

Operation, Maintenance and Monitoring Report June 2018

**NOW Corporation
NYSDEC Site No. 3-14-008**

**Work Assignment No.
D007626-25**

Prepared for:

SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by:

AECOM Technical Services Northeast, Inc.
40 British American Boulevard
Latham, New York 12110

December 2018

December 7, 2018

Mr. Jeff Dyber, P.E.
NYSDEC Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Re: NOW Corporation - Site No. 3-14-008
O&M Summary Report: June 2018

Dear Mr. Dyber:

This monthly summary report describes the operation, monitoring and maintenance (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York, for a 31-day period (**May 23 – June 22, 2018**).

With the exceptions noted below, if any, the pump and treat system was online and operational throughout the reporting period. Approximately 533,500 gallons of water were treated. Discharge from the treatment system averaged approximately 17,200 gallons per day (gpd).

As of the last day of the reporting period, a total of 111,292,000 gallons of groundwater had been recovered and treated by the system since it became operational in February 1998.

Table 1 summarizes influent and effluent analytical data for water samples collected on June 22, 2018. **There were no exceedances of effluent limitations.** A copy of the analytical laboratory report is attached.

Table 2 summarizes selected operational data recorded on the sampling date.

There was no downtime during the reporting period. Pumps in recovery wells were operational throughout the 31-day period.

AECOM made one site visit to conduct the required system inspection, perform scheduled and unscheduled maintenance, and to collect water samples. Details for the current period follow:

June 22 – Performed monthly system inspection and influent and effluent sampling. Turned all recovery well pumps off to allow recharge prior to sampling to ensure all recovery wells were contributing to effluent and total influent samples. The VFD regulating the stripper blower was at 60 Hz upon arrival, and remained at that setting upon departure.

Page 2
Mr. Jeff Dyber
NYSDEC

Please feel free to contact me at (518) 951-2262, or at stephen.choiniere@aecom.com if you have any questions or comments regarding this report or the operation of the treatment system.

Sincerely,
AECOM Technical Services Northeast, Inc.

A handwritten signature in dark ink, appearing to read "Stephen Choiniere". The signature is fluid and cursive, with a long horizontal stroke at the end.

Stephen R. Choiniere
Project Manager

Table 1
Summary of Influent and Effluent Data
Sampling Date: June 22, 2018
NOW Corporation Site
NYSDEC Site No. 3-14-008
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations (units)	
			TW-1	TW-2A	TW-3	Monitor 6.5 to 8.5	gallons standard units
Quantity treated, per day		17,209					
pH	7.4	7.6					
Oil and Grease	1.09	<0.990	NA	NA	NA	15	mg/L
Total Cyanide	<0.010	<0.010	NA	NA	NA	0.01	mg/L
TDS	272	279	NA	NA	NA	1000	mg/L
TSS	1.6	0.2 J	NA	NA	NA	50	mg/L
Aluminum, Total	<25.0	<25.0	NA	NA	NA	Monitor	ug/L
Arsenic, Total	1.60 J	2.15 J	NA	NA	NA	100	ug/L
Barium, Total	52.6	71.3	NA	NA	NA	Monitor	ug/L
Chromium	1.9 J	2.6 J	NA	NA	NA	400	ug/L
Copper	3.7 J	<5.0	NA	NA	NA	24	ug/L
Iron	231	25.9 J	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	200	67.8	NA	NA	NA	Monitor	ug/L
Nickel	2.5 J	0.9 J	NA	NA	NA	200	ug/L
Zinc	4.4 J	<0.0250	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	105 D	<1.00	1.08	266 D	1.16	10	ug/L
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	1.2	ug/L
1,1-Dichloroethane	78.1	<1.00	28.5	106 D	6.32	10	ug/L
1,1-Dichloroethene	9.70	<0.50	10.3	9.90	0.77	0.5	ug/L
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	1.6	ug/L
2-Butanone	<2.00	1.11 J	<2.00	<2.00	<2.00	NL	ug/L
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	1.4	ug/L
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	10	ug/L
Chloroethane	<2.00	<2.00	<2.00	<2.00	<2.00	10	ug/L
cis -1,2-Dichloroethene	5.71	<1.00	3.09	9.83	<1.00	5	ug/L
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	10	ug/L
o-Xylene	<1.00	<1.00	<1.00	<1.00	<1.00	5	ug/L
m,p-Xylene	<2.00	<2.00	<2.00	<2.00	<2.00	10	ug/L
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	1.4	ug/L
Tertrahydrofuran	<2.00	4.94	<2.00	<2.00	<2.00	NL	ug/L
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	10	ug/L
Trichloroethene	144 D	<1.00	39.6	327 D	11.0	6	ug/L
Vinyl Chloride	<0.50	<0.50	<0.50		<0.50	0.6	ug/L

Notes:

- 1) Detected concentrations are presented in **bold** typeface, and are expressed in the units shown in far right column.
- 2) Effluent concentration boxed in **bold** denotes exceedance of effluent limitations.
- 3) NA indicates not analyzed.
- 4) "J" indicates an estimated concentration below the reporting limit (RL).
- 5) "B" denotes metal detected in method blank at concentration below the RL, but above the method detection limit.
- 6) "D" indicates result from a diluted sample.
- 7) NL indicates no effluent limitations specified.

Table 2
Summary of June 2018 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		6/22/18	Units
<i>TW-1</i>			
	Pumping Rate	2	GPM
	Water Level Above Transducer	14.82	feet
	Flow Meter Reading	9,246,900	gallons
	Pump Pressure	0	psi
<i>TW-2A</i>			
	Pumping Rate	17	GPM
	Water Level Above Transducer	33.76	feet
	Flow Meter Reading	16,035,800	gallons
	Pump Pressure	0	psi
<i>TW-3</i>			
	Pumping Rate	4	GPM
	Water Level Above Transducer	25.45	feet
	Flow Meter Reading	15,592,000	gallons
	Pump Pressure	0	psi
<i>VFD Setting</i>			
	Arrival	60	Hz
	Departure	60	Hz
<i>Air Stripper</i>			
	Stripper Blower Pressure	13.5	inches H ₂ O
	Air Temperature in Stripper	54	°F
<i>Effluent Flow</i>			
	Effluent Flow this period (calculated)	533,479	gallons
	Total Effluent Flow (calculated)	111,291,558	gallons

Report Date:
10-Jul-18 15:14

Laboratory Report SC47994

AECOM Environment
40 British American Boulevard
Latham, NY 12110
Attn: Stephen Choiniere

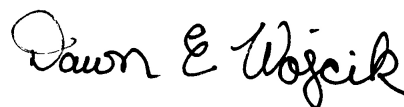
Project: Now Corp - Staatsburg, NY
Project #: 60276639-1

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 43 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: SC47994
Project: Now Corp - Staatsburg, NY
Project Number: 60276639-1

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC47994-01	EFF 60 062218	Ground Water	22-Jun-18 08:07	23-Jun-18 10:55
SC47994-02	INF 062218	Ground Water	22-Jun-18 07:51	23-Jun-18 10:55
SC47994-03	TW-1 062218	Ground Water	22-Jun-18 07:45	23-Jun-18 10:55
SC47994-04	TW-2A 062218	Ground Water	22-Jun-18 08:02	23-Jun-18 10:55
SC47994-05	TW-3 062218	Ground Water	22-Jun-18 07:58	23-Jun-18 10:55
SC47994-06	TB 062218	Aqueous	22-Jun-18 00:00	23-Jun-18 10:55

CASE NARRATIVE:

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

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

The samples were received 1.1 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 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
Isopropylbenzene
m,p-Xylene
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene

This affected the following samples:

1808820-BLK1
1808820-BS1
1808820-BSD1
EFF 60 062218
INF 062218
S819667-ICV1
S820372-CCV1
TB 062218
TW-1 062218
TW-2A 062218
TW-3 062218

S819667-ICV1

SW846 8260C

Calibration:

S819667-ICV1

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

Bromomethane (75%)

This affected the following samples:

1808820-BLK1
1808820-BS1
1808820-BSD1
EFF 60 062218
INF 062218
S820372-CCV1
TB 062218
TW-1 062218
TW-2A 062218
TW-3 062218

S820443-ICV1

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

1,1-Dichloroethane (78%)
Methyl tert-butyl ether (73%)

This affected the following samples:

1808988-BLK1
1808988-BS1
1808988-BSD1
1808988-MS1
1808988-MSD1
S820461-CCV1
TW-2A 062218

Blanks:

1808820-BLK1

This compound is a common laboratory contaminant.

Chloroform

1808988-BLK1

This compound is a common laboratory contaminant.

Chloroform

Laboratory Control Samples:

1808820 BS/BSD

2-Butanone (MEK) percent recoveries (129/135) 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:

EFF 60 062218
INF 062218
TB 062218
TW-1 062218
TW-2A 062218
TW-3 062218

SW846 8260C

Laboratory Control Samples:

1808820 BS/BSD

Trichlorofluoromethane (Freon 11) percent recoveries (65/70) 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:

EFF 60 062218
INF 062218
TB 062218
TW-1 062218
TW-2A 062218
TW-3 062218

1808820 BSD

Carbon disulfide RPD 25% (20%) is outside individual acceptance criteria.

1808988 BSD

1,1-Dichloroethane RPD 29% (20%) is outside individual acceptance criteria.

