylbenzene	**23.9**		µg/l		20.0		119	70-130	3	20
tert-Butylbenzene	**22.3**		µg/l		20.0		112	70-130	4	20
Carbon disulfide	**23.4**		µg/l		20.0		117	70-130	3	20
Carbon tetrachloride	**19.1**		µg/l		20.0		96	70-130	3	20
Chlorobenzene	**20.5**		µg/l		20.0		103	70-130	2	20
Chloroethane	**26.5**	QC2	µg/l		20.0		133	70-130	0.6	20
Chloroform	**18.8**		µg/l		20.0		94	70-130	0.5	20
Chloromethane	**24.1**		µg/l		20.0		120	70-130	0.1	20
2-Chlorotoluene	**21.4**		µg/l		20.0		107	70-130	3	20
4-Chlorotoluene	**21.7**		µg/l		20.0		108	70-130	0.3	20
1,2-Dibromo-3-chloropropane	**21.8**		µg/l		20.0		109	70-130	8	20
Dibromochloromethane	**19.5**		µg/l		20.0		97	70-130	1	20
1,2-Dibromoethane (EDB)	**21.0**		µg/l		20.0		105	70-130	1	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812696 - SW846 5030 Water MS										
LCS Dup (1812696-BSD1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
Dibromomethane	**21.2**		µg/l		20.0		106	70-130	2	20
1,2-Dichlorobenzene	**20.5**		µg/l		20.0		103	70-130	0.9	20
1,3-Dichlorobenzene	**20.9**		µg/l		20.0		104	70-130	3	20
1,4-Dichlorobenzene	**20.6**		µg/l		20.0		103	70-130	1	20
Dichlorodifluoromethane (Freon12)	**22.5**		µg/l		20.0		113	70-130	5	20
1,1-Dichloroethane	**22.5**		µg/l		20.0		112	70-130	0.04	20
1,2-Dichloroethane	**19.4**		µg/l		20.0		97	70-130	0.6	20
1,1-Dichloroethene	**29.8**	QM9	µg/l		20.0		149	70-130	32	20
cis-1,2-Dichloroethene	**21.8**		µg/l		20.0		109	70-130	0.6	20
trans-1,2-Dichloroethene	**22.0**		µg/l		20.0		110	70-130	0.5	20
1,2-Dichloropropane	**22.3**		µg/l		20.0		112	70-130	0.7	20
1,3-Dichloropropane	**22.1**		µg/l		20.0		110	70-130	2	20
2,2-Dichloropropane	**21.8**		µg/l		20.0		109	70-130	2	20
1,1-Dichloropropene	**21.7**		µg/l		20.0		109	70-130	1	20
cis-1,3-Dichloropropene	**20.6**		µg/l		20.0		103	70-130	0.2	20
trans-1,3-Dichloropropene	**20.0**		µg/l		20.0		100	70-130	1	20
Ethylbenzene	**22.1**		µg/l		20.0		110	70-130	3	20
Hexachlorobutadiene	**23.7**		µg/l		20.0		119	70-130	8	20
2-Hexanone (MBK)	**19.3**		µg/l		20.0		97	70-130	0.9	20
Isopropylbenzene	**21.9**		µg/l		20.0		110	70-130	1	20
4-Isopropyltoluene	**21.4**		µg/l		20.0		107	70-130	1	20
Methyl tert-butyl ether	**20.4**		µg/l		20.0		102	70-130	3	20
4-Methyl-2-pentanone (MIBK)	**22.2**		µg/l		20.0		111	70-130	2	20
Methylene chloride	**20.2**		µg/l		20.0		101	70-130	0.3	20
Naphthalene	**19.6**		µg/l		20.0		98	70-130	3	20
n-Propylbenzene	**23.1**		µg/l		20.0		116	70-130	0.5	20
Styrene	**23.3**		µg/l		20.0		116	70-130	3	20
1,1,1,2-Tetrachloroethane	**22.1**		µg/l		20.0		111	70-130	8	20
1,1,2,2-Tetrachloroethane	**23.9**		µg/l		20.0		120	70-130	5	20
Tetrachloroethene	**19.6**		µg/l		20.0		98	70-130	0.9	20
Toluene	**21.2**		µg/l		20.0		106	70-130	2	20
1,2,3-Trichlorobenzene	**20.8**		µg/l		20.0		104	70-130	2	20
1,2,4-Trichlorobenzene	**20.8**		µg/l		20.0		104	70-130	2	20
1,3,5-Trichlorobenzene	**21.8**		µg/l		20.0		109	70-130	6	20
1,1,1-Trichloroethane	**21.5**		µg/l		20.0		107	70-130	1	20
1,1,2-Trichloroethane	**21.7**		µg/l		20.0		108	70-130	3	20
Trichloroethene	**21.0**		µg/l		20.0		105	70-130	1	20
Trichlorofluoromethane (Freon 11)	**24.9**		µg/l		20.0		124	70-130	1	20
1,2,3-Trichloropropane	**21.9**		µg/l		20.0		109	70-130	1	20
1,2,4-Trimethylbenzene	**21.7**		µg/l		20.0		109	70-130	3	20
1,3,5-Trimethylbenzene	**22.2**		µg/l		20.0		111	70-130	7	20
Vinyl chloride	**37.7**	QC1	µg/l		20.0		188	70-130	9	20
m,p-Xylene	**22.6**		µg/l		20.0		113	70-130	2	20
o-Xylene	**21.6**		µg/l		20.0		108	70-130	1	20
Tetrahydrofuran	**21.1**		µg/l		20.0		106	70-130	0.5	20
Ethyl ether	**24.0**		µg/l		20.0		120	70-130	4	20
Tert-amyl methyl ether	**19.4**		µg/l		20.0		97	70-130	2	20
Ethyl tert-butyl ether	**20.1**		µg/l		20.0		100	70-130	0.1	20
Di-isopropyl ether	**21.9**		µg/l		20.0		109	70-130	3	20
Tert-Butanol / butyl alcohol	**201**		µg/l		200		100	70-130	0.1	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1812696 - SW846 5030 Water MS										
LCS Dup (1812696-BSD1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
1,4-Dioxane	**183**		µg/l		200		91	70-130	7	20
trans-1,4-Dichloro-2-butene	**18.8**		µg/l		20.0		94	70-130	10	20
Ethanol	**459**		µg/l		400		115	70-130	5	20
Surrogate: 4-Bromofluorobenzene	*47.6*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.2*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*49.3*		µg/l		*50.0*		*99*	*70-130*		
SW846 8260C TICs										
Batch 1812693 - SW846 5030 Water MS										
Blank (1812693-BLK1)					Prepared & Analyzed: 19-Sep-18					
Tentatively Identified Compounds	**None found**		µg/l							
Batch 1812696 - SW846 5030 Water MS										
Blank (1812696-BLK1)					Prepared: 19-Sep-18 Analyzed: 20-Sep-18					
Tentatively Identified Compounds	**None found**		µg/l							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812395 - SW846 3510C										
Blank (1812395-BLK1)						Prepared: 12-Sep-18 Analyzed: 17-Sep-18				
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 10.0	U	µg/l	10.0						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812395 - SW846 3510C										
Blank (1812395-BLK1)					Prepared: 12-Sep-18 Analyzed: 17-Sep-18					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*24.8*		µg/l		*50.0*		*50*	*30-130*		
Surrogate: 2-Fluorophenol	*19.8*		µg/l		*50.0*		*40*	*15-110*		
Surrogate: Nitrobenzene-d5	*26.3*		µg/l		*50.0*		*53*	*30-130*		
Surrogate: Phenol-d5	*13.7*		µg/l		*50.0*		*27*	*15-110*		
Surrogate: Terphenyl-dl4	*39.2*		µg/l		*50.0*		*78*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*22.2*		µg/l		*50.0*		*44*	*15-110*		
LCS (1812395-BS1)					Prepared: 12-Sep-18 Analyzed: 17-Sep-18					
Acenaphthene	**25.3**		µg/l	4.95	49.5		51	40-140		
Acenaphthylene	**25.9**		µg/l	4.95	49.5		52	40-140		
Aniline	**26.7**		µg/l	4.95	49.5		54	40-140		
Anthracene	**25.0**		µg/l	4.95	49.5		50	40-140		
Azobenzene/Diphenyldiazene	**27.4**		µg/l	4.95	49.5		55	40-140		
Benzidine	**95.5**	QC2, E	µg/l	9.90	49.5		193	40-140		
Benzo (a) anthracene	**35.7**		µg/l	4.95	49.5		72	40-140		
Benzo (a) pyrene	**38.9**		µg/l	4.95	49.5		79	40-140		
Benzo (b) fluoranthene	**36.5**		µg/l	4.95	49.5		74	40-140		
Benzo (g,h,i) perylene	**37.6**		µg/l	4.95	49.5		76	40-140		
Benzo (k) fluoranthene	**37.1**		µg/l	4.95	49.5		75	40-140		
Benzoic acid	**13.9**	QC6	µg/l	4.95	49.5		28	30-130		
Benzyl alcohol	**15.6**	QC6	µg/l	4.95	49.5		31	40-140		
Bis(2-chloroethoxy)methane	**21.0**		µg/l	4.95	49.5		42	40-140		
Bis(2-chloroethyl)ether	**22.9**		µg/l	4.95	49.5		46	40-140		
Bis(2-chloroisopropyl)ether	**24.9**		µg/l	4.95	49.5		50	40-140		
Bis(2-ethylhexyl)phthalate	**37.0**		µg/l	4.95	49.5		75	40-140		
4-Bromophenyl phenyl ether	**23.5**		µg/l	4.95	49.5		47	40-140		
Butyl benzyl phthalate	**34.3**		µg/l	4.95	49.5		69	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812395 - SW846 3510C										
LCS (1812395-BS1)					Prepared: 12-Sep-18 Analyzed: 17-Sep-18					
Carbazole	**55.8**		µg/l	4.95	49.5		113	40-140		
4-Chloro-3-methylphenol	**25.8**		µg/l	4.95	49.5		52	30-130		
4-Chloroaniline	**33.5**		µg/l	4.95	49.5		68	40-140		
2-Chloronaphthalene	**30.0**		µg/l	4.95	49.5		61	40-140		
2-Chlorophenol	**24.4**		µg/l	4.95	49.5		49	30-130		
4-Chlorophenyl phenyl ether	**24.3**		µg/l	4.95	49.5		49	40-140		
Chrysene	**37.1**		µg/l	4.95	49.5		75	40-140		
Dibenzo (a,h) anthracene	**38.6**		µg/l	4.95	49.5		78	40-140		
Dibenzofuran	**28.7**		µg/l	4.95	49.5		58	40-140		
1,2-Dichlorobenzene	**27.6**		µg/l	4.95	49.5		56	40-140		
1,3-Dichlorobenzene	**27.4**		µg/l	4.95	49.5		55	40-140		
1,4-Dichlorobenzene	**27.8**		µg/l	4.95	49.5		56	40-140		
3,3´-Dichlorobenzidine	**46.0**		µg/l	4.95	49.5		93	40-140		
2,4-Dichlorophenol	**23.2**		µg/l	4.95	49.5		47	30-130		
Diethyl phthalate	**25.5**		µg/l	4.95	49.5		51	40-140		
Dimethyl phthalate	**23.9**		µg/l	4.95	49.5		48	40-140		
2,4-Dimethylphenol	**24.6**		µg/l	4.95	49.5		50	30-130		
Di-n-butyl phthalate	**26.0**		µg/l	4.95	49.5		53	40-140		
4,6-Dinitro-2-methylphenol	**27.3**		µg/l	4.95	49.5		55	30-130		
2,4-Dinitrophenol	**19.7**		µg/l	4.95	49.5		40	30-130		
2,4-Dinitrotoluene	**34.3**		µg/l	4.95	49.5		69	40-140		
2,6-Dinitrotoluene	**33.3**		µg/l	4.95	49.5		67	40-140		
Di-n-octyl phthalate	**39.6**		µg/l	4.95	49.5		80	40-140		
Fluoranthene	**24.8**		µg/l	4.95	49.5		50	40-140		
Fluorene	**25.8**		µg/l	4.95	49.5		52	40-140		
Hexachlorobenzene	**32.2**		µg/l	4.95	49.5		65	40-140		
Hexachlorobutadiene	**24.0**		µg/l	4.95	49.5		48	40-140		
Hexachlorocyclopentadiene	**36.8**		µg/l	4.95	49.5		74	40-140		
Hexachloroethane	**29.1**		µg/l	4.95	49.5		59	40-140		
Indeno (1,2,3-cd) pyrene	**37.0**		µg/l	4.95	49.5		75	40-140		
Isophorone	**24.4**		µg/l	4.95	49.5		49	40-140		
2-Methylnaphthalene	**31.3**		µg/l	4.95	49.5		63	40-140		
2-Methylphenol	**27.1**		µg/l	4.95	49.5		55	30-130		
3 & 4-Methylphenol	**24.0**		µg/l	9.90	49.5		48	30-130		
Naphthalene	**23.7**		µg/l	4.95	49.5		48	40-140		
2-Nitroaniline	**28.1**		µg/l	4.95	49.5		57	40-140		
3-Nitroaniline	**49.6**		µg/l	4.95	49.5		100	40-140		
4-Nitroaniline	**41.7**		µg/l	4.95	49.5		84	40-140		
Nitrobenzene	**33.0**		µg/l	4.95	49.5		67	40-140		
2-Nitrophenol	**24.4**		µg/l	4.95	49.5		49	30-130		
4-Nitrophenol	**16.5**	J	µg/l	19.8	49.5		33	30-130		
N-Nitrosodimethylamine	**23.9**		µg/l	4.95	49.5		48	40-140		
N-Nitrosodi-n-propylamine	**28.1**		µg/l	4.95	49.5		57	40-140		
N-Nitrosodiphenylamine	**29.4**		µg/l	4.95	49.5		59	40-140		
Pentachlorophenol	**15.4**	J	µg/l	19.8	49.5		31	30-130		
Phenanthrene	**25.1**		µg/l	4.95	49.5		51	40-140		
Phenol	**13.7**	QC6	µg/l	4.95	49.5		28	30-130		
Pyrene	**33.9**		µg/l	4.95	49.5		68	40-140		
Pyridine	**24.0**		µg/l	4.95	49.5		48	40-140		
1,2,4-Trichlorobenzene	**26.6**		µg/l	4.95	49.5		54	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812395 - SW846 3510C										
LCS (1812395-BS1)					Prepared: 12-Sep-18 Analyzed: 17-Sep-18					
1-Methylnaphthalene	**23.9**		µg/l	4.95	49.5		48	40-140		
2,4,5-Trichlorophenol	**25.0**		µg/l	4.95	49.5		51	30-130		
2,4,6-Trichlorophenol	**23.3**		µg/l	4.95	49.5		47	30-130		
Pentachloronitrobenzene	**27.8**		µg/l	4.95	49.5		56	40-140		
1,2,4,5-Tetrachlorobenzene	**24.1**		µg/l	4.95	49.5		49	40-140		
Surrogate: 2-Fluorobiphenyl	*26.9*		µg/l		*49.5*		*54*	*30-130*		
Surrogate: 2-Fluorophenol	*21.9*		µg/l		*49.5*		*44*	*15-110*		
Surrogate: Nitrobenzene-d5	*30.0*		µg/l		*49.5*		*61*	*30-130*		
Surrogate: Phenol-d5	*15.3*		µg/l		*49.5*		*31*	*15-110*		
Surrogate: Terphenyl-dl4	*42.2*		µg/l		*49.5*		*85*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*27.8*		µg/l		*49.5*		*56*	*15-110*		
LCS Dup (1812395-BSD1)					Prepared: 12-Sep-18 Analyzed: 17-Sep-18					
Acenaphthene	**28.1**		µg/l	5.00	50.0		56	40-140	10	20
Acenaphthylene	**30.8**		µg/l	5.00	50.0		62	40-140	17	20
Aniline	**26.2**		µg/l	5.00	50.0		52	40-140	2	20
Anthracene	**29.7**		µg/l	5.00	50.0		59	40-140	17	20
Azobenzene/Diphenyldiazene	**33.9**	QR9	µg/l	5.00	50.0		68	40-140	21	20
Benzidine	**91.6**	QC2, E	µg/l	10.0	50.0		183	40-140	4	20
Benzo (a) anthracene	**37.4**		µg/l	5.00	50.0		75	40-140	5	20
Benzo (a) pyrene	**40.2**		µg/l	5.00	50.0		80	40-140	3	20
Benzo (b) fluoranthene	**40.8**		µg/l	5.00	50.0		82	40-140	11	20
Benzo (g,h,i) perylene	**40.5**		µg/l	5.00	50.0		81	40-140	7	20
Benzo (k) fluoranthene	**38.6**		µg/l	5.00	50.0		77	40-140	4	20
Benzoic acid	**14.4**	QC6	µg/l	5.00	50.0		29	30-130	3	20
Benzyl alcohol	**26.6**	QR9	µg/l	5.00	50.0		53	40-140	52	20
Bis(2-chloroethoxy)methane	**22.7**		µg/l	5.00	50.0		45	40-140	8	20
Bis(2-chloroethyl)ether	**24.0**		µg/l	5.00	50.0		48	40-140	4	20
Bis(2-chloroisopropyl)ether	**26.2**		µg/l	5.00	50.0		52	40-140	5	20
Bis(2-ethylhexyl)phthalate	**40.0**		µg/l	5.00	50.0		80	40-140	8	20
4-Bromophenyl phenyl ether	**28.7**		µg/l	5.00	50.0		57	40-140	20	20
Butyl benzyl phthalate	**38.6**		µg/l	5.00	50.0		77	40-140	12	20
Carbazole	**67.6**		µg/l	5.00	50.0		135	40-140	19	20
4-Chloro-3-methylphenol	**28.4**		µg/l	5.00	50.0		57	30-130	10	20
4-Chloroaniline	**37.3**		µg/l	5.00	50.0		75	40-140	11	20
2-Chloronaphthalene	**32.7**		µg/l	5.00	50.0		65	40-140	9	20
2-Chlorophenol	**25.5**		µg/l	5.00	50.0		51	30-130	5	20
4-Chlorophenyl phenyl ether	**27.7**		µg/l	5.00	50.0		55	40-140	13	20
Chrysene	**38.6**		µg/l	5.00	50.0		77	40-140	4	20
Dibenzo (a,h) anthracene	**41.4**		µg/l	5.00	50.0		83	40-140	7	20
Dibenzofuran	**31.5**		µg/l	5.00	50.0		63	40-140	9	20
1,2-Dichlorobenzene	**29.7**		µg/l	5.00	50.0		59	40-140	7	20
1,3-Dichlorobenzene	**27.9**		µg/l	5.00	50.0		56	40-140	2	20
1,4-Dichlorobenzene	**30.4**		µg/l	5.00	50.0		61	40-140	9	20
3,3´-Dichlorobenzidine	**51.2**		µg/l	5.00	50.0		102	40-140	11	20
2,4-Dichlorophenol	**25.1**		µg/l	5.00	50.0		50	30-130	8	20
Diethyl phthalate	**29.6**		µg/l	5.00	50.0		59	40-140	15	20
Dimethyl phthalate	**29.6**	QR9	µg/l	5.00	50.0		59	40-140	21	20
2,4-Dimethylphenol	**25.7**		µg/l	5.00	50.0		51	30-130	4	20
Di-n-butyl phthalate	**31.4**		µg/l	5.00	50.0		63	40-140	18	20
4,6-Dinitro-2-methylphenol	**34.7**	QR9	µg/l	5.00	50.0		69	30-130	24	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812395 - SW846 3510C										
LCS Dup (1812395-BSD1)					Prepared: 12-Sep-18 Analyzed: 17-Sep-18					
2,4-Dinitrophenol	**20.8**		µg/l	5.00	50.0		42	30-130	6	20
2,4-Dinitrotoluene	**38.4**		µg/l	5.00	50.0		77	40-140	11	20
2,6-Dinitrotoluene	**38.5**		µg/l	5.00	50.0		77	40-140	14	20
Di-n-octyl phthalate	**43.0**		µg/l	5.00	50.0		86	40-140	8	20
Fluoranthene	**31.1**	QR9	µg/l	5.00	50.0		62	40-140	22	20
Fluorene	**29.0**		µg/l	5.00	50.0		58	40-140	12	20
Hexachlorobenzene	**36.4**		µg/l	5.00	50.0		73	40-140	12	20
Hexachlorobutadiene	**24.9**		µg/l	5.00	50.0		50	40-140	4	20
Hexachlorocyclopentadiene	**37.7**		µg/l	5.00	50.0		75	40-140	2	20
Hexachloroethane	**30.5**		µg/l	5.00	50.0		61	40-140	5	20
Indeno (1,2,3-cd) pyrene	**39.6**		µg/l	5.00	50.0		79	40-140	7	20
Isophorone	**26.8**		µg/l	5.00	50.0		54	40-140	9	20
2-Methylnaphthalene	**32.9**		µg/l	5.00	50.0		66	40-140	5	20
2-Methylphenol	**28.8**		µg/l	5.00	50.0		58	30-130	6	20
3 & 4-Methylphenol	**25.8**		µg/l	10.0	50.0		52	30-130	7	20
Naphthalene	**25.7**		µg/l	5.00	50.0		51	40-140	8	20
2-Nitroaniline	**31.4**		µg/l	5.00	50.0		63	40-140	11	20
3-Nitroaniline	**53.6**		µg/l	5.00	50.0		107	40-140	8	20
4-Nitroaniline	**47.3**		µg/l	5.00	50.0		95	40-140	13	20
Nitrobenzene	**33.1**		µg/l	5.00	50.0		66	40-140	0.4	20
2-Nitrophenol	**26.0**		µg/l	5.00	50.0		52	30-130	6	20
4-Nitrophenol	**16.4**	J	µg/l	20.0	50.0		33	30-130	0.9	20
N-Nitrosodimethylamine	**23.8**		µg/l	5.00	50.0		48	40-140	0.6	20
N-Nitrosodi-n-propylamine	**30.8**		µg/l	5.00	50.0		62	40-140	9	20
N-Nitrosodiphenylamine	**37.4**	QR9	µg/l	5.00	50.0		75	40-140	24	20
Pentachlorophenol	**19.5**	QR9, J	µg/l	20.0	50.0		39	30-130	24	20
Phenanthrene	**29.4**		µg/l	5.00	50.0		59	40-140	16	20
Phenol	**13.8**	QC6	µg/l	5.00	50.0		28	30-130	0.6	20
Pyrene	**37.1**		µg/l	5.00	50.0		74	40-140	9	20
Pyridine	**18.8**	QC6, QR9	µg/l	5.00	50.0		38	40-140	24	20
1,2,4-Trichlorobenzene	**28.7**		µg/l	5.00	50.0		57	40-140	8	20
1-Methylnaphthalene	**27.9**		µg/l	5.00	50.0		56	40-140	16	20
2,4,5-Trichlorophenol	**28.4**		µg/l	5.00	50.0		57	30-130	12	20
2,4,6-Trichlorophenol	**26.3**		µg/l	5.00	50.0		53	30-130	12	20
Pentachloronitrobenzene	**31.3**		µg/l	5.00	50.0		63	40-140	12	20
1,2,4,5-Tetrachlorobenzene	**26.0**		µg/l	5.00	50.0		52	40-140	8	20
Surrogate: 2-Fluorobiphenyl	*28.1*		µg/l		*50.0*		*56*	*30-130*		
Surrogate: 2-Fluorophenol	*22.5*		µg/l		*50.0*		*45*	*15-110*		
Surrogate: Nitrobenzene-d5	*31.0*		µg/l		*50.0*		*62*	*30-130*		
Surrogate: Phenol-d5	*15.4*		µg/l		*50.0*		*31*	*15-110*		
Surrogate: Terphenyl-dl4	*42.7*		µg/l		*50.0*		*85*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*35.6*		µg/l		*50.0*		*71*	*15-110*		
Batch 1812441 - SW846 3510C										
Blank (1812441-BLK1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
Acenaphthene	< 5.05	U	µg/l	5.05						
Acenaphthylene	< 5.05	U	µg/l	5.05						
Aniline	< 5.05	U	µg/l	5.05						
Anthracene	< 5.05	U	µg/l	5.05						
Azobenzene/Diphenyldiazene	< 5.05	U	µg/l	5.05						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
Blank (1812441-BLK1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
Benzidine	< 10.1	U	µg/l	10.1						
Benzo (a) anthracene	< 5.05	U	µg/l	5.05						
Benzo (a) pyrene	< 5.05	U	µg/l	5.05						
Benzo (b) fluoranthene	< 5.05	U	µg/l	5.05						
Benzo (g,h,i) perylene	< 5.05	U	µg/l	5.05						
Benzo (k) fluoranthene	< 5.05	U	µg/l	5.05						
Benzoic acid	< 5.05	U	µg/l	5.05						
Benzyl alcohol	< 5.05	U	µg/l	5.05						
Bis(2-chloroethoxy)methane	< 5.05	U	µg/l	5.05						
Bis(2-chloroethyl)ether	< 5.05	U	µg/l	5.05						
Bis(2-chloroisopropyl)ether	< 5.05	U	µg/l	5.05						
Bis(2-ethylhexyl)phthalate	< 5.05	U	µg/l	5.05						
4-Bromophenyl phenyl ether	< 5.05	U	µg/l	5.05						
Butyl benzyl phthalate	< 5.05	U	µg/l	5.05						
Carbazole	< 5.05	U	µg/l	5.05						
4-Chloro-3-methylphenol	< 5.05	U	µg/l	5.05						
4-Chloroaniline	< 5.05	U	µg/l	5.05						
2-Chloronaphthalene	< 5.05	U	µg/l	5.05						
2-Chlorophenol	< 5.05	U	µg/l	5.05						
4-Chlorophenyl phenyl ether	< 5.05	U	µg/l	5.05						
Chrysene	< 5.05	U	µg/l	5.05						
Dibenzo (a,h) anthracene	< 5.05	U	µg/l	5.05						
Dibenzofuran	< 5.05	U	µg/l	5.05						
1,2-Dichlorobenzene	< 5.05	U	µg/l	5.05						
1,3-Dichlorobenzene	< 5.05	U	µg/l	5.05						
1,4-Dichlorobenzene	< 5.05	U	µg/l	5.05						
3,3´-Dichlorobenzidine	< 5.05	U	µg/l	5.05						
2,4-Dichlorophenol	< 5.05	U	µg/l	5.05						
Diethyl phthalate	< 5.05	U	µg/l	5.05						
Dimethyl phthalate	< 5.05	U	µg/l	5.05						
2,4-Dimethylphenol	< 5.05	U	µg/l	5.05						
Di-n-butyl phthalate	< 5.05	U	µg/l	5.05						
4,6-Dinitro-2-methylphenol	< 5.05	U	µg/l	5.05						
2,4-Dinitrophenol	< 5.05	U	µg/l	5.05						
2,4-Dinitrotoluene	< 5.05	U	µg/l	5.05						
2,6-Dinitrotoluene	< 5.05	U	µg/l	5.05						
Di-n-octyl phthalate	< 5.05	U	µg/l	5.05						
Fluoranthene	< 5.05	U	µg/l	5.05						
Fluorene	< 5.05	U	µg/l	5.05						
Hexachlorobenzene	< 5.05	U	µg/l	5.05						
Hexachlorobutadiene	< 5.05	U	µg/l	5.05						
Hexachlorocyclopentadiene	< 5.05	U	µg/l	5.05						
Hexachloroethane	< 5.05	U	µg/l	5.05						
Indeno (1,2,3-cd) pyrene	< 5.05	U	µg/l	5.05						
Isophorone	< 5.05	U	µg/l	5.05						
2-Methylnaphthalene	< 5.05	U	µg/l	5.05						
2-Methylphenol	< 5.05	U	µg/l	5.05						
3 & 4-Methylphenol	< 10.1	U	µg/l	10.1						
Naphthalene	< 5.05	U	µg/l	5.05						
2-Nitroaniline	< 5.05	U	µg/l	5.05						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
Blank (1812441-BLK1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
3-Nitroaniline	< 5.05	U	µg/l	5.05						
4-Nitroaniline	< 5.05	U	µg/l	5.05						
Nitrobenzene	< 5.05	U	µg/l	5.05						
2-Nitrophenol	< 5.05	U	µg/l	5.05						
4-Nitrophenol	< 20.2	U	µg/l	20.2						
N-Nitrosodimethylamine	< 5.05	U	µg/l	5.05						
N-Nitrosodi-n-propylamine	< 5.05	U	µg/l	5.05						
N-Nitrosodiphenylamine	< 5.05	U	µg/l	5.05						
Pentachlorophenol	< 20.2	U	µg/l	20.2						
Phenanthrene	< 5.05	U	µg/l	5.05						
Phenol	< 5.05	U	µg/l	5.05						
Pyrene	< 5.05	U	µg/l	5.05						
Pyridine	< 5.05	U	µg/l	5.05						
1,2,4-Trichlorobenzene	< 5.05	U	µg/l	5.05						
1-Methylnaphthalene	< 5.05	U	µg/l	5.05						
2,4,5-Trichlorophenol	< 5.05	U	µg/l	5.05						
2,4,6-Trichlorophenol	< 5.05	U	µg/l	5.05						
Pentachloronitrobenzene	< 5.05	U	µg/l	5.05						
1,2,4,5-Tetrachlorobenzene	< 5.05	U	µg/l	5.05						
Surrogate: 2-Fluorobiphenyl	*20.7*		µg/l		*50.5*		*41*	*30-130*		
Surrogate: 2-Fluorophenol	*8.92*		µg/l		*50.5*		*18*	*15-110*		
Surrogate: Nitrobenzene-d5	*17.6*		µg/l		*50.5*		*35*	*30-130*		
Surrogate: Phenol-d5	*9.08*		µg/l		*50.5*		*18*	*15-110*		
Surrogate: Terphenyl-dl4	*39.8*		µg/l		*50.5*		*79*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*25.5*		µg/l		*50.5*		*50*	*15-110*		
LCS (1812441-BS1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
Acenaphthene	**25.8**		µg/l	4.90	49.0		53	40-140		
Acenaphthylene	**27.4**		µg/l	4.90	49.0		56	40-140		
Aniline	**15.9**	QC2	µg/l	4.90	49.0		32	40-140		
Anthracene	**27.0**		µg/l	4.90	49.0		55	40-140		
Azobenzene/Diphenyldiazene	**29.5**		µg/l	4.90	49.0		60	40-140		
Benzidine	**90.4**	QC2, E	µg/l	9.80	49.0		184	40-140		
Benzo (a) anthracene	**33.7**		µg/l	4.90	49.0		69	40-140		
Benzo (a) pyrene	**37.0**		µg/l	4.90	49.0		75	40-140		
Benzo (b) fluoranthene	**33.5**		µg/l	4.90	49.0		68	40-140		
Benzo (g,h,i) perylene	**35.8**		µg/l	4.90	49.0		73	40-140		
Benzo (k) fluoranthene	**38.9**		µg/l	4.90	49.0		79	40-140		
Benzoic acid	**9.75**	QC2	µg/l	4.90	49.0		20	30-130		
Benzyl alcohol	**11.1**	QC2	µg/l	4.90	49.0		23	40-140		
Bis(2-chloroethoxy)methane	**20.9**		µg/l	4.90	49.0		43	40-140		
Bis(2-chloroethyl)ether	**17.1**	QC2	µg/l	4.90	49.0		35	40-140		
Bis(2-chloroisopropyl)ether	**21.6**		µg/l	4.90	49.0		44	40-140		
Bis(2-ethylhexyl)phthalate	**33.9**		µg/l	4.90	49.0		69	40-140		
4-Bromophenyl phenyl ether	**25.2**		µg/l	4.90	49.0		52	40-140		
Butyl benzyl phthalate	**35.6**		µg/l	4.90	49.0		73	40-140		
Carbazole	**60.9**		µg/l	4.90	49.0		124	40-140		
4-Chloro-3-methylphenol	**28.4**		µg/l	4.90	49.0		58	30-130		
4-Chloroaniline	**24.9**		µg/l	4.90	49.0		51	40-140		
2-Chloronaphthalene	**31.2**		µg/l	4.90	49.0		64	40-140		
2-Chlorophenol	**20.5**		µg/l	4.90	49.0		42	30-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
LCS (1812441-BS1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
4-Chlorophenyl phenyl ether	**25.0**		µg/l	4.90	49.0		51	40-140		
Chrysene	**33.4**		µg/l	4.90	49.0		68	40-140		
Dibenzo (a,h) anthracene	**37.3**		µg/l	4.90	49.0		76	40-140		
Dibenzofuran	**29.2**		µg/l	4.90	49.0		59	40-140		
1,2-Dichlorobenzene	**17.6**	QC2	µg/l	4.90	49.0		36	40-140		
1,3-Dichlorobenzene	**13.9**	QC2	µg/l	4.90	49.0		28	40-140		
1,4-Dichlorobenzene	**15.3**	QC2	µg/l	4.90	49.0		31	40-140		
3,3´-Dichlorobenzidine	**46.9**		µg/l	4.90	49.0		96	40-140		
2,4-Dichlorophenol	**23.8**		µg/l	4.90	49.0		49	30-130		
Diethyl phthalate	**27.6**		µg/l	4.90	49.0		56	40-140		
Dimethyl phthalate	**26.5**		µg/l	4.90	49.0		54	40-140		
2,4-Dimethylphenol	**24.3**		µg/l	4.90	49.0		50	30-130		
Di-n-butyl phthalate	**27.3**		µg/l	4.90	49.0		56	40-140		
4,6-Dinitro-2-methylphenol	**30.8**		µg/l	4.90	49.0		63	30-130		
2,4-Dinitrophenol	**17.6**		µg/l	4.90	49.0		36	30-130		
2,4-Dinitrotoluene	**35.5**		µg/l	4.90	49.0		72	40-140		
2,6-Dinitrotoluene	**35.2**		µg/l	4.90	49.0		72	40-140		
Di-n-octyl phthalate	**37.3**		µg/l	4.90	49.0		76	40-140		
Fluoranthene	**28.2**		µg/l	4.90	49.0		57	40-140		
Fluorene	**27.0**		µg/l	4.90	49.0		55	40-140		
Hexachlorobenzene	**31.8**		µg/l	4.90	49.0		65	40-140		
Hexachlorobutadiene	**20.3**		µg/l	4.90	49.0		41	40-140		
Hexachlorocyclopentadiene	**34.7**		µg/l	4.90	49.0		71	40-140		
Hexachloroethane	**16.3**	QC2	µg/l	4.90	49.0		33	40-140		
Indeno (1,2,3-cd) pyrene	**35.1**		µg/l	4.90	49.0		72	40-140		
Isophorone	**25.2**		µg/l	4.90	49.0		52	40-140		
2-Methylnaphthalene	**35.3**		µg/l	4.90	49.0		72	40-140		
2-Methylphenol	**24.1**		µg/l	4.90	49.0		49	30-130		
3 & 4-Methylphenol	**21.8**		µg/l	9.80	49.0		44	30-130		
Naphthalene	**22.6**		µg/l	4.90	49.0		46	40-140		
2-Nitroaniline	**29.3**		µg/l	4.90	49.0		60	40-140		
3-Nitroaniline	**43.5**		µg/l	4.90	49.0		89	40-140		
4-Nitroaniline	**40.2**		µg/l	4.90	49.0		82	40-140		
Nitrobenzene	**29.8**		µg/l	4.90	49.0		61	40-140		
2-Nitrophenol	**23.5**		µg/l	4.90	49.0		48	30-130		
4-Nitrophenol	**13.3**	QC2, J	µg/l	19.6	49.0		27	30-130		
N-Nitrosodimethylamine	**7.47**	QC2	µg/l	4.90	49.0		15	40-140		
N-Nitrosodi-n-propylamine	**29.1**		µg/l	4.90	49.0		59	40-140		
N-Nitrosodiphenylamine	**33.0**		µg/l	4.90	49.0		67	40-140		
Pentachlorophenol	**15.4**	J	µg/l	19.6	49.0		31	30-130		
Phenanthrene	**26.3**		µg/l	4.90	49.0		54	40-140		
Phenol	**10.8**	QC2	µg/l	4.90	49.0		22	30-130		
Pyrene	**35.3**		µg/l	4.90	49.0		72	40-140		
Pyridine	**5.26**	QC2	µg/l	4.90	49.0		11	40-140		
1,2,4-Trichlorobenzene	**24.7**		µg/l	4.90	49.0		50	40-140		
1-Methylnaphthalene	**24.6**		µg/l	4.90	49.0		50	40-140		
2,4,5-Trichlorophenol	**26.6**		µg/l	4.90	49.0		54	30-130		
2,4,6-Trichlorophenol	**23.3**		µg/l	4.90	49.0		48	30-130		
Pentachloronitrobenzene	**29.3**		µg/l	4.90	49.0		60	40-140		
1,2,4,5-Tetrachlorobenzene	**23.0**		µg/l	4.90	49.0		47	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
LCS (1812441-BS1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
Surrogate: 2-Fluorobiphenyl	*29.2*		µg/l		*49.0*		*60*	*30-130*		
Surrogate: 2-Fluorophenol	*14.9*		µg/l		*49.0*		*30*	*15-110*		
Surrogate: Nitrobenzene-d5	*28.6*		µg/l		*49.0*		*58*	*30-130*		
Surrogate: Phenol-d5	*12.4*		µg/l		*49.0*		*25*	*15-110*		
Surrogate: Terphenyl-dl4	*41.5*		µg/l		*49.0*		*85*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*30.8*		µg/l		*49.0*		*63*	*15-110*		
LCS Dup (1812441-BSD1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
Acenaphthene	**24.0**		µg/l	5.00	50.0		48	40-140	7	20
Acenaphthylene	**23.9**		µg/l	5.00	50.0		48	40-140	14	20
Aniline	**14.4**	QC2	µg/l	5.00	50.0		29	40-140	10	20
Anthracene	**25.5**		µg/l	5.00	50.0		51	40-140	6	20
Azobenzene/Diphenyldiazene	**25.8**		µg/l	5.00	50.0		52	40-140	13	20
Benzidine	**81.0**	QC2, E	µg/l	10.0	50.0		162	40-140	11	20
Benzo (a) anthracene	**30.2**		µg/l	5.00	50.0		60	40-140	11	20
Benzo (a) pyrene	**32.6**		µg/l	5.00	50.0		65	40-140	13	20
Benzo (b) fluoranthene	**30.9**		µg/l	5.00	50.0		62	40-140	8	20
Benzo (g,h,i) perylene	**32.3**		µg/l	5.00	50.0		65	40-140	10	20
Benzo (k) fluoranthene	**35.2**		µg/l	5.00	50.0		70	40-140	10	20
Benzoic acid	**7.78**	QC2, QR5	µg/l	5.00	50.0		16	30-130	22	20
Benzyl alcohol	**8.40**	QC2, QR5	µg/l	5.00	50.0		17	40-140	28	20
Bis(2-chloroethoxy)methane	**18.2**	QC2	µg/l	5.00	50.0		36	40-140	14	20
Bis(2-chloroethyl)ether	**15.5**	QC2	µg/l	5.00	50.0		31	40-140	10	20
Bis(2-chloroisopropyl)ether	**18.9**	QC2	µg/l	5.00	50.0		38	40-140	13	20
Bis(2-ethylhexyl)phthalate	**32.6**		µg/l	5.00	50.0		65	40-140	4	20
4-Bromophenyl phenyl ether	**24.3**		µg/l	5.00	50.0		49	40-140	4	20
Butyl benzyl phthalate	**31.3**		µg/l	5.00	50.0		63	40-140	13	20