Spikes:

1808988-MS1 *Source: SC47994-02RE1*

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

Dichlorodifluoromethane (Freon12)

1808988-MSD1 *Source: SC47994-02RE1*

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

1,1,1-Trichloroethane
Dichlorodifluoromethane (Freon12)
Trichlorofluoromethane (Freon 11)

Samples:

S820372-CCV1

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

1,2-Dichloropropane (23.6%)
1,3-Dichloropropane (21.6%)
2,2-Dichloropropane (26.6%)
2-Butanone (MEK) (34.4%)
4-Methyl-2-pentanone (MIBK) (22.7%)
Chloromethane (43.3%)
Dichlorodifluoromethane (Freon12) (40.2%)
Vinyl chloride (20.5%)

This affected the following samples:

1808820-BLK1
1808820-BS1
1808820-BSD1
EFF 60 062218
INF 062218
TB 062218
TW-1 062218
TW-2A 062218
TW-3 062218

SW846 8260C

Samples:

S820461-CCV1

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

1,1,2-Trichlorotrifluoroethane (Freon 113) (22.7%)
1,3,5-Trimethylbenzene (20.4%)
Ethyl tert-butyl ether (-20.2%)
Hexachlorobutadiene (22.5%)
sec-Butylbenzene (20.5%)
Trichlorofluoromethane (Freon 11) (26.1%)
Vinyl chloride (20.7%)

This affected the following samples:

1808988-BLK1
1808988-BS1
1808988-BSD1
1808988-MS1
1808988-MSD1

SC47994-02RE1 *INF 062218*

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

SC47994-04RE1 *TW-2A 062218*

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

Sample Acceptance Check Form

Client: AECOM Environment - Latham, NY
Project: Now Corp - Staatsburg, NY / 60276639-1
Work Order: SC47994
Sample(s) received on: 6/23/2018

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

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

Summary of Hits

Lab ID: SC47994-01

Client ID: EFF 60 062218

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Total Dissolved Solids	279		5	mg/l	SM18-22 2540C
Total Suspended Solids	0.2	J	0.5	mg/l	SM2540D (11)
Arsenic	0.00215	J	0.00400	mg/l	SW846 6010C
Barium	0.0713		0.0050	mg/l	SW846 6010C
Chromium	0.0026	J	0.0050	mg/l	SW846 6010C
Iron	0.0259	J	0.125	mg/l	SW846 6010C
Manganese	0.0678		0.0040	mg/l	SW846 6010C
Nickel	0.0009	J	0.0050	mg/l	SW846 6010C
2-Butanone (MEK)	1.11	J	2.00	µg/l	SW846 8260C
Tetrahydrofuran	4.94		2.00	µg/l	SW846 8260C

Lab ID: SC47994-02

Client ID: INF 062218

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Oil & Grease	1.09		0.990	mg/l	EPA 1664B
Total Dissolved Solids	272		5	mg/l	SM18-22 2540C
Total Suspended Solids	1.6		0.5	mg/l	SM2540D (11)
Arsenic	0.00160	J	0.00400	mg/l	SW846 6010C
Barium	0.0526		0.0050	mg/l	SW846 6010C
Chromium	0.0019	J	0.0050	mg/l	SW846 6010C
Copper	0.0037	J	0.0050	mg/l	SW846 6010C
Iron	0.231		0.125	mg/l	SW846 6010C
Manganese	0.200		0.0040	mg/l	SW846 6010C
Nickel	0.0025	J	0.0050	mg/l	SW846 6010C
Zinc	0.0044	J	0.0250	mg/l	SW846 6010C
1,1,1-Trichloroethane	145	E	1.00	µg/l	SW846 8260C
1,1-Dichloroethane	78.1		1.00	µg/l	SW846 8260C
1,1-Dichloroethene	9.70		0.50	µg/l	SW846 8260C
cis-1,2-Dichloroethene	5.71		1.00	µg/l	SW846 8260C
Trichloroethene	195	E	1.00	µg/l	SW846 8260C

Lab ID: SC47994-02RE1

Client ID: INF 062218

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	105	D	10.0	µg/l	SW846 8260C
Trichloroethene	144	D	10.0	µg/l	SW846 8260C

Lab ID: SC47994-03

Client ID: TW-1 062218

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	1.08		1.00	µg/l	SW846 8260C
1,1-Dichloroethane	28.5		1.00	µg/l	SW846 8260C
1,1-Dichloroethene	10.3		0.50	µg/l	SW846 8260C
cis-1,2-Dichloroethene	3.09		1.00	µg/l	SW846 8260C
Trichloroethene	39.6		1.00	µg/l	SW846 8260C

Lab ID: SC47994-04**Client ID:** TW-2A 062218

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	331	E	1.00	µg/l	SW846 8260C
1,1-Dichloroethane	152	E	1.00	µg/l	SW846 8260C
1,1-Dichloroethene	9.90		0.50	µg/l	SW846 8260C
cis-1,2-Dichloroethene	9.83		1.00	µg/l	SW846 8260C
Trichloroethene	422	E	1.00	µg/l	SW846 8260C

Lab ID: SC47994-04RE1**Client ID:** TW-2A 062218

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	266	D	10.0	µg/l	SW846 8260C
1,1-Dichloroethane	106	D	10.0	µg/l	SW846 8260C
Trichloroethene	327	D	10.0	µg/l	SW846 8260C

Lab ID: SC47994-05**Client ID:** TW-3 062218

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	1.16		1.00	µg/l	SW846 8260C
1,1-Dichloroethane	6.32		1.00	µg/l	SW846 8260C
1,1-Dichloroethene	0.77		0.50	µg/l	SW846 8260C
Trichloroethene	11.0		1.00	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

EFF 60 062218

SC47994-01

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 08:07

Received

23-Jun-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	26-Jun-18	27-Jun-18	GMA	1808820	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)	1.11	J	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	< 0.50	U	µg/l	0.50	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

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

Sample Identification

EFF 60 062218

SC47994-01

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 08:07

Received

23-Jun-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	26-Jun-18	27-Jun-18	GMA	1808820	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	< 0.50	U	µg/l	0.50	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	4.94		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	103			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	79			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	96			70-130 %		"	"	"	"	"	"	

Extractable Petroleum HydrocarbonsPrepared by method General Preparation SVOC

Oil & Grease	< 1.00	U,OG	mg/l	1.00	0.915	1	EPA 1664B	06-Jul-18	09-Jul-18	SC	1809374	X
--------------	--------	------	------	------	-------	---	-----------	-----------	-----------	----	---------	---

Total Metals by EPA 200/6000 Series MethodsPrepared by method General Prep-Metal

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

Sample Identification

EFF 60 062218

SC47994-01

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 08:07

Received

23-Jun-18

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

Total Metals by EPA 200/6000 Series MethodsPrepared by method General Prep-Metal

Preservation

Field
Preserved;
pH<2
confirmed

N/A

1

EPA 200/6000
methods

26-Jun-18

KT

1808867

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3005A

7429-90-5	Aluminum	< 0.0250	U	mg/l	0.0250	0.0103	1	SW846 6010C	02-Jul-18	05-Jul-18	SJR/T	1809008	X
7440-38-2	Arsenic	0.00215	J	mg/l	0.00400	0.00138	1	"	"	03-Jul-18	"	"	X
7440-39-3	Barium	0.0713		mg/l	0.0050	0.0007	1	"	"	09-Jul-18	"	"	X
7440-47-3	Chromium	0.0026	J	mg/l	0.0050	0.0009	1	"	"	03-Jul-18	"	"	X
7440-50-8	Copper	< 0.0050	U	mg/l	0.0050	0.0023	1	"	"	05-Jul-18	"	"	X
7439-89-6	Iron	0.0259	J	mg/l	0.125	0.0045	1	"	"	09-Jul-18	"	"	X
7439-96-5	Manganese	0.0678		mg/l	0.0040	0.0019	1	"	"	03-Jul-18	"	"	X
7440-02-0	Nickel	0.0009	J	mg/l	0.0050	0.0009	1	"	"	05-Jul-18	"	"	X
7440-66-6	Zinc	< 0.0250	U	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	02-Jul-18	03-Jul-18	ABW	1809010	X
-----------	---------	-----------	---	------	---------	---------	---	--------------------	-----------	-----------	-----	---------	---

General Chemistry Parameters

57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00470	1	EPA 335.4 / SW846 9012B	27-Jun-18	27-Jun-18	RLT	1808920	X
	Total Dissolved Solids	279		mg/l	5	3	1	SM18-22 2540C	28-Jun-18	29-Jun-18	BD	1808990	X
	Total Suspended Solids	0.2	J	mg/l	0.5	0.2	1	SM2540D (11)	26-Jun-18	27-Jun-18	BD	1808812	X

Sample Identification

INF 062218

SC47994-02

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 07:51

Received

23-Jun-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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	26-Jun-18	27-Jun-18	GMA	1808820	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	78.1		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	9.70		µg/l	0.50	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	5.71		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

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

Sample Identification

INF 062218

SC47994-02

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 07:51

Received

23-Jun-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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	26-Jun-18	27-Jun-18	GMA	1808820	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	145	E	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	195	E	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	< 0.50	U	µg/l	0.50	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	112			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	116			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	121			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	115			70-130 %			"	"	"	"	"	
Re-analysis of Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
71-55-6	1,1,1-Trichloroethane	105	D	µg/l	10.0	2.45	10	SW846 8260C	28-Jun-18	28-Jun-18	GMA	1808988	X
79-01-6	Trichloroethene	144	D	µg/l	10.0	3.55	10	"	"	"	"	"	X

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

Sample Identification

INF 062218

SC47994-02

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 07:51

Received

23-Jun-18

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

Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %			SW846 8260C	28-Jun-18	28-Jun-18	GMA	1808988	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	109			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	"	

Extractable Petroleum Hydrocarbons

Prepared by method General Preparation SVOC

Oil & Grease	1.09	OG	mg/l	0.990	0.906	1	EPA 1664B	06-Jul-18	09-Jul-18	SC	1809374	X
--------------	------	----	------	-------	-------	---	-----------	-----------	-----------	----	---------	---

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	26-Jun-18		KT	1808867	
--------------	---------------------------------------	--	-----	--	--	---	-------------------------	-----------	--	----	---------	--

Total Metals by EPA 6000/7000 Series Methods

Prepared by method SW846 3005A

7429-90-5	Aluminum	< 0.0250	U	mg/l	0.0250	0.0103	1	SW846 6010C	02-Jul-18	05-Jul-18	SJR/T	1809008	X
7440-38-2	Arsenic	0.00160	J	mg/l	0.00400	0.00138	1	"	"	03-Jul-18	"	"	X
7440-39-3	Barium	0.0526		mg/l	0.0050	0.0007	1	"	"	09-Jul-18	"	"	X
7440-47-3	Chromium	0.0019	J	mg/l	0.0050	0.0009	1	"	"	03-Jul-18	"	"	X
7440-50-8	Copper	0.0037	J	mg/l	0.0050	0.0023	1	"	"	05-Jul-18	"	"	X
7439-89-6	Iron	0.231		mg/l	0.125	0.0045	1	"	"	09-Jul-18	"	"	X
7439-96-5	Manganese	0.200		mg/l	0.0040	0.0019	1	"	"	03-Jul-18	"	"	X
7440-02-0	Nickel	0.0025	J	mg/l	0.0050	0.0009	1	"	"	05-Jul-18	"	"	X
7440-66-6	Zinc	0.0044	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	02-Jul-18	03-Jul-18	ABW	1809010	X
-----------	---------	-----------	---	------	---------	---------	---	--------------------	-----------	-----------	-----	---------	---

General Chemistry Parameters

57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00470	1	EPA 335.4 / SW846 9012B	27-Jun-18	27-Jun-18	RLT	1808920	X
	Total Dissolved Solids	272		mg/l	5	3	1	SM18-22 2540C	28-Jun-18	29-Jun-18	BD	1808990	X
	Total Suspended Solids	1.6		mg/l	0.5	0.2	1	SM2540D (11)	26-Jun-18	27-Jun-18	BD	1808812	X

Sample Identification

TW-1 062218

SC47994-03

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 07:45

Received

23-Jun-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	26-Jun-18	27-Jun-18	GMA	1808820	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	28.5		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	10.3		µg/l	0.50	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	3.09		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

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

Sample Identification

TW-1 062218

SC47994-03

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 07:45

Received

23-Jun-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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	26-Jun-18	27-Jun-18	GMA	1808820	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	1.08		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	39.6		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	< 0.50	U	µg/l	0.50	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	103			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	81			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	96			70-130 %		"	"	"	"	"	"	

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

Sample Identification

TW-2A 062218

SC47994-04

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 08:02

Received

23-Jun-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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	26-Jun-18	27-Jun-18	GMA	1808820	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	152	E	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	9.90		µg/l	0.50	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	9.83		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

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

Sample Identification

TW-2A 062218

SC47994-04

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 08:02

Received

23-Jun-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	26-Jun-18	27-Jun-18	GMA	1808820	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	331	E	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	422	E	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	< 0.50	U	µg/l	0.50	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
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	120			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	109			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	121			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	119			70-130 %			"	"	"	"	"	
<u>Re-analysis of Volatile Organic Compounds</u>													
<u>by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
75-34-3	1,1-Dichloroethane	106	D	µg/l	10.0	2.92	10	SW846 8260C	28-Jun-18	28-Jun-18	GMA	1808988	X
71-55-6	1,1,1-Trichloroethane	266	D	µg/l	10.0	2.45	10	"	"	"	"	"	X

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

Sample Identification

TW-2A 062218

SC47994-04

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 08:02

Received

23-Jun-18

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

Volatile Organic CompoundsRe-analysis of Volatile Organic Compounds
by SW846 8260

GS1

79-01-6	Trichloroethene	327	D	µg/l	10.0	3.55	10	SW846 8260C	28-Jun-18	28-Jun-18	GMA	1808988	X
---------	-----------------	-----	---	------	------	------	----	-------------	-----------	-----------	-----	---------	---

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	"	

Sample Identification

TW-3 062218

SC47994-05

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 07:58

Received

23-Jun-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	26-Jun-18	27-Jun-18	GMA	1808820	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	6.32		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	0.77		µg/l	0.50	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

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

Sample Identification

TW-3 062218

SC47994-05

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

22-Jun-18 07:58

Received

23-Jun-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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	26-Jun-18	27-Jun-18	GMA	1808820	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	1.16		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	11.0		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	< 0.50	U	µg/l	0.50	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	101		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	100		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	84		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	98		70-130 %	"	"	"	"	"

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

Sample Identification

TB 062218
SC47994-06

Client Project #
60276639-1

Matrix
Aqueous

Collection Date/Time
22-Jun-18 00:00

Received
23-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													
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	26-Jun-18	27-Jun-18	GMA	1808820	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	< 0.50	U	µg/l	0.50	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

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

Sample Identification

TB 062218
SC47994-06

Client Project #
60276639-1

Matrix
Aqueous

Collection Date/Time
22-Jun-18 00:00

Received
23-Jun-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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	26-Jun-18	27-Jun-18	GMA	1808820	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	< 0.50	U	µg/l	0.50	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	102		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	102		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	92		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	98		70-130 %	"	"	"	"	"

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808820 - SW846 5030 Water MS										
Blank (1808820-BLK1)					<u>Prepared: 26-Jun-18 Analyzed: 27-Jun-18</u>					
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	0.41	001, J	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	< 0.50	U	µg/l	0.50						
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						

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1808820 - SW846 5030 Water MS										
<u>Blank (1808820-BLK1)</u>					<u>Prepared: 26-Jun-18 Analyzed: 27-Jun-18</u>					
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	< 0.50	U	µg/l	0.50						
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	49.8		µg/l		50.0		100	70-130		
Surrogate: Toluene-d8	50.7		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.2		µg/l		50.0		112	70-130		
Surrogate: Dibromofluoromethane	53.1		µg/l		50.0		106	70-130		
<u>LCS (1808820-BS1)</u>					<u>Prepared: 26-Jun-18 Analyzed: 27-Jun-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.2		µg/l		20.0		96	70-130		
Acetone	18.2		µg/l		20.0		91	70-130		
Acrylonitrile	25.1		µg/l		20.0		125	70-130		
Benzene	23.8		µg/l		20.0		119	70-130		
Bromobenzene	21.1		µg/l		20.0		106	70-130		
Bromochloromethane	22.0		µg/l		20.0		110	70-130		
Bromodichloromethane	18.7		µg/l		20.0		93	70-130		
Bromoform	18.6		µg/l		20.0		93	70-130		
Bromomethane	15.0		µg/l		20.0		75	70-130		
2-Butanone (MEK)	25.8		µg/l		20.0		129	70-130		
n-Butylbenzene	17.0		µg/l		20.0		85	70-130		
sec-Butylbenzene	16.8		µg/l		20.0		84	70-130		
tert-Butylbenzene	18.2		µg/l		20.0		91	70-130		
Carbon disulfide	23.0		µg/l		20.0		115	70-130		
Carbon tetrachloride	16.2		µg/l		20.0		81	70-130		
Chlorobenzene	20.8		µg/l		20.0		104	70-130		
Chloroethane	14.0		µg/l		20.0		70	70-130		
Chloroform	17.1		µg/l		20.0		86	70-130		

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808820 - SW846 5030 Water MS										
LCS (1808820-BS1)	Prepared: 26-Jun-18 Analyzed: 27-Jun-18									
Chloromethane	22.8		µg/l		20.0		114	70-130		
2-Chlorotoluene	18.5		µg/l		20.0		92	70-130		
4-Chlorotoluene	18.3		µg/l		20.0		91	70-130		
1,2-Dibromo-3-chloropropane	19.5		µg/l		20.0		98	70-130		
Dibromochloromethane	18.5		µg/l		20.0		92	70-130		
1,2-Dibromoethane (EDB)	21.4		µg/l		20.0		107	70-130		
Dibromomethane	19.9		µg/l		20.0		99	70-130		
1,2-Dichlorobenzene	19.8		µg/l		20.0		99	70-130		
1,3-Dichlorobenzene	16.9		µg/l		20.0		85	70-130		
1,4-Dichlorobenzene	19.1		µg/l		20.0		95	70-130		
Dichlorodifluoromethane (Freon12)	18.3		µg/l		20.0		91	70-130		
1,1-Dichloroethane	21.4		µg/l		20.0		107	70-130		
1,2-Dichloroethane	16.8		µg/l		20.0		84	70-130		
1,1-Dichloroethene	21.2		µg/l		20.0		106	70-130		
cis-1,2-Dichloroethene	21.9		µg/l		20.0		109	70-130		
trans-1,2-Dichloroethene	22.0		µg/l		20.0		110	70-130		
1,2-Dichloropropane	24.0		µg/l		20.0		120	70-130		
1,3-Dichloropropane	22.1		µg/l		20.0		110	70-130		
2,2-Dichloropropane	19.4		µg/l		20.0		97	70-130		
1,1-Dichloropropene	17.6		µg/l		20.0		88	70-130		
cis-1,3-Dichloropropene	20.6		µg/l		20.0		103	70-130		
trans-1,3-Dichloropropene	20.1		µg/l		20.0		101	70-130		
Ethylbenzene	19.8		µg/l		20.0		99	70-130		
Hexachlorobutadiene	19.1		µg/l		20.0		95	70-130		
2-Hexanone (MBK)	20.0		µg/l		20.0		100	70-130		
Isopropylbenzene	18.7		µg/l		20.0		94	70-130		
4-Isopropyltoluene	19.6		µg/l		20.0		98	70-130		
Methyl tert-butyl ether	17.5		µg/l		20.0		88	70-130		
4-Methyl-2-pentanone (MIBK)	22.1		µg/l		20.0		111	70-130		
Methylene chloride	21.6		µg/l		20.0		108	70-130		
Naphthalene	18.4		µg/l		20.0		92	70-130		
n-Propylbenzene	18.7		µg/l		20.0		94	70-130		
Styrene	19.8		µg/l		20.0		99	70-130		
1,1,1,2-Tetrachloroethane	20.0		µg/l		20.0		100	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	21.4		µg/l		20.0		107	70-130		
1,2,3-Trichlorobenzene	19.2		µg/l		20.0		96	70-130		
1,2,4-Trichlorobenzene	17.6		µg/l		20.0		88	70-130		
1,3,5-Trichlorobenzene	18.5		µg/l		20.0		92	70-130		
1,1,1-Trichloroethane	17.2		µg/l		20.0		86	70-130		
1,1,2-Trichloroethane	21.2		µg/l		20.0		106	70-130		
Trichloroethene	20.6		µg/l		20.0		103	70-130		
Trichlorofluoromethane (Freon 11)	13.0	QM9	µg/l		20.0		65	70-130		
1,2,3-Trichloropropane	22.6		µg/l		20.0		113	70-130		
1,2,4-Trimethylbenzene	17.8		µg/l		20.0		89	70-130		
1,3,5-Trimethylbenzene	18.7		µg/l		20.0		94	70-130		
Vinyl chloride	20.5		µg/l		20.0		102	70-130		
m,p-Xylene	20.1		µg/l		20.0		100	70-130		
o-Xylene	20.2		µg/l		20.0		101	70-130		