Carbazole	**58.5**		µg/l	5.00	50.0		117	40-140	4	20
4-Chloro-3-methylphenol	**24.6**		µg/l	5.00	50.0		49	30-130	14	20
4-Chloroaniline	**22.1**		µg/l	5.00	50.0		44	40-140	12	20
2-Chloronaphthalene	**26.0**		µg/l	5.00	50.0		52	40-140	18	20
2-Chlorophenol	**18.0**		µg/l	5.00	50.0		36	30-130	13	20
4-Chlorophenyl phenyl ether	**21.7**		µg/l	5.00	50.0		43	40-140	14	20
Chrysene	**30.8**		µg/l	5.00	50.0		62	40-140	8	20
Dibenzo (a,h) anthracene	**34.0**		µg/l	5.00	50.0		68	40-140	9	20
Dibenzofuran	**27.0**		µg/l	5.00	50.0		54	40-140	7	20
1,2-Dichlorobenzene	**15.7**	QC2	µg/l	5.00	50.0		31	40-140	11	20
1,3-Dichlorobenzene	**12.4**	QC2	µg/l	5.00	50.0		25	40-140	12	20
1,4-Dichlorobenzene	**13.6**	QC2	µg/l	5.00	50.0		27	40-140	12	20
3,3´-Dichlorobenzidine	**43.1**		µg/l	5.00	50.0		86	40-140	8	20
2,4-Dichlorophenol	**21.2**		µg/l	5.00	50.0		42	30-130	11	20
Diethyl phthalate	**23.9**		µg/l	5.00	50.0		48	40-140	15	20
Dimethyl phthalate	**22.9**		µg/l	5.00	50.0		46	40-140	14	20
2,4-Dimethylphenol	**20.9**		µg/l	5.00	50.0		42	30-130	15	20
Di-n-butyl phthalate	**26.5**		µg/l	5.00	50.0		53	40-140	3	20
4,6-Dinitro-2-methylphenol	**27.6**		µg/l	5.00	50.0		55	30-130	11	20
2,4-Dinitrophenol	**15.9**		µg/l	5.00	50.0		32	30-130	10	20
2,4-Dinitrotoluene	**32.8**		µg/l	5.00	50.0		66	40-140	8	20
2,6-Dinitrotoluene	**31.3**		µg/l	5.00	50.0		63	40-140	12	20
Di-n-octyl phthalate	**35.2**		µg/l	5.00	50.0		70	40-140	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
LCS Dup (1812441-BSD1)					Prepared: 13-Sep-18 Analyzed: 17-Sep-18					
Fluoranthene	**25.8**		µg/l	5.00	50.0		52	40-140	9	20
Fluorene	**23.4**		µg/l	5.00	50.0		47	40-140	14	20
Hexachlorobenzene	**29.9**		µg/l	5.00	50.0		60	40-140	6	20
Hexachlorobutadiene	**17.9**	QC2	µg/l	5.00	50.0		36	40-140	13	20
Hexachlorocyclopentadiene	**30.3**		µg/l	5.00	50.0		61	40-140	14	20
Hexachloroethane	**14.5**	QC2	µg/l	5.00	50.0		29	40-140	12	20
Indeno (1,2,3-cd) pyrene	**32.6**		µg/l	5.00	50.0		65	40-140	7	20
Isophorone	**22.3**		µg/l	5.00	50.0		45	40-140	12	20
2-Methylnaphthalene	**30.6**		µg/l	5.00	50.0		61	40-140	14	20
2-Methylphenol	**21.4**		µg/l	5.00	50.0		43	30-130	12	20
3 & 4-Methylphenol	**19.0**		µg/l	10.0	50.0		38	30-130	13	20
Naphthalene	**20.4**		µg/l	5.00	50.0		41	40-140	10	20
2-Nitroaniline	**25.4**		µg/l	5.00	50.0		51	40-140	14	20
3-Nitroaniline	**41.3**		µg/l	5.00	50.0		83	40-140	5	20
4-Nitroaniline	**35.5**		µg/l	5.00	50.0		71	40-140	12	20
Nitrobenzene	**26.6**		µg/l	5.00	50.0		53	40-140	11	20
2-Nitrophenol	**20.6**		µg/l	5.00	50.0		41	30-130	13	20
4-Nitrophenol	**12.1**	QC2, J	µg/l	20.0	50.0		24	30-130	9	20
N-Nitrosodimethylamine	**6.51**	QC2	µg/l	5.00	50.0		13	40-140	14	20
N-Nitrosodi-n-propylamine	**24.8**		µg/l	5.00	50.0		50	40-140	16	20
N-Nitrosodiphenylamine	**29.9**		µg/l	5.00	50.0		60	40-140	10	20
Pentachlorophenol	**13.0**	QC2, J	µg/l	20.0	50.0		26	30-130	17	20
Phenanthrene	**24.6**		µg/l	5.00	50.0		49	40-140	6	20
Phenol	**9.51**	QC2	µg/l	5.00	50.0		19	30-130	13	20
Pyrene	**31.0**		µg/l	5.00	50.0		62	40-140	13	20
Pyridine	**4.82**	QC2, J	µg/l	5.00	50.0		10	40-140	9	20
1,2,4-Trichlorobenzene	**22.4**		µg/l	5.00	50.0		45	40-140	10	20
1-Methylnaphthalene	**22.4**		µg/l	5.00	50.0		45	40-140	9	20
2,4,5-Trichlorophenol	**23.0**		µg/l	5.00	50.0		46	30-130	14	20
2,4,6-Trichlorophenol	**21.2**		µg/l	5.00	50.0		42	30-130	10	20
Pentachloronitrobenzene	**26.5**		µg/l	5.00	50.0		53	40-140	10	20
1,2,4,5-Tetrachlorobenzene	**20.7**		µg/l	5.00	50.0		41	40-140	10	20
Surrogate: 2-Fluorobiphenyl	*25.3*		µg/l		*50.0*		*51*	*30-130*		
Surrogate: 2-Fluorophenol	*12.9*		µg/l		*50.0*		*26*	*15-110*		
Surrogate: Nitrobenzene-d5	*24.9*		µg/l		*50.0*		*50*	*30-130*		
Surrogate: Phenol-d5	*11.2*		µg/l		*50.0*		*22*	*15-110*		
Surrogate: Terphenyl-dl4	*35.6*		µg/l		*50.0*		*71*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*28.1*		µg/l		*50.0*		*56*	*15-110*		
Matrix Spike (1812441-MS1)			**Source: SC50148-03**		Prepared: 13-Sep-18 Analyzed: 20-Sep-18					
Acenaphthene	**24.4**		µg/l	4.76	47.6	BRL	51	40-140		
Acenaphthylene	**24.7**		µg/l	4.76	47.6	BRL	52	40-140		
Aniline	**16.1**	QC2	µg/l	4.76	47.6	BRL	34	40-140		
Anthracene	**23.5**		µg/l	4.76	47.6	BRL	49	40-140		
Azobenzene/Diphenyldiazene	**23.0**		µg/l	4.76	47.6	BRL	48	40-140		
Benzidine	< 9.52	QC2, U	µg/l	9.52	47.6	BRL	<1	40-140		
Benzo (a) anthracene	**32.4**		µg/l	4.76	47.6	BRL	68	40-140		
Benzo (a) pyrene	**34.5**		µg/l	4.76	47.6	BRL	72	40-140		
Benzo (b) fluoranthene	**35.4**		µg/l	4.76	47.6	BRL	74	40-140		
Benzo (g,h,i) perylene	**27.8**		µg/l	4.76	47.6	BRL	58	40-140		
Benzo (k) fluoranthene	**35.2**		µg/l	4.76	47.6	BRL	74	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
Matrix Spike (1812441-MS1)			**Source: SC50148-03**			Prepared: 13-Sep-18 Analyzed: 20-Sep-18				
Benzoic acid	**15.8**		µg/l	4.76	47.6	BRL	33	30-130		
Benzyl alcohol	**22.1**		µg/l	4.76	47.6	BRL	46	40-140		
Bis(2-chloroethoxy)methane	**20.3**		µg/l	4.76	47.6	BRL	43	40-140		
Bis(2-chloroethyl)ether	**19.7**		µg/l	4.76	47.6	BRL	41	40-140		
Bis(2-chloroisopropyl)ether	**22.1**		µg/l	4.76	47.6	BRL	46	40-140		
Bis(2-ethylhexyl)phthalate	**35.4**		µg/l	4.76	47.6	2.67	69	40-140		
4-Bromophenyl phenyl ether	**21.9**		µg/l	4.76	47.6	BRL	46	40-140		
Butyl benzyl phthalate	**34.2**		µg/l	4.76	47.6	BRL	72	40-140		
Carbazole	**55.3**		µg/l	4.76	47.6	BRL	116	40-140		
4-Chloro-3-methylphenol	**23.3**		µg/l	4.76	47.6	BRL	49	30-130		
4-Chloroaniline	**16.8**	QM7	µg/l	4.76	47.6	BRL	35	40-140		
2-Chloronaphthalene	**27.5**		µg/l	4.76	47.6	BRL	58	40-140		
2-Chlorophenol	**23.4**		µg/l	4.76	47.6	BRL	49	30-130		
4-Chlorophenyl phenyl ether	**22.3**		µg/l	4.76	47.6	BRL	47	40-140		
Chrysene	**32.9**		µg/l	4.76	47.6	BRL	69	40-140		
Dibenzo (a,h) anthracene	**29.9**		µg/l	4.76	47.6	BRL	63	40-140		
Dibenzofuran	**27.0**		µg/l	4.76	47.6	BRL	57	40-140		
1,2-Dichlorobenzene	**29.4**		µg/l	4.76	47.6	BRL	62	40-140		
1,3-Dichlorobenzene	**27.6**		µg/l	4.76	47.6	BRL	58	40-140		
1,4-Dichlorobenzene	**28.3**		µg/l	4.76	47.6	BRL	59	40-140		
3,3´-Dichlorobenzidine	**20.8**		µg/l	4.76	47.6	BRL	44	40-140		
2,4-Dichlorophenol	**22.2**		µg/l	4.76	47.6	BRL	47	30-130		
Diethyl phthalate	**23.0**		µg/l	4.76	47.6	BRL	48	40-140		
Dimethyl phthalate	**23.9**		µg/l	4.76	47.6	BRL	50	40-140		
2,4-Dimethylphenol	**30.3**		µg/l	4.76	47.6	BRL	64	30-130		
Di-n-butyl phthalate	**23.6**		µg/l	4.76	47.6	BRL	50	40-140		
4,6-Dinitro-2-methylphenol	**13.5**	QM7	µg/l	4.76	47.6	BRL	28	30-130		
2,4-Dinitrophenol	**8.73**	QM7	µg/l	4.76	47.6	BRL	18	30-130		
2,4-Dinitrotoluene	**30.6**		µg/l	4.76	47.6	BRL	64	40-140		
2,6-Dinitrotoluene	**30.3**		µg/l	4.76	47.6	BRL	64	40-140		
Di-n-octyl phthalate	**41.2**		µg/l	4.76	47.6	BRL	86	40-140		
Fluoranthene	**23.1**		µg/l	4.76	47.6	BRL	48	40-140		
Fluorene	**23.4**		µg/l	4.76	47.6	BRL	49	40-140		
Hexachlorobenzene	**27.4**		µg/l	4.76	47.6	BRL	58	40-140		
Hexachlorobutadiene	**25.6**		µg/l	4.76	47.6	BRL	54	40-140		
Hexachlorocyclopentadiene	**18.6**	QM7	µg/l	4.76	47.6	BRL	39	40-140		
Hexachloroethane	**50.0**		µg/l	4.76	47.6	BRL	105	40-140		
Indeno (1,2,3-cd) pyrene	**27.9**		µg/l	4.76	47.6	BRL	59	40-140		
Isophorone	**23.0**		µg/l	4.76	47.6	BRL	48	30-130		
2-Methylnaphthalene	**38.8**		µg/l	4.76	47.6	11.2	58	40-140		
2-Methylphenol	**22.1**		µg/l	4.76	47.6	BRL	46	30-130		
3 & 4-Methylphenol	**20.5**		µg/l	9.52	47.6	BRL	43	30-130		
Naphthalene	**71.1**		µg/l	4.76	47.6	38.1	69	40-140		
2-Nitroaniline	**24.8**		µg/l	4.76	47.6	BRL	52	40-140		
3-Nitroaniline	**34.7**		µg/l	4.76	47.6	BRL	73	40-140		
4-Nitroaniline	**28.8**		µg/l	4.76	47.6	BRL	61	40-140		
Nitrobenzene	**50.2**		µg/l	4.76	47.6	BRL	105	40-140		
2-Nitrophenol	**22.6**		µg/l	4.76	47.6	BRL	48	30-130		
4-Nitrophenol	**10.8**	QC2, J	µg/l	19.0	47.6	BRL	23	30-130		
N-Nitrosodimethylamine	**15.1**	QC2	µg/l	4.76	47.6	BRL	32	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
Matrix Spike (1812441-MS1)			**Source: SC50148-03**		Prepared: 13-Sep-18 Analyzed: 20-Sep-18					
N-Nitrosodi-n-propylamine	**26.1**		µg/l	4.76	47.6	BRL	55	40-140		
N-Nitrosodiphenylamine	**27.7**		µg/l	4.76	47.6	BRL	58	40-140		
Pentachlorophenol	**19.1**		µg/l	19.0	47.6	BRL	40	30-130		
Phenanthrene	**23.7**		µg/l	4.76	47.6	BRL	50	40-140		
Phenol	**9.49**	QC2	µg/l	4.76	47.6	BRL	20	30-130		
Pyrene	**34.7**		µg/l	4.76	47.6	BRL	73	40-140		
Pyridine	**19.3**		µg/l	4.76	47.6	BRL	41	40-140		
1,2,4-Trichlorobenzene	**27.2**		µg/l	4.76	47.6	BRL	57	40-140		
1-Methylnaphthalene	**40.4**		µg/l	4.76	47.6	15.0	53	40-140		
2,4,5-Trichlorophenol	**23.3**		µg/l	4.76	47.6	BRL	49	30-130		
2,4,6-Trichlorophenol	**21.7**		µg/l	4.76	47.6	BRL	46	30-130		
Pentachloronitrobenzene	**25.7**		µg/l	4.76	47.6	BRL	54	40-140		
1,2,4,5-Tetrachlorobenzene	**22.6**		µg/l	4.76	47.6	BRL	48	40-140		
Surrogate: 2-Fluorobiphenyl	*25.7*		µg/l		*47.6*		*54*	*30-130*		
Surrogate: 2-Fluorophenol	*18.4*		µg/l		*47.6*		*39*	*15-110*		
Surrogate: Nitrobenzene-d5	*32.0*		µg/l		*47.6*		*67*	*30-130*		
Surrogate: Phenol-d5	*11.6*		µg/l		*47.6*		*24*	*15-110*		
Surrogate: Terphenyl-dl4	*40.0*		µg/l		*47.6*		*84*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*30.3*		µg/l		*47.6*		*64*	*15-110*		
Matrix Spike Dup (1812441-MSD1)			**Source: SC50148-03**		Prepared: 13-Sep-18 Analyzed: 20-Sep-18					
Acenaphthene	**23.5**		µg/l	4.72	47.2	BRL	50	40-140	4	20
Acenaphthylene	**24.1**		µg/l	4.72	47.2	BRL	51	40-140	2	20
Aniline	**15.4**	QC2	µg/l	4.72	47.2	BRL	33	40-140	4	20
Anthracene	**23.3**		µg/l	4.72	47.2	BRL	49	40-140	0.9	20
Azobenzene/Diphenyldiazene	**23.9**		µg/l	4.72	47.2	BRL	51	40-140	4	20
Benzidine	< 9.43	QC2, U	µg/l	9.43	47.2	BRL	<1	40-140		20
Benzo (a) anthracene	**32.9**		µg/l	4.72	47.2	BRL	70	40-140	1	20
Benzo (a) pyrene	**34.6**		µg/l	4.72	47.2	BRL	73	40-140	0.5	20
Benzo (b) fluoranthene	**36.4**		µg/l	4.72	47.2	BRL	77	40-140	3	20
Benzo (g,h,i) perylene	**27.5**		µg/l	4.72	47.2	BRL	58	40-140	1	20
Benzo (k) fluoranthene	**37.1**		µg/l	4.72	47.2	BRL	79	40-140	5	20
Benzoic acid	**10.2**	QC2, QR5	µg/l	4.72	47.2	BRL	22	30-130	43	20
Benzyl alcohol	**22.9**		µg/l	4.72	47.2	BRL	48	40-140	3	20
Bis(2-chloroethoxy)methane	**19.6**		µg/l	4.72	47.2	BRL	42	40-140	4	20
Bis(2-chloroethyl)ether	**19.0**		µg/l	4.72	47.2	BRL	40	40-140	4	20
Bis(2-chloroisopropyl)ether	**21.3**		µg/l	4.72	47.2	BRL	45	40-140	4	20
Bis(2-ethylhexyl)phthalate	**37.6**		µg/l	4.72	47.2	2.67	74	40-140	6	20
4-Bromophenyl phenyl ether	**22.0**		µg/l	4.72	47.2	BRL	47	40-140	0.3	20
Butyl benzyl phthalate	**35.3**		µg/l	4.72	47.2	BRL	75	40-140	3	20
Carbazole	**53.8**		µg/l	4.72	47.2	BRL	114	40-140	3	20
4-Chloro-3-methylphenol	**23.2**		µg/l	4.72	47.2	BRL	49	30-130	0.4	20
4-Chloroaniline	**19.4**		µg/l	4.72	47.2	BRL	41	40-140	14	20
2-Chloronaphthalene	**27.2**		µg/l	4.72	47.2	BRL	58	40-140	1	20
2-Chlorophenol	**22.4**		µg/l	4.72	47.2	BRL	48	30-130	4	20
4-Chlorophenyl phenyl ether	**21.6**		µg/l	4.72	47.2	BRL	46	40-140	3	20
Chrysene	**33.3**		µg/l	4.72	47.2	BRL	71	40-140	1	20
Dibenzo (a,h) anthracene	**30.4**		µg/l	4.72	47.2	BRL	64	40-140	2	20
Dibenzofuran	**25.9**		µg/l	4.72	47.2	BRL	55	40-140	4	20
1,2-Dichlorobenzene	**28.5**		µg/l	4.72	47.2	BRL	61	40-140	3	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
Matrix Spike Dup (1812441-MSD1)			**Source: SC50148-03**		Prepared: 13-Sep-18 Analyzed: 20-Sep-18					
1,3-Dichlorobenzene	**26.6**		µg/l	4.72	47.2	BRL	56	40-140	4	20
1,4-Dichlorobenzene	**27.3**		µg/l	4.72	47.2	BRL	58	40-140	3	20
3,3´-Dichlorobenzidine	**20.4**		µg/l	4.72	47.2	BRL	43	40-140	2	20
2,4-Dichlorophenol	**21.4**		µg/l	4.72	47.2	BRL	45	30-130	4	20
Diethyl phthalate	**22.5**		µg/l	4.72	47.2	BRL	48	40-140	2	20
Dimethyl phthalate	**23.1**		µg/l	4.72	47.2	BRL	49	40-140	3	20
2,4-Dimethylphenol	**27.8**		µg/l	4.72	47.2	BRL	59	30-130	8	20
Di-n-butyl phthalate	**23.3**		µg/l	4.72	47.2	BRL	49	40-140	1	20
4,6-Dinitro-2-methylphenol	**14.4**		µg/l	4.72	47.2	BRL	31	30-130	7	20
2,4-Dinitrophenol	**8.64**		µg/l	4.72	47.2	BRL	18	30-130	1	20
2,4-Dinitrotoluene	**30.0**		µg/l	4.72	47.2	BRL	64	40-140	2	20
2,6-Dinitrotoluene	**29.6**		µg/l	4.72	47.2	BRL	63	40-140	2	20
Di-n-octyl phthalate	**43.3**		µg/l	4.72	47.2	BRL	92	40-140	5	20
Fluoranthene	**22.5**		µg/l	4.72	47.2	BRL	48	40-140	3	20
Fluorene	**22.7**		µg/l	4.72	47.2	BRL	48	40-140	3	20
Hexachlorobenzene	**28.0**		µg/l	4.72	47.2	BRL	59	40-140	2	20
Hexachlorobutadiene	**25.0**		µg/l	4.72	47.2	BRL	53	40-140	2	20
Hexachlorocyclopentadiene	**18.3**	QC2	µg/l	4.72	47.2	BRL	39	40-140	1	20
Hexachloroethane	**26.9**	QR9	µg/l	4.72	47.2	BRL	57	40-140	60	20
Indeno (1,2,3-cd) pyrene	**28.2**		µg/l	4.72	47.2	BRL	60	40-140	1	20
Isophorone	**22.5**		µg/l	4.72	47.2	BRL	48	30-130	3	20
2-Methylnaphthalene	**37.3**		µg/l	4.72	47.2	11.2	55	40-140	4	20
2-Methylphenol	**20.9**		µg/l	4.72	47.2	BRL	44	30-130	5	20
3 & 4-Methylphenol	**20.0**		µg/l	9.43	47.2	BRL	42	30-130	2	20
Naphthalene	**65.0**		µg/l	4.72	47.2	38.1	57	40-140	9	20
2-Nitroaniline	**24.7**		µg/l	4.72	47.2	BRL	52	40-140	0.5	20
3-Nitroaniline	**34.0**		µg/l	4.72	47.2	BRL	72	40-140	2	20
4-Nitroaniline	**29.3**		µg/l	4.72	47.2	BRL	62	40-140	1	20
Nitrobenzene	**47.8**		µg/l	4.72	47.2	BRL	101	40-140	5	20
2-Nitrophenol	**22.8**		µg/l	4.72	47.2	BRL	48	30-130	0.9	20
4-Nitrophenol	**11.1**	QC2, J	µg/l	18.9	47.2	BRL	23	30-130	3	20
N-Nitrosodimethylamine	**15.3**	QC2	µg/l	4.72	47.2	BRL	32	40-140	1	20
N-Nitrosodi-n-propylamine	**25.0**		µg/l	4.72	47.2	BRL	53	40-140	5	20
N-Nitrosodiphenylamine	**27.8**		µg/l	4.72	47.2	BRL	59	40-140	0.3	20
Pentachlorophenol	**18.6**	J	µg/l	18.9	47.2	BRL	39	30-130	2	20
Phenanthrene	**23.3**		µg/l	4.72	47.2	BRL	49	40-140	2	20
Phenol	**9.54**	QC2	µg/l	4.72	47.2	BRL	20	30-130	0.5	20
Pyrene	**35.6**		µg/l	4.72	47.2	BRL	76	40-140	3	20
Pyridine	**19.1**		µg/l	4.72	47.2	BRL	41	40-140	1	20
1,2,4-Trichlorobenzene	**26.3**		µg/l	4.72	47.2	BRL	56	40-140	3	20
1-Methylnaphthalene	**39.5**		µg/l	4.72	47.2	15.0	52	40-140	2	20
2,4,5-Trichlorophenol	**23.3**		µg/l	4.72	47.2	BRL	49	30-130	0.07	20
2,4,6-Trichlorophenol	**21.5**		µg/l	4.72	47.2	BRL	46	30-130	1	20
Pentachloronitrobenzene	**25.7**		µg/l	4.72	47.2	BRL	54	40-140	0.2	20
1,2,4,5-Tetrachlorobenzene	**22.5**		µg/l	4.72	47.2	BRL	48	40-140	0.4	20
Surrogate: 2-Fluorobiphenyl	*26.1*		µg/l		*47.2*		*55*	*30-130*		
Surrogate: 2-Fluorophenol	*18.1*		µg/l		*47.2*		*38*	*15-110*		
Surrogate: Nitrobenzene-d5	*30.7*		µg/l		*47.2*		*65*	*30-130*		
Surrogate: Phenol-d5	*11.3*		µg/l		*47.2*		*24*	*15-110*		
Surrogate: Terphenyl-dl4	*43.4*		µg/l		*47.2*		*92*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1812441 - SW846 3510C										
Matrix Spike Dup (1812441-MSD1)			**Source: SC50148-03**			Prepared: 13-Sep-18 Analyzed: 20-Sep-18				
Surrogate: 2,4,6-Tribromophenol	*30.8*		µg/l		*47.2*		*65*	*15-110*		
SW846 8270D TICS										
Batch 1812395 - SW846 3510C										
Blank (1812395-BLK1)						Prepared: 12-Sep-18 Analyzed: 17-Sep-18				
Tentatively Identified Compounds	**0.0**	U	µg/l							
Batch 1812441 - SW846 3510C										
Blank (1812441-BLK1)						Prepared: 13-Sep-18 Analyzed: 17-Sep-18				
Tentatively Identified Compounds	**None found**		µg/l							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1812528 - SW846 3005A										
Blank (1812528-BLK1)					Prepared: 17-Sep-18 Analyzed: 19-Sep-18					
Manganese	< 0.0040	U	mg/l	0.0040						
Potassium	< 0.500	U	mg/l	0.500						
Arsenic	< 0.00400	U	mg/l	0.00400						
Zinc	**0.0023**	J	mg/l	0.0250						
Vanadium	< 0.0050	U	mg/l	0.0050						
Thallium	< 0.0050	U	mg/l	0.0050						
Selenium	< 0.0150	U	mg/l	0.0150						
Antimony	< 0.0060	U	mg/l	0.0060						
Lead	< 0.0075	U	mg/l	0.0075						
Chromium	**0.0009**	J	mg/l	0.0050						
Cobalt	< 0.0050	U	mg/l	0.0050						
Cadmium	< 0.0025	U	mg/l	0.0025						
Barium	< 0.0050	U	mg/l	0.0050						
Aluminum	< 0.0250	U	mg/l	0.0250						
Silver	< 0.0050	U	mg/l	0.0050						
Beryllium	< 0.0020	U	mg/l	0.0020						
Nickel	< 0.0050	U	mg/l	0.0050						
Blank (1812528-BLK2)					Prepared: 17-Sep-18 Analyzed: 21-Sep-18					
Sodium	**0.181**	J	mg/l	0.750						
Calcium	**0.0088**	J	mg/l	0.100						
Magnesium	< 5.00	U	mg/l	5.00						
Blank (1812528-BLK3)					Prepared: 17-Sep-18 Analyzed: 25-Sep-18					
Iron	**0.0115**	J	mg/l	1.00						
Copper	< 0.0050	U	mg/l	0.0050						
LCS (1812528-BS1)					Prepared: 17-Sep-18 Analyzed: 19-Sep-18					
Manganese	**1.38**		mg/l	0.0040	1.25		110	85-115		
Potassium	**12.6**		mg/l	0.500	12.5		100	85-115		
Vanadium	**1.35**		mg/l	0.0050	1.25		108	85-115		
Thallium	**1.32**		mg/l	0.0050	1.25		105	85-115		
Selenium	**1.41**		mg/l	0.0150	1.25		113	85-115		
Antimony	**1.37**		mg/l	0.0060	1.25		110	85-115		
Lead	**1.38**		mg/l	0.0075	1.25		111	85-115		
Nickel	**1.36**		mg/l	0.0050	1.25		109	85-115		
Zinc	**1.31**		mg/l	0.0250	1.25		105	85-115		
Cadmium	**1.33**		mg/l	0.0025	1.25		106	85-115		
Beryllium	**1.47**	QC2	mg/l	0.0020	1.25		117	85-115		
Barium	**1.40**		mg/l	0.0050	1.25		112	85-115		
Arsenic	**1.314**		mg/l	0.00400	1.25		105	85-115		
Aluminum	**1.38**		mg/l	0.0250	1.25		111	85-115		
Silver	**1.30**		mg/l	0.0050	1.25		104	85-115		
Cobalt	**1.34**		mg/l	0.0050	1.25		107	85-115		
Chromium	**1.34**		mg/l	0.0050	1.25		107	85-115		
LCS (1812528-BS2)					Prepared: 17-Sep-18 Analyzed: 21-Sep-18					
Sodium	**6.60**		mg/l	0.750	6.25		106	85-115		
Calcium	**6.92**		mg/l	0.100	6.25		111	85-115		
Magnesium	**1.35**	J	mg/l	5.00	1.25		108	85-115		
LCS (1812528-BS3)					Prepared: 17-Sep-18 Analyzed: 25-Sep-18					
Iron	**1.37**		mg/l	1.00	1.25		110	85-115		
Copper	**1.43**		mg/l	0.0050	1.25		115	85-115		
LCS Dup (1812528-BSD1)					Prepared: 17-Sep-18 Analyzed: 19-Sep-18					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1812528 - SW846 3005A										
LCS Dup (1812528-BSD1)					Prepared: 17-Sep-18 Analyzed: 19-Sep-18					
Potassium	**11.8**		mg/l	0.500	12.5		94	85-115	7	20
Manganese	**1.29**		mg/l	0.0040	1.25		103	85-115	7	20
Antimony	**1.27**		mg/l	0.0060	1.25		101	85-115	8	20
Barium	**1.31**		mg/l	0.0050	1.25		105	85-115	7	20
Zinc	**1.21**		mg/l	0.0250	1.25		97	85-115	8	20
Lead	**1.29**		mg/l	0.0075	1.25		103	85-115	7	20
Vanadium	**1.27**		mg/l	0.0050	1.25		102	85-115	6	20
Thallium	**1.23**		mg/l	0.0050	1.25		98	85-115	7	20
Selenium	**1.31**		mg/l	0.0150	1.25		105	85-115	7	20
Silver	**1.21**		mg/l	0.0050	1.25		97	85-115	7	20
Arsenic	**1.220**		mg/l	0.00400	1.25		98	85-115	7	20
Beryllium	**1.36**		mg/l	0.0020	1.25		109	85-115	7	20
Cadmium	**1.24**		mg/l	0.0025	1.25		99	85-115	7	20
Cobalt	**1.23**		mg/l	0.0050	1.25		98	85-115	8	20
Chromium	**1.22**		mg/l	0.0050	1.25		98	85-115	9	20
Nickel	**1.25**		mg/l	0.0050	1.25		100	85-115	9	20
Aluminum	**1.24**		mg/l	0.0250	1.25		100	85-115	10	20
LCS Dup (1812528-BSD2)					Prepared: 17-Sep-18 Analyzed: 21-Sep-18					
Sodium	**6.79**		mg/l	0.750	6.25		109	85-115	3	20
Calcium	**7.06**		mg/l	0.100	6.25		113	85-115	2	20
Magnesium	**1.36**	J	mg/l	5.00	1.25		109	85-115	0.4	20
LCS Dup (1812528-BSD3)					Prepared: 17-Sep-18 Analyzed: 25-Sep-18					
Iron	**1.40**		mg/l	1.00	1.25		112	85-115	2	20
Copper	**1.38**		mg/l	0.0050	1.25		111	85-115	4	20
Duplicate (1812528-DUP1)			**Source: SC50148-03**		Prepared: 17-Sep-18 Analyzed: 19-Sep-18					
Potassium	**9.36**		mg/l	0.500		9.14			2	20
Manganese	**0.616**		mg/l	0.0040		0.591			4	20
Lead	**0.0118**		mg/l	0.0075		0.0122			4	20
Zinc	**0.0027**	J	mg/l	0.0250		0.0032			17	20
Vanadium	< 0.0050	U	mg/l	0.0050		BRL				20
Thallium	< 0.0050	U	mg/l	0.0050		BRL				20
Antimony	< 0.0060	U	mg/l	0.0060		BRL				20
Nickel	< 0.0050	U	mg/l	0.0050		BRL				20
Chromium	< 0.0050	U	mg/l	0.0050		BRL				20
Cobalt	< 0.0050	U	mg/l	0.0050		BRL				20
Cadmium	< 0.0025	U	mg/l	0.0025		BRL				20
Beryllium	< 0.0020	U	mg/l	0.0020		BRL				20
Barium	**0.828**		mg/l	0.0050		0.800			3	20
Arsenic	**0.0064**	QR8	mg/l	0.00400		0.0038			52	20
Aluminum	**0.0139**	J	mg/l	0.0250		0.0150			7	20
Silver	< 0.0050	U	mg/l	0.0050		BRL				20
Selenium	< 0.0150	U	mg/l	0.0150		BRL				20
Duplicate (1812528-DUP2)			**Source: SC50148-03**		Prepared: 17-Sep-18 Analyzed: 21-Sep-18					
Sodium	**366**	GS1, D	mg/l	3.75		371			1	20
Magnesium	**33.0**	R06	mg/l	5.00		33.4			1	20
Calcium	**248**	GS1, D	mg/l	0.500		256			3	20
Duplicate (1812528-DUP3)			**Source: SC50148-03**		Prepared: 17-Sep-18 Analyzed: 25-Sep-18					
Iron	**4.87**	R06	mg/l	1.00		5.04			3	20
Copper	< 0.0050	U	mg/l	0.0050		BRL				20
Matrix Spike (1812528-MS1)			**Source: SC50148-03**		Prepared: 17-Sep-18 Analyzed: 19-Sep-18					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1812528 - SW846 3005A										
Matrix Spike (1812528-MS1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 19-Sep-18				
Manganese	**1.68**		mg/l	0.0040	1.25	0.591	87	75-125		
Potassium	**19.9**		mg/l	0.500	12.5	9.14	86	75-125		
Cobalt	**1.08**		mg/l	0.0050	1.25	BRL	87	75-125		
Antimony	**1.28**		mg/l	0.0060	1.25	BRL	103	75-125		
Selenium	**1.32**		mg/l	0.0150	1.25	BRL	106	75-125		
Thallium	**1.10**		mg/l	0.0050	1.25	BRL	88	75-125		
Vanadium	**1.18**		mg/l	0.0050	1.25	BRL	95	70-130		
Zinc	**1.07**		mg/l	0.0250	1.25	0.0032	85	75-125		
Nickel	**1.09**		mg/l	0.0050	1.25	BRL	87	75-125		
Chromium	**1.08**		mg/l	0.0050	1.25	BRL	87	75-125		
Lead	**1.17**		mg/l	0.0075	1.25	0.0122	93	75-125		
Cadmium	**1.12**		mg/l	0.0025	1.25	BRL	90	75-125		
Silver	**1.28**		mg/l	0.0050	1.25	BRL	102	75-125		
Aluminum	**1.33**		mg/l	0.0250	1.25	0.0150	105	75-125		
Arsenic	**1.216**		mg/l	0.00400	1.25	0.0038	97	75-125		
Barium	**1.90**		mg/l	0.0050	1.25	0.800	88	75-125		
Beryllium	**1.26**		mg/l	0.0020	1.25	BRL	101	75-125		
Matrix Spike (1812528-MS2)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 21-Sep-18				
Sodium	**377**	D	mg/l	3.75	6.25	371	100	75-125		
Calcium	**276**	QM2, D	mg/l	0.500	6.25	256	304	75-125		
Magnesium	**36.0**	QM2	mg/l	5.00	1.25	33.4	207	75-125		
Matrix Spike (1812528-MS3)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 25-Sep-18				
Iron	**6.28**		mg/l	1.00	1.25	5.04	99	75-125		
Copper	**1.51**		mg/l	0.0050	1.25	BRL	121	75-125		
Matrix Spike Dup (1812528-MSD1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 19-Sep-18				
Manganese	**1.77**		mg/l	0.0040	1.25	0.591	94	75-125	5	20
Potassium	**21.0**		mg/l	0.500	12.5	9.14	95	75-125	6	20
Chromium	**1.12**		mg/l	0.0050	1.25	BRL	90	75-125	4	20
Nickel	**1.13**		mg/l	0.0050	1.25	BRL	90	75-125	3	20
Cobalt	**1.13**		mg/l	0.0050	1.25	BRL	90	75-125	4	20
Antimony	**1.32**		mg/l	0.0060	1.25	BRL	106	75-125	3	20
Selenium	**1.37**		mg/l	0.0150	1.25	BRL	110	75-125	4	20
Thallium	**1.15**		mg/l	0.0050	1.25	BRL	92	75-125	4	20
Zinc	**1.11**		mg/l	0.0250	1.25	0.0032	89	75-125	4	20
Lead	**1.20**		mg/l	0.0075	1.25	0.0122	95	75-125	3	20
Beryllium	**1.31**		mg/l	0.0020	1.25	BRL	105	75-125	4	20
Barium	**1.95**		mg/l	0.0050	1.25	0.800	92	75-125	2	20
Arsenic	**1.276**		mg/l	0.00400	1.25	0.0038	102	75-125	5	20
Aluminum	**1.42**		mg/l	0.0250	1.25	0.0150	112	75-125	7	20
Silver	**1.30**		mg/l	0.0050	1.25	BRL	104	75-125	1	20
Vanadium	**1.22**		mg/l	0.0050	1.25	BRL	98	70-130	3	20
Cadmium	**1.15**		mg/l	0.0025	1.25	BRL	92	75-125	3	20
Matrix Spike Dup (1812528-MSD2)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 21-Sep-18				
Sodium	**344**	QM2, D	mg/l	3.75	6.25	371	-424	75-125	9	20
Calcium	**276**	QM2, D	mg/l	0.500	6.25	256	308	75-125	0.09	20
Magnesium	**35.9**	QM2	mg/l	5.00	1.25	33.4	202	75-125	0.2	20
Matrix Spike Dup (1812528-MSD3)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 25-Sep-18				
Iron	**6.16**		mg/l	1.00	1.25	5.04	89	75-125	2	20
Copper	**1.47**		mg/l	0.0050	1.25	BRL	117	75-125	3	20
Post Spike (1812528-PS1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 19-Sep-18				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1812528 - SW846 3005A										
Post Spike (1812528-PS1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 19-Sep-18				
Potassium	**22.2**		mg/l	0.500	12.5	9.14	105	80-120		
Manganese	**1.90**		mg/l	0.0040	1.25	0.591	105	80-120		
Nickel	**1.22**		mg/l	0.0050	1.25	BRL	97	80-120		
Chromium	**1.19**		mg/l	0.0050	1.25	BRL	95	80-120		
Antimony	**1.43**		mg/l	0.0060	1.25	BRL	114	80-120		
Arsenic	**1.349**		mg/l	0.00400	1.25	0.0038	108	80-120		
Selenium	**1.48**		mg/l	0.0150	1.25	BRL	118	80-120		
Thallium	**1.15**		mg/l	0.0050	1.25	BRL	92	80-120		
Vanadium	**1.33**		mg/l	0.0050	1.25	BRL	106	80-120		
Zinc	**1.17**		mg/l	0.0250	1.25	0.0032	93	80-120		
Lead	**1.29**		mg/l	0.0075	1.25	0.0122	102	80-120		
Cadmium	**1.22**		mg/l	0.0025	1.25	BRL	98	80-120		
Barium	**2.07**		mg/l	0.0050	1.25	0.800	102	80-120		
Aluminum	**1.45**		mg/l	0.0250	1.25	0.0150	115	80-120		
Silver	**1.38**		mg/l	0.0050	1.25	BRL	110	80-120		
Cobalt	**1.21**		mg/l	0.0050	1.25	BRL	97	80-120		
Beryllium	**1.41**		mg/l	0.0020	1.25	BRL	113	80-120		
Post Spike (1812528-PS2)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 22-Sep-18				
Sodium	**337**	QM2, D	mg/l	3.75	6.25	371	-544	80-120		
Calcium	**262**	D	mg/l	0.500	6.25	256	80	80-120		
Magnesium	**35.3**	QM2	mg/l	5.00	1.25	33.4	151	80-120		
Post Spike (1812528-PS3)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 25-Sep-18				
Iron	**5.90**	QM4X	mg/l	1.00	1.25	5.04	69	80-120		
Copper	**1.45**		mg/l	0.0050	1.25	BRL	116	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA 245.1/7470A										
Batch 1812530 - EPA200/SW7000 Series										
Blank (1812530-BLK1)						Prepared: 17-Sep-18 Analyzed: 18-Sep-18				
Mercury	< 0.00020	U	mg/l	0.00020						
LCS (1812530-BS1)						Prepared: 17-Sep-18 Analyzed: 18-Sep-18				
Mercury	**0.00489**		mg/l	0.00020	0.00500		98	85-115		
Duplicate (1812530-DUP1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 18-Sep-18				
Mercury	< 0.00020	U	mg/l	0.00020		BRL				20
Matrix Spike (1812530-MS1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 18-Sep-18				
Mercury	**0.00515**		mg/l	0.00020	0.00500	BRL	103	80-120		
Matrix Spike Dup (1812530-MSD1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 18-Sep-18				
Mercury	**0.00519**		mg/l	0.00020	0.00500	BRL	104	80-120	0.7	20
Post Spike (1812530-PS1)			**Source: SC50148-03**			Prepared: 17-Sep-18 Analyzed: 18-Sep-18				
Mercury	**0.00522**		mg/l	0.00020	0.00500	BRL	104	85-115		