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808820 - SW846 5030 Water MS										
<u>LCS (1808820-BS1)</u>					<u>Prepared: 26-Jun-18 Analyzed: 27-Jun-18</u>					
Tetrahydrofuran	23.1		µg/l		20.0		116	70-130		
Ethyl ether	17.2		µg/l		20.0		86	70-130		
Tert-amyl methyl ether	18.4		µg/l		20.0		92	70-130		
Ethyl tert-butyl ether	17.3		µg/l		20.0		87	70-130		
Di-isopropyl ether	20.3		µg/l		20.0		101	70-130		
Tert-Butanol / butyl alcohol	190		µg/l		200		95	70-130		
1,4-Dioxane	210		µg/l		200		105	70-130		
trans-1,4-Dichloro-2-butene	19.4		µg/l		20.0		97	70-130		
Ethanol	510		µg/l		400		128	70-130		
Surrogate: 4-Bromofluorobenzene	52.3		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	50.6		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	38.4		µg/l		50.0		77	70-130		
Surrogate: Dibromofluoromethane	47.6		µg/l		50.0		95	70-130		
<u>LCS Dup (1808820-BSD1)</u>					<u>Prepared: 26-Jun-18 Analyzed: 27-Jun-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.8		µg/l		20.0		89	70-130	8	20
Acetone	20.1		µg/l		20.0		101	70-130	10	20
Acrylonitrile	22.9		µg/l		20.0		115	70-130	9	20
Benzene	24.2		µg/l		20.0		121	70-130	2	20
Bromobenzene	21.3		µg/l		20.0		107	70-130	0.9	20
Bromochloromethane	20.3		µg/l		20.0		102	70-130	8	20
Bromodichloromethane	18.3		µg/l		20.0		91	70-130	2	20
Bromoform	19.0		µg/l		20.0		95	70-130	2	20
Bromomethane	14.7		µg/l		20.0		74	70-130	2	20
2-Butanone (MEK)	27.0		µg/l		20.0		135	70-130	5	20
n-Butylbenzene	16.9		µg/l		20.0		85	70-130	0.4	20
sec-Butylbenzene	17.4		µg/l		20.0		87	70-130	4	20
tert-Butylbenzene	18.5		µg/l		20.0		93	70-130	1	20
Carbon disulfide	17.8	QR2	µg/l		20.0		89	70-130	25	20
Carbon tetrachloride	17.3		µg/l		20.0		87	70-130	7	20
Chlorobenzene	21.3		µg/l		20.0		106	70-130	2	20
Chloroethane	14.4		µg/l		20.0		72	70-130	3	20
Chloroform	17.1		µg/l		20.0		86	70-130	0.1	20
Chloromethane	20.6		µg/l		20.0		103	70-130	10	20
2-Chlorotoluene	17.7		µg/l		20.0		89	70-130	4	20
4-Chlorotoluene	18.2		µg/l		20.0		91	70-130	0.5	20
1,2-Dibromo-3-chloropropane	19.2		µg/l		20.0		96	70-130	2	20
Dibromochloromethane	18.6		µg/l		20.0		93	70-130	1	20
1,2-Dibromoethane (EDB)	21.0		µg/l		20.0		105	70-130	2	20
Dibromomethane	20.4		µg/l		20.0		102	70-130	3	20
1,2-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	1	20
1,3-Dichlorobenzene	17.1		µg/l		20.0		85	70-130	0.8	20
1,4-Dichlorobenzene	18.9		µg/l		20.0		95	70-130	0.9	20
Dichlorodifluoromethane (Freon12)	17.8		µg/l		20.0		89	70-130	3	20
1,1-Dichloroethane	20.3		µg/l		20.0		101	70-130	6	20
1,2-Dichloroethane	18.5		µg/l		20.0		92	70-130	10	20
1,1-Dichloroethene	17.8		µg/l		20.0		89	70-130	18	20
cis-1,2-Dichloroethene	19.6		µg/l		20.0		98	70-130	11	20
trans-1,2-Dichloroethene	18.6		µg/l		20.0		93	70-130	17	20
1,2-Dichloropropane	24.1		µg/l		20.0		120	70-130	0.5	20
1,3-Dichloropropane	22.6		µg/l		20.0		113	70-130	3	20

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808820 - SW846 5030 Water MS										
LCS Dup (1808820-BSD1)					Prepared: 26-Jun-18 Analyzed: 27-Jun-18					
2,2-Dichloropropane	19.9		µg/l		20.0		100	70-130	3	20
1,1-Dichloropropene	17.1		µg/l		20.0		86	70-130	3	20
cis-1,3-Dichloropropene	20.5		µg/l		20.0		102	70-130	0.8	20
trans-1,3-Dichloropropene	19.7		µg/l		20.0		98	70-130	2	20
Ethylbenzene	19.2		µg/l		20.0		96	70-130	3	20
Hexachlorobutadiene	19.8		µg/l		20.0		99	70-130	4	20
2-Hexanone (MBK)	19.3		µg/l		20.0		97	70-130	4	20
Isopropylbenzene	18.2		µg/l		20.0		91	70-130	3	20
4-Isopropyltoluene	19.4		µg/l		20.0		97	70-130	1	20
Methyl tert-butyl ether	17.7		µg/l		20.0		88	70-130	0.7	20
4-Methyl-2-pentanone (MIBK)	22.4		µg/l		20.0		112	70-130	1	20
Methylene chloride	18.0		µg/l		20.0		90	70-130	18	20
Naphthalene	19.0		µg/l		20.0		95	70-130	4	20
n-Propylbenzene	18.8		µg/l		20.0		94	70-130	0.3	20
Styrene	17.6		µg/l		20.0		88	70-130	12	20
1,1,1,2-Tetrachloroethane	20.1		µg/l		20.0		100	70-130	0.1	20
1,1,2,2-Tetrachloroethane	24.2		µg/l		20.0		121	70-130	6	20
Tetrachloroethene	19.5		µg/l		20.0		97	70-130	1	20
Toluene	21.4		µg/l		20.0		107	70-130	0.05	20
1,2,3-Trichlorobenzene	20.4		µg/l		20.0		102	70-130	6	20
1,2,4-Trichlorobenzene	18.6		µg/l		20.0		93	70-130	6	20
1,3,5-Trichlorobenzene	19.1		µg/l		20.0		96	70-130	3	20
1,1,1-Trichloroethane	18.3		µg/l		20.0		91	70-130	6	20
1,1,2-Trichloroethane	22.4		µg/l		20.0		112	70-130	6	20
Trichloroethene	20.3		µg/l		20.0		102	70-130	1	20
Trichlorofluoromethane (Freon 11)	14.1		µg/l		20.0		70	70-130	8	20
1,2,3-Trichloropropane	22.8		µg/l		20.0		114	70-130	1	20
1,2,4-Trimethylbenzene	16.4		µg/l		20.0		82	70-130	8	20
1,3,5-Trimethylbenzene	16.6		µg/l		20.0		83	70-130	12	20
Vinyl chloride	19.5		µg/l		20.0		98	70-130	5	20
m,p-Xylene	19.2		µg/l		20.0		96	70-130	4	20
o-Xylene	19.4		µg/l		20.0		97	70-130	4	20
Tetrahydrofuran	23.8		µg/l		20.0		119	70-130	3	20
Ethyl ether	17.5		µg/l		20.0		88	70-130	2	20
Tert-amyl methyl ether	19.2		µg/l		20.0		96	70-130	4	20
Ethyl tert-butyl ether	17.3		µg/l		20.0		86	70-130	0.3	20
Di-isopropyl ether	19.1		µg/l		20.0		96	70-130	6	20
Tert-Butanol / butyl alcohol	207		µg/l		200		104	70-130	9	20
1,4-Dioxane	200		µg/l		200		100	70-130	5	20
trans-1,4-Dichloro-2-butene	18.6		µg/l		20.0		93	70-130	4	20
Ethanol	445		µg/l		400		111	70-130	14	20
Surrogate: 4-Bromofluorobenzene	51.7		µg/l		50.0		103	70-130		
Surrogate: Toluene-d8	51.3		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	42.9		µg/l		50.0		86	70-130		
Surrogate: Dibromofluoromethane	47.1		µg/l		50.0		94	70-130		
Batch 1808988 - SW846 5030 Water MS										
Blank (1808988-BLK1)					Prepared & Analyzed: 28-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						

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
Blank (1808988-BLK1)	Prepared & Analyzed: 28-Jun-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	0.29	001, J	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						
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						

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
Blank (1808988-BLK1)					Prepared & Analyzed: 28-Jun-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	50.7		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	49.8		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	46.5		µg/l		50.0		93	70-130		
Surrogate: Dibromofluoromethane	59.9		µg/l		50.0		120	70-130		
LCS (1808988-BS1)					Prepared & Analyzed: 28-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	26.6	QM9	µg/l		20.0		133	70-130		
Acetone	24.0		µg/l		20.0		120	70-130		
Acrylonitrile	22.8		µg/l		20.0		114	70-130		
Benzene	20.5		µg/l		20.0		102	70-130		
Bromobenzene	22.2		µg/l		20.0		111	70-130		
Bromochloromethane	21.1		µg/l		20.0		105	70-130		
Bromodichloromethane	21.9		µg/l		20.0		109	70-130		
Bromoform	22.8		µg/l		20.0		114	70-130		
Bromomethane	22.8		µg/l		20.0		114	70-130		
2-Butanone (MEK)	19.2		µg/l		20.0		96	70-130		
n-Butylbenzene	21.2		µg/l		20.0		106	70-130		
sec-Butylbenzene	24.0		µg/l		20.0		120	70-130		
tert-Butylbenzene	24.2		µg/l		20.0		121	70-130		
Carbon disulfide	20.4		µg/l		20.0		102	70-130		
Carbon tetrachloride	23.8		µg/l		20.0		119	70-130		
Chlorobenzene	21.2		µg/l		20.0		106	70-130		
Chloroethane	24.3		µg/l		20.0		121	70-130		
Chloroform	19.6		µg/l		20.0		98	70-130		
Chloromethane	22.2		µg/l		20.0		111	70-130		
2-Chlorotoluene	22.5		µg/l		20.0		113	70-130		
4-Chlorotoluene	22.5		µg/l		20.0		113	70-130		

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
LCS (1808988-BS1)					Prepared & Analyzed: 28-Jun-18					
1,2-Dibromo-3-chloropropane	22.4		µg/l		20.0		112	70-130		
Dibromochloromethane	21.3		µg/l		20.0		107	70-130		
1,2-Dibromoethane (EDB)	22.7		µg/l		20.0		113	70-130		
Dibromomethane	22.1		µg/l		20.0		111	70-130		
1,2-Dichlorobenzene	21.4		µg/l		20.0		107	70-130		
1,3-Dichlorobenzene	22.4		µg/l		20.0		112	70-130		
1,4-Dichlorobenzene	21.0		µg/l		20.0		105	70-130		
Dichlorodifluoromethane (Freon12)	22.3		µg/l		20.0		112	70-130		
1,1-Dichloroethane	16.7		µg/l		20.0		84	70-130		
1,2-Dichloroethane	21.5		µg/l		20.0		107	70-130		
1,1-Dichloroethene	23.2		µg/l		20.0		116	70-130		
cis-1,2-Dichloroethene	19.1		µg/l		20.0		96	70-130		
trans-1,2-Dichloroethene	21.6		µg/l		20.0		108	70-130		
1,2-Dichloropropane	20.4		µg/l		20.0		102	70-130		
1,3-Dichloropropane	20.4		µg/l		20.0		102	70-130		
2,2-Dichloropropane	21.5		µg/l		20.0		108	70-130		
1,1-Dichloropropene	22.4		µg/l		20.0		112	70-130		
cis-1,3-Dichloropropene	20.1		µg/l		20.0		100	70-130		
trans-1,3-Dichloropropene	20.5		µg/l		20.0		102	70-130		
Ethylbenzene	22.4		µg/l		20.0		112	70-130		
Hexachlorobutadiene	25.1		µg/l		20.0		125	70-130		
2-Hexanone (MBK)	19.7		µg/l		20.0		99	70-130		
Isopropylbenzene	22.7		µg/l		20.0		113	70-130		
4-Isopropyltoluene	23.1		µg/l		20.0		116	70-130		
Methyl tert-butyl ether	14.9		µg/l		20.0		74	70-130		
4-Methyl-2-pentanone (MIBK)	21.3		µg/l		20.0		107	70-130		
Methylene chloride	23.2		µg/l		20.0		116	70-130		
Naphthalene	21.1		µg/l		20.0		105	70-130		
n-Propylbenzene	23.2		µg/l		20.0		116	70-130		
Styrene	23.5		µg/l		20.0		117	70-130		
1,1,1,2-Tetrachloroethane	21.6		µg/l		20.0		108	70-130		
1,1,2,2-Tetrachloroethane	21.9		µg/l		20.0		110	70-130		
Tetrachloroethene	22.6		µg/l		20.0		113	70-130		
Toluene	21.1		µg/l		20.0		105	70-130		
1,2,3-Trichlorobenzene	24.4		µg/l		20.0		122	70-130		
1,2,4-Trichlorobenzene	23.3		µg/l		20.0		116	70-130		
1,3,5-Trichlorobenzene	22.8		µg/l		20.0		114	70-130		
1,1,1-Trichloroethane	25.0		µg/l		20.0		125	70-130		
1,1,2-Trichloroethane	21.0		µg/l		20.0		105	70-130		
Trichloroethene	22.1		µg/l		20.0		111	70-130		
Trichlorofluoromethane (Freon 11)	26.7	QM9	µg/l		20.0		134	70-130		
1,2,3-Trichloropropane	21.8		µg/l		20.0		109	70-130		
1,2,4-Trimethylbenzene	24.0		µg/l		20.0		120	70-130		
1,3,5-Trimethylbenzene	24.0		µg/l		20.0		120	70-130		
Vinyl chloride	24.2		µg/l		20.0		121	70-130		
m,p-Xylene	22.2		µg/l		20.0		111	70-130		
o-Xylene	22.5		µg/l		20.0		113	70-130		
Tetrahydrofuran	19.3		µg/l		20.0		97	70-130		
Ethyl ether	22.8		µg/l		20.0		114	70-130		
Tert-amyl methyl ether	19.7		µg/l		20.0		99	70-130		

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
LCS (1808988-BS1)					<u>Prepared & Analyzed: 28-Jun-18</u>					
Ethyl tert-butyl ether	16.5		µg/l		20.0		82	70-130		
Di-isopropyl ether	16.4		µg/l		20.0		82	70-130		
Tert-Butanol / butyl alcohol	223		µg/l		200		112	70-130		
1,4-Dioxane	199		µg/l		200		99	70-130		
trans-1,4-Dichloro-2-butene	19.4		µg/l		20.0		97	70-130		
Ethanol	462		µg/l		400		116	70-130		
Surrogate: 4-Bromofluorobenzene	51.2		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	50.2		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.5		µg/l		50.0		105	70-130		
Surrogate: Dibromofluoromethane	50.3		µg/l		50.0		101	70-130		
LCS Dup (1808988-BSD1)					<u>Prepared & Analyzed: 28-Jun-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.4		µg/l		20.0		112	70-130	17	20
Acetone	21.2		µg/l		20.0		106	70-130	12	20
Acrylonitrile	19.5		µg/l		20.0		98	70-130	16	20
Benzene	19.7		µg/l		20.0		98	70-130	4	20
Bromobenzene	21.9		µg/l		20.0		110	70-130	1	20
Bromochloromethane	16.7	QR2	µg/l		20.0		83	70-130	23	20
Bromodichloromethane	20.7		µg/l		20.0		104	70-130	5	20
Bromoform	22.2		µg/l		20.0		111	70-130	3	20
Bromomethane	21.6		µg/l		20.0		108	70-130	5	20
2-Butanone (MEK)	24.2	QR2	µg/l		20.0		121	70-130	23	20
n-Butylbenzene	20.2		µg/l		20.0		101	70-130	5	20
sec-Butylbenzene	23.2		µg/l		20.0		116	70-130	4	20
tert-Butylbenzene	23.1		µg/l		20.0		116	70-130	5	20
Carbon disulfide	18.4		µg/l		20.0		92	70-130	10	20
Carbon tetrachloride	22.6		µg/l		20.0		113	70-130	5	20
Chlorobenzene	20.5		µg/l		20.0		102	70-130	4	20
Chloroethane	21.1		µg/l		20.0		105	70-130	14	20
Chloroform	16.0		µg/l		20.0		80	70-130	20	20
Chloromethane	18.6		µg/l		20.0		93	70-130	18	20
2-Chlorotoluene	21.3		µg/l		20.0		107	70-130	5	20
4-Chlorotoluene	22.0		µg/l		20.0		110	70-130	3	20
1,2-Dibromo-3-chloropropane	21.4		µg/l		20.0		107	70-130	4	20
Dibromochloromethane	21.4		µg/l		20.0		107	70-130	0.3	20
1,2-Dibromoethane (EDB)	21.6		µg/l		20.0		108	70-130	5	20
Dibromomethane	21.2		µg/l		20.0		106	70-130	4	20
1,2-Dichlorobenzene	20.6		µg/l		20.0		103	70-130	4	20
1,3-Dichlorobenzene	21.6		µg/l		20.0		108	70-130	3	20
1,4-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	5	20
Dichlorodifluoromethane (Freon12)	21.4		µg/l		20.0		107	70-130	4	20
1,1-Dichloroethane	22.4	QR2	µg/l		20.0		112	70-130	29	20
1,2-Dichloroethane	20.9		µg/l		20.0		104	70-130	3	20
1,1-Dichloroethene	21.2		µg/l		20.0		106	70-130	9	20
cis-1,2-Dichloroethene	22.4		µg/l		20.0		112	70-130	16	20
trans-1,2-Dichloroethene	23.4		µg/l		20.0		117	70-130	8	20
1,2-Dichloropropane	19.1		µg/l		20.0		96	70-130	6	20
1,3-Dichloropropane	19.8		µg/l		20.0		99	70-130	3	20
2,2-Dichloropropane	20.2		µg/l		20.0		101	70-130	7	20
1,1-Dichloropropene	21.0		µg/l		20.0		105	70-130	6	20
cis-1,3-Dichloropropene	19.3		µg/l		20.0		97	70-130	4	20