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J N	(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.
QC1	Analyte out of acceptance range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QC6	Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM4X	The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R06	MRL raised to correlate to batch QC reporting 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.

SC 50148

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- [x] 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: AECC
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECC
Check@aecgroup.com

P.O No.: _____ Quote #: _____

Project No: 18-051
Site Name: 700 Out Parcel
Location: Syracuse State: NY
Sampler(s): Rich McKenna
Hayden Haas

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Composite

List Preservative Code below: 2 | 4

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 TCL VOCs	Analysis: 8270 TCL SVOCs	TAL METALS 6010/7470	Check if chlorinated	QA/QC Reporting Notes: * additional charges may appply
SC50148-01	MW-05	9-6-18	1220	G	GW	3	1		1	X	X	X	☐	
02	MW-07	9-6-18	1053	G	GW	3	1		1	X	X	X	☐	
03	MW-08	9-7-18	1258	G	GW	9	3		3	X	X	X	☐	MS/MSD
04	MW-09	9-7-18	1230	G	GW	3	1		1	X	X	X	☐	
05	MW-D	9-7-18	—	G	GW	3	1		1	X	X	X	☐	
06	TRIP BLANK	—	—	—	—	2				X			☐	
													☐	
													☐	
													☐	
													☐	
													☐	

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

Relinquished by:	Received by:	Date:	Time:	Temp °C
Hayden Haas	Sample holding	9-6-18	1630	Observed 2.1
Hayden Haas	Sample holding	9-7-18	1420	Correction Factor 0
AECC SAMPLE HOLDING	M D McKenna	9/7/18	1445	Corrected 2.1
M D McKenna	FED EX Staffed	9/7/18	1622	IR ID # 1
Fedex		9/8/18	11:00	

☒ EDD format: EXCEL, PDF
☒ E-mail to: rmckenna@aecgroup.com
dbrantner@aecgroup.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

ORIGIN ID:SYRA (315) 382-7727
ASBESTOS & ENVIRONMENTAL CONSU

6308 FLY RD

EAST SYRACUSE, NY 130579325
UNITED STATES US

SHIP DATE: 07SEP18
ACTWGT: 53.40 LB
CAD: /POS1904
DIMS: 24x15x13 IN

BILL SENDER

Part # 156297-435 RRDW EXP 07/19

TO SAMPLE RECEIVING
EURPFONS SPECTRUM ANALYTICAL,
11 ALMGREN DR

AGAWAM MA 01001
(413) 789-9018
INV:
PO:
REF:
DEPT:

FedEx
Express

E

J181118012301uv

TRK# 0215 8121 8970 3641

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO EHTA

01001
MA-US BDL

RT 956 2 B
12:00 3641
09.08
ST 7

Align Open End of FedEx Pouch Here

Batch Summary

1812341

Total Metals by EPA 200/6000 Series Methods

SC50148-01 (MW-05)
SC50148-02 (MW-07)
SC50148-03 (MW-08)
SC50148-04 (MW-09)
SC50148-05 (MW-D)

1812395

Semivolatile Organic Compounds by GCMS

1812395-BLK1
1812395-BS1
1812395-BSD1
SC50148-01 (MW-05)
SC50148-02 (MW-07)

1812441

Semivolatile Organic Compounds by GCMS

1812441-BLK1
1812441-BS1
1812441-BSD1
1812441-MS1
1812441-MSD1
SC50148-03 (MW-08)
SC50148-04 (MW-09)
SC50148-05 (MW-D)

1812528

Total Metals by EPA 6000/7000 Series Methods

1812528-BLK1
1812528-BLK2
1812528-BLK3
1812528-BS1
1812528-BS2
1812528-BS3
1812528-BSD1
1812528-BSD2
1812528-BSD3
1812528-DUP1
1812528-DUP2
1812528-DUP3
1812528-MS1
1812528-MS2
1812528-MS3
1812528-MSD1
1812528-MSD2
1812528-MSD3
1812528-PS1
1812528-PS2
1812528-PS3
SC50148-01 (MW-05)
SC50148-02 (MW-07)
SC50148-03 (MW-08)
SC50148-04 (MW-09)
SC50148-05 (MW-D)

1812530

Total Metals by EPA 200 Series Methods

1812530-BLK1
1812530-BS1
1812530-DUP1
1812530-MS1
1812530-MSD1
1812530-PS1
SC50148-01 (MW-05)
SC50148-02 (MW-07)
SC50148-03 (MW-08)
SC50148-04 (MW-09)
SC50148-05 (MW-D)

1812693

Volatile Organic Compounds

1812693-BLK1
1812693-BS1
1812693-BSD1
1812693-MS1
1812693-MSD1
SC50148-01 (MW-05)
SC50148-02 (MW-07)
SC50148-03 (MW-08)

1812696

Volatile Organic Compounds

1812696-BLK1
1812696-BS1
1812696-BSD1
SC50148-04 (MW-09)
SC50148-05 (MW-D)
SC50148-06 (Trip Blank)

S820548

Volatile Organic Compounds

S820548-CAL1
S820548-CAL2
S820548-CAL3
S820548-CAL4
S820548-CAL5
S820548-CAL6
S820548-CAL7
S820548-CAL8
S820548-CAL9
S820548-ICV1
S820548-LCV1
S820548-LCV2
S820548-TUN1

S821565

Semivolatile Organic Compounds by GCMS

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

S822130

Semivolatile Organic Compounds by GCMS

S822130-CCV1
S822130-TUN1

S822148

Semivolatile Organic Compounds by GCMS

S822148-CCV1
S822148-TUN1

S822171

Volatile Organic Compounds

S822171-CCV1
S822171-TUN1

S822172

Volatile Organic Compounds

S822172-CCV1
S822172-TUN1

S822214

Semivolatile Organic Compounds by GCMS

S822214-CCV1
S822214-TUN1

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☑ Final Report
☐ Revised Report

Report Date:
27-Dec-18 14:14

Laboratory Report
SC52429

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 700 Out Parcel - Syracuse, NY
Project #: 18-051

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

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

Authorized by:

Christina White
Technical Director

Christina A. White

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

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

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

Sample Summary

Work Order: SC52429

Project: 700 Out Parcel - Syracuse, NY

Project Number: 18-051

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC52429-01	MW-05	Ground Water	05-Dec-18 11:14	06-Dec-18 10:47
SC52429-02	MW-07	Ground Water	05-Dec-18 12:16	06-Dec-18 10:47
SC52429-03	MW-08	Ground Water	05-Dec-18 14:47	06-Dec-18 10:47
SC52429-04	MW-09	Ground Water	05-Dec-18 13:43	06-Dec-18 10:47
SC52429-05	MW-D	Ground Water	05-Dec-18 00:00	06-Dec-18 10:47
SC52429-06	Trip Blank	Trip Blank	05-Dec-18 00:00	06-Dec-18 10:47

CASE NARRATIVE:

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

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

The samples were received 1.2 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.