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
LCS Dup (1808988-BSD1)					Prepared & Analyzed: 28-Jun-18					
trans-1,3-Dichloropropene	20.1		µg/l		20.0		101	70-130	2	20
Ethylbenzene	21.4		µg/l		20.0		107	70-130	5	20
Hexachlorobutadiene	24.0		µg/l		20.0		120	70-130	4	20
2-Hexanone (MBK)	19.0		µg/l		20.0		95	70-130	4	20
Isopropylbenzene	22.0		µg/l		20.0		110	70-130	3	20
4-Isopropyltoluene	22.1		µg/l		20.0		110	70-130	5	20
Methyl tert-butyl ether	19.4	QR2	µg/l		20.0		97	70-130	26	20
4-Methyl-2-pentanone (MIBK)	20.6		µg/l		20.0		103	70-130	3	20
Methylene chloride	19.8		µg/l		20.0		99	70-130	16	20
Naphthalene	20.5		µg/l		20.0		102	70-130	3	20
n-Propylbenzene	22.5		µg/l		20.0		113	70-130	3	20
Styrene	22.3		µg/l		20.0		112	70-130	5	20
1,1,1,2-Tetrachloroethane	21.4		µg/l		20.0		107	70-130	1	20
1,1,2,2-Tetrachloroethane	20.7		µg/l		20.0		104	70-130	6	20
Tetrachloroethene	21.3		µg/l		20.0		106	70-130	6	20
Toluene	20.2		µg/l		20.0		101	70-130	4	20
1,2,3-Trichlorobenzene	23.6		µg/l		20.0		118	70-130	3	20
1,2,4-Trichlorobenzene	22.7		µg/l		20.0		113	70-130	3	20
1,3,5-Trichlorobenzene	22.0		µg/l		20.0		110	70-130	4	20
1,1,1-Trichloroethane	23.5		µg/l		20.0		118	70-130	6	20
1,1,2-Trichloroethane	19.8		µg/l		20.0		99	70-130	6	20
Trichloroethene	20.7		µg/l		20.0		104	70-130	6	20
Trichlorofluoromethane (Freon 11)	24.5		µg/l		20.0		123	70-130	9	20
1,2,3-Trichloropropane	21.1		µg/l		20.0		105	70-130	4	20
1,2,4-Trimethylbenzene	23.2		µg/l		20.0		116	70-130	3	20
1,3,5-Trimethylbenzene	23.3		µg/l		20.0		117	70-130	3	20
Vinyl chloride	23.0		µg/l		20.0		115	70-130	5	20
m,p-Xylene	21.3		µg/l		20.0		106	70-130	4	20
o-Xylene	21.9		µg/l		20.0		110	70-130	3	20
Tetrahydrofuran	18.0		µg/l		20.0		90	70-130	7	20
Ethyl ether	20.6		µg/l		20.0		103	70-130	10	20
Tert-amyl methyl ether	18.5		µg/l		20.0		92	70-130	7	20
Ethyl tert-butyl ether	16.3		µg/l		20.0		81	70-130	1	20
Di-isopropyl ether	21.8	QR2	µg/l		20.0		109	70-130	28	20
Tert-Butanol / butyl alcohol	186		µg/l		200		93	70-130	18	20
1,4-Dioxane	187		µg/l		200		94	70-130	6	20
trans-1,4-Dichloro-2-butene	18.3		µg/l		20.0		92	70-130	6	20
Ethanol	395		µg/l		400		99	70-130	16	20
Surrogate: 4-Bromofluorobenzene	52.4		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	49.9		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		
Matrix Spike (1808988-MS1)					Source: SC47994-02RE1 Prepared & Analyzed: 28-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.5	D	µg/l		20.0	0.00	117	70-130		
Acetone	19.3	D	µg/l		20.0	0.00	97	70-130		
Acrylonitrile	19.1	D	µg/l		20.0	0.00	95	70-130		
Benzene	18.9	D	µg/l		20.0	0.00	95	70-130		
Bromobenzene	21.3	D	µg/l		20.0	0.00	107	70-130		
Bromochloromethane	19.8	D	µg/l		20.0	0.00	99	70-130		
Bromodichloromethane	21.0	D	µg/l		20.0	0.00	105	70-130		

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
Matrix Spike (1808988-MS1)				Source: SC47994-02RE1	Prepared & Analyzed: 28-Jun-18					
Bromoform	21.7	D	µg/l		20.0	0.00	108	70-130		
Bromomethane	23.2	D	µg/l		20.0	0.00	116	70-130		
2-Butanone (MEK)	19.2	D	µg/l		20.0	0.00	96	70-130		
n-Butylbenzene	18.6	D	µg/l		20.0	0.00	93	70-130		
sec-Butylbenzene	21.6	D	µg/l		20.0	0.00	108	70-130		
tert-Butylbenzene	22.2	D	µg/l		20.0	0.00	111	70-130		
Carbon disulfide	18.0	D	µg/l		20.0	0.00	90	70-130		
Carbon tetrachloride	22.2	D	µg/l		20.0	0.00	111	70-130		
Chlorobenzene	19.9	D	µg/l		20.0	0.00	100	70-130		
Chloroethane	22.4	D	µg/l		20.0	0.00	112	70-130		
Chloroform	18.4	D	µg/l		20.0	0.23	91	70-130		
Chloromethane	23.6	D	µg/l		20.0	0.00	118	70-130		
2-Chlorotoluene	20.6	D	µg/l		20.0	0.00	103	70-130		
4-Chlorotoluene	21.2	D	µg/l		20.0	0.00	106	70-130		
1,2-Dibromo-3-chloropropane	18.9	D	µg/l		20.0	0.00	95	70-130		
Dibromochloromethane	20.9	D	µg/l		20.0	0.00	105	70-130		
1,2-Dibromoethane (EDB)	21.5	D	µg/l		20.0	0.00	107	70-130		
Dibromomethane	21.1	D	µg/l		20.0	0.00	105	70-130		
1,2-Dichlorobenzene	19.8	D	µg/l		20.0	0.00	99	70-130		
1,3-Dichlorobenzene	21.4	D	µg/l		20.0	0.00	107	70-130		
1,4-Dichlorobenzene	19.3	D	µg/l		20.0	0.00	96	70-130		
Dichlorodifluoromethane (Freon12)	28.5	QM7, D	µg/l		20.0	0.00	143	70-130		
1,1-Dichloroethane	29.9	D	µg/l		20.0	5.55	122	70-130		
1,2-Dichloroethane	21.2	D	µg/l		20.0	0.00	106	70-130		
1,1-Dichloroethene	21.0	D	µg/l		20.0	0.68	102	70-130		
cis-1,2-Dichloroethene	18.4	D	µg/l		20.0	0.42	90	70-130		
trans-1,2-Dichloroethene	23.9	D	µg/l		20.0	0.00	119	70-130		
1,2-Dichloropropane	18.4	D	µg/l		20.0	0.00	92	70-130		
1,3-Dichloropropane	19.2	D	µg/l		20.0	0.00	96	70-130		
2,2-Dichloropropane	17.9	D	µg/l		20.0	0.00	89	70-130		
1,1-Dichloropropene	20.2	D	µg/l		20.0	0.00	101	70-130		
cis-1,3-Dichloropropene	18.2	D	µg/l		20.0	0.00	91	70-130		
trans-1,3-Dichloropropene	18.7	D	µg/l		20.0	0.00	94	70-130		
Ethylbenzene	20.7	D	µg/l		20.0	0.00	104	70-130		
Hexachlorobutadiene	22.1	D	µg/l		20.0	0.00	111	70-130		
2-Hexanone (MBK)	17.1	D	µg/l		20.0	0.00	85	70-130		
Isopropylbenzene	20.9	D	µg/l		20.0	0.00	105	70-130		
4-Isopropyltoluene	20.7	D	µg/l		20.0	0.00	103	70-130		
Methyl tert-butyl ether	19.3	D	µg/l		20.0	0.00	96	70-130		
4-Methyl-2-pentanone (MIBK)	18.8	D	µg/l		20.0	0.00	94	70-130		
Methylene chloride	20.3	D	µg/l		20.0	0.00	102	70-130		
Naphthalene	16.8	D	µg/l		20.0	0.00	84	70-130		
n-Propylbenzene	21.4	D	µg/l		20.0	0.00	107	70-130		
Styrene	22.1	D	µg/l		20.0	0.00	110	70-130		
1,1,1,2-Tetrachloroethane	20.4	D	µg/l		20.0	0.00	102	70-130		
1,1,2,2-Tetrachloroethane	19.9	D	µg/l		20.0	0.00	100	70-130		
Tetrachloroethene	20.6	D	µg/l		20.0	0.00	103	70-130		
Toluene	19.4	D	µg/l		20.0	0.00	97	70-130		
1,2,3-Trichlorobenzene	21.6	D	µg/l		20.0	0.00	108	70-130		
1,2,4-Trichlorobenzene	20.4	D	µg/l		20.0	0.00	102	70-130		