SW-846 6010C

Blanks:

P34404EB344404405

Estimated value

- Calcium
- Iron
- Magnesium
- Manganese
- Zinc

P34404FB344404406

Estimated value

- Calcium
- Iron
- Magnesium
- Manganese

Samples:

SC52429-01 *MW-05*

Estimated value

- Copper
- Iron
- Manganese
- Vanadium
- Zinc

SC52429-04 *MW-09*

Estimated value

- Zinc

SC52429-05 *MW-D*

Estimated value

- Zinc

SW-846 8260C

Laboratory Control Samples:

LCSL22QL183491AA

SW-846 8260C

Laboratory Control Samples:

LCSL22QL183491AA

Estimated value

Ethanol

LCSL29QL183513AA

Estimated value

Ethanol

Spikes:

9929801 *Source: SC52429-02*

Estimated value

Ethanol

9929802 *Source: SC52429-02*

Estimated value

Ethanol

Samples:

SC52429-03 *MW-08*

Estimated value

2-Butanone
2-Chlorotoluene
Benzene, 1,2,3-trimethyl-
Benzene, 1-ethyl-2-methyl-
Benzene, 1-ethyl-3-methyl-
Benzene, 2-ethenyl-1,4-dimet
Benzene, 2-ethyl-1,4-dimethy
Butane, 2-methyl-
Cyclohexane
Cyclohexane, methyl-
Cyclopentane, methyl-
n-Butylbenzene
Pentane
Pentane, 2-methyl-
Pentane, 3-methyl-
p-Isopropyltoluene
sec-Butylbenzene
tert-Butylbenzene
Total VOC TICs
Unknown
Unknown aromatic

SC52429-04 *MW-09*

SW-846 8260C

Samples:

SC52429-04 *MW-09*

Estimated value

Acetone
Benzene
Benzene, (2-methyl-1-butenyl
Benzene, 1,2,4,5-tetramethyl
Benzene, 1,3-diethyl-
Bicyclo[3.2.1]octane
Cyclohexane, 1,2-dimethyl-,
Indan, 1-methyl-
Isopropylbenzene
Isopropylcyclobutane
n-Butylbenzene
n-Propylbenzene
Pentalene, octahydro-
Pentane, 2,3,3-trimethyl-
Pentane, 2,3-dimethyl-
p-Isopropyltoluene
sec-Butylbenzene
tert-Butylbenzene
Total VOC TICs
Unknown1
Unknown2
Unknown3
Unknown4

Estimated value - Defined in case narrative (X)

Indan, 1-methyl-

SC52429-05 *MW-D*

Estimated value

1H-Indene, 2,3-dihydro-1,2-d
Acetone
Benzene
Benzene, 1,2,4,5-tetramethyl
Benzene, 1,3-diethyl-
Bicyclo[3.2.1]octane
Cyclohexane, 1,2-dimethyl-,
Cyclopentane, 1,2-dimethyl-,
Indan, 1-methyl-
Isopropylbenzene
n-Butylbenzene
n-Propylbenzene
Pentalene, octahydro-, cis-
Pentane, 2,3,3-trimethyl-
Pentane, 2,3-dimethyl-
p-Isopropyltoluene
sec-Butylbenzene
tert-Butylbenzene
Total VOC TICs
Unknown1
Unknown2
Unknown3
Unknown4
Unknown5

SW-846 8260C

Samples:

SC52429-05 *MW-D*

Estimated value - Defined in case narrative (X)

Benzene, 1,3-diethyl-

LCSL29YL183513AA

Estimated value

Ethanol

SW-846 8270D

Laboratory Control Samples:

P5WULCSQ345WAU02

Estimated value

4-Nitrophenol
Benzidine

Spikes:

9929801 *Source: SC52429-02*

Estimated value

4-Nitrophenol
Pentachloronitrobenzene

9929802 *Source: SC52429-02*

Estimated value

4-Nitrophenol

Samples:

SC52429-01 *MW-05*

Estimated value

Total SVOC TICs
Unknown

Estimated value - Detected in blank

Total SVOC TICs
Unknown

SC52429-02 *MW-07*

Estimated value

Total SVOC TICs
Unknown

Estimated value - Detected in blank

Total SVOC TICs
Unknown

SC52429-03 *MW-08*

SW-846 8270D

Samples:

SC52429-03 *MW-08*

Estimated value

Acenaphthene
Benzene, 1,3-dimethyl-
Fluorene
Total SVOC TICs

SC52429-04 *MW-09*

Estimated value

Total SVOC TICs
Unknown

SC52429-05 *MW-D*

Estimated value

Total SVOC TICs
Unknown

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	700 Out Parcel - Syracuse, NY / 18-051
Work Order:	SC52429
Sample(s) received on:	12/6/2018

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

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

Summary of Hits

Lab ID: SC52429-01 **Client ID:** MW-05

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.103		0.0050	mg/l	SW-846 6010C
Calcium	91.9		0.500	mg/l	SW-846 6010C
Copper	0.0064	J.	0.0200	mg/l	SW-846 6010C
Iron	0.103	J.	0.200	mg/l	SW-846 6010C
Magnesium	11.8		0.100	mg/l	SW-846 6010C
Manganese	0.0017	J.	0.0200	mg/l	SW-846 6010C
Potassium	4.60		0.500	mg/l	SW-846 6010C
Sodium	428		5.00	mg/l	SW-846 6010C
Vanadium	0.0032	J.	0.0100	mg/l	SW-846 6010C
Zinc	0.0087	J.	0.0200	mg/l	SW-846 6010C

Lab ID: SC52429-02 **Client ID:** MW-07

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.536		0.0050	mg/l	SW-846 6010C
Calcium	249		0.500	mg/l	SW-846 6010C
Iron	0.249		0.200	mg/l	SW-846 6010C
Magnesium	36.8		0.100	mg/l	SW-846 6010C
Manganese	0.0257		0.0200	mg/l	SW-846 6010C
Potassium	12.0		0.500	mg/l	SW-846 6010C
Sodium	401		1.00	mg/l	SW-846 6010C

Lab ID: SC52429-03 **Client ID:** MW-08

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.479		0.0050	mg/l	SW-846 6010C
Calcium	259		0.500	mg/l	SW-846 6010C
Iron	11.0		0.200	mg/l	SW-846 6010C
Magnesium	33.8		0.100	mg/l	SW-846 6010C
Manganese	1.43		0.0200	mg/l	SW-846 6010C
Potassium	10.9		0.500	mg/l	SW-846 6010C
Sodium	64.1		1.00	mg/l	SW-846 6010C
1,2,4-Trimethylbenzene	340		10	ug/l	SW-846 8260C
1,3,5-Trimethylbenzene	110		10	ug/l	SW-846 8260C
2-Butanone	11	J.	20	ug/l	SW-846 8260C
2-Chlorotoluene	0.4	J.	10	ug/l	SW-846 8260C
Ethylbenzene	160		2	ug/l	SW-846 8260C
Isopropylbenzene	18		10	ug/l	SW-846 8260C
m+p-Xylene	620		10	ug/l	SW-846 8260C
Naphthalene	48		10	ug/l	SW-846 8260C
n-Butylbenzene	8	J.	10	ug/l	SW-846 8260C
n-Propylbenzene	48		10	ug/l	SW-846 8260C
o-Xylene	110		2	ug/l	SW-846 8260C
p-Isopropyltoluene	3	J.	10	ug/l	SW-846 8260C
sec-Butylbenzene	4	J.	10	ug/l	SW-846 8260C
tert-Butylbenzene	0.7	J.	10	ug/l	SW-846 8260C
Toluene	15		2	ug/l	SW-846 8260C
1-Methylnaphthalene	8		0.5	ug/l	SW-846 8270D
2-Methylnaphthalene	16		0.5	ug/l	SW-846 8270D
Acenaphthene	0.2	J.	0.5	ug/l	SW-846 8270D
Fluorene	0.3	J.	0.5	ug/l	SW-846 8270D
Naphthalene	33		0.5	ug/l	SW-846 8270D

Lab ID: SC52429-04 **Client ID:** MW-09

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.370		0.0050	mg/l	SW-846 6010C
Calcium	225		0.500	mg/l	SW-846 6010C
Iron	1.12		0.200	mg/l	SW-846 6010C
Magnesium	29.1		0.100	mg/l	SW-846 6010C
Manganese	0.282		0.0200	mg/l	SW-846 6010C
Potassium	15.3		0.500	mg/l	SW-846 6010C
Sodium	350		1.00	mg/l	SW-846 6010C
Zinc	0.0046	J.	0.0200	mg/l	SW-846 6010C
Acetone	2	J.	20	ug/l	SW-846 8260C
Benzene	0.3	J.	1	ug/l	SW-846 8260C
Isopropylbenzene	1	J.	5	ug/l	SW-846 8260C
n-Butylbenzene	0.3	J.	5	ug/l	SW-846 8260C
n-Propylbenzene	2	J.	5	ug/l	SW-846 8260C
p-Isopropyltoluene	0.4	J.	5	ug/l	SW-846 8260C
sec-Butylbenzene	1	J.	5	ug/l	SW-846 8260C
tert-Butylbenzene	0.4	J.	5	ug/l	SW-846 8260C

Lab ID: SC52429-05 **Client ID:** MW-D

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	0.372		0.0050	mg/l	SW-846 6010C
Calcium	222		0.500	mg/l	SW-846 6010C
Iron	1.07		0.200	mg/l	SW-846 6010C
Magnesium	28.6		0.100	mg/l	SW-846 6010C
Manganese	0.276		0.0200	mg/l	SW-846 6010C
Potassium	15.0		0.500	mg/l	SW-846 6010C
Sodium	345		1.00	mg/l	SW-846 6010C
Zinc	0.0031	J.	0.0200	mg/l	SW-846 6010C
Acetone	2	J.	20	ug/l	SW-846 8260C
Benzene	0.3	J.	1	ug/l	SW-846 8260C
Isopropylbenzene	2	J.	5	ug/l	SW-846 8260C
n-Butylbenzene	0.4	J.	5	ug/l	SW-846 8260C
n-Propylbenzene	2	J.	5	ug/l	SW-846 8260C
p-Isopropyltoluene	0.5	J.	5	ug/l	SW-846 8260C
sec-Butylbenzene	1	J.	5	ug/l	SW-846 8260C
tert-Butylbenzene	0.4	J.	5	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	Client Project #	Matrix	Collection Date/Time	Received
MW-05 SC52429-01	18-051	Ground Water	05-Dec-18 11:14	06-Dec-18

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 3005A													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7429-90-5	Aluminum	< 0.300		mg/l	0.300	0.153	1	SW-846 6010C	13-Dec-18 15:40	14-Dec-18 20:20	NA	34414044	
7440-36-0	Antimony	< 0.0500		mg/l	0.0500	0.0100	1	"	"	"	"	"	
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	
7440-39-3	Barium	**0.103**		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-41-7	Beryllium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-70-2	Calcium	**91.9**		mg/l	0.500	0.0330	1	"	"	"	"	"	
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	
7440-48-4	Cobalt	< 0.0050		mg/l	0.0050	0.0015	1	"	"	"	"	"	
7440-50-8	Copper	**0.0064**	J.	mg/l	0.0200	0.0062	1	"	"	"	"	"	
7439-89-6	Iron	**0.103**	J.	mg/l	0.200	0.0400	1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	
7439-95-4	Magnesium	**11.8**		mg/l	0.100	0.0190	1	"	"	"	"	"	
7439-96-5	Manganese	**0.0017**	J.	mg/l	0.0200	0.0011	1	"	"	"	"	"	
7440-02-0	Nickel	< 0.0100		mg/l	0.0100	0.0031	1	"	"	"	"	"	
7440-09-7	Potassium	**4.60**		mg/l	0.500	0.203	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	"	"	"	"	"	
7440-23-5	Sodium	**428**		mg/l	5.00	1.63	5	"	"	"	"	"	
7440-28-0	Thallium	< 0.0300		mg/l	0.0300	0.0140	1	"	"	"	"	"	
7440-62-2	Vanadium	**0.0032**	J.	mg/l	0.0100	0.0030	1	"	"	"	"	"	
7440-66-6	Zinc	**0.0087**	J.	mg/l	0.0200	0.0030	1	"	"	"	"	"	
Prepared by method METHOD													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	14-Dec-18 09:10	15-Dec-18 07:46	NA	34505713	
Subcontracted Analyses Prepared by method SW-846 5030C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	15-Dec-18 15:40	15-Dec-18 15:41	NA	183491A/	
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	"	"	"	"	"	
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	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	05-Dec-18 11:14	06-Dec-18
SC52429-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	SW-846 8260C	15-Dec-18 15:40	15-Dec-18 15:41	NA	183491A	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 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	"	"	"	"	"	
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	"	"	"	"	"	
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	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	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	05-Dec-18 11:14	06-Dec-18
SC52429-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	SW-846 8260C	15-Dec-18 15:40	15-Dec-18 15:41	NA	183491A	
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	"	"	"	"	"	
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	"	"	"	"	"	
	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	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*80-120 %*			"	"	"	"	"	
460-00-4	*4-Bromofluorobenzene*	*97*			*80-120 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*80-120 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*94*			*80-120 %*			"	"	"	"	"	
Subcontracted Analyses Prepared by method SW-846 3510C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
92-52-4	1,1'-Biphenyl	< 2		ug/l	2	0.5	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 00:02	NA	345WAU0	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
122-66-7	1,2-Diphenylhydrazine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
90-12-0	1-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
58-90-2	2,3,4,6-Tetrachlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-83-2	2,4-Dichlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
105-67-9	2,4-Dimethylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
51-28-5	2,4-Dinitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05	18-051	Ground Water	05-Dec-18 11:14	06-Dec-18
SC52429-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
121-14-2	2,4-Dinitrotoluene	< 5		ug/l	5	1	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 00:02	NA	345WAU0	
606-20-2	2,6-Dinitrotoluene	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-58-7	2-Chloronaphthalene	< 1		ug/l	1	0.4	1	"	"	"	"	"	
95-57-8	2-Chlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
95-48-7	2-Methylphenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-74-4	2-Nitroaniline	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-75-5	2-Nitrophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	< 5		ug/l	5	2	1	"	"	"	"	"	
99-09-2	3-Nitroaniline	< 2		ug/l	2	0.5	1	"	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	< 14		ug/l	14	5	1	"	"	"	"	"	
101-55-3	4-Bromophenyl-phenyleth er	< 2		ug/l	2	0.5	1	"	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-47-8	4-Chloroaniline	< 5		ug/l	5	2	1	"	"	"	"	"	
7005-72-3	4-Chlorophenyl-phenyleth er	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-44-5	4-Methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
100-01-6	4-Nitroaniline	< 2		ug/l	2	0.6	1	"	"	"	"	"	
100-02-7	4-Nitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-86-2	Acetophenone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-53-3	Aniline	< 5		ug/l	5	1	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
1912-24-9	Atrazine	< 5		ug/l	5	2	1	"	"	"	"	"	
100-52-7	Benzaldehyde	< 5		ug/l	5	1	1	"	"	"	"	"	
92-87-5	Benzidine	< 58		ug/l	58	20	1	"	"	"	"	"	
56-55-3	Benzo(a)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
191-24-2	Benzo(g,h,i)perylene	< 0.5		ug/l	0.5	0.2	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
65-85-0	Benzoic acid	< 19		ug/l	19	8	1	"	"	"	"	"	
100-51-6	Benzyl alcohol	< 29		ug/l	29	10	1	"	"	"	"	"	
111-91-1	bis(2-Chloroethoxy)metha ne	< 2		ug/l	2	0.5	1	"	"	"	"	"	
111-44-4	bis(2-Chloroethyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
39638-32-9	bis(2-Chloroisopropyl)ethe r	< 2		ug/l	2	0.5	1	"	"	"	"	"	
117-81-7	bis(2-Ethylhexyl)phthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
85-68-7	Butylbenzylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
105-60-2	Caprolactam	< 14		ug/l	14	5	1	"	"	"	"	"	
86-74-8	Carbazole	< 2		ug/l	2	0.5	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-05 SC52429-01	18-051	Ground Water	05-Dec-18 11:14	06-Dec-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
84-74-2	Di-n-butylphthalate	< 5		ug/l	5	2	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 00:02	NA	345WAU0	
117-84-0	Di-n-octylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
132-64-9	Dibenzofuran	< 2		ug/l	2	0.5	1	"	"	"	"	"	
84-66-2	Diethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
131-11-3	Dimethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	< 14		ug/l	14	5	1	"	"	"	"	"	
67-72-1	Hexachloroethane	< 5		ug/l	5	1	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
78-59-1	Isophorone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
621-64-7	N-Nitroso-di-n-propylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	< 5		ug/l	5	2	1	"	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-95-3	Nitrobenzene	< 2		ug/l	2	0.8	1	"	"	"	"	"	
82-68-8	Pentachloronitrobenzene	< 5		ug/l	5	2	1	"	"	"	"	"	
87-86-5	Pentachlorophenol	< 5		ug/l	5	1	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
108-95-2	Phenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
110-86-1	Pyridine	< 5		ug/l	5	2	1	"	"	"	"	"	
	Total SVOC TICs	8	J., B.	ug/l			1	"	"	"	"	"	
	Unknown	8	J., B.	ug/l			1	"	"	"	"	"	
Surrogate recoveries:													
118-79-6	*2,4,6-Tribromophenol*	*105*			*10-155 %*			"	"	"	"	"	
321-60-8	*2-Fluorobiphenyl*	*78*			*59-104 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*54*			*10-95 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*78*			*56-108 %*			"	"	"	"	"	
13127-88-3	*Phenol-d6*	*42*			*10-69 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*88*			*58-117 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07 SC52429-02	18-051	Ground Water	05-Dec-18 12:16	06-Dec-18

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 3005A													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7429-90-5	Aluminum	< 0.300		mg/l	0.300	0.153	1	SW-846 6010C	13-Dec-18 15:40	15-Dec-18 23:27	NA	34414044	
7440-36-0	Antimony	< 0.0500		mg/l	0.0500	0.0100	1	"	"	"	"	"	
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	
7440-39-3	Barium	**0.536**		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-41-7	Beryllium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-70-2	Calcium	**249**		mg/l	0.500	0.0330	1	"	"	"	"	"	
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	
7440-48-4	Cobalt	< 0.0050		mg/l	0.0050	0.0015	1	"	"	"	"	"	
7440-50-8	Copper	< 0.0200		mg/l	0.0200	0.0062	1	"	"	"	"	"	
7439-89-6	Iron	**0.249**		mg/l	0.200	0.0400	1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	
7439-95-4	Magnesium	**36.8**		mg/l	0.100	0.0190	1	"	"	"	"	"	
7439-96-5	Manganese	**0.0257**		mg/l	0.0200	0.0011	1	"	"	"	"	"	
7440-02-0	Nickel	< 0.0100		mg/l	0.0100	0.0031	1	"	"	"	"	"	
7440-09-7	Potassium	**12.0**		mg/l	0.500	0.203	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	"	"	"	"	"	
7440-23-5	Sodium	**401**		mg/l	1.00	0.326	1	"	"	"	"	"	
7440-28-0	Thallium	< 0.0300		mg/l	0.0300	0.0140	1	"	"	"	"	"	
7440-62-2	Vanadium	< 0.0100		mg/l	0.0100	0.0030	1	"	"	"	"	"	
7440-66-6	Zinc	< 0.0200		mg/l	0.0200	0.0030	1	"	"	"	"	"	
Prepared by method METHOD													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	14-Dec-18 09:10	15-Dec-18 07:38	NA	34505713	
Subcontracted Analyses Prepared by method SW-846 5030C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	15-Dec-18 13:29	15-Dec-18 13:30	NA	183491A	
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	"	"	"	"	"	
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	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07	18-051	Ground Water	05-Dec-18 12:16	06-Dec-18
SC52429-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	SW-846 8260C	15-Dec-18 13:29	15-Dec-18 13:30	NA	183491A	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 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	"	"	"	"	"	
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	"	"	"	"	"	
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	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	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07 SC52429-02	18-051	Ground Water	05-Dec-18 12:16	06-Dec-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
104-51-8	n-Butylbenzene	< 5		ug/l	5	0.2	1	SW-846 8260C	15-Dec-18 13:29	15-Dec-18 13:30	NA	183491A	
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	"	"	"	"	"	
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	"	"	"	"	"	
	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	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*80-120 %*			"	"	"	"	"	
460-00-4	*4-Bromofluorobenzene*	*97*			*80-120 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*80-120 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*94*			*80-120 %*			"	"	"	"	"	
Subcontracted Analyses Prepared by method SW-846 3510C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
92-52-4	1,1'-Biphenyl	< 2		ug/l	2	0.5	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 00:23	NA	345WAU0	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
122-66-7	1,2-Diphenylhydrazine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
90-12-0	1-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
58-90-2	2,3,4,6-Tetrachlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-83-2	2,4-Dichlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
105-67-9	2,4-Dimethylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
51-28-5	2,4-Dinitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07	18-051	Ground Water	05-Dec-18 12:16	06-Dec-18
SC52429-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
121-14-2	2,4-Dinitrotoluene	< 5		ug/l	5	1	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 00:23	NA	345WAU0	
606-20-2	2,6-Dinitrotoluene	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-58-7	2-Chloronaphthalene	< 1		ug/l	1	0.4	1	"	"	"	"	"	
95-57-8	2-Chlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
95-48-7	2-Methylphenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-74-4	2-Nitroaniline	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-75-5	2-Nitrophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	< 5		ug/l	5	2	1	"	"	"	"	"	
99-09-2	3-Nitroaniline	< 2		ug/l	2	0.5	1	"	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	< 14		ug/l	14	5	1	"	"	"	"	"	
101-55-3	4-Bromophenyl-phenyleth er	< 2		ug/l	2	0.5	1	"	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-47-8	4-Chloroaniline	< 5		ug/l	5	2	1	"	"	"	"	"	
7005-72-3	4-Chlorophenyl-phenyleth er	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-44-5	4-Methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
100-01-6	4-Nitroaniline	< 2		ug/l	2	0.6	1	"	"	"	"	"	
100-02-7	4-Nitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-86-2	Acetophenone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-53-3	Aniline	< 5		ug/l	5	1	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
1912-24-9	Atrazine	< 5		ug/l	5	2	1	"	"	"	"	"	
100-52-7	Benzaldehyde	< 5		ug/l	5	1	1	"	"	"	"	"	
92-87-5	Benzidine	< 58		ug/l	58	20	1	"	"	"	"	"	
56-55-3	Benzo(a)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
191-24-2	Benzo(g,h,i)perylene	< 0.5		ug/l	0.5	0.2	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
65-85-0	Benzoic acid	< 19		ug/l	19	8	1	"	"	"	"	"	
100-51-6	Benzyl alcohol	< 29		ug/l	29	10	1	"	"	"	"	"	
111-91-1	bis(2-Chloroethoxy)metha ne	< 2		ug/l	2	0.5	1	"	"	"	"	"	
111-44-4	bis(2-Chloroethyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
39638-32-9	bis(2-Chloroisopropyl)ethe r	< 2		ug/l	2	0.5	1	"	"	"	"	"	
117-81-7	bis(2-Ethylhexyl)phthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
85-68-7	Butylbenzylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
105-60-2	Caprolactam	< 14		ug/l	14	5	1	"	"	"	"	"	
86-74-8	Carbazole	< 2		ug/l	2	0.5	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-07 SC52429-02	18-051	Ground Water	05-Dec-18 12:16	06-Dec-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
84-74-2	Di-n-butylphthalate	< 5		ug/l	5	2	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 00:23	NA	345WAU0	
117-84-0	Di-n-octylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
132-64-9	Dibenzofuran	< 2		ug/l	2	0.5	1	"	"	"	"	"	
84-66-2	Diethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
131-11-3	Dimethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	< 14		ug/l	14	5	1	"	"	"	"	"	
67-72-1	Hexachloroethane	< 5		ug/l	5	1	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
78-59-1	Isophorone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
621-64-7	N-Nitroso-di-n-propylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	< 5		ug/l	5	2	1	"	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-95-3	Nitrobenzene	< 2		ug/l	2	0.8	1	"	"	"	"	"	
82-68-8	Pentachloronitrobenzene	< 5		ug/l	5	2	1	"	"	"	"	"	
87-86-5	Pentachlorophenol	< 5		ug/l	5	1	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
108-95-2	Phenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
110-86-1	Pyridine	< 5		ug/l	5	2	1	"	"	"	"	"	
	Total SVOC TICs	9	J., B.	ug/l			1	"	"	"	"	"	
	Unknown	9	J., B.	ug/l			1	"	"	"	"	"	
Surrogate recoveries:													
118-79-6	*2,4,6-Tribromophenol*	*103*			*10-155 %*			"	"	"	"	"	
321-60-8	*2-Fluorobiphenyl*	*85*			*59-104 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*67*			*10-95 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*83*			*56-108 %*			"	"	"	"	"	
13127-88-3	*Phenol-d6*	*48*			*10-69 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*96*			*58-117 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	05-Dec-18 14:47	06-Dec-18
SC52429-03				

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 3005A													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7429-90-5	Aluminum	< 0.300		mg/l	0.300	0.153	1	SW-846 6010C	13-Dec-18 15:40	15-Dec-18 23:48	NA	34414044	
7440-36-0	Antimony	< 0.0500		mg/l	0.0500	0.0100	1	"	"	"	"	"	
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	
7440-39-3	Barium	**0.479**		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-41-7	Beryllium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-70-2	Calcium	**259**		mg/l	0.500	0.0330	1	"	"	"	"	"	
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	
7440-48-4	Cobalt	< 0.0050		mg/l	0.0050	0.0015	1	"	"	"	"	"	
7440-50-8	Copper	< 0.0200		mg/l	0.0200	0.0062	1	"	"	"	"	"	
7439-89-6	Iron	**11.0**		mg/l	0.200	0.0400	1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	
7439-95-4	Magnesium	**33.8**		mg/l	0.100	0.0190	1	"	"	"	"	"	
7439-96-5	Manganese	**1.43**		mg/l	0.0200	0.0011	1	"	"	"	"	"	
7440-02-0	Nickel	< 0.0100		mg/l	0.0100	0.0031	1	"	"	"	"	"	
7440-09-7	Potassium	**10.9**		mg/l	0.500	0.203	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	"	"	"	"	"	
7440-23-5	Sodium	**64.1**		mg/l	1.00	0.326	1	"	"	"	"	"	
7440-28-0	Thallium	< 0.0300		mg/l	0.0300	0.0140	1	"	"	"	"	"	
7440-62-2	Vanadium	< 0.0100		mg/l	0.0100	0.0030	1	"	"	"	"	"	
7440-66-6	Zinc	< 0.0200		mg/l	0.0200	0.0030	1	"	"	"	"	"	
Prepared by method METHOD													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	14-Dec-18 09:10	15-Dec-18 07:48	NA	34505713	
Subcontracted Analyses Prepared by method SW-846 5030C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
630-20-6	1,1,1,2-Tetrachloroethane	< 2		ug/l	2	0.4	2	SW-846 8260C	15-Dec-18 18:13	15-Dec-18 18:14	NA	183491A/	
71-55-6	1,1,1-Trichloroethane	< 2		ug/l	2	0.6	2	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 10		ug/l	10	0.4	2	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 10		ug/l	10	0.8	2	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 10		ug/l	10	0.4	2	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 10		ug/l	10	0.6	2	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	**340**		ug/l	10	2	2	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 10		ug/l	10	0.6	2	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 10		ug/l	10	0.4	2	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	05-Dec-18 14:47	06-Dec-18
SC52429-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
107-06-2	1,2-Dichloroethane	< 2		ug/l	2	0.6	2	SW-846 8260C	15-Dec-18 18:13	15-Dec-18 18:14	NA	183491A	
78-87-5	1,2-Dichloropropane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 10		ug/l	10	0.4	2	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	**110**		ug/l	10	0.6	2	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 10		ug/l	10	0.4	2	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 10		ug/l	10	0.4	2	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 500		ug/l	500	58	2	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 2		ug/l	2	0.6	2	"	"	"	"	"	
78-93-3	2-Butanone	**11**	J.	ug/l	20	0.6	2	"	"	"	"	"	
95-49-8	2-Chlorotoluene	**0.4**	J.	ug/l	10	0.4	2	"	"	"	"	"	
591-78-6	2-Hexanone	< 20		ug/l	20	0.6	2	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 10		ug/l	10	0.4	2	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 20		ug/l	20	1	2	"	"	"	"	"	
67-64-1	Acetone	< 40		ug/l	40	1	2	"	"	"	"	"	
107-13-1	Acrylonitrile	< 40		ug/l	40	0.6	2	"	"	"	"	"	
71-43-2	Benzene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
526-73-8	Benzene, 1,2,3-trimethyl-	**93**	J.	ug/l			2	"	"	"	"	"	
611-14-3	Benzene, 1-ethyl-2-methyl-	**200**	J.	ug/l			2	"	"	"	"	"	
620-14-4	Benzene, 1-ethyl-3-methyl-	**98**	J.	ug/l			2	"	"	"	"	"	
2039-89-6	Benzene, 2-ethenyl-1,4-dimet	**71**	J.	ug/l			2	"	"	"	"	"	
1758-88-9	Benzene, 2-ethyl-1,4-dimethy	**72**	J.	ug/l			2	"	"	"	"	"	
108-86-1	Bromobenzene	< 10		ug/l	10	0.4	2	"	"	"	"	"	
74-97-5	Bromochloromethane	< 10		ug/l	10	0.4	2	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
75-25-2	Bromoform	< 8		ug/l	8	0.4	2	"	"	"	"	"	
74-83-9	Bromomethane	< 2		ug/l	2	0.6	2	"	"	"	"	"	
78-78-4	Butane, 2-methyl-	**110**	J.	ug/l			2	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 10		ug/l	10	0.4	2	"	"	"	"	"	
56-23-5	Carbon Tetrachloride	< 2		ug/l	2	0.4	2	"	"	"	"	"	
108-90-7	Chlorobenzene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
75-00-3	Chloroethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
67-66-3	Chloroform	< 2		ug/l	2	0.4	2	"	"	"	"	"	
74-87-3	Chloromethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
110-82-7	Cyclohexane	**130**	J.	ug/l			2	"	"	"	"	"	
108-87-2	Cyclohexane, methyl-	**170**	J.	ug/l			2	"	"	"	"	"	
96-37-7	Cyclopentane, methyl-	**170**	J.	ug/l			2	"	"	"	"	"	
108-20-3	di-Isopropyl ether	< 2		ug/l	2	0.4	2	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	05-Dec-18 14:47	06-Dec-18
SC52429-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
74-95-3	Dibromomethane	< 2		ug/l	2	0.4	2	SW-846 8260C	15-Dec-18 18:13	15-Dec-18 18:14	NA	183491A	
75-71-8	Dichlorodifluoromethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
64-17-5	Ethanol	< 1500		ug/l	1500	560	2	"	"	"	"	"	
60-29-7	Ethyl ether	< 10		ug/l	10	0.4	2	"	"	"	"	"	
637-92-3	Ethyl t-butyl ether	< 2		ug/l	2	0.4	2	"	"	"	"	"	
100-41-4	Ethylbenzene	**160**		ug/l	2	0.8	2	"	"	"	"	"	
76-13-1	Freon 113	< 20		ug/l	20	0.4	2	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 10		ug/l	10	1	2	"	"	"	"	"	
98-82-8	Isopropylbenzene	**18**		ug/l	10	0.4	2	"	"	"	"	"	
179601-23-1	m+p-Xylene	**620**		ug/l	10	2	2	"	"	"	"	"	
1634-04-4	Methyl Tertiary Butyl Ether	< 2		ug/l	2	0.4	2	"	"	"	"	"	
75-09-2	Methylene Chloride	< 2		ug/l	2	0.6	2	"	"	"	"	"	
104-51-8	n-Butylbenzene	**8**	J.	ug/l	10	0.4	2	"	"	"	"	"	
103-65-1	n-Propylbenzene	**48**		ug/l	10	0.4	2	"	"	"	"	"	
91-20-3	Naphthalene	**48**		ug/l	10	2	2	"	"	"	"	"	
95-47-6	o-Xylene	**110**		ug/l	2	0.8	2	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	**3**	J.	ug/l	10	0.4	2	"	"	"	"	"	
109-66-0	Pentane	**87**	J.	ug/l			2	"	"	"	"	"	
107-83-5	Pentane, 2-methyl-	**220**	J.	ug/l			2	"	"	"	"	"	
96-14-0	Pentane, 3-methyl-	**94**	J.	ug/l			2	"	"	"	"	"	
135-98-8	sec-Butylbenzene	**4**	J.	ug/l	10	0.4	2	"	"	"	"	"	
100-42-5	Styrene	< 10		ug/l	10	0.4	2	"	"	"	"	"	
994-05-8	t-Amyl methyl ether	< 10		ug/l	10	2	2	"	"	"	"	"	
75-65-0	t-Butyl alcohol	< 100		ug/l	100	24	2	"	"	"	"	"	
98-06-6	tert-Butylbenzene	**0.7**	J.	ug/l	10	0.6	2	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 20		ug/l	20	1	2	"	"	"	"	"	
108-88-3	Toluene	**15**		ug/l	2	0.4	2	"	"	"	"	"	
	Total VOC TICs	**1,700**	J.	ug/l			2	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	< 100		ug/l	100	12	2	"	"	"	"	"	
79-01-6	Trichloroethene	< 2		ug/l	2	0.4	2	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 2		ug/l	2	0.4	2	"	"	"	"	"	
	Unknown	**80**	J.	ug/l			2	"	"	"	"	"	
	Unknown aromatic	**110**	J.	ug/l			2	"	"	"	"	"	
75-01-4	Vinyl Chloride	< 2		ug/l	2	0.4	2	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4*	*100*			*80-120 %*			"	"	"	"	"	
460-00-4	*4-Bromofluorobenzene*	*99*			*80-120 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*80-120 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*97*			*80-120 %*			"	"	"	"	"	