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
Matrix Spike (1808988-MS1)				Source: SC47994-02RE1	Prepared & Analyzed: 28-Jun-18					
1,3,5-Trichlorobenzene	20.6	D	µg/l		20.0	0.00	103	70-130		
1,1,1-Trichloroethane	34.3	D	µg/l		20.0	10.5	119	70-130		
1,1,2-Trichloroethane	19.5	D	µg/l		20.0	0.00	98	70-130		
Trichloroethene	35.5	D	µg/l		20.0	14.4	106	70-130		
Trichlorofluoromethane (Freon 11)	26.0	D	µg/l		20.0	0.00	130	70-130		
1,2,3-Trichloropropane	20.0	D	µg/l		20.0	0.00	100	70-130		
1,2,4-Trimethylbenzene	22.5	D	µg/l		20.0	0.00	113	70-130		
1,3,5-Trimethylbenzene	22.5	D	µg/l		20.0	0.00	112	70-130		
Vinyl chloride	24.3	D	µg/l		20.0	0.00	122	70-130		
m,p-Xylene	20.4	D	µg/l		20.0	0.00	102	70-130		
o-Xylene	21.3	D	µg/l		20.0	0.00	107	70-130		
Tetrahydrofuran	16.5	D	µg/l		20.0	0.00	82	70-130		
Ethyl ether	19.9	D	µg/l		20.0	0.00	100	70-130		
Tert-amyl methyl ether	18.8	D	µg/l		20.0	0.00	94	70-130		
Ethyl tert-butyl ether	15.0	D	µg/l		20.0	0.00	75	70-130		
Di-isopropyl ether	15.4	D	µg/l		20.0	0.00	77	70-130		
Tert-Butanol / butyl alcohol	172	D	µg/l		200	0.00	86	70-130		
1,4-Dioxane	177	D	µg/l		200	0.00	88	70-130		
trans-1,4-Dichloro-2-butene	16.0	D	µg/l		20.0	0.00	80	70-130		
Ethanol	381	D	µg/l		400	0.00	95	70-130		
Surrogate: 4-Bromofluorobenzene	52.2		µg/l		50.0		104	70-130		
Surrogate: Toluene-d8	50.6		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	53.7		µg/l		50.0		107	70-130		
Surrogate: Dibromofluoromethane	51.0		µg/l		50.0		102	70-130		
Matrix Spike Dup (1808988-MSD1)				Source: SC47994-02RE1	Prepared & Analyzed: 28-Jun-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.5	D	µg/l		20.0	0.00	122	70-130	4	20
Acetone	18.3	D	µg/l		20.0	0.00	92	70-130		20
Acrylonitrile	19.8	D	µg/l		20.0	0.00	99	70-130	4	20
Benzene	19.9	D	µg/l		20.0	0.00	99	70-130	5	20
Bromobenzene	22.3	D	µg/l		20.0	0.00	111	70-130	4	20
Bromochloromethane	21.1	D	µg/l		20.0	0.00	105	70-130	6	20
Bromodichloromethane	21.8	D	µg/l		20.0	0.00	109	70-130	4	20
Bromoform	22.2	D	µg/l		20.0	0.00	111	70-130	3	20
Bromomethane	22.4	D	µg/l		20.0	0.00	112	70-130	4	20
2-Butanone (MEK)	16.6	D	µg/l		20.0	0.00	83	70-130	15	20
n-Butylbenzene	20.1	D	µg/l		20.0	0.00	100	70-130	8	20
sec-Butylbenzene	23.2	D	µg/l		20.0	0.00	116	70-130	7	20
tert-Butylbenzene	23.7	D	µg/l		20.0	0.00	118	70-130	7	20
Carbon disulfide	17.5	D	µg/l		20.0	0.00	87	70-130	3	20
Carbon tetrachloride	23.5	D	µg/l		20.0	0.00	118	70-130	6	20
Chlorobenzene	21.0	D	µg/l		20.0	0.00	105	70-130	5	20
Chloroethane	23.7	D	µg/l		20.0	0.00	118	70-130	6	20
Chloroform	19.3	D	µg/l		20.0	0.23	95	70-130	5	20
Chloromethane	24.1	D	µg/l		20.0	0.00	121	70-130	2	20
2-Chlorotoluene	21.8	D	µg/l		20.0	0.00	109	70-130	5	20
4-Chlorotoluene	22.4	D	µg/l		20.0	0.00	112	70-130	5	20
1,2-Dibromo-3-chloropropane	20.3	D	µg/l		20.0	0.00	102	70-130	7	20
Dibromochloromethane	21.5	D	µg/l		20.0	0.00	107	70-130	3	20
1,2-Dibromoethane (EDB)	21.7	D	µg/l		20.0	0.00	109	70-130	1	20
Dibromomethane	22.1	D	µg/l		20.0	0.00	111	70-130	5	20

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1808988 - SW846 5030 Water MS										
Matrix Spike Dup (1808988-MSD1)	Source: SC47994-02RE1				Prepared & Analyzed: 28-Jun-18					
1,2-Dichlorobenzene	20.5	D	µg/l		20.0	0.00	103	70-130	4	20
1,3-Dichlorobenzene	22.2	D	µg/l		20.0	0.00	111	70-130	4	20
1,4-Dichlorobenzene	20.2	D	µg/l		20.0	0.00	101	70-130	5	20
Dichlorodifluoromethane (Freon12)	30.1	QM7, D	µg/l		20.0	0.00	150	70-130	5	20
1,1-Dichloroethane	27.6	D	µg/l		20.0	5.55	110	70-130	8	20
1,2-Dichloroethane	21.4	D	µg/l		20.0	0.00	107	70-130	0.9	20
1,1-Dichloroethene	23.7	D	µg/l		20.0	0.68	115	70-130	12	20
cis-1,2-Dichloroethene	18.9	D	µg/l		20.0	0.42	92	70-130	3	20
trans-1,2-Dichloroethene	22.5	D	µg/l		20.0	0.00	113	70-130	6	20
1,2-Dichloropropane	19.6	D	µg/l		20.0	0.00	98	70-130	7	20
1,3-Dichloropropane	19.9	D	µg/l		20.0	0.00	100	70-130	4	20
2,2-Dichloropropane	18.9	D	µg/l		20.0	0.00	94	70-130	6	20
1,1-Dichloropropene	21.5	D	µg/l		20.0	0.00	108	70-130	6	20
cis-1,3-Dichloropropene	19.5	D	µg/l		20.0	0.00	97	70-130	7	20
trans-1,3-Dichloropropene	19.6	D	µg/l		20.0	0.00	98	70-130	5	20
Ethylbenzene	21.8	D	µg/l		20.0	0.00	109	70-130	5	20
Hexachlorobutadiene	24.4	D	µg/l		20.0	0.00	122	70-130	10	20
2-Hexanone (MBK)	17.5	D	µg/l		20.0	0.00	88	70-130	2	20
Isopropylbenzene	22.2	D	µg/l		20.0	0.00	111	70-130	6	20
4-Isopropyltoluene	21.9	D	µg/l		20.0	0.00	109	70-130	6	20
Methyl tert-butyl ether	19.5	D	µg/l		20.0	0.00	97	70-130	1	20
4-Methyl-2-pentanone (MIBK)	19.4	D	µg/l		20.0	0.00	97	70-130	3	20
Methylene chloride	21.1	D	µg/l		20.0	0.00	106	70-130	4	20
Naphthalene	19.1	D	µg/l		20.0	0.00	95	70-130	13	20
n-Propylbenzene	22.9	D	µg/l		20.0	0.00	115	70-130	7	20
Styrene	23.4	D	µg/l		20.0	0.00	117	70-130	6	20
1,1,1,2-Tetrachloroethane	21.2	D	µg/l		20.0	0.00	106	70-130	4	20
1,1,2,2-Tetrachloroethane	20.3	D	µg/l		20.0	0.00	102	70-130	2	20
Tetrachloroethene	22.3	D	µg/l		20.0	0.00	111	70-130	8	20
Toluene	20.5	D	µg/l		20.0	0.00	103	70-130	5	20
1,2,3-Trichlorobenzene	23.1	D	µg/l		20.0	0.00	115	70-130	7	20
1,2,4-Trichlorobenzene	22.6	D	µg/l		20.0	0.00	113	70-130	10	20
1,3,5-Trichlorobenzene	22.0	D	µg/l		20.0	0.00	110	70-130	7	20
1,1,1-Trichloroethane	36.9	QM7, D	µg/l		20.0	10.5	132	70-130	7	20
1,1,2-Trichloroethane	20.6	D	µg/l		20.0	0.00	103	70-130	5	20
Trichloroethene	37.3	D	µg/l		20.0	14.4	115	70-130	5	20
Trichlorofluoromethane (Freon 11)	26.9	QM7, D	µg/l		20.0	0.00	134	70-130	3	20
1,2,3-Trichloropropane	20.6	D	µg/l		20.0	0.00	103	70-130	3	20
1,2,4-Trimethylbenzene	23.8	D	µg/l		20.0	0.00	119	70-130	5	20
1,3,5-Trimethylbenzene	23.9	D	µg/l		20.0	0.00	119	70-130	6	20
Vinyl chloride	25.5	D	µg/l		20.0	0.00	127	70-130	5	20
m,p-Xylene	21.9	D	µg/l		20.0	0.00	109	70-130	7	20
o-Xylene	22.1	D	µg/l		20.0	0.00	110	70-130	3	20
Tetrahydrofuran	17.3	D	µg/l		20.0	0.00	87	70-130	5	20
Ethyl ether	19.6	D	µg/l		20.0	0.00	98	70-130	2	20
Tert-amyl methyl ether	19.3	D	µg/l		20.0	0.00	96	70-130	3	20
Ethyl tert-butyl ether	15.8	D	µg/l		20.0	0.00	79	70-130	5	20
Di-isopropyl ether	16.2	D	µg/l		20.0	0.00	81	70-130	5	20
Tert-Butanol / butyl alcohol	177	D	µg/l		200	0.00	89	70-130	3	20
1,4-Dioxane	176	D	µg/l		200	0.00	88	70-130	0.2	20