Subcontracted Analyses

Subcontracted Analyses

Subcontracted Analyses
Prepared by method SW-846 3510C

Analysis performed by Eurofins Lancaster Laboratories Environmental - NA

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
92-52-4	1,1'-Biphenyl	< 2		ug/l	2	0.5	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 01:29	NA	345WAU0	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
122-66-7	1,2-Diphenylhydrazine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
90-12-0	1-Methylnaphthalene	8		ug/l	0.5	0.1	1	"	"	"	"	"	
58-90-2	2,3,4,6-Tetrachlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-83-2	2,4-Dichlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
105-67-9	2,4-Dimethylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
51-28-5	2,4-Dinitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	< 5		ug/l	5	1	1	"	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-58-7	2-Chloronaphthalene	< 1		ug/l	1	0.4	1	"	"	"	"	"	
95-57-8	2-Chlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	16		ug/l	0.5	0.1	1	"	"	"	"	"	
95-48-7	2-Methylphenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-74-4	2-Nitroaniline	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-75-5	2-Nitrophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	< 5		ug/l	5	2	1	"	"	"	"	"	
99-09-2	3-Nitroaniline	< 2		ug/l	2	0.5	1	"	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	< 14		ug/l	14	5	1	"	"	"	"	"	
101-55-3	4-Bromophenyl-phenylether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-47-8	4-Chloroaniline	< 5		ug/l	5	2	1	"	"	"	"	"	
7005-72-3	4-Chlorophenyl-phenylether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-44-5	4-Methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
100-01-6	4-Nitroaniline	< 2		ug/l	2	0.6	1	"	"	"	"	"	
100-02-7	4-Nitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
83-32-9	Acenaphthene	0.2	J.	ug/l	0.5	0.1	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-86-2	Acetophenone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-53-3	Aniline	< 5		ug/l	5	1	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
1912-24-9	Atrazine	< 5		ug/l	5	2	1	"	"	"	"	"	
100-52-7	Benzaldehyde	< 5		ug/l	5	1	1	"	"	"	"	"	
108-38-3	Benzene, 1,3-dimethyl-	460	J.	ug/l			1	"	"	"	"	"	
92-87-5	Benzidine	< 57		ug/l	57	20	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	05-Dec-18 14:47	06-Dec-18
SC52429-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
56-55-3	Benzo(a)anthracene	< 0.5		ug/l	0.5	0.1	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 01:29	NA	345WAU0	
50-32-8	Benzo(a)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
191-24-2	Benzo(g,h,i)perylene	< 0.5		ug/l	0.5	0.2	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
65-85-0	Benzoic acid	< 19		ug/l	19	8	1	"	"	"	"	"	
100-51-6	Benzyl alcohol	< 29		ug/l	29	10	1	"	"	"	"	"	
111-91-1	bis(2-Chloroethoxy)methane	< 2		ug/l	2	0.5	1	"	"	"	"	"	
111-44-4	bis(2-Chloroethyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
39638-32-9	bis(2-Chloroisopropyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
117-81-7	bis(2-Ethylhexyl)phthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
85-68-7	Butylbenzylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
105-60-2	Caprolactam	< 14		ug/l	14	5	1	"	"	"	"	"	
86-74-8	Carbazole	< 2		ug/l	2	0.5	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
84-74-2	Di-n-butylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
117-84-0	Di-n-octylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
132-64-9	Dibenzofuran	< 2		ug/l	2	0.5	1	"	"	"	"	"	
84-66-2	Diethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
131-11-3	Dimethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
86-73-7	Fluorene	**0.3**	J.	ug/l	0.5	0.1	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	< 14		ug/l	14	5	1	"	"	"	"	"	
67-72-1	Hexachloroethane	< 5		ug/l	5	1	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
78-59-1	Isophorone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
621-64-7	N-Nitroso-di-n-propylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	< 5		ug/l	5	2	1	"	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-20-3	Naphthalene	**33**		ug/l	0.5	0.1	1	"	"	"	"	"	
98-95-3	Nitrobenzene	< 2		ug/l	2	0.8	1	"	"	"	"	"	
82-68-8	Pentachloronitrobenzene	< 5		ug/l	5	2	1	"	"	"	"	"	
87-86-5	Pentachlorophenol	< 5		ug/l	5	1	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
108-95-2	Phenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
110-86-1	Pyridine	< 5		ug/l	5	2	1	"	"	"	"	"	
	Total SVOC TICs	**460**	J.	ug/l			1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-08	18-051	Ground Water	05-Dec-18 14:47	06-Dec-18
SC52429-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
Surrogate recoveries:													
118-79-6	*2,4,6-Tribromophenol*	*100*			*10-155 %*			SW-846 8270D	11-Dec-18 18:00	-Dec-18 01:	NA	345WAU0	
321-60-8	*2-Fluorobiphenyl*	*76*			*59-104 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*61*			*10-95 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*77*			*56-108 %*			"	"	"	"	"	
13127-88-3	*Phenol-d6*	*45*			*10-69 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*86*			*58-117 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	05-Dec-18 13:43	06-Dec-18
SC52429-04				

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 3005A													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7429-90-5	Aluminum	< 0.300		mg/l	0.300	0.153	1	SW-846 6010C	13-Dec-18 15:40	15-Dec-18 23:56	NA	34414044	
7440-36-0	Antimony	< 0.0500		mg/l	0.0500	0.0100	1	"	"	"	"	"	
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	
7440-39-3	Barium	**0.370**		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-41-7	Beryllium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-70-2	Calcium	**225**		mg/l	0.500	0.0330	1	"	"	"	"	"	
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	
7440-48-4	Cobalt	< 0.0050		mg/l	0.0050	0.0015	1	"	"	"	"	"	
7440-50-8	Copper	< 0.0200		mg/l	0.0200	0.0062	1	"	"	"	"	"	
7439-89-6	Iron	**1.12**		mg/l	0.200	0.0400	1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	
7439-95-4	Magnesium	**29.1**		mg/l	0.100	0.0190	1	"	"	"	"	"	
7439-96-5	Manganese	**0.282**		mg/l	0.0200	0.0011	1	"	"	"	"	"	
7440-02-0	Nickel	< 0.0100		mg/l	0.0100	0.0031	1	"	"	"	"	"	
7440-09-7	Potassium	**15.3**		mg/l	0.500	0.203	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	"	"	"	"	"	
7440-23-5	Sodium	**350**		mg/l	1.00	0.326	1	"	"	"	"	"	
7440-28-0	Thallium	< 0.0300		mg/l	0.0300	0.0140	1	"	"	"	"	"	
7440-62-2	Vanadium	< 0.0100		mg/l	0.0100	0.0030	1	"	"	"	"	"	
7440-66-6	Zinc	**0.0046**	J.	mg/l	0.0200	0.0030	1	"	"	"	"	"	
Prepared by method METHOD													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	14-Dec-18 09:10	15-Dec-18 07:50	NA	34505713	
Subcontracted Analyses Prepared by method SW-846 5030C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	15-Dec-18 18:56	15-Dec-18 18:57	NA	183491A/	
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	"	"	"	"	"	
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	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	05-Dec-18 13:43	06-Dec-18
SC52429-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	SW-846 8260C	15-Dec-18 18:56	15-Dec-18 18:57	NA	183491A	
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	"	"	"	"	"	
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	2	J.	ug/l	20	0.7	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	
71-43-2	Benzene	0.3	J.	ug/l	1	0.2	1	"	"	"	"	"	
56253-64-6	Benzene, (2-methyl-1-butenyl	5	J.	ug/l			1	"	"	"	"	"	
95-93-2	Benzene, 1,2,4,5-tetramethyl	6	J.	ug/l			1	"	"	"	"	"	
141-93-5	Benzene, 1,3-diethyl-	8	J.	ug/l			1	"	"	"	"	"	
6221-55-2	Bicyclo[3.2.1]octane	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	"	"	"	"	"	
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	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	
6876-23-9	Cyclohexane, 1,2-dimethyl-,	9	J.	ug/l			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	"	"	"	"	"	
637-92-3	Ethyl t-butyl ether	< 1		ug/l	1	0.2	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	05-Dec-18 13:43	06-Dec-18
SC52429-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
100-41-4	Ethylbenzene	< 1		ug/l	1	0.4	1	SW-846 8260C	15-Dec-18 18:56	15-Dec-18 18:57	NA	183491A	
76-13-1	Freon 113	< 10		ug/l	10	0.2	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5		ug/l	5	0.7	1	"	"	"	"	"	
767-58-8	Indan, 1-methyl-	9	J., X	ug/l			1	"	"	"	"	"	
98-82-8	Isopropylbenzene	1	J.	ug/l	5	0.2	1	"	"	"	"	"	
872-56-0	Isopropylcyclobutane	7	J.	ug/l			1	"	"	"	"	"	
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	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	"	"	"	"	"	
104-51-8	n-Butylbenzene	0.3	J.	ug/l	5	0.2	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	2	J.	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	0.4	J.	ug/l	5	0.2	1	"	"	"	"	"	
694-72-4	Pentalene, octahydro-	6	J.	ug/l			1	"	"	"	"	"	
560-21-4	Pentane, 2,3,3-trimethyl-	7	J.	ug/l			1	"	"	"	"	"	
565-59-3	Pentane, 2,3-dimethyl-	7	J.	ug/l			1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	1	J.	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	0.4	J.	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	"	"	"	"	"	
	Total VOC TICs	110	J.	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	"	"	"	"	"	
	Unknown1	11	J.	ug/l			1	"	"	"	"	"	
	Unknown2	8	J.	ug/l			1	"	"	"	"	"	
	Unknown3	9	J.	ug/l			1	"	"	"	"	"	
	Unknown4	14	J.	ug/l			1	"	"	"	"	"	
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4*	*102*			*80-120 %*			"	"	"	"	"	
460-00-4	*4-Bromofluorobenzene*	*98*			*80-120 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*80-120 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*95*			*80-120 %*			"	"	"	"	"	

Subcontracted Analyses
Prepared by method SW-846 3510C

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	05-Dec-18 13:43	06-Dec-18
SC52429-04				

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 3510C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
92-52-4	1,1'-Biphenyl	< 2		ug/l	2	0.5	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 01:51	NA	345WAU0	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
122-66-7	1,2-Diphenylhydrazine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
90-12-0	1-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
58-90-2	2,3,4,6-Tetrachlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-83-2	2,4-Dichlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
105-67-9	2,4-Dimethylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
51-28-5	2,4-Dinitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	< 5		ug/l	5	1	1	"	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-58-7	2-Chloronaphthalene	< 1		ug/l	1	0.4	1	"	"	"	"	"	
95-57-8	2-Chlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
95-48-7	2-Methylphenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-74-4	2-Nitroaniline	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-75-5	2-Nitrophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	< 5		ug/l	5	2	1	"	"	"	"	"	
99-09-2	3-Nitroaniline	< 2		ug/l	2	0.5	1	"	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	< 14		ug/l	14	5	1	"	"	"	"	"	
101-55-3	4-Bromophenyl-phenylether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-47-8	4-Chloroaniline	< 5		ug/l	5	2	1	"	"	"	"	"	
7005-72-3	4-Chlorophenyl-phenylether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-44-5	4-Methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
100-01-6	4-Nitroaniline	< 2		ug/l	2	0.6	1	"	"	"	"	"	
100-02-7	4-Nitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-86-2	Acetophenone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-53-3	Aniline	< 5		ug/l	5	1	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
1912-24-9	Atrazine	< 5		ug/l	5	2	1	"	"	"	"	"	
100-52-7	Benzaldehyde	< 5		ug/l	5	1	1	"	"	"	"	"	
92-87-5	Benzidine	< 58		ug/l	58	20	1	"	"	"	"	"	
56-55-3	Benzo(a)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	05-Dec-18 13:43	06-Dec-18
SC52429-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
50-32-8	Benzo(a)pyrene	< 0.5		ug/l	0.5	0.1	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 01:51	NA	345WAU0	
205-99-2	Benzo(b)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
191-24-2	Benzo(g,h,i)perylene	< 0.5		ug/l	0.5	0.2	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
65-85-0	Benzoic acid	< 19		ug/l	19	8	1	"	"	"	"	"	
100-51-6	Benzyl alcohol	< 29		ug/l	29	10	1	"	"	"	"	"	
111-91-1	bis(2-Chloroethoxy)methane	< 2		ug/l	2	0.5	1	"	"	"	"	"	
111-44-4	bis(2-Chloroethyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
39638-32-9	bis(2-Chloroisopropyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
117-81-7	bis(2-Ethylhexyl)phthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
85-68-7	Butylbenzylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
105-60-2	Caprolactam	< 14		ug/l	14	5	1	"	"	"	"	"	
86-74-8	Carbazole	< 2		ug/l	2	0.5	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
84-74-2	Di-n-butylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
117-84-0	Di-n-octylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
132-64-9	Dibenzofuran	< 2		ug/l	2	0.5	1	"	"	"	"	"	
84-66-2	Diethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
131-11-3	Dimethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	< 14		ug/l	14	5	1	"	"	"	"	"	
67-72-1	Hexachloroethane	< 5		ug/l	5	1	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
78-59-1	Isophorone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
621-64-7	N-Nitroso-di-n-propylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	< 5		ug/l	5	2	1	"	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-95-3	Nitrobenzene	< 2		ug/l	2	0.8	1	"	"	"	"	"	
82-68-8	Pentachloronitrobenzene	< 5		ug/l	5	2	1	"	"	"	"	"	
87-86-5	Pentachlorophenol	< 5		ug/l	5	1	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
108-95-2	Phenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
129-00-0	Pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
110-86-1	Pyridine	< 5		ug/l	5	2	1	"	"	"	"	"	
	Total SVOC TICs	10	J.	ug/l			1	"	"	"	"	"	
	Unknown	10	J.	ug/l			1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-09	18-051	Ground Water	05-Dec-18 13:43	06-Dec-18
SC52429-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
Surrogate recoveries:													
118-79-6	*2,4,6-Tribromophenol*	*104*			*10-155 %*			SW-846 8270D	11-Dec-18 18:00	-Dec-18 01:	NA	345WAU0	
321-60-8	*2-Fluorobiphenyl*	*83*			*59-104 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*66*			*10-95 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*84*			*56-108 %*			"	"	"	"	"	
13127-88-3	*Phenol-d6*	*47*			*10-69 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*93*			*58-117 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	05-Dec-18 00:00	06-Dec-18
SC52429-05				

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 3005A													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7429-90-5	Aluminum	< 0.300		mg/l	0.300	0.153	1	SW-846 6010C	13-Dec-18 15:40	15-Dec-18 23:59	NA	34414044	
7440-36-0	Antimony	< 0.0500		mg/l	0.0500	0.0100	1	"	"	"	"	"	
7440-38-2	Arsenic	< 0.0500		mg/l	0.0500	0.0160	1	"	"	"	"	"	
7440-39-3	Barium	**0.372**		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-41-7	Beryllium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	
7440-70-2	Calcium	**222**		mg/l	0.500	0.0330	1	"	"	"	"	"	
7440-47-3	Chromium	< 0.0150		mg/l	0.0150	0.0053	1	"	"	"	"	"	
7440-48-4	Cobalt	< 0.0050		mg/l	0.0050	0.0015	1	"	"	"	"	"	
7440-50-8	Copper	< 0.0200		mg/l	0.0200	0.0062	1	"	"	"	"	"	
7439-89-6	Iron	**1.07**		mg/l	0.200	0.0400	1	"	"	"	"	"	
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0071	1	"	"	"	"	"	
7439-95-4	Magnesium	**28.6**		mg/l	0.100	0.0190	1	"	"	"	"	"	
7439-96-5	Manganese	**0.276**		mg/l	0.0200	0.0011	1	"	"	"	"	"	
7440-02-0	Nickel	< 0.0100		mg/l	0.0100	0.0031	1	"	"	"	"	"	
7440-09-7	Potassium	**15.0**		mg/l	0.500	0.203	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	"	"	"	"	"	
7440-23-5	Sodium	**345**		mg/l	1.00	0.326	1	"	"	"	"	"	
7440-28-0	Thallium	< 0.0300		mg/l	0.0300	0.0140	1	"	"	"	"	"	
7440-62-2	Vanadium	< 0.0100		mg/l	0.0100	0.0030	1	"	"	"	"	"	
7440-66-6	Zinc	**0.0031**	J.	mg/l	0.0200	0.0030	1	"	"	"	"	"	
Prepared by method METHOD													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	14-Dec-18 09:10	15-Dec-18 07:56	NA	34505713	
Subcontracted Analyses Prepared by method SW-846 5030C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	17-Dec-18 23:18	17-Dec-18 23:19	NA	183513A/	
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	"	"	"	"	"	
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	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5		ug/l	5	0.2	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	05-Dec-18 00:00	06-Dec-18
SC52429-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
107-06-2	1,2-Dichloroethane	< 1		ug/l	1	0.3	1	SW-846 8260C	17-Dec-18 23:18	17-Dec-18 23:19	NA	183513A	
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	"	"	"	"	"	
17057-82-8	1H-Indene, 2,3-dihydro-1,2-d	6	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	"	"	"	"	"	
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	2	J.	ug/l	20	0.7	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 20		ug/l	20	0.3	1	"	"	"	"	"	
71-43-2	Benzene	0.3	J.	ug/l	1	0.2	1	"	"	"	"	"	
95-93-2	Benzene, 1,2,4,5-tetramethyl	7	J.	ug/l			1	"	"	"	"	"	
141-93-5	Benzene, 1,3-diethyl-	8	J., X	ug/l			1	"	"	"	"	"	
6221-55-2	Bicyclo[3.2.1]octane	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	"	"	"	"	"	
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	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1		ug/l	1	0.2	1	"	"	"	"	"	
6876-23-9	Cyclohexane, 1,2-dimethyl-,	10	J.	ug/l			1	"	"	"	"	"	
822-50-4	Cyclopentane, 1,2-dimethyl-,	7	J.	ug/l			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	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	05-Dec-18 00:00	06-Dec-18
SC52429-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
60-29-7	Ethyl ether	< 5		ug/l	5	0.2	1	SW-846 8260C	17-Dec-18 23:18	17-Dec-18 23:19	NA	183513A	
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	"	"	"	"	"	
767-58-8	Indan, 1-methyl-	9	J.	ug/l			1	"	"	"	"	"	
98-82-8	Isopropylbenzene	2	J.	ug/l	5	0.2	1	"	"	"	"	"	
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	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	"	"	"	"	"	
104-51-8	n-Butylbenzene	0.4	J.	ug/l	5	0.2	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	2	J.	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	0.5	J.	ug/l	5	0.2	1	"	"	"	"	"	
1755-05-1	Pentalene, octahydro-, cis-	6	J.	ug/l			1	"	"	"	"	"	
560-21-4	Pentane, 2,3,3-trimethyl-	9	J.	ug/l			1	"	"	"	"	"	
565-59-3	Pentane, 2,3-dimethyl-	6	J.	ug/l			1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	1	J.	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	0.4	J.	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	"	"	"	"	"	
	Total VOC TICs	120	J.	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	"	"	"	"	"	
	Unknown1	11	J.	ug/l			1	"	"	"	"	"	
	Unknown2	8	J.	ug/l			1	"	"	"	"	"	
	Unknown3	10	J.	ug/l			1	"	"	"	"	"	
	Unknown4	15	J.	ug/l			1	"	"	"	"	"	
	Unknown5	5	J.	ug/l			1	"	"	"	"	"	
75-01-4	Vinyl Chloride	< 1		ug/l	1	0.2	1	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4*	*100*			*80-120 %*			"	"	"	"	"	
460-00-4	*4-Bromofluorobenzene*	*101*			*80-120 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*80-120 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	05-Dec-18 00:00	06-Dec-18
SC52429-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
2037-26-5	*Toluene-d8*	*100*			*80-120 %*			SW-846 8260C	17-Dec-18 23:18	-Dec-18 23:	NA	183513A/	
Subcontracted Analyses Prepared by method SW-846 3510C													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
92-52-4	1,1'-Biphenyl	< 2		ug/l	2	0.5	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 02:12	NA	345WAU0	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
122-66-7	1,2-Diphenylhydrazine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 2		ug/l	2	0.5	1	"	"	"	"	"	
90-12-0	1-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
58-90-2	2,3,4,6-Tetrachlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	< 2		ug/l	2	0.6	1	"	"	"	"	"	
120-83-2	2,4-Dichlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
105-67-9	2,4-Dimethylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
51-28-5	2,4-Dinitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
121-14-2	2,4-Dinitrotoluene	< 5		ug/l	5	1	1	"	"	"	"	"	
606-20-2	2,6-Dinitrotoluene	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-58-7	2-Chloronaphthalene	< 1		ug/l	1	0.4	1	"	"	"	"	"	
95-57-8	2-Chlorophenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
95-48-7	2-Methylphenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-74-4	2-Nitroaniline	< 2		ug/l	2	0.7	1	"	"	"	"	"	
88-75-5	2-Nitrophenol	< 2		ug/l	2	0.7	1	"	"	"	"	"	
91-94-1	3,3'-Dichlorobenzidine	< 5		ug/l	5	2	1	"	"	"	"	"	
99-09-2	3-Nitroaniline	< 2		ug/l	2	0.5	1	"	"	"	"	"	
534-52-1	4,6-Dinitro-2-methylphenol	< 14		ug/l	14	5	1	"	"	"	"	"	
101-55-3	4-Bromophenyl-phenylether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-47-8	4-Chloroaniline	< 5		ug/l	5	2	1	"	"	"	"	"	
7005-72-3	4-Chlorophenyl-phenylether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
106-44-5	4-Methylphenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	
100-01-6	4-Nitroaniline	< 2		ug/l	2	0.6	1	"	"	"	"	"	
100-02-7	4-Nitrophenol	< 29		ug/l	29	10	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-86-2	Acetophenone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-53-3	Aniline	< 5		ug/l	5	1	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	05-Dec-18 00:00	06-Dec-18
SC52429-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
1912-24-9	Atrazine	< 5		ug/l	5	2	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 02:12	NA	345WAU0	
100-52-7	Benzaldehyde	< 5		ug/l	5	1	1	"	"	"	"	"	
92-87-5	Benzidine	< 58		ug/l	58	20	1	"	"	"	"	"	
56-55-3	Benzo(a)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
191-24-2	Benzo(g,h,i)perylene	< 0.5		ug/l	0.5	0.2	1	"	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
65-85-0	Benzoic acid	< 19		ug/l	19	8	1	"	"	"	"	"	
100-51-6	Benzyl alcohol	< 29		ug/l	29	10	1	"	"	"	"	"	
111-91-1	bis(2-Chloroethoxy)methane	< 2		ug/l	2	0.5	1	"	"	"	"	"	
111-44-4	bis(2-Chloroethyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
39638-32-9	bis(2-Chloroisopropyl)ether	< 2		ug/l	2	0.5	1	"	"	"	"	"	
117-81-7	bis(2-Ethylhexyl)phthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
85-68-7	Butylbenzylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
105-60-2	Caprolactam	< 14		ug/l	14	5	1	"	"	"	"	"	
86-74-8	Carbazole	< 2		ug/l	2	0.5	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
84-74-2	Di-n-butylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
117-84-0	Di-n-octylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
132-64-9	Dibenzofuran	< 2		ug/l	2	0.5	1	"	"	"	"	"	
84-66-2	Diethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
131-11-3	Dimethylphthalate	< 5		ug/l	5	2	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
86-73-7	Fluorene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 2		ug/l	2	0.6	1	"	"	"	"	"	
77-47-4	Hexachlorocyclopentadiene	< 14		ug/l	14	5	1	"	"	"	"	"	
67-72-1	Hexachloroethane	< 5		ug/l	5	1	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
78-59-1	Isophorone	< 2		ug/l	2	0.5	1	"	"	"	"	"	
621-64-7	N-Nitroso-di-n-propylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
62-75-9	N-Nitrosodimethylamine	< 5		ug/l	5	2	1	"	"	"	"	"	
86-30-6	N-Nitrosodiphenylamine	< 2		ug/l	2	0.5	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
98-95-3	Nitrobenzene	< 2		ug/l	2	0.8	1	"	"	"	"	"	
82-68-8	Pentachloronitrobenzene	< 5		ug/l	5	2	1	"	"	"	"	"	
87-86-5	Pentachlorophenol	< 5		ug/l	5	1	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.5		ug/l	0.5	0.1	1	"	"	"	"	"	
108-95-2	Phenol	< 2		ug/l	2	0.5	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-D	18-051	Ground Water	05-Dec-18 00:00	06-Dec-18
SC52429-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
129-00-0	Pyrene	< 0.5		ug/l	0.5	0.1	1	SW-846 8270D	11-Dec-18 18:00	14-Dec-18 02:12	NA	345WAU0	
110-86-1	Pyridine	< 5		ug/l	5	2	1	"	"	"	"	"	
	Total SVOC TICs	10	J.	ug/l			1	"	"	"	"	"	
	Unknown	10	J.	ug/l			1	"	"	"	"	"	
Surrogate recoveries:													
118-79-6	*2,4,6-Tribromophenol*	*100*			*10-155 %*			"	"	"	"	"	
321-60-8	*2-Fluorobiphenyl*	*82*			*59-104 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*65*			*10-95 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*80*			*56-108 %*			"	"	"	"	"	
13127-88-3	*Phenol-d6*	*50*			*10-69 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-d14*	*96*			*58-117 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	18-051	Trip Blank	05-Dec-18 00:00	06-Dec-18
SC52429-06				

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 - NA													
630-20-6	1,1,1,2-Tetrachloroethane	< 1		ug/l	1	0.2	1	SW-846 8260C	15-Dec-18 13:07	15-Dec-18 13:08	NA	183491A	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	18-051	Trip Blank	05-Dec-18 00:00	06-Dec-18
SC52429-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by Eurofins Lancaster Laboratories Environmental - NA													
156-59-2	cis-1,2-Dichloroethene	< 1		ug/l	1	0.2	1	SW-846 8260C	15-Dec-18 13:07	15-Dec-18 13:08	NA	183491A	
10061-01-5	cis-1,3-Dichloropropene	< 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	"	"	"	"	"	
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	"	"	"	"	"	
179601-23-1	m+p-Xylene	< 5		ug/l	5	1	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	"	"	"	"	"	
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	"	"	"	"	"	
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	"	"	"	"	"	
	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	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*80-120 %*			"	"	"	"	"	
460-00-4	*4-Bromofluorobenzene*	*97*			*80-120 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*80-120 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*94*			*80-120 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 6010C										
Batch 183441404405 - SW-846 3005A										
Blank (P34404EB344404405)						Prepared: 13-Dec-18 Analyzed: 16-Dec-18				
Lead	< 0.0150		mg/l	0.0150				-		
Antimony	< 0.0500		mg/l	0.0500				-		
Arsenic	< 0.0500		mg/l	0.0500				-		
Barium	< 0.0050		mg/l	0.0050				-		
Beryllium	< 0.0050		mg/l	0.0050				-		
Cadmium	< 0.0050		mg/l	0.0050				-		
Calcium	**0.0363**	J.	mg/l	0.500				-		
Chromium	< 0.0150		mg/l	0.0150				-		
Cobalt	< 0.0050		mg/l	0.0050				-		
Vanadium	< 0.0100		mg/l	0.0100				-		
Iron	**0.0430**	J.	mg/l	0.200				-		
Zinc	**0.0055**	J.	mg/l	0.0200				-		
Magnesium	**0.0394**	J.	mg/l	0.100				-		
Manganese	**0.0029**	J.	mg/l	0.0200				-		
Nickel	< 0.0100		mg/l	0.0100				-		
Potassium	< 0.500		mg/l	0.500				-		
Selenium	< 0.0500		mg/l	0.0500				-		
Silver	< 0.0100		mg/l	0.0100				-		
Sodium	< 1.00		mg/l	1.00				-		
Thallium	< 0.0300		mg/l	0.0300				-		
Copper	< 0.0200		mg/l	0.0200				-		
Aluminum	< 0.300		mg/l	0.300				-		
LCS (P34404EQ344404405)						Prepared: 13-Dec-18 Analyzed: 16-Dec-18				
Copper	**0.274**		mg/l	0.0200	0.250		110	90-115		
Zinc	**0.516**		mg/l	0.0200	0.500		103	89-111		
Vanadium	**0.499**		mg/l	0.0100	0.500		100	89-114		
Thallium	**0.161**		mg/l	0.0300	0.150		108	80-120		
Sodium	**9.89**		mg/l	1.00	10.0		99	87-112		
Silver	**0.0488**		mg/l	0.0100	0.0500		98	80-120		
Selenium	**0.151**		mg/l	0.0500	0.150		101	80-120		
Potassium	**10.2**		mg/l	0.500	10.0		102	88-112		
Nickel	**0.539**		mg/l	0.0100	0.500		108	90-114		
Aluminum	**2.05**		mg/l	0.300	2.00		102	80-120		
Lead	**0.158**		mg/l	0.0150	0.150		105	87-113		
Cobalt	**0.530**		mg/l	0.0050	0.500		106	90-111		
Chromium	**0.197**		mg/l	0.0150	0.200		98	87-110		
Calcium	**4.08**		mg/l	0.500	4.00		102	88-112		
Cadmium	**0.0527**		mg/l	0.0050	0.0500		105	90-111		
Beryllium	**0.0506**		mg/l	0.0050	0.0500		101	86-110		
Barium	**2.08**		mg/l	0.0050	2.00		104	87-111		
Arsenic	**0.153**		mg/l	0.0500	0.150		102	80-120		
Antimony	**0.522**		mg/l	0.0500	0.500		104	90-117		
Iron	**0.988**		mg/l	0.200	1.00		99	85-115		
Manganese	**0.524**		mg/l	0.0200	0.500		105	90-112		
Magnesium	**2.08**		mg/l	0.100	2.00		104	88-114		
Batch 183441404406 - SW-846 3005A										
Matrix Spike (9929801)			**Source: SC52429-02**			Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Antimony	**0.520**		mg/l	0.0500	0.500	BRL	104	75-125		
Arsenic	**0.153**		mg/l	0.0500	0.150	BRL	102	75-125		
Barium	**2.73**		mg/l	0.0050	2.00	0.536	110	75-125		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 6010C										
Batch 183441404406 - SW-846 3005A										
Matrix Spike (9929801)			**Source: SC52429-02**			Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Beryllium	**0.0510**		mg/l	0.0050	0.0500	BRL	102	80-115		
Cadmium	**0.0498**		mg/l	0.0050	0.0500	BRL	100	75-125		
Calcium	**244**		mg/l	0.500	4.00	249	-128	75-125		
Chromium	**0.193**		mg/l	0.0150	0.200	BRL	97	75-125		
Cobalt	**0.504**		mg/l	0.0050	0.500	BRL	101	80-115		
Aluminum	**2.03**		mg/l	0.300	2.00	BRL	102	75-125		
Lead	**0.137**		mg/l	0.0150	0.150	BRL	91	75-125		
Iron	**1.26**		mg/l	0.200	1.00	0.249	101	75-125		
Manganese	**0.537**		mg/l	0.0200	0.500	0.0257	102	75-125		
Nickel	**0.502**		mg/l	0.0100	0.500	BRL	100	75-125		
Potassium	**22.8**		mg/l	0.500	10.0	12.0	109	75-125		
Selenium	**0.140**		mg/l	0.0500	0.150	BRL	93	75-125		
Silver	**0.0520**		mg/l	0.0100	0.0500	BRL	104	75-125		
Sodium	**389**		mg/l	1.00	10.0	401	-122	75-125		
Thallium	**0.154**		mg/l	0.0300	0.150	BRL	102	75-125		
Vanadium	**0.528**		mg/l	0.0100	0.500	BRL	106	85-120		
Zinc	**0.518**		mg/l	0.0200	0.500	BRL	104	75-125		
Copper	**0.255**		mg/l	0.0200	0.250	BRL	102	80-125		
Magnesium	**37.4**		mg/l	0.100	2.00	36.8	32	75-125		
Matrix Spike Dup (9929802)			**Source: SC52429-02**			Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Magnesium	**38.5**		mg/l	0.100	2.00	36.8	89	75-125	3	20
Arsenic	**0.163**		mg/l	0.0500	0.150	BRL	109	75-125	6	20
Barium	**2.77**		mg/l	0.0050	2.00	0.536	112	75-125	1	20
Beryllium	**0.0517**		mg/l	0.0050	0.0500	BRL	103	80-115	1	20
Cadmium	**0.0507**		mg/l	0.0050	0.0500	BRL	101	75-125	2	20
Calcium	**250**		mg/l	0.500	4.00	249	36	75-125	3	20
Chromium	**0.196**		mg/l	0.0150	0.200	BRL	98	75-125	1	20
Cobalt	**0.511**		mg/l	0.0050	0.500	BRL	102	80-115	1	20
Copper	**0.258**		mg/l	0.0200	0.250	BRL	103	80-125	1	20
Antimony	**0.526**		mg/l	0.0500	0.500	BRL	105	75-125	1	20
Lead	**0.144**		mg/l	0.0150	0.150	BRL	96	75-125	5	20
Aluminum	**2.08**		mg/l	0.300	2.00	BRL	104	75-125	2	20
Manganese	**0.544**		mg/l	0.0200	0.500	0.0257	104	75-125	1	20
Nickel	**0.508**		mg/l	0.0100	0.500	BRL	102	75-125	1	20
Potassium	**22.6**		mg/l	0.500	10.0	12.0	107	75-125	1	20
Selenium	**0.137**		mg/l	0.0500	0.150	BRL	91	75-125	3	20
Silver	**0.0538**		mg/l	0.0100	0.0500	BRL	108	75-125	4	20
Sodium	**408**		mg/l	1.00	10.0	401	62	75-125	5	20
Thallium	**0.173**		mg/l	0.0300	0.150	BRL	115	75-125	12	20
Vanadium	**0.534**		mg/l	0.0100	0.500	BRL	107	85-120	1	20
Zinc	**0.528**		mg/l	0.0200	0.500	BRL	106	75-125	2	20
Iron	**1.27**		mg/l	0.200	1.00	0.249	102	75-125	1	20
Laboratory Dup (9929803)			**Source: SC52429-02**			Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Chromium	< 0.0150		mg/l	0.0150		BRL		-	0	20
Thallium	< 0.0300		mg/l	0.0300		BRL		-	0	20
Sodium	**390**		mg/l	1.00		401		-	3	20
Silver	< 0.0100		mg/l	0.0100		BRL		-	0	20
Potassium	**12.0**		mg/l	0.500		12.0		-	0	20
Manganese	**0.0248**		mg/l	0.0200		0.0257		-	4	20
Magnesium	**35.9**		mg/l	0.100		36.8		-	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 6010C										
Batch 183441404406 - SW-846 3005A										
Laboratory Dup (9929803)			**Source: SC52429-02**			Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Lead	< 0.0150		mg/l	0.0150		BRL		-	0	20
Iron	**0.238**		mg/l	0.200		0.249		-	4	20
Vanadium	< 0.0100		mg/l	0.0100		BRL		-	0	20
Cobalt	< 0.0050		mg/l	0.0050		BRL		-	0	20
Selenium	< 0.0500		mg/l	0.0500		BRL		-	0	20
Calcium	**243**		mg/l	0.500		249		-	2	20
Cadmium	< 0.0050		mg/l	0.0050		BRL		-	0	20
Beryllium	< 0.0050		mg/l	0.0050		BRL		-	0	20
Barium	**0.526**		mg/l	0.0050		0.536		-	2	20
Arsenic	< 0.0500		mg/l	0.0500		BRL		-	0	20
Antimony	< 0.0500		mg/l	0.0500		BRL		-	0	20
Zinc	< 0.0200		mg/l	0.0200		BRL		-	0	20
Aluminum	< 0.300		mg/l	0.300		BRL		-	0	20
Copper	< 0.0200		mg/l	0.0200		BRL		-	0	20
Nickel	< 0.0100		mg/l	0.0100		BRL		-	0	20
Blank (P34404FB344404406)						Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Magnesium	**0.0506**	J.	mg/l	0.100				-		
Thallium	< 0.0300		mg/l	0.0300				-		
Sodium	< 1.00		mg/l	1.00				-		
Silver	< 0.0100		mg/l	0.0100				-		
Selenium	< 0.0500		mg/l	0.0500				-		
Potassium	< 0.500		mg/l	0.500				-		
Manganese	**0.0016**	J.	mg/l	0.0200				-		
Antimony	< 0.0500		mg/l	0.0500				-		
Lead	< 0.0150		mg/l	0.0150				-		
Aluminum	< 0.300		mg/l	0.300				-		
Iron	**0.0712**	J.	mg/l	0.200				-		
Barium	< 0.0050		mg/l	0.0050				-		
Zinc	< 0.0200		mg/l	0.0200				-		
Copper	< 0.0200		mg/l	0.0200				-		
Cobalt	< 0.0050		mg/l	0.0050				-		
Chromium	< 0.0150		mg/l	0.0150				-		
Vanadium	< 0.0100		mg/l	0.0100				-		
Calcium	**0.0495**	J.	mg/l	0.500				-		
Cadmium	< 0.0050		mg/l	0.0050				-		
Beryllium	< 0.0050		mg/l	0.0050				-		
Arsenic	< 0.0500		mg/l	0.0500				-		
Nickel	< 0.0100		mg/l	0.0100				-		
LCS (P34404FQ344404406)						Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Iron	**1.03**		mg/l	0.200	1.00		103	85-115		
Cobalt	**0.527**		mg/l	0.0050	0.500		105	90-111		
Chromium	**0.194**		mg/l	0.0150	0.200		97	87-110		
Calcium	**4.12**		mg/l	0.500	4.00		103	88-112		
Cadmium	**0.0517**		mg/l	0.0050	0.0500		103	90-111		
Beryllium	**0.0496**		mg/l	0.0050	0.0500		99	86-110		
Barium	**2.02**		mg/l	0.0050	2.00		101	87-111		
Antimony	**0.494**		mg/l	0.0500	0.500		99	90-117		
Aluminum	**2.03**		mg/l	0.300	2.00		102	80-120		
Lead	**0.149**		mg/l	0.0150	0.150		99	87-113		
Arsenic	**0.149**		mg/l	0.0500	0.150		100	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 6010C										
Batch 183441404406 - SW-846 3005A										
LCS (P34404FQ344404406)						Prepared: 13-Dec-18 Analyzed: 15-Dec-18				
Manganese	**0.522**		mg/l	0.0200	0.500		104	90-112		
Nickel	**0.530**		mg/l	0.0100	0.500		106	90-114		
Potassium	**10.1**		mg/l	0.500	10.0		101	88-112		
Selenium	**0.144**		mg/l	0.0500	0.150		96	80-120		
Silver	**0.0496**		mg/l	0.0100	0.0500		99	80-120		
Sodium	**9.97**		mg/l	1.00	10.0		100	87-112		
Thallium	**0.171**		mg/l	0.0300	0.150		114	80-120		
Vanadium	**0.503**		mg/l	0.0100	0.500		101	89-114		
Zinc	**0.509**		mg/l	0.0200	0.500		102	89-111		
Magnesium	**2.06**		mg/l	0.100	2.00		103	88-114		
Copper	**0.256**		mg/l	0.0200	0.250		102	90-115		
SW-846 7470A										
Batch 183450571306 - METHOD										
Matrix Spike (9929801)			**Source: SC52429-02**			Prepared: 14-Dec-18 Analyzed: 15-Dec-18				
Mercury	**0.00087**		mg/l	0.00020	0.0010	BRL	87	80-120		
Matrix Spike Dup (9929802)			**Source: SC52429-02**			Prepared: 14-Dec-18 Analyzed: 15-Dec-18				
Mercury	**0.00088**		mg/l	0.00020	0.0010	BRL	88	80-120	1	20
Laboratory Dup (9929803)			**Source: SC52429-02**			Prepared: 14-Dec-18 Analyzed: 15-Dec-18				
Mercury	< 0.00020		mg/l	0.00020		BRL		-	0	20
Blank (P34571FB345571306)						Prepared: 14-Dec-18 Analyzed: 15-Dec-18				
Mercury	< 0.00020		mg/l	0.00020				-		
LCS (P34571FQ345571306)						Prepared: 14-Dec-18 Analyzed: 15-Dec-18				
Mercury	**0.00088**		mg/l	0.00020	0.0010		88	80-114		
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
Matrix Spike (9929801)			**Source: SC52429-02**			Prepared & Analyzed: 15-Dec-18				
Ethyl ether	**18**		ug/l	5	20	BRL	89	59-141		
m+p-Xylene	**48**		ug/l	5	40	BRL	119	80-120		
Isopropylbenzene	**24**		ug/l	5	20	BRL	121	80-120		
Hexachlorobutadiene	**21**		ug/l	5	20	BRL	105	63-120		
Freon 113	**27**		ug/l	10	20	BRL	133	73-139		
Chloromethane	**17**		ug/l	1	20	BRL	84	56-121		
Ethylbenzene	**23**		ug/l	1	20	BRL	116	80-120		
Methyl Tertiary Butyl Ether	**20**		ug/l	1	20	BRL	99	69-122		
Ethyl t-butyl ether	**18**		ug/l	1	20	BRL	92	68-121		
Ethanol	**440**	J.	ug/l	750	500	BRL	88	31-180		
di-Isopropyl ether	**18**		ug/l	1	20	BRL	88	70-124		
Dichlorodifluoromethane	**21**		ug/l	1	20	BRL	104	41-127		
Dibromomethane	**24**		ug/l	1	20	BRL	118	80-120		
Dibromochloromethane	**24**		ug/l	1	20	BRL	121	71-120		
Methylene Chloride	**23**		ug/l	1	20	BRL	114	80-120		
cis-1,2-Dichloroethene	**25**		ug/l	1	20	BRL	124	80-120		
t-Butyl alcohol	**200**		ug/l	50	200	BRL	101	60-130		
Chloroform	**25**		ug/l	1	20	BRL	125	80-120		
Chloroethane	**18**		ug/l	1	20	BRL	92	55-123		
cis-1,3-Dichloropropene	**22**		ug/l	1	20	BRL	111	75-120		
Tetrahydrofuran	**110**		ug/l	10	100	BRL	112	54-144		
Chlorobenzene	**24**		ug/l	1	20	BRL	120	80-120		
1,1,1,2-Tetrachloroethane	**24**		ug/l	1	20	BRL	118	78-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
Matrix Spike (9929801)			**Source: SC52429-02**		Prepared & Analyzed: 15-Dec-18					
Vinyl Chloride	**18**		ug/l	1	20	BRL	92	56-120		
Trichlorofluoromethane	**22**		ug/l	1	20	BRL	111	55-135		
Trichloroethene	**25**		ug/l	1	20	BRL	127	80-120		
trans-1,4-Dichloro-2-butene	**88**		ug/l	50	100	BRL	88	33-143		
trans-1,3-Dichloropropene	**21**		ug/l	1	20	BRL	104	67-120		
Styrene	**23**		ug/l	5	20	BRL	116	80-120		
Toluene	**23**		ug/l	1	20	BRL	115	80-120		
Naphthalene	**19**		ug/l	5	20	BRL	94	53-124		
Tetrachloroethene	**26**		ug/l	1	20	BRL	130	80-120		
tert-Butylbenzene	**23**		ug/l	5	20	BRL	114	78-120		
t-Amyl methyl ether	**20**		ug/l	5	20	BRL	98	66-120		
sec-Butylbenzene	**22**		ug/l	5	20	BRL	111	77-120		
p-Isopropyltoluene	**22**		ug/l	5	20	BRL	112	76-120		
o-Xylene	**23**		ug/l	1	20	BRL	117	80-120		
n-Propylbenzene	**22**		ug/l	5	20	BRL	111	79-121		
n-Butylbenzene	**21**		ug/l	5	20	BRL	103	76-120		
trans-1,2-Dichloroethene	**26**		ug/l	1	20	BRL	129	80-120		
1,2,4-Trichlorobenzene	**21**		ug/l	5	20	BRL	105	63-120		
1,3-Dichlorobenzene	**23**		ug/l	5	20	BRL	113	80-120		
1,3,5-Trimethylbenzene	**22**		ug/l	5	20	BRL	110	75-120		
1,3,5-Trichlorobenzene	**22**		ug/l	5	20	BRL	109	66-123		
1,2-Dichloropropane	**22**		ug/l	1	20	BRL	108	80-120		
1,2-Dichloroethane	**24**		ug/l	1	20	BRL	119	73-124		
1,2-Dichlorobenzene	**23**		ug/l	5	20	BRL	113	80-120		
1,1,1-Trichloroethane	**26**		ug/l	1	20	BRL	128	67-126		
1,3-Dichloropropane	**21**		ug/l	1	20	BRL	104	80-120		
Carbon Tetrachloride	**27**		ug/l	1	20	BRL	133	64-134		
1,2-Dibromoethane	**23**		ug/l	1	20	BRL	113	77-120		
1,2,3-Trichloropropane	**21**		ug/l	5	20	BRL	103	75-124		
1,2,3-Trichlorobenzene	**20**		ug/l	5	20	BRL	102	66-120		
1,1-Dichloropropene	**25**		ug/l	5	20	BRL	124	78-120		
1,1-Dichloroethene	**25**		ug/l	1	20	BRL	126	80-131		
1,1-Dichloroethane	**22**		ug/l	1	20	BRL	109	80-120		
1,1,2-Trichloroethane	**23**		ug/l	1	20	BRL	115	80-120		
1,1,2,2-Tetrachloroethane	**19**		ug/l	1	20	BRL	96	72-120		
1,2-Dibromo-3-chloropropane	**19**		ug/l	5	20	BRL	95	47-131		
Bromobenzene	**22**		ug/l	5	20	BRL	112	80-120		
Carbon Disulfide	**21**		ug/l	5	20	BRL	107	65-128		
1,2,4-Trimethylbenzene	**22**		ug/l	5	20	BRL	109	75-120		
1,4-Dichlorobenzene	**22**		ug/l	5	20	BRL	112	80-120		
Bromoform	**21**		ug/l	4	20	BRL	104	51-120		
Bromodichloromethane	**24**		ug/l	1	20	BRL	122	71-120		
Bromochloromethane	**23**		ug/l	5	20	BRL	117	80-120		
Bromomethane	**17**		ug/l	1	20	BRL	84	53-128		
Benzene	**24**		ug/l	1	20	BRL	119	80-120		
Acrylonitrile	**88**		ug/l	20	100	BRL	88	60-129		
2-Butanone	**130**		ug/l	10	150	BRL	87	59-135		
1,4-Dioxane	**600**		ug/l	250	500	BRL	119	63-146		
2,2-Dichloropropane	**23**		ug/l	1	20	BRL	114	55-142		
Acetone	**150**		ug/l	20	150	BRL	101	54-157		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
Matrix Spike (9929801)			**Source: SC52429-02**		Prepared & Analyzed: 15-Dec-18					
2-Chlorotoluene	**22**		ug/l	5	20	BRL	112	80-120		
2-Hexanone	**82**		ug/l	10	100	BRL	82	56-135		
4-Chlorotoluene	**23**		ug/l	5	20	BRL	113	80-120		
4-Methyl-2-pentanone	**88**		ug/l	10	100	BRL	88	62-133		
Surrogate: 1,2-Dichloroethane-d4	*52*		ug/l		*50*		*103*	*80-120*		
Surrogate: 4-Bromofluorobenzene	*50*		ug/l		*50*		*100*	*80-120*		
Surrogate: Dibromofluoromethane	*53*		ug/l		*50*		*105*	*80-120*		
Surrogate: Toluene-d8	*48*		ug/l		*50*		*96*	*80-120*		
Matrix Spike Dup (9929802)			**Source: SC52429-02**		Prepared & Analyzed: 15-Dec-18					
Ethanol	**490**	J.	ug/l	750	500	BRL	98	31-180	11	30
Isopropylbenzene	**23**		ug/l	5	20	BRL	117	80-120	3	30
Hexachlorobutadiene	**21**		ug/l	5	20	BRL	103	63-120	2	30
Freon 113	**26**		ug/l	10	20	BRL	129	73-139	3	30
Ethylbenzene	**22**		ug/l	1	20	BRL	112	80-120	3	30
Ethyl t-butyl ether	**19**		ug/l	1	20	BRL	94	68-121	2	30
Ethyl ether	**17**		ug/l	5	20	BRL	87	59-141	2	30
m+p-Xylene	**46**		ug/l	5	40	BRL	116	80-120	3	30
di-Isopropyl ether	**18**		ug/l	1	20	BRL	90	70-124	2	30
Dichlorodifluoromethane	**21**		ug/l	1	20	BRL	103	41-127	1	30
Dibromomethane	**23**		ug/l	1	20	BRL	117	80-120	1	30
Dibromochloromethane	**23**		ug/l	1	20	BRL	116	71-120	4	30
cis-1,3-Dichloropropene	**22**		ug/l	1	20	BRL	111	75-120	0	30
cis-1,2-Dichloroethene	**24**		ug/l	1	20	BRL	122	80-120	2	30
Chloromethane	**17**		ug/l	1	20	BRL	87	56-121	4	30
Chloroform	**25**		ug/l	1	20	BRL	124	80-120	1	30
Chlorobenzene	**23**		ug/l	1	20	BRL	114	80-120	5	30
Chloroethane	**19**		ug/l	1	20	BRL	93	55-123	1	30
t-Butyl alcohol	**210**		ug/l	50	200	BRL	103	60-130	3	30
1,3,5-Trimethylbenzene	**22**		ug/l	5	20	BRL	108	75-120	2	30
Trichlorofluoromethane	**21**		ug/l	1	20	BRL	106	55-135	5	30
Carbon Tetrachloride	**27**		ug/l	1	20	BRL	135	64-134	1	30
trans-1,4-Dichloro-2-butene	**86**		ug/l	50	100	BRL	86	33-143	2	30
trans-1,3-Dichloropropene	**20**		ug/l	1	20	BRL	102	67-120	2	30
trans-1,2-Dichloroethene	**25**		ug/l	1	20	BRL	125	80-120	4	30
Toluene	**22**		ug/l	1	20	BRL	112	80-120	3	30
Tetrahydrofuran	**110**		ug/l	10	100	BRL	109	54-144	2	30
Trichloroethene	**25**		ug/l	1	20	BRL	124	80-120	3	30
tert-Butylbenzene	**21**		ug/l	5	20	BRL	107	78-120	6	30
Methyl Tertiary Butyl Ether	**20**		ug/l	1	20	BRL	101	69-122	2	30
t-Amyl methyl ether	**20**		ug/l	5	20	BRL	99	66-120	2	30
Styrene	**22**		ug/l	5	20	BRL	111	80-120	4	30
sec-Butylbenzene	**22**		ug/l	5	20	BRL	108	77-120	3	30
p-Isopropyltoluene	**22**		ug/l	5	20	BRL	109	76-120	2	30
o-Xylene	**22**		ug/l	1	20	BRL	111	80-120	5	30
n-Propylbenzene	**22**		ug/l	5	20	BRL	108	79-121	2	30
n-Butylbenzene	**20**		ug/l	5	20	BRL	100	76-120	3	30
Naphthalene	**18**		ug/l	5	20	BRL	91	53-124	3	30
Methylene Chloride	**22**		ug/l	1	20	BRL	112	80-120	2	30
Tetrachloroethene	**25**		ug/l	1	20	BRL	125	80-120	4	30
1,2,3-Trichlorobenzene	**20**		ug/l	5	20	BRL	101	66-120	1	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
Matrix Spike Dup (9929802)			**Source: SC52429-02**		Prepared & Analyzed: 15-Dec-18					
1,2-Dichloropropane	**21**		ug/l	1	20	BRL	107	80-120	1	30
1,3-Dichloropropane	**21**		ug/l	1	20	BRL	103	80-120	1	30
1,2-Dichloroethane	**24**		ug/l	1	20	BRL	119	73-124	0	30
1,2-Dichlorobenzene	**22**		ug/l	5	20	BRL	110	80-120	2	30
1,2-Dibromoethane	**22**		ug/l	1	20	BRL	109	77-120	4	30
1,2-Dibromo-3-chloropropane	**19**		ug/l	5	20	BRL	94	47-131	2	30
1,2,4-Trimethylbenzene	**21**		ug/l	5	20	BRL	107	75-120	2	30
Carbon Disulfide	**21**		ug/l	5	20	BRL	105	65-128	2	30
1,2,3-Trichloropropane	**20**		ug/l	5	20	BRL	101	75-124	2	30
1,3,5-Trichlorobenzene	**21**		ug/l	5	20	BRL	105	66-123	4	30
1,1-Dichloropropene	**24**		ug/l	5	20	BRL	122	78-120	2	30
1,1-Dichloroethene	**25**		ug/l	1	20	BRL	124	80-131	2	30
1,1-Dichloroethane	**22**		ug/l	1	20	BRL	109	80-120	0	30
1,1,2-Trichloroethane	**22**		ug/l	1	20	BRL	110	80-120	4	30
1,1,2,2-Tetrachloroethane	**19**		ug/l	1	20	BRL	94	72-120	2	30
1,1,1-Trichloroethane	**26**		ug/l	1	20	BRL	130	67-126	2	30
1,1,1,2-Tetrachloroethane	**23**		ug/l	1	20	BRL	114	78-120	4	30
Vinyl Chloride	**19**		ug/l	1	20	BRL	93	56-120	1	30
1,2,4-Trichlorobenzene	**21**		ug/l	5	20	BRL	103	63-120	2	30
Acetone	**150**		ug/l	20	150	BRL	98	54-157	2	30
Bromomethane	**17**		ug/l	1	20	BRL	86	53-128	2	30
Bromoform	**20**		ug/l	4	20	BRL	102	51-120	2	30
Bromodichloromethane	**24**		ug/l	1	20	BRL	121	71-120	1	30
Bromochloromethane	**23**		ug/l	5	20	BRL	113	80-120	4	30
Bromobenzene	**22**		ug/l	5	20	BRL	109	80-120	3	30
Benzene	**23**		ug/l	1	20	BRL	116	80-120	2	30
Acrylonitrile	**89**		ug/l	20	100	BRL	89	60-129	1	30
1,3-Dichlorobenzene	**22**		ug/l	5	20	BRL	110	80-120	3	30
4-Methyl-2-pentanone	**90**		ug/l	10	100	BRL	90	62-133	2	30
4-Chlorotoluene	**22**		ug/l	5	20	BRL	108	80-120	5	30
2-Hexanone	**83**		ug/l	10	100	BRL	83	56-135	1	30
2-Chlorotoluene	**22**		ug/l	5	20	BRL	110	80-120	2	30
2-Butanone	**130**		ug/l	10	150	BRL	89	59-135	3	30
2,2-Dichloropropane	**23**		ug/l	1	20	BRL	117	55-142	3	30
1,4-Dioxane	**610**		ug/l	250	500	BRL	122	63-146	2	30
1,4-Dichlorobenzene	**22**		ug/l	5	20	BRL	109	80-120	2	30
Surrogate: 4-Bromofluorobenzene	*50*		ug/l		*50*		*101*	*80-120*		
Surrogate: 1,2-Dichloroethane-d4	*51*		ug/l		*50*		*102*	*80-120*		
Surrogate: Toluene-d8	*47*		ug/l		*50*		*95*	*80-120*		
Surrogate: Dibromofluoromethane	*53*		ug/l		*50*		*106*	*80-120*		
LCS (LCSL21QL183491AA)					Prepared & Analyzed: 15-Dec-18					
Dibromomethane	**23**		ug/l	1	20		113	80-120		
Chlorobenzene	**22**		ug/l	1	20		109	80-120		
4-Chlorotoluene	**20**		ug/l	5	20		101	80-120		
4-Methyl-2-pentanone	**87**		ug/l	10	100		87	62-133		
Acetone	**170**		ug/l	20	150		112	54-157		
Acrylonitrile	**88**		ug/l	20	100		88	60-129		
Benzene	**21**		ug/l	1	20		107	80-120		
Bromobenzene	**20**		ug/l	5	20		102	80-120		
Bromochloromethane	**22**		ug/l	5	20		111	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
LCS (LCSL21QL183491AA)					Prepared & Analyzed: 15-Dec-18					
Bromodichloromethane	**23**		ug/l	1	20		116	71-120		
Bromoform	**21**		ug/l	4	20		104	51-120		
Bromomethane	**15**		ug/l	1	20		75	53-128		
m+p-Xylene	**43**		ug/l	5	40		107	80-120		
Carbon Tetrachloride	**24**		ug/l	1	20		119	64-134		
2-Butanone	**130**		ug/l	10	150		85	59-135		
Chloroethane	**16**		ug/l	1	20		79	55-123		
Chloromethane	**15**		ug/l	1	20		74	56-121		
cis-1,3-Dichloropropene	**21**		ug/l	1	20		107	75-120		
Dibromochloromethane	**23**		ug/l	1	20		115	71-120		
Dichlorodifluoromethane	**16**		ug/l	1	20		78	41-127		
Ethyl ether	**16**		ug/l	5	20		82	59-141		
Ethyl t-butyl ether	**18**		ug/l	1	20		89	68-121		
Ethylbenzene	**21**		ug/l	1	20		105	80-120		
Freon 113	**21**		ug/l	10	20		107	73-139		
Hexachlorobutadiene	**18**		ug/l	5	20		91	63-120		
Isopropylbenzene	**21**		ug/l	5	20		107	80-120		
Carbon Disulfide	**18**		ug/l	5	20		90	65-128		
1,2-Dibromoethane	**22**		ug/l	1	20		110	77-120		
di-Isopropyl ether	**17**		ug/l	1	20		84	70-124		
1,1,1,2-Tetrachloroethane	**22**		ug/l	1	20		109	78-120		
1,1,1-Trichloroethane	**23**		ug/l	1	20		116	67-126		
1,1,2,2-Tetrachloroethane	**18**		ug/l	1	20		92	72-120		
1,1,2-Trichloroethane	**21**		ug/l	1	20		107	80-120		
1,1-Dichloroethane	**20**		ug/l	1	20		101	80-120		
1,1-Dichloroethene	**21**		ug/l	1	20		107	80-131		
1,1-Dichloropropene	**22**		ug/l	5	20		108	78-120		
1,2,3-Trichlorobenzene	**19**		ug/l	5	20		95	66-120		
1,2,3-Trichloropropane	**20**		ug/l	5	20		102	75-124		
1,2,4-Trichlorobenzene	**20**		ug/l	5	20		99	63-120		
2-Hexanone	**80**		ug/l	10	100		80	56-135		
1,2-Dibromo-3-chloropropane	**19**		ug/l	5	20		95	47-131		
2-Chlorotoluene	**20**		ug/l	5	20		102	80-120		
1,2-Dichlorobenzene	**21**		ug/l	5	20		106	80-120		
1,2-Dichloroethane	**23**		ug/l	1	20		117	73-124		
1,2-Dichloropropane	**20**		ug/l	1	20		101	80-120		
1,3,5-Trichlorobenzene	**20**		ug/l	5	20		100	66-123		
1,3,5-Trimethylbenzene	**20**		ug/l	5	20		100	75-120		
1,3-Dichlorobenzene	**21**		ug/l	5	20		105	80-120		
1,3-Dichloropropane	**20**		ug/l	1	20		100	80-120		
1,4-Dichlorobenzene	**21**		ug/l	5	20		104	80-120		
1,4-Dioxane	**670**		ug/l	250	500		133	63-146		
2,2-Dichloropropane	**20**		ug/l	1	20		102	55-142		
cis-1,2-Dichloroethene	**23**		ug/l	1	20		114	80-120		
1,2,4-Trimethylbenzene	**20**		ug/l	5	20		101	75-120		
t-Amyl methyl ether	**19**		ug/l	5	20		96	66-120		
Trichlorofluoromethane	**18**		ug/l	1	20		89	55-135		
Trichloroethene	**23**		ug/l	1	20		113	80-120		
trans-1,4-Dichloro-2-butene	**85**		ug/l	50	100		85	33-143		
trans-1,3-Dichloropropene	**20**		ug/l	1	20		101	67-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
LCS (LCSL21QL183491AA)						Prepared & Analyzed: 15-Dec-18				
trans-1,2-Dichloroethene	**23**		ug/l	1	20		114	80-120		
Toluene	**21**		ug/l	1	20		104	80-120		
Tetrahydrofuran	**130**		ug/l	10	100		126	54-144		
Tetrachloroethene	**23**		ug/l	1	20		114	80-120		
tert-Butylbenzene	**19**		ug/l	5	20		93	78-120		
t-Butyl alcohol	**220**		ug/l	50	200		109	60-130		
Vinyl Chloride	**15**		ug/l	1	20		77	56-120		
Styrene	**21**		ug/l	5	20		106	80-120		
Methyl Tertiary Butyl Ether	**19**		ug/l	1	20		96	69-122		
sec-Butylbenzene	**20**		ug/l	5	20		99	77-120		
Chloroform	**23**		ug/l	1	20		115	80-120		
p-Isopropyltoluene	**20**		ug/l	5	20		101	76-120		
o-Xylene	**21**		ug/l	1	20		106	80-120		
n-Propylbenzene	**20**		ug/l	5	20		100	79-121		
n-Butylbenzene	**19**		ug/l	5	20		93	76-120		
Naphthalene	**18**		ug/l	5	20		88	53-124		
Methylene Chloride	**21**		ug/l	1	20		104	80-120		
Surrogate: Dibromofluoromethane	*53*		ug/l		*50*		*106*	*80-120*		
Surrogate: 1,2-Dichloroethane-d4	*50*		ug/l		*50*		*101*	*80-120*		
Surrogate: Toluene-d8	*48*		ug/l		*50*		*96*	*80-120*		
Surrogate: 4-Bromofluorobenzene	*49*		ug/l		*50*		*99*	*80-120*		
LCS (LCSL22QL183491AA)						Prepared & Analyzed: 15-Dec-18				
Ethanol	**400**	J.	ug/l	750	500		80	31-180		
Blank (VBLKL21BL183491AA)						Prepared & Analyzed: 15-Dec-18				
Chloroethane	< 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				-		
Bromobenzene	< 5		ug/l	5				-		
Bromochloromethane	< 5		ug/l	5				-		
Bromodichloromethane	< 1		ug/l	1				-		
Bromoform	< 4		ug/l	4				-		
Bromomethane	< 1		ug/l	1				-		
Carbon Disulfide	< 5		ug/l	5				-		
Carbon Tetrachloride	< 1		ug/l	1				-		
Freon 113	< 10		ug/l	10				-		
1,1,1,2-Tetrachloroethane	< 1		ug/l	1				-		
Ethylbenzene	< 1		ug/l	1				-		
Ethyl ether	< 5		ug/l	5				-		
Chloroform	< 1		ug/l	1				-		
Chloromethane	< 1		ug/l	1				-		
cis-1,2-Dichloroethene	< 1		ug/l	1				-		
cis-1,3-Dichloropropene	< 1		ug/l	1				-		
Dibromochloromethane	< 1		ug/l	1				-		
Dibromomethane	< 1		ug/l	1				-		
Dichlorodifluoromethane	< 1		ug/l	1				-		
di-Isopropyl ether	< 1		ug/l	1				-		
Ethyl t-butyl ether	< 1		ug/l	1				-		
Ethanol	< 750		ug/l	750				-		
1,1-Dichloroethane	< 1		ug/l	1				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
Blank (VBLKL21BL183491AA)						Prepared & Analyzed: 15-Dec-18				
Chlorobenzene	< 1		ug/l	1				-		
1,3-Dichloropropane	< 1		ug/l	1				-		
Acrylonitrile	< 20		ug/l	20				-		
Benzene	< 1		ug/l	1				-		
o-Xylene	< 1		ug/l	1				-		
Hexachlorobutadiene	< 5		ug/l	5				-		
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				-		
2,2-Dichloropropane	< 1		ug/l	1				-		
1,3,5-Trichlorobenzene	< 5		ug/l	5				-		
1,4-Dichlorobenzene	< 5		ug/l	5				-		
1,1-Dichloroethene	< 1		ug/l	1				-		
1,3-Dichlorobenzene	< 5		ug/l	5				-		
1,3,5-Trimethylbenzene	< 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				-		
1,2-Dibromo-3-chloropropane	< 5		ug/l	5				-		
1,2,4-Trimethylbenzene	< 5		ug/l	5				-		
1,2,4-Trichlorobenzene	< 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				-		
1,4-Dioxane	< 250		ug/l	250				-		
Trichloroethene	< 1		ug/l	1				-		
Isopropylbenzene	< 5		ug/l	5				-		
n-Butylbenzene	< 5		ug/l	5				-		
Trichlorofluoromethane	< 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				-		
Tetrahydrofuran	< 10		ug/l	10				-		
Tetrachloroethene	< 1		ug/l	1				-		
tert-Butylbenzene	< 5		ug/l	5				-		
t-Butyl alcohol	< 50		ug/l	50				-		
m+p-Xylene	< 5		ug/l	5				-		
Styrene	< 5		ug/l	5				-		
sec-Butylbenzene	< 5		ug/l	5				-		
p-Isopropyltoluene	< 5		ug/l	5				-		
Vinyl Chloride	< 1		ug/l	1				-		
n-Propylbenzene	< 5		ug/l	5				-		
Naphthalene	< 5		ug/l	5				-		
t-Amyl methyl ether	< 5		ug/l	5				-		
Methylene Chloride	< 1		ug/l	1				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183491AA - SW-846 5030C										
Blank (VBLKL21BL183491AA)						Prepared & Analyzed: 15-Dec-18				
Methyl Tertiary Butyl Ether	< 1		ug/l	1				-		
Surrogate: 1,2-Dichloroethane-d4	*52*		ug/l		*50*		*104*	*80-120*		
Surrogate: 4-Bromofluorobenzene	*48*		ug/l		*50*		*97*	*80-120*		
Surrogate: Dibromofluoromethane	*52*		ug/l		*50*		*105*	*80-120*		
Surrogate: Toluene-d8	*47*		ug/l		*50*		*95*	*80-120*		
Batch L183513AA - SW-846 5030C										
LCS (LCSL28QL183513AA)						Prepared & Analyzed: 17-Dec-18				
Dichlorodifluoromethane	**14**		ug/l	1	20		71	41-127		
m+p-Xylene	**47**		ug/l	5	40		117	80-120		
Isopropylbenzene	**23**		ug/l	5	20		117	80-120		
1,1,2,2-Tetrachloroethane	**21**		ug/l	1	20		105	72-120		
Hexachlorobutadiene	**19**		ug/l	5	20		96	63-120		
Freon 113	**22**		ug/l	10	20		109	73-139		
Ethylbenzene	**23**		ug/l	1	20		115	80-120		
Ethyl t-butyl ether	**20**		ug/l	1	20		100	68-121		
cis-1,2-Dichloroethene	**24**		ug/l	1	20		122	80-120		
di-Isopropyl ether	**21**		ug/l	1	20		105	70-124		
Chloroform	**23**		ug/l	1	20		116	80-120		
Dibromomethane	**23**		ug/l	1	20		113	80-120		
Dibromochloromethane	**22**		ug/l	1	20		111	71-120		
cis-1,3-Dichloropropene	**22**		ug/l	1	20		110	75-120		
Chloroethane	**15**		ug/l	1	20		76	55-123		
Tetrachloroethene	**23**		ug/l	1	20		117	80-120		
Methyl Tertiary Butyl Ether	**21**		ug/l	1	20		103	69-122		
Chloromethane	**16**		ug/l	1	20		82	56-121		
Ethyl ether	**20**		ug/l	5	20		98	59-141		
Chlorobenzene	**23**		ug/l	1	20		115	80-120		
Vinyl Chloride	**17**		ug/l	1	20		84	56-120		
Trichlorofluoromethane	**16**		ug/l	1	20		80	55-135		
Trichloroethene	**24**		ug/l	1	20		118	80-120		
trans-1,4-Dichloro-2-butene	**86**		ug/l	50	100		86	33-143		
trans-1,3-Dichloropropene	**22**		ug/l	1	20		110	67-120		
trans-1,2-Dichloroethene	**25**		ug/l	1	20		123	80-120		
Toluene	**24**		ug/l	1	20		118	80-120		
Tetrahydrofuran	**110**		ug/l	10	100		109	54-144		
t-Butyl alcohol	**200**		ug/l	50	200		102	60-130		
tert-Butylbenzene	**20**		ug/l	5	20		100	78-120		
Methylene Chloride	**23**		ug/l	1	20		116	80-120		
t-Amyl methyl ether	**21**		ug/l	5	20		103	66-120		
Styrene	**23**		ug/l	5	20		116	80-120		
sec-Butylbenzene	**22**		ug/l	5	20		112	77-120		
p-Isopropyltoluene	**22**		ug/l	5	20		111	76-120		