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

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1808988 - SW846 5030 Water MS										
<u>Matrix Spike Dup (1808988-MSD1)</u>			<u>Source: SC47994-02RE1</u>			<u>Prepared & Analyzed: 28-Jun-18</u>				
trans-1,4-Dichloro-2-butene	16.1	D	µg/l		20.0	0.00	80	70-130	0.6	20
Ethanol	370	D	µg/l		400	0.00	93	70-130	3	20
Surrogate: 4-Bromofluorobenzene	52.2		µg/l		50.0		104	70-130		
Surrogate: Toluene-d8	49.9		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.6		µg/l		50.0		105	70-130		
Surrogate: Dibromofluoromethane	51.0		µg/l		50.0		102	70-130		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>EPA 1664B</u>										
Batch 1809374 - General Preparation SVOC										
<u>Blank (1809374-BLK1)</u>					<u>Prepared: 06-Jul-18 Analyzed: 09-Jul-18</u>					
Oil & Grease	< 1.05	U	mg/l	1.05						
<u>LCS (1809374-BS1)</u>					<u>Prepared: 06-Jul-18 Analyzed: 09-Jul-18</u>					
Oil & Grease	32.7		mg/l	1.03	41.3		79	78-114		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 6010C</u>										
Batch 1809008 - SW846 3005A										
<u>Blank (1809008-BLK1)</u>					<u>Prepared: 02-Jul-18 Analyzed: 09-Jul-18</u>					
Iron	< 0.125	U	mg/l	0.125						
Manganese	< 0.0040	U	mg/l	0.0040						
Copper	< 0.0050	U	mg/l	0.0050						
Nickel	< 0.0050	U	mg/l	0.0050						
Aluminum	< 0.0250	U	mg/l	0.0250						
Chromium	< 0.0050	U	mg/l	0.0050						
Arsenic	< 0.00400	U	mg/l	0.00400						
Barium	< 0.0050	U	mg/l	0.0050						
Zinc	< 0.0250	U	mg/l	0.0250						
<u>LCS (1809008-BS1)</u>					<u>Prepared: 02-Jul-18 Analyzed: 09-Jul-18</u>					
Iron	1.41		mg/l	0.125	1.25		113	85-115		
Manganese	1.17		mg/l	0.0040	1.25		93	85-115		
Barium	1.30		mg/l	0.0050	1.25		104	85-115		
Zinc	1.29		mg/l	0.0250	1.25		104	85-115		
Nickel	1.35		mg/l	0.0050	1.25		108	85-115		
Copper	1.36		mg/l	0.0050	1.25		109	85-115		
Aluminum	1.30		mg/l	0.0250	1.25		104	85-115		
Chromium	1.27		mg/l	0.0050	1.25		101	85-115		
Arsenic	1.252		mg/l	0.00400	1.25		100	85-115		
<u>LCS Dup (1809008-BSD1)</u>					<u>Prepared: 02-Jul-18 Analyzed: 09-Jul-18</u>					
Iron	1.31		mg/l	0.125	1.25		105	85-115	8	20
Manganese	1.08		mg/l	0.0040	1.25		86	85-115	8	20
Barium	1.21		mg/l	0.0050	1.25		97	85-115	7	20
Arsenic	1.148		mg/l	0.00400	1.25		92	85-115	9	20
Zinc	1.20		mg/l	0.0250	1.25		96	85-115	7	20
Nickel	1.26		mg/l	0.0050	1.25		101	85-115	7	20
Copper	1.27		mg/l	0.0050	1.25		101	85-115	7	20
Aluminum	1.22		mg/l	0.0250	1.25		98	85-115	6	20
Chromium	1.16		mg/l	0.0050	1.25		93	85-115	9	20

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>EPA 245.1/7470A</u>										
Batch 1809010 - EPA200/SW7000 Series										
<u>Blank (1809010-BLK1)</u>	<u>Prepared: 02-Jul-18 Analyzed: 03-Jul-18</u>									
Mercury	< 0.00020	U	mg/l	0.00020						
<u>LCS (1809010-BS1)</u>	<u>Prepared: 02-Jul-18 Analyzed: 03-Jul-18</u>									
Mercury	0.00533		mg/l	0.00020	0.00500		107	85-115		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>EPA 335.4 / SW846 9012B</u>										
Batch 1808920 - General Preparation										
<u>Blank (1808920-BLK1)</u>	<u>Prepared & Analyzed: 27-Jun-18</u>									
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
<u>Blank (1808920-BLK2)</u>	<u>Prepared & Analyzed: 27-Jun-18</u>									
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
<u>LCS (1808920-BS1)</u>	<u>Prepared & Analyzed: 27-Jun-18</u>									
Cyanide (total)	0.256		mg/l	0.00500	0.250		102	90-110		
<u>LCS (1808920-BS2)</u>	<u>Prepared & Analyzed: 27-Jun-18</u>									
Cyanide (total)	0.235		mg/l	0.00500	0.250		94	90-110		
<u>Reference (1808920-SRM1)</u>	<u>Prepared & Analyzed: 27-Jun-18</u>									
Cyanide (total)	0.321		mg/l	0.00500	0.347		93	76-122		
<u>SM18-22 2540C</u>										
Batch 1808990 - General Preparation										
<u>Blank (1808990-BLK1)</u>	<u>Prepared: 28-Jun-18 Analyzed: 29-Jun-18</u>									
Total Dissolved Solids	< 5	U	mg/l	5						
<u>LCS (1808990-BS1)</u>	<u>Prepared: 28-Jun-18 Analyzed: 29-Jun-18</u>									
Total Dissolved Solids	1010		mg/l	10	1000		101	90-110		
<u>SM2540D (11)</u>										
Batch 1808812 - General Preparation										
<u>Blank (1808812-BLK1)</u>	<u>Prepared: 26-Jun-18 Analyzed: 27-Jun-18</u>									
Total Suspended Solids	< 0.5	U	mg/l	0.5						
<u>LCS (1808812-BS1)</u>	<u>Prepared: 26-Jun-18 Analyzed: 27-Jun-18</u>									
Total Suspended Solids	104		mg/l	10.0	100		104	90-110		

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).
O01	This compound is a common laboratory contaminant.
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.
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
OG	The required Matrix Spike and Matrix Spike Duplicate (MS/MSD) for Oil & Grease method 1664B can only be analyzed when the client has submitted sufficient sample volume. An extra liter per MS/MSD is required to fulfill the method QC criteria. Please refer to Chain of Custody and QC Summary (MS/MSD) of the Laboratory Report to verify ample sample volume was submitted to fulfill the requirement.

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

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

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

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

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

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

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

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



Spectrum Analytical

CHAIN OF CUSTODY RECORD

☒ 11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

☐ 646 Camp Avenue
N. Kingstown, RI 02852
(401) 732-3400

☐ TAT - Date Needed:

Stand.

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

Page 1 of 1

Special Handling:

FedEx # 8088 8989 4634

Scu7994

Report To: AECOM

40 British American Blvd.
Latham NY 12110

Invoice To: Same

Project No: 60276639-1

Telephone #: 518-951-2200

P.O. No.: Quote #:

Site Name: New Corp 13-14-008
Location: Staatsburg State: NY
Sampler(s): SRGF=Field Filtered 1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11=None 12=

List Preservative Code below:

QA/QC Reporting Notes:

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

Type Matrix

Containers

Analysis

QA/QC Reporting Level

☐ Level I ☐ Level II
☐ Level III ☐ Level IV

State-specific reporting standards:

☐ Other: _____

Check if chlorinated

Al, Ba, As, Cr, Cu,
Fe, Mn, Hg, Zn, Ni

Time:

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*
TSS/TDS
O+G
Cyanide

Check if chlorinated

State-specific reporting standards:

☐ Other: _____

Type

Matrix

8260
Metals*

FedEx Package
Express US Airbill
FedEx
Tracking
Number

8088 8989 4634

1 From

Date 6-22-18

Sender's
Name

Steve Gray

Phone

518 951-2200

Company

AECOM TECHNICAL SERVICES

Address

40 BRITISH AMERICAN BLVD

Dept./Room/Suite/Room

City LATHAM

State

NY

ZIP

12110-1421

2 Your Internal Billing Reference

60276639-1

3 To

Recipient's
Name

Ahn Sample Receipt

Phone

412 789 9018

Company

Enviro-Tech Spectrum Analytical

Address

11 Algren Dr

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

Dept./Room/Suite/Room

Address

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

City

Agawam

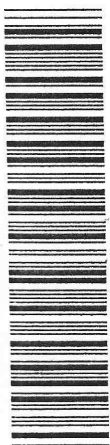
State

MA

ZIP

01001

0120406210



8088 8989 4634

Form
ID No.

0215

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

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
business addresses. Saturday delivery is selected.
Monday through Saturday delivery is selected.

☒ FedEx Priority Overnight
Next business morning. FedEx 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 shipment
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

☐ FedEx
Tube

☒ Other

6 Special Handling and Delivery Signature Options

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

☐ No Signature Required
Permitting a release of the package
without a signature for delivery.

☐ Direct Signature
Signature of recipient's address
only required for delivery. See applic.

Does this shipment contain dangerous goods?

☐ No

☐ Yes

☐ Yes

☒ One box must be checked.
Dangerous goods including dry ice cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

☐ Dry Ice
Dry Ice 3, UN 1845

☐ Cargo Aircraft Only

7 Payment Bill to:

☒ Sender

☐ Recipient

☐ Third Party

☐ Credit Card

☐ Cash/Check

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

Total Packages

Total Weight

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

☐ Other

For liability is limited to \$500 unless you declare a higher value. See the current FedEx Service Guide for details.

611

fedex.com 1.800.GoFedEx 1.800.463.3339

Batch Summary

1808812

General Chemistry Parameters

1808812-BLK1
1808812-BS1
SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)

1808820

Volatile Organic Compounds

1808820-BLK1
1808820-BS1
1808820-BSD1
SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)
SC47994-03 (TW-1 062218)
SC47994-04 (TW-2A 062218)
SC47994-05 (TW-3 062218)
SC47994-06 (TB 062218)

1808867

Total Metals by EPA 200/6000 Series Methods

SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)

1808920

General Chemistry Parameters

1808920-BLK1
1808920-BLK2
1808920-BS1
1808920-BS2
1808920-SRM1
SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)

1808988

Volatile Organic Compounds

1808988-BLK1
1808988-BS1
1808988-BSD1
1808988-MS1
1808988-MSD1
SC47994-02RE1 (INF 062218)
SC47994-04RE1 (TW-2A 062218)

1808990

General Chemistry Parameters

1808990-BLK1
1808990-BS1
SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)

1809008

Total Metals by EPA 6000/7000 Series Methods

1809008-BLK1
1809008-BS1
1809008-BSD1
SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)

1809010

Total Metals by EPA 200 Series Methods

1809010-BLK1
1809010-BS1
SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)

1809374

Extractable Petroleum Hydrocarbons

1809374-BLK1
1809374-BS1
SC47994-01 (EFF 60 062218)
SC47994-02 (INF 062218)

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

S820372

Volatile Organic Compounds

S820372-CCV1
S820372-TUN1

S820443**Volatile Organic Compounds**

S820443-CAL1
S820443-CAL2
S820443-CAL3
S820443-CAL4
S820443-CAL5
S820443-CAL6
S820443-CAL7
S820443-CAL8
S820443-CAL9
S820443-ICV1
S820443-LCV1
S820443-LCV2
S820443-TUN1

S820461**Volatile Organic Compounds**

S820461-CCV1
S820461-TUN1