o-Xylene	**23**		ug/l	1	20		116	80-120		
n-Propylbenzene	**23**		ug/l	5	20		115	79-121		
n-Butylbenzene	**21**		ug/l	5	20		106	76-120		
Naphthalene	**20**		ug/l	5	20		98	53-124		
Bromobenzene	**22**		ug/l	5	20		110	80-120		
2,2-Dichloropropane	**21**		ug/l	1	20		103	55-142		
1,2-Dichloroethane	**22**		ug/l	1	20		108	73-124		
1,2-Dichloropropane	**23**		ug/l	1	20		115	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183513AA - SW-846 5030C										
LCS (LCSL28QL183513AA)					Prepared & Analyzed: 17-Dec-18					
1,3,5-Trichlorobenzene	**21**		ug/l	5	20		104	66-123		
1,3,5-Trimethylbenzene	**22**		ug/l	5	20		112	75-120		
1,3-Dichlorobenzene	**22**		ug/l	5	20		112	80-120		
Carbon Tetrachloride	**22**		ug/l	1	20		110	64-134		
1,2-Dichlorobenzene	**22**		ug/l	5	20		112	80-120		
Bromodichloromethane	**21**		ug/l	1	20		106	71-120		
1,3-Dichloropropane	**22**		ug/l	1	20		110	80-120		
2-Butanone	**150**		ug/l	10	150		101	59-135		
2-Chlorotoluene	**23**		ug/l	5	20		113	80-120		
2-Hexanone	**94**		ug/l	10	100		94	56-135		
4-Chlorotoluene	**23**		ug/l	5	20		113	80-120		
4-Methyl-2-pentanone	**97**		ug/l	10	100		97	62-133		
1,1,1,2-Tetrachloroethane	**22**		ug/l	1	20		110	78-120		
1,1,1-Trichloroethane	**22**		ug/l	1	20		112	67-126		
1,4-Dichlorobenzene	**22**		ug/l	5	20		111	80-120		
Bromochloromethane	**21**		ug/l	5	20		107	80-120		
Carbon Disulfide	**22**		ug/l	5	20		112	65-128		
1,4-Dioxane	**680**		ug/l	250	500		136	63-146		
Bromoform	**19**		ug/l	4	20		97	51-120		
1,2-Dibromoethane	**23**		ug/l	1	20		114	77-120		
Benzene	**24**		ug/l	1	20		119	80-120		
Acrylonitrile	**100**		ug/l	20	100		104	60-129		
Acetone	**150**		ug/l	20	150		103	54-157		
1,1,2-Trichloroethane	**24**		ug/l	1	20		120	80-120		
1,2,4-Trimethylbenzene	**22**		ug/l	5	20		111	75-120		
1,1-Dichloroethene	**24**		ug/l	1	20		122	80-131		
1,1-Dichloropropene	**23**		ug/l	5	20		117	78-120		
Bromomethane	**14**		ug/l	1	20		68	53-128		
1,2,3-Trichlorobenzene	**21**		ug/l	5	20		103	66-120		
1,2,3-Trichloropropane	**22**		ug/l	5	20		108	75-124		
1,1-Dichloroethane	**22**		ug/l	1	20		112	80-120		
1,2,4-Trichlorobenzene	**21**		ug/l	5	20		105	63-120		
1,2-Dibromo-3-chloropropane	**20**		ug/l	5	20		99	47-131		
Surrogate: 1,2-Dichloroethane-d4	*50*		ug/l		*50*		*100*	*80-120*		
Surrogate: Toluene-d8	*51*		ug/l		*50*		*102*	*80-120*		
Surrogate: 4-Bromofluorobenzene	*52*		ug/l		*50*		*104*	*80-120*		
Surrogate: Dibromofluoromethane	*50*		ug/l		*50*		*100*	*80-120*		
LCSD (LCSL28YL183513AA)					Prepared & Analyzed: 17-Dec-18					
1,1-Dichloropropene	**22**		ug/l	5	20		110	78-120	6	30
1,2-Dibromo-3-chloropropane	**20**		ug/l	5	20		101	47-131	2	30
1,2,4-Trimethylbenzene	**22**		ug/l	5	20		111	75-120	0	30
1,2,4-Trichlorobenzene	**20**		ug/l	5	20		102	63-120	3	30
1,2,3-Trichloropropane	**22**		ug/l	5	20		109	75-124	1	30
1,2,3-Trichlorobenzene	**20**		ug/l	5	20		100	66-120	3	30
1,2-Dibromoethane	**23**		ug/l	1	20		114	77-120	0	30
1,1-Dichloroethene	**22**		ug/l	1	20		109	80-131	11	30
1,1-Dichloroethane	**22**		ug/l	1	20		111	80-120	1	30
1,1,2-Trichloroethane	**24**		ug/l	1	20		121	80-120	1	30
1,1,2,2-Tetrachloroethane	**23**		ug/l	1	20		113	72-120	7	30
1,1,1,2-Tetrachloroethane	**21**		ug/l	1	20		106	78-120	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183513AA - SW-846 5030C										
LCSD (LCSL28YL183513AA)					Prepared & Analyzed: 17-Dec-18					
Hexachlorobutadiene	**18**		ug/l	5	20		90	63-120	7	30
1,2-Dichlorobenzene	**22**		ug/l	5	20		112	80-120	1	30
1,1,1-Trichloroethane	**21**		ug/l	1	20		105	67-126	6	30
Freon 113	**21**		ug/l	10	20		103	73-139	5	30
cis-1,3-Dichloropropene	**22**		ug/l	1	20		111	75-120	1	30
n-Butylbenzene	**21**		ug/l	5	20		104	76-120	2	30
Naphthalene	**20**		ug/l	5	20		100	53-124	2	30
Methylene Chloride	**22**		ug/l	1	20		109	80-120	6	30
Methyl Tertiary Butyl Ether	**19**		ug/l	1	20		97	69-122	5	30
o-Xylene	**23**		ug/l	1	20		113	80-120	3	30
Isopropylbenzene	**23**		ug/l	5	20		113	80-120	4	30
sec-Butylbenzene	**22**		ug/l	5	20		110	77-120	2	30
Ethyl t-butyl ether	**20**		ug/l	1	20		100	68-121	0	30
Ethyl ether	**19**		ug/l	5	20		95	59-141	2	30
di-Isopropyl ether	**21**		ug/l	1	20		104	70-124	1	30
Dichlorodifluoromethane	**13**		ug/l	1	20		67	41-127	5	30
Dibromomethane	**23**		ug/l	1	20		113	80-120	1	30
Dibromochloromethane	**22**		ug/l	1	20		112	71-120	1	30
m+p-Xylene	**45**		ug/l	5	40		114	80-120	3	30
trans-1,2-Dichloroethene	**23**		ug/l	1	20		113	80-120	8	30
1,2-Dichloroethane	**22**		ug/l	1	20		108	73-124	1	30
Ethylbenzene	**22**		ug/l	1	20		111	80-120	3	30
Vinyl Chloride	**16**		ug/l	1	20		82	56-120	3	30
Trichlorofluoromethane	**15**		ug/l	1	20		75	55-135	6	30
Trichloroethene	**23**		ug/l	1	20		113	80-120	4	30
n-Propylbenzene	**23**		ug/l	5	20		114	79-121	1	30
trans-1,3-Dichloropropene	**22**		ug/l	1	20		108	67-120	1	30
p-Isopropyltoluene	**22**		ug/l	5	20		111	76-120	0	30
Toluene	**23**		ug/l	1	20		115	80-120	3	30
Tetrahydrofuran	**120**		ug/l	10	100		115	54-144	5	30
Tetrachloroethene	**23**		ug/l	1	20		113	80-120	3	30
tert-Butylbenzene	**20**		ug/l	5	20		99	78-120	1	30
t-Butyl alcohol	**200**		ug/l	50	200		101	60-130	1	30
t-Amyl methyl ether	**21**		ug/l	5	20		103	66-120	0	30
trans-1,4-Dichloro-2-butene	**87**		ug/l	50	100		87	33-143	1	30
1,3-Dichloropropane	**23**		ug/l	1	20		114	80-120	4	30
4-Methyl-2-pentanone	**100**		ug/l	10	100		101	62-133	4	30
4-Chlorotoluene	**22**		ug/l	5	20		112	80-120	0	30
2-Hexanone	**99**		ug/l	10	100		99	56-135	6	30
2-Chlorotoluene	**23**		ug/l	5	20		113	80-120	1	30
2,2-Dichloropropane	**20**		ug/l	1	20		98	55-142	5	30
Acetone	**150**		ug/l	20	150		102	54-157	0	30
1,4-Dichlorobenzene	**22**		ug/l	5	20		110	80-120	1	30
2-Butanone	**150**		ug/l	10	150		102	59-135	2	30
1,3-Dichlorobenzene	**22**		ug/l	5	20		112	80-120	0	30
1,3,5-Trimethylbenzene	**22**		ug/l	5	20		111	75-120	0	30
1,3,5-Trichlorobenzene	**21**		ug/l	5	20		103	66-123	0	30
cis-1,2-Dichloroethene	**24**		ug/l	1	20		120	80-120	2	30
Styrene	**23**		ug/l	5	20		114	80-120	2	30
1,2-Dichloropropane	**22**		ug/l	1	20		110	80-120	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183513AA - SW-846 5030C										
LCSD (LCSL28YL183513AA)					Prepared & Analyzed: 17-Dec-18					
1,4-Dioxane	**730**		ug/l	250	500		146	63-146	7	30
Bromochloromethane	**21**		ug/l	5	20		106	80-120	1	30
Bromomethane	**13**		ug/l	1	20		65	53-128	5	30
Bromoform	**19**		ug/l	4	20		94	51-120	3	30
Carbon Tetrachloride	**21**		ug/l	1	20		104	64-134	5	30
Chlorobenzene	**22**		ug/l	1	20		112	80-120	3	30
Acrylonitrile	**100**		ug/l	20	100		100	60-129	4	30
Carbon Disulfide	**20**		ug/l	5	20		100	65-128	11	30
Bromodichloromethane	**22**		ug/l	1	20		110	71-120	4	30
Chloroethane	**14**		ug/l	1	20		71	55-123	6	30
Bromobenzene	**22**		ug/l	5	20		112	80-120	2	30
Chloroform	**23**		ug/l	1	20		114	80-120	2	30
Chloromethane	**16**		ug/l	1	20		82	56-121	1	30
Benzene	**23**		ug/l	1	20		117	80-120	2	30
Surrogate: Toluene-d8	*50*		ug/l		*50*		*101*	*80-120*		
Surrogate: 1,2-Dichloroethane-d4	*51*		ug/l		*50*		*102*	*80-120*		
Surrogate: Dibromofluoromethane	*49*		ug/l		*50*		*99*	*80-120*		
Surrogate: 4-Bromofluorobenzene	*52*		ug/l		*50*		*104*	*80-120*		
LCS (LCSL29QL183513AA)					Prepared & Analyzed: 17-Dec-18					
Ethanol	**420**	J.	ug/l	750	500		85	31-180		
LCSD (LCSL29YL183513AA)					Prepared & Analyzed: 17-Dec-18					
Ethanol	**390**	J.	ug/l	750	500		77	31-180	9	30
Blank (VBLKL28BL183513AA)					Prepared & Analyzed: 17-Dec-18					
Methyl Tertiary Butyl Ether	< 1		ug/l	1				-		
m+p-Xylene	< 5		ug/l	5				-		
Isopropylbenzene	< 5		ug/l	5				-		
Hexachlorobutadiene	< 5		ug/l	5				-		
Freon 113	< 10		ug/l	10				-		
Ethylbenzene	< 1		ug/l	1				-		
Ethyl t-butyl ether	< 1		ug/l	1				-		
Ethyl ether	< 5		ug/l	5				-		
cis-1,3-Dichloropropene	< 1		ug/l	1				-		
Chloromethane	< 1		ug/l	1				-		
Methylene Chloride	< 1		ug/l	1				-		
di-Isopropyl ether	< 1		ug/l	1				-		
Dichlorodifluoromethane	< 1		ug/l	1				-		
Dibromomethane	< 1		ug/l	1				-		
Dibromochloromethane	< 1		ug/l	1				-		
cis-1,2-Dichloroethene	< 1		ug/l	1				-		
Trichloroethene	< 1		ug/l	1				-		
Chloroform	< 1		ug/l	1				-		
Ethanol	< 750		ug/l	750				-		
t-Butyl alcohol	< 50		ug/l	50				-		
Trichlorofluoromethane	< 1		ug/l	1				-		
1,1-Dichloroethane	< 1		ug/l	1				-		
Chloroethane	< 1		ug/l	1				-		
trans-1,4-Dichloro-2-butene	< 50		ug/l	50				-		
trans-1,2-Dichloroethene	< 1		ug/l	1				-		
Toluene	< 1		ug/l	1				-		
Tetrahydrofuran	< 10		ug/l	10				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183513AA - SW-846 5030C										
Blank (VBLKL28BL183513AA)					Prepared & Analyzed: 17-Dec-18					
trans-1,3-Dichloropropene	< 1		ug/l	1				-		
tert-Butylbenzene	< 5		ug/l	5				-		
Naphthalene	< 5		ug/l	5				-		
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				-		
n-Butylbenzene	< 5		ug/l	5				-		
Tetrachloroethene	< 1		ug/l	1				-		
1,2,3-Trichlorobenzene	< 5		ug/l	5				-		
1,1-Dichloropropene	< 5		ug/l	5				-		
1,3,5-Trimethylbenzene	< 5		ug/l	5				-		
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				-		
1,3-Dichloropropane	< 1		ug/l	1				-		
1,2,4-Trichlorobenzene	< 5		ug/l	5				-		
1,4-Dichlorobenzene	< 5		ug/l	5				-		
Vinyl Chloride	< 1		ug/l	1				-		
1,1-Dichloroethene	< 1		ug/l	1				-		
1,2,4-Trimethylbenzene	< 5		ug/l	5				-		
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				-		
1,1,1,2-Tetrachloroethane	< 1		ug/l	1				-		
1,2-Dibromo-3-chloropropane	< 5		ug/l	5				-		
Acetone	< 20		ug/l	20				-		
Carbon Tetrachloride	< 1		ug/l	1				-		
Carbon Disulfide	< 5		ug/l	5				-		
Bromomethane	< 1		ug/l	1				-		
Bromoform	< 4		ug/l	4				-		
Bromodichloromethane	< 1		ug/l	1				-		
Bromochloromethane	< 5		ug/l	5				-		
Bromobenzene	< 5		ug/l	5				-		
1,3-Dichlorobenzene	< 5		ug/l	5				-		
Acrylonitrile	< 20		ug/l	20				-		
Chlorobenzene	< 1		ug/l	1				-		
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				-		
2,2-Dichloropropane	< 1		ug/l	1				-		
1,4-Dioxane	< 250		ug/l	250				-		
Benzene	< 1		ug/l	1				-		
1,2,3-Trichloropropane	< 5		ug/l	5				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8260C										
Batch L183513AA - SW-846 5030C										
Blank (VBLKL28BL183513AA)					Prepared & Analyzed: 17-Dec-18					
Surrogate: Toluene-d8	*49*		ug/l		*50*		*98*	*80-120*		
Surrogate: 1,2-Dichloroethane-d4	*51*		ug/l		*50*		*103*	*80-120*		
Surrogate: Dibromofluoromethane	*50*		ug/l		*50*		*99*	*80-120*		
Surrogate: 4-Bromofluorobenzene	*50*		ug/l		*50*		*99*	*80-120*		
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
Matrix Spike (9929801)			**Source: SC52429-02**		Prepared: 11-Dec-18 Analyzed: 14-Dec-18					
bis(2-Chloroisopropyl)ether	**30**		ug/l	2	48	BRL	62	71-110		
4-Chloroaniline	**35**		ug/l	5	48	BRL	72	10-141		
4-Chloro-3-methylphenol	**48**		ug/l	2	48	BRL	99	79-120		
4-Bromophenyl-phenylether	**41**		ug/l	2	48	BRL	86	74-114		
4,6-Dinitro-2-methylphenol	**48**		ug/l	14	48	BRL	100	73-124		
3-Nitroaniline	**45**		ug/l	2	48	BRL	94	40-136		
3,3'-Dichlorobenzidine	**28**		ug/l	5	48	BRL	59	33-121		
2-Nitrophenol	**44**		ug/l	2	48	BRL	92	80-120		
2-Nitroaniline	**45**		ug/l	2	48	BRL	95	80-120		
4-Chlorophenyl-phenylether	**42**		ug/l	2	48	BRL	87	71-109		
2-Methylnaphthalene	**40**		ug/l	0.5	48	BRL	84	67-103		
4-Nitrophenol	**20**	J.	ug/l	29	48	BRL	42	13-74		
bis(2-Ethylhexyl)phthalate	**41**		ug/l	5	48	BRL	86	81-115		
2-Chloronaphthalene	**44**		ug/l	1	48	BRL	92	52-118		
2,6-Dinitrotoluene	**43**		ug/l	2	48	BRL	90	80-120		
2,4-Dinitrotoluene	**46**		ug/l	5	48	BRL	96	81-116		
2,4-Dinitrophenol	**97**		ug/l	29	96	BRL	101	34-144		
2-Methylphenol	**39**		ug/l	2	48	BRL	82	68-111		
Atrazine	**41**		ug/l	5	48	BRL	85	58-122		
bis(2-Chloroethoxy)methane	**41**		ug/l	2	48	BRL	85	77-109		
Benzyl alcohol	**35**		ug/l	29	48	BRL	73	47-108		
Benzoic acid	**42**		ug/l	19	96	BRL	44	10-47		
Benzo(k)fluoranthene	**41**		ug/l	0.5	48	BRL	85	77-112		
Benzo(g,h,i)perylene	**43**		ug/l	0.5	48	BRL	91	78-112		
Benzo(b)fluoranthene	**42**		ug/l	0.5	48	BRL	88	76-117		
Benzo(a)pyrene	**43**		ug/l	0.5	48	BRL	90	82-110		
Benzo(a)anthracene	**41**		ug/l	0.5	48	BRL	86	77-112		
4-Methylphenol	**37**		ug/l	2	48	BRL	77	58-106		
Benzaldehyde	**26**		ug/l	5	48	BRL	54	23-129		
2,4-Dimethylphenol	**37**		ug/l	2	48	BRL	77	64-101		
Anthracene	**42**		ug/l	0.5	48	BRL	88	82-109		
Aniline	**29**		ug/l	5	48	BRL	61	34-90		
Phenanthrene	**41**		ug/l	0.5	48	BRL	85	80-107		
Acetophenone	**39**		ug/l	2	48	BRL	81	72-108		
Acenaphthylene	**46**		ug/l	0.5	48	BRL	96	76-118		
Acenaphthene	**42**		ug/l	0.5	48	BRL	89	76-112		
Butylbenzylphthalate	**42**		ug/l	5	48	BRL	88	80-120		
4-Nitroaniline	**32**		ug/l	2	48	BRL	66	59-99		
Benzidine	**86**		ug/l	57	240	BRL	36	10-114		
Pentachloronitrobenzene	**2**	J.	ug/l	5		BRL		-		
2,4-Dichlorophenol	**43**		ug/l	2	48	BRL	89	80-120		
Hexachloroethane	**26**		ug/l	5	48	BRL	54	15-103		
Indeno(1,2,3-cd)pyrene	**44**		ug/l	0.5	48	BRL	92	80-111		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
Matrix Spike (9929801)			**Source: SC52429-02**			Prepared: 11-Dec-18 Analyzed: 14-Dec-18				
Isophorone	**42**		ug/l	2	48	BRL	87	79-115		
Naphthalene	**37**		ug/l	0.5	48	BRL	78	63-103		
Nitrobenzene	**39**		ug/l	2	48	BRL	82	78-108		
N-Nitrosodimethylamine	**29**		ug/l	5	48	BRL	61	42-79		
Hexachlorobutadiene	**34**		ug/l	2	48	BRL	72	10-119		
N-Nitrosodiphenylamine	**42**		ug/l	2	48	BRL	88	85-113		
Hexachlorobenzene	**45**		ug/l	0.5	48	BRL	93	75-113		
Pentachlorophenol	**35**		ug/l	5	48	BRL	74	56-129		
1,2-Dichlorobenzene	**30**		ug/l	2	48	BRL	63	27-114		
1,2,4-Trichlorobenzene	**37**		ug/l	2	48	BRL	77	37-114		
1,2,4,5-Tetrachlorobenzene	**39**		ug/l	2	48	BRL	82	71-103		
1,1'-Biphenyl	**40**		ug/l	2	48	BRL	84	68-109		
Phenol	**26**		ug/l	2	48	BRL	55	24-66		
Pyrene	**41**		ug/l	0.5	48	BRL	85	80-106		
Pyridine	**17**		ug/l	5	48	BRL	35	18-88		
N-Nitroso-di-n-propylamine	**36**		ug/l	2	48	BRL	75	71-114		
Chrysene	**42**		ug/l	0.5	48	BRL	88	75-109		
2,4,6-Trichlorophenol	**46**		ug/l	2	48	BRL	95	80-120		
2-Chlorophenol	**40**		ug/l	2	48	BRL	83	76-109		
2,4,5-Trichlorophenol	**46**		ug/l	2	48	BRL	96	80-120		
2,3,4,6-Tetrachlorophenol	**45**		ug/l	2	48	BRL	95	80-113		
1-Methylnaphthalene	**40**		ug/l	0.5	48	BRL	83	63-122		
1,4-Dichlorobenzene	**31**		ug/l	2	48	BRL	66	46-98		
1,3-Dichlorobenzene	**31**		ug/l	2	48	BRL	64	29-101		
1,2-Diphenylhydrazine	**38**		ug/l	2	48	BRL	80	52-135		
Hexachlorocyclopentadiene	**49**		ug/l	14	96	BRL	51	10-121		
Carbazole	**42**		ug/l	2	48	BRL	88	85-112		
bis(2-Chloroethyl)ether	**37**		ug/l	2	48	BRL	78	74-107		
Dibenz(a,h)anthracene	**44**		ug/l	0.5	48	BRL	93	80-120		
Dibenzofuran	**43**		ug/l	2	48	BRL	90	75-106		
Diethylphthalate	**46**		ug/l	5	48	BRL	96	65-120		
Dimethylphthalate	**44**		ug/l	5	48	BRL	92	22-139		
Di-n-butylphthalate	**44**		ug/l	5	48	BRL	92	80-120		
Di-n-octylphthalate	**43**		ug/l	5	48	BRL	90	79-123		
Fluoranthene	**44**		ug/l	0.5	48	BRL	91	78-113		
Fluorene	**43**		ug/l	0.5	48	BRL	90	77-109		
Caprolactam	**18**		ug/l	14	48	BRL	37	10-77		
Surrogate: Terphenyl-d14	*86*		ug/l		*96*		*90*	*58-117*		
Surrogate: 2-Fluorobiphenyl	*84*		ug/l		*96*		*87*	*59-104*		
Surrogate: 2,4,6-Tribromophenol	*190*		ug/l		*190*		*100*	*10-155*		
Surrogate: Phenol-d6	*98*		ug/l		*190*		*51*	*10-69*		
Surrogate: Nitrobenzene-d5	*81*		ug/l		*96*		*84*	*56-108*		
Surrogate: 2-Fluorophenol	*140*		ug/l		*190*		*71*	*10-95*		
Matrix Spike Dup (9929802)			**Source: SC52429-02**			Prepared: 11-Dec-18 Analyzed: 14-Dec-18				
1,2-Dichlorobenzene	**32**		ug/l	2	48	BRL	68	27-114	6	30
2,4,5-Trichlorophenol	**45**		ug/l	2	48	BRL	93	80-120	4	30
2,3,4,6-Tetrachlorophenol	**43**		ug/l	2	48	BRL	89	80-113	6	30
1-Methylnaphthalene	**40**		ug/l	0.5	48	BRL	84	63-122	0	30
1,4-Dichlorobenzene	**32**		ug/l	2	48	BRL	67	46-98	2	30
1,2-Diphenylhydrazine	**39**		ug/l	2	48	BRL	82	52-135	2	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
Matrix Spike Dup (9929802)			**Source: SC52429-02**		Prepared: 11-Dec-18 Analyzed: 14-Dec-18					
2,4,6-Trichlorophenol	**44**		ug/l	2	48	BRL	92	80-120	5	30
1,2,4-Trichlorobenzene	**38**		ug/l	2	48	BRL	80	37-114	5	30
1,2,4,5-Tetrachlorobenzene	**40**		ug/l	2	48	BRL	84	71-103	2	30
1,1'-Biphenyl	**39**		ug/l	2	48	BRL	82	68-109	3	30
1,3-Dichlorobenzene	**30**		ug/l	2	48	BRL	63	29-101	2	30
Caprolactam	**18**		ug/l	14	48	BRL	38	10-77	3	30
Di-n-octylphthalate	**44**		ug/l	5	48	BRL	93	79-123	2	30
Di-n-butylphthalate	**45**		ug/l	5	48	BRL	94	80-120	3	30
Dimethylphthalate	**43**		ug/l	5	48	BRL	89	22-139	3	30
Diethylphthalate	**44**		ug/l	5	48	BRL	93	65-120	4	30
Dibenzofuran	**41**		ug/l	2	48	BRL	86	75-106	6	30
Dibenz(a,h)anthracene	**45**		ug/l	0.5	48	BRL	94	80-120	1	30
2,4-Dichlorophenol	**43**		ug/l	2	48	BRL	91	80-120	2	30
Carbazole	**44**		ug/l	2	48	BRL	92	85-112	4	30
Hexachlorobenzene	**45**		ug/l	0.5	48	BRL	93	75-113	0	30
Butylbenzylphthalate	**44**		ug/l	5	48	BRL	92	80-120	5	30
bis(2-Ethylhexyl)phthalate	**44**		ug/l	5	48	BRL	92	81-115	7	30
bis(2-Chloroisopropyl)ether	**29**		ug/l	2	48	BRL	61	71-110	1	30
bis(2-Chloroethyl)ether	**38**		ug/l	2	48	BRL	79	74-107	1	30
bis(2-Chloroethoxy)methane	**39**		ug/l	2	48	BRL	82	77-109	4	30
2-Nitroaniline	**43**		ug/l	2	48	BRL	91	80-120	5	30
Benzoic acid	**41**		ug/l	19	95	BRL	43	10-47	2	30
Chrysene	**45**		ug/l	0.5	48	BRL	95	75-109	7	30
Nitrobenzene	**39**		ug/l	2	48	BRL	82	78-108	1	30
Pyridine	**19**		ug/l	5	48	BRL	39	18-88	12	30
Pyrene	**42**		ug/l	0.5	48	BRL	89	80-106	3	30
Phenol	**26**		ug/l	2	48	BRL	54	24-66	1	30
Phenanthrene	**42**		ug/l	0.5	48	BRL	88	80-107	4	30
Pentachlorophenol	**35**		ug/l	5	48	BRL	74	56-129	0	30
Pentachloronitrobenzene	< 5		ug/l	5		BRL		-		
N-Nitrosodiphenylamine	**43**		ug/l	2	48	BRL	90	85-113	2	30
Fluoranthene	**46**		ug/l	0.5	48	BRL	96	78-113	4	30
N-Nitrosodimethylamine	**29**		ug/l	5	48	BRL	60	42-79	3	30
Fluorene	**42**		ug/l	0.5	48	BRL	88	77-109	3	30
Naphthalene	**37**		ug/l	0.5	48	BRL	78	63-103	1	30
Isophorone	**41**		ug/l	2	48	BRL	87	79-115	0	30
Indeno(1,2,3-cd)pyrene	**44**		ug/l	0.5	48	BRL	93	80-111	0	30
Hexachloroethane	**27**		ug/l	5	48	BRL	57	15-103	5	30
Hexachlorocyclopentadiene	**49**		ug/l	14	95	BRL	51	10-121	0	30
Hexachlorobutadiene	**35**		ug/l	2	48	BRL	74	10-119	3	30
Benzo(k)fluoranthene	**42**		ug/l	0.5	48	BRL	89	77-112	4	30
N-Nitroso-di-n-propylamine	**37**		ug/l	2	48	BRL	77	71-114	2	30
2-Methylnaphthalene	**38**		ug/l	0.5	48	BRL	80	67-103	5	30
4-Chloro-3-methylphenol	**45**		ug/l	2	48	BRL	94	79-120	6	30
Benzo(g,h,i)perylene	**44**		ug/l	0.5	48	BRL	91	78-112	0	30
4,6-Dinitro-2-methylphenol	**48**		ug/l	14	48	BRL	101	73-124	1	30
Benzyl alcohol	**34**		ug/l	29	48	BRL	72	47-108	2	30
3,3'-Dichlorobenzidine	**33**		ug/l	5	48	BRL	70	33-121	16	30
4-Chloroaniline	**36**		ug/l	5	48	BRL	76	10-141	5	30
2-Methylphenol	**39**		ug/l	2	48	BRL	82	68-111	1	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
Matrix Spike Dup (9929802)			**Source: SC52429-02**		Prepared: 11-Dec-18 Analyzed: 14-Dec-18					
4-Bromophenyl-phenylether	**43**		ug/l	2	48	BRL	91	74-114	5	30
2-Chlorophenol	**39**		ug/l	2	48	BRL	82	76-109	2	30
2-Chloronaphthalene	**42**		ug/l	1	48	BRL	87	52-118	6	30
2,6-Dinitrotoluene	**42**		ug/l	2	48	BRL	89	80-120	1	30
2,4-Dinitrotoluene	**44**		ug/l	5	48	BRL	92	81-116	5	30
2,4-Dinitrophenol	**88**		ug/l	29	95	BRL	92	34-144	10	30
2,4-Dimethylphenol	**36**		ug/l	2	48	BRL	76	64-101	1	30
2-Nitrophenol	**43**		ug/l	2	48	BRL	89	80-120	3	30
Acetophenone	**38**		ug/l	2	48	BRL	80	72-108	2	30
Benzidine	**110**		ug/l	57	240	BRL	48	10-114	28	30
Benzaldehyde	**30**		ug/l	5	48	BRL	63	23-129	16	30
Atrazine	**42**		ug/l	5	48	BRL	89	58-122	4	30
Benzo(a)pyrene	**44**		ug/l	0.5	48	BRL	91	82-110	1	30
3-Nitroaniline	**43**		ug/l	2	48	BRL	91	40-136	4	30
Benzo(a)anthracene	**43**		ug/l	0.5	48	BRL	91	77-112	5	30
Aniline	**30**		ug/l	5	48	BRL	62	34-90	2	30
Anthracene	**42**		ug/l	0.5	48	BRL	89	82-109	0	30
Benzo(b)fluoranthene	**43**		ug/l	0.5	48	BRL	90	76-117	2	30
Acenaphthylene	**43**		ug/l	0.5	48	BRL	90	76-118	6	30
Acenaphthene	**40**		ug/l	0.5	48	BRL	85	76-112	5	30
4-Nitrophenol	**19**	J.	ug/l	29	48	BRL	40	13-74	5	30
4-Nitroaniline	**33**		ug/l	2	48	BRL	70	59-99	5	30
4-Methylphenol	**37**		ug/l	2	48	BRL	77	58-106	0	30
4-Chlorophenyl-phenylether	**41**		ug/l	2	48	BRL	85	71-109	3	30
Surrogate: 2,4,6-Tribromophenol	*190*		ug/l		*190*		*97*	*10-155*		
Surrogate: Phenol-d6	*99*		ug/l		*190*		*52*	*10-69*		
Surrogate: 2-Fluorobiphenyl	*80*		ug/l		*95*		*84*	*59-104*		
Surrogate: Nitrobenzene-d5	*81*		ug/l		*95*		*85*	*56-108*		
Surrogate: Terphenyl-d14	*90*		ug/l		*95*		*94*	*58-117*		
Surrogate: 2-Fluorophenol	*140*		ug/l		*190*		*73*	*10-95*		
LCS (P5WULCSQ345WAU026)					Prepared: 11-Dec-18 Analyzed: 13-Dec-18					
Atrazine	**44**		ug/l	5	50		89	58-122		
4-Nitroaniline	**36**		ug/l	2	50		71	59-99		
2-Nitrophenol	**46**		ug/l	2	50		92	80-120		
3,3'-Dichlorobenzidine	**35**		ug/l	5	50		70	33-121		
3-Nitroaniline	**44**		ug/l	2	50		89	40-136		
4,6-Dinitro-2-methylphenol	**50**		ug/l	15	50		99	73-124		
4-Bromophenyl-phenylether	**43**		ug/l	2	50		86	74-114		
4-Chloro-3-methylphenol	**48**		ug/l	2	50		96	79-120		
4-Chloroaniline	**35**		ug/l	5	50		69	10-141		
Benzo(b)fluoranthene	**43**		ug/l	0.5	50		87	76-117		
4-Methylphenol	**36**		ug/l	2	50		72	58-106		
2-Methylnaphthalene	**39**		ug/l	0.5	50		77	67-103		
4-Nitrophenol	**20**	J.	ug/l	30	50		41	13-74		
Acenaphthene	**41**		ug/l	0.5	50		83	76-112		
Acenaphthylene	**41**		ug/l	0.5	50		82	76-118		
Acetophenone	**41**		ug/l	2	50		82	72-108		
Aniline	**30**		ug/l	5	50		59	34-90		
Anthracene	**43**		ug/l	0.5	50		86	82-109		
Benzidine	**40**	J.	ug/l	60	250		16	10-114		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
LCS (P5WULCSQ345WAU026)					Prepared: 11-Dec-18 Analyzed: 13-Dec-18					
Benzo(a)anthracene	**45**		ug/l	0.5	50		89	77-112		
4-Chlorophenyl-phenylether	**42**		ug/l	2	50		84	71-109		
2,4,6-Trichlorophenol	**47**		ug/l	2	50		94	80-120		
1,1'-Biphenyl	**38**		ug/l	2	50		75	68-109		
1,2,4,5-Tetrachlorobenzene	**38**		ug/l	2	50		76	71-103		
1,2,4-Trichlorobenzene	**34**		ug/l	2	50		68	37-114		
1,2-Dichlorobenzene	**29**		ug/l	2	50		59	27-114		
1,2-Diphenylhydrazine	**40**		ug/l	2	50		81	52-135		
1,3-Dichlorobenzene	**27**		ug/l	2	50		54	29-101		
1,4-Dichlorobenzene	**29**		ug/l	2	50		57	46-98		
1-Methylnaphthalene	**39**		ug/l	0.5	50		77	63-122		
2-Nitroaniline	**44**		ug/l	2	50		88	80-120		
2,4,5-Trichlorophenol	**46**		ug/l	2	50		93	80-120		
2-Methylphenol	**40**		ug/l	2	50		81	68-111		
2,4-Dichlorophenol	**46**		ug/l	2	50		92	80-120		
2,4-Dimethylphenol	**38**		ug/l	2	50		76	64-101		
2,4-Dinitrophenol	**90**		ug/l	30	100		90	34-144		
2,4-Dinitrotoluene	**44**		ug/l	5	50		87	81-116		
2,6-Dinitrotoluene	**43**		ug/l	2	50		86	80-120		
2-Chloronaphthalene	**34**		ug/l	1	50		69	52-118		
2-Chlorophenol	**41**		ug/l	2	50		83	76-109		
Benzo(a)pyrene	**44**		ug/l	0.5	50		89	82-110		
2,3,4,6-Tetrachlorophenol	**43**		ug/l	2	50		86	80-113		
N-Nitrosodimethylamine	**35**		ug/l	5	50		70	42-79		
Benzo(g,h,i)perylene	**44**		ug/l	0.5	50		88	78-112		
Hexachlorobutadiene	**32**		ug/l	2	50		64	10-119		
Benzaldehyde	**37**		ug/l	5	50		74	23-129		
Hexachlorocyclopentadiene	**16**		ug/l	15	100		16	10-121		
Hexachloroethane	**24**		ug/l	5	50		49	15-103		
Indeno(1,2,3-cd)pyrene	**45**		ug/l	0.5	50		90	80-111		
Isophorone	**43**		ug/l	2	50		86	79-115		
Fluorene	**43**		ug/l	0.5	50		87	77-109		
Nitrobenzene	**41**		ug/l	2	50		82	78-108		
Hexachlorobenzene	**48**		ug/l	0.5	50		95	75-113		
N-Nitroso-di-n-propylamine	**38**		ug/l	2	50		75	71-114		
N-Nitrosodiphenylamine	**44**		ug/l	2	50		87	85-113		
Pentachloronitrobenzene	**46**		ug/l	5	50		92	71-113		
Pentachlorophenol	**32**		ug/l	5	50		65	56-129		
Phenanthrene	**44**		ug/l	0.5	50		88	80-107		
Phenol	**21**		ug/l	2	50		42	24-66		
Pyrene	**44**		ug/l	0.5	50		88	80-106		
Pyridine	**24**		ug/l	5	50		49	18-88		
Naphthalene	**36**		ug/l	0.5	50		71	63-103		
Carbazole	**45**		ug/l	2	50		91	85-112		
Benzyl alcohol	**38**		ug/l	30	50		76	47-108		
bis(2-Chloroethoxy)methane	**42**		ug/l	2	50		84	77-109		
bis(2-Chloroethyl)ether	**39**		ug/l	2	50		77	74-107		
bis(2-Chloroisopropyl)ether	**31**		ug/l	2	50		61	71-110		
Benzo(k)fluoranthene	**44**		ug/l	0.5	50		89	77-112		
Fluoranthene	**47**		ug/l	0.5	50		94	78-113		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
LCS (P5WULCSQ345WAU026)						Prepared: 11-Dec-18 Analyzed: 13-Dec-18				
Benzoic acid	**50**		ug/l	20	100		50	10-47		
Caprolactam	**22**		ug/l	15	50		44	10-77		
bis(2-Ethylhexyl)phthalate	**44**		ug/l	5	50		88	81-115		
Chrysene	**44**		ug/l	0.5	50		89	75-109		
Dibenz(a,h)anthracene	**45**		ug/l	0.5	50		90	80-120		
Dibenzofuran	**41**		ug/l	2	50		83	75-106		
Diethylphthalate	**42**		ug/l	5	50		84	65-120		
Dimethylphthalate	**38**		ug/l	5	50		75	22-139		
Di-n-butylphthalate	**46**		ug/l	5	50		93	80-120		
Di-n-octylphthalate	**46**		ug/l	5	50		91	79-123		
Butylbenzylphthalate	**45**		ug/l	5	50		90	80-120		
Surrogate: Terphenyl-d14	*91*		ug/l		*100*		*91*	*58-117*		
Surrogate: Phenol-d6	*87*		ug/l		*200*		*43*	*10-69*		
Surrogate: 2-Fluorophenol	*130*		ug/l		*200*		*65*	*10-95*		
Surrogate: Nitrobenzene-d5	*84*		ug/l		*100*		*84*	*56-108*		
Surrogate: 2-Fluorobiphenyl	*80*		ug/l		*100*		*80*	*59-104*		
Surrogate: 2,4,6-Tribromophenol	*190*		ug/l		*200*		*93*	*10-155*		
LCSD (P5WULCSY345WAU026)						Prepared: 11-Dec-18 Analyzed: 13-Dec-18				
Pentachloronitrobenzene	**48**		ug/l	5	50		96	71-113	4	30
Surrogate: 2,4,6-Tribromophenol	*210*		ug/l		*200*		*106*	*10-155*		
Surrogate: Phenol-d6	*93*		ug/l		*200*		*46*	*10-69*		
Surrogate: Nitrobenzene-d5	*84*		ug/l		*100*		*84*	*56-108*		
Surrogate: 2-Fluorobiphenyl	*88*		ug/l		*100*		*88*	*59-104*		
Surrogate: Terphenyl-d14	*98*		ug/l		*100*		*98*	*58-117*		
Surrogate: 2-Fluorophenol	*140*		ug/l		*200*		*71*	*10-95*		
Blank (PLKWU34B345WAU026)						Prepared: 11-Dec-18 Analyzed: 13-Dec-18				
Benzoic acid	< 20		ug/l	20				-		
Diethylphthalate	< 5		ug/l	5				-		
Dibenzofuran	< 2		ug/l	2				-		
Dibenz(a,h)anthracene	< 0.5		ug/l	0.5				-		
Chrysene	< 0.5		ug/l	0.5				-		
Carbazole	< 2		ug/l	2				-		
Caprolactam	< 15		ug/l	15				-		
Butylbenzylphthalate	< 5		ug/l	5				-		
bis(2-Ethylhexyl)phthalate	< 5		ug/l	5				-		
bis(2-Chloroisopropyl)ether	< 2		ug/l	2				-		
bis(2-Chloroethyl)ether	< 2		ug/l	2				-		
Benzyl alcohol	< 30		ug/l	30				-		
Di-n-octylphthalate	< 5		ug/l	5				-		
Benzo(k)fluoranthene	< 0.5		ug/l	0.5				-		
Benzo(g,h,i)perylene	< 0.5		ug/l	0.5				-		
Benzo(b)fluoranthene	< 0.5		ug/l	0.5				-		
Benzo(a)pyrene	< 0.5		ug/l	0.5				-		
Benzo(a)anthracene	< 0.5		ug/l	0.5				-		
Benzidine	< 60		ug/l	60				-		
bis(2-Chloroethoxy)methane	< 2		ug/l	2				-		
Isophorone	< 2		ug/l	2				-		
N-Nitrosodiphenylamine	< 2		ug/l	2				-		
Pentachloronitrobenzene	< 5		ug/l	5				-		
Pentachlorophenol	< 5		ug/l	5				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
Blank (PLKWU34B345WAU026)					Prepared: 11-Dec-18 Analyzed: 13-Dec-18					
Phenanthrene	< 0.5		ug/l	0.5				-		
Phenol	< 2		ug/l	2				-		
Pyrene	< 0.5		ug/l	0.5				-		
Pyridine	< 5		ug/l	5				-		
N-Nitrosodimethylamine	< 5		ug/l	5				-		
Dimethylphthalate	< 5		ug/l	5				-		
Naphthalene	< 0.5		ug/l	0.5				-		
Di-n-butylphthalate	< 5		ug/l	5				-		
Indeno(1,2,3-cd)pyrene	< 0.5		ug/l	0.5				-		
Hexachloroethane	< 5		ug/l	5				-		
Hexachlorocyclopentadiene	< 15		ug/l	15				-		
Hexachlorobutadiene	< 2		ug/l	2				-		
Hexachlorobenzene	< 0.5		ug/l	0.5				-		
Fluorene	< 0.5		ug/l	0.5				-		
Fluoranthene	< 0.5		ug/l	0.5				-		
Anthracene	< 0.5		ug/l	0.5				-		
Nitrobenzene	< 2		ug/l	2				-		
1-Methylnaphthalene	< 0.5		ug/l	0.5				-		
2-Chloronaphthalene	< 1		ug/l	1				-		
Benzaldehyde	< 5		ug/l	5				-		
2,4-Dinitrotoluene	< 5		ug/l	5				-		
2,4-Dinitrophenol	< 30		ug/l	30				-		
2,4-Dimethylphenol	< 2		ug/l	2				-		
2,4-Dichlorophenol	< 2		ug/l	2				-		
2,4,6-Trichlorophenol	< 2		ug/l	2				-		
Atrazine	< 5		ug/l	5				-		
2,3,4,6-Tetrachlorophenol	< 2		ug/l	2				-		
2-Chlorophenol	< 2		ug/l	2				-		
1,4-Dichlorobenzene	< 2		ug/l	2				-		
1,3-Dichlorobenzene	< 2		ug/l	2				-		
1,2-Diphenylhydrazine	< 2		ug/l	2				-		
1,2-Dichlorobenzene	< 2		ug/l	2				-		
1,2,4-Trichlorobenzene	< 2		ug/l	2				-		
1,2,4,5-Tetrachlorobenzene	< 2		ug/l	2				-		
1,1'-Biphenyl	< 2		ug/l	2				-		
N-Nitroso-di-n-propylamine	< 2		ug/l	2				-		
2,4,5-Trichlorophenol	< 2		ug/l	2				-		
4-Chloro-3-methylphenol	< 2		ug/l	2				-		
Aniline	< 5		ug/l	5				-		
Acetophenone	< 2		ug/l	2				-		
Acenaphthylene	< 0.5		ug/l	0.5				-		
Acenaphthene	< 0.5		ug/l	0.5				-		
4-Nitrophenol	< 30		ug/l	30				-		
4-Nitroaniline	< 2		ug/l	2				-		
4-Methylphenol	< 2		ug/l	2				-		
4-Chlorophenyl-phenylether	< 2		ug/l	2				-		
2,6-Dinitrotoluene	< 2		ug/l	2				-		
4-Chloroaniline	< 5		ug/l	5				-		
4-Bromophenyl-phenylether	< 2		ug/l	2				-		
4,6-Dinitro-2-methylphenol	< 15		ug/l	15				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 8270D										
Batch 18345WAU026 - SW-846 3510C										
Blank (PLKWU34B345WAU026)						Prepared: 11-Dec-18 Analyzed: 13-Dec-18				
3-Nitroaniline	< 2		ug/l	2				-		
3,3'-Dichlorobenzidine	< 5		ug/l	5				-		
2-Nitrophenol	< 2		ug/l	2				-		
2-Nitroaniline	< 2		ug/l	2				-		
2-Methylphenol	< 2		ug/l	2				-		
2-Methylnaphthalene	< 0.5		ug/l	0.5				-		
Surrogate: 2-Fluorobiphenyl	*74*		ug/l		*100*		*74*	*59-104*		
Surrogate: 2,4,6-Tribromophenol	*190*		ug/l		*200*		*97*	*10-155*		
Surrogate: Terphenyl-d14	*93*		ug/l		*100*		*93*	*58-117*		
Surrogate: Phenol-d6	*65*		ug/l		*200*		*32*	*10-69*		
Surrogate: 2-Fluorophenol	*110*		ug/l		*200*		*53*	*10-95*		
Surrogate: Nitrobenzene-d5	*80*		ug/l		*100*		*80*	*56-108*		

Notes and Definitions

B.	Estimated value - Detected in blank
J.	Estimated value
X	Estimated value - Defined in case narrative (X)
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.

SCS2429 By

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [X] 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: AECC
6308 Fly Road
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECC
Carol Beck
cbeck@aeccgroup.com

P.O No.: _____ Quote #: _____

Project No: 18-051
Site Name: 700 Out Parcel
Location: Syracuse State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List Preservative Code below: 2 - 4

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: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: 8260 TCL VOCs	8270 TCL SVOCs	6010/7470 TAL Metals	Check if chlorinated
SCS2429-01	MW-05	12/5/18	1114	G	GW	3	1		1	X	X	X	☐
02	MW-07	12/5/18	1216	G	GW	9	3		3	X	X	X	☐
03	MW-08	12/5/18	1447	G	GW	3	1		1	X	X	X	☐
04	MW-09	12/5/18	1343	G	GW	3	1		1	X	X	X	☐
05	MW-D	12/5/18	-	G	GW	3	1		1	X	X	X	☐
06	Trip Blank	-	-	-	-	2				X			☐
													☐
													☐
													☐
													☐

QA/QC Reporting Notes:
* additional charges may appply

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

MS/MSD

Relinquished by:	Received by:	Date:	Time:
Drew Brantner	FedEx	12/5/18	1550
FedEx	Arnwells	12/6/18	1047

Temp °C: Observed 1.2 | Correction Factor 0 | Corrected 1.2 | IR ID # 01

☒ EDD format: Excel, PDF
☒ E-mail to: rmckenna@aeccgroup.com
dbrantner@aeccgroup.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Batch Summary

183441404405

Subcontracted Analyses

P34404EB344404405
P34404EQ344404405
SC52429-01 (MW-05)
SC52429-03 (MW-08)
SC52429-04 (MW-09)
SC52429-06 (Trip Blank)
VBLKL21BL183491AA

183441404406

Subcontracted Analyses

9929801
9929802
9929803
P34404FB344404406
P34404FQ344404406
SC52429-02 (MW-07)
SC52429-03 (MW-08)
SC52429-04 (MW-09)
SC52429-05 (MW-D)

183450571306

Subcontracted Analyses

9929801
9929802
9929803
P34571FB345571306
P34571FQ345571306
SC52429-01 (MW-05)
SC52429-02 (MW-07)
SC52429-03 (MW-08)
SC52429-04 (MW-09)
SC52429-05 (MW-D)

18345WAU026

Subcontracted Analyses

9929801
9929802
P5WULCSQ345WAU026
P5WULCSY345WAU026
PLKWU34B345WAU026
SC52429-01 (MW-05)
SC52429-02 (MW-07)
SC52429-03 (MW-08)
SC52429-04 (MW-09)
SC52429-05 (MW-D)

L183491AA

Subcontracted Analyses

9929801
9929802
LCSL21QL183491AA
LCSL22QL183491AA
SC52429-01 (MW-05)
SC52429-02 (MW-07)

L183513AA

Subcontracted Analyses

LCSL28QL183513AA
LCSL28YL183513AA
LCSL29QL183513AA
LCSL29YL183513AA
SC52429-05 (MW-D)
VBLKL28BL183513AA