

Operation, Maintenance and Monitoring Report July 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 11, 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: July 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 38-day period (**June 22 – July 30, 2018**).

With the exceptions noted below, if any, the pump and treat system was online and operational throughout the reporting period. Approximately 458,500 gallons of water were treated. Discharge from the treatment system averaged approximately 12,100 gallons per day (gpd).

As of the last day of the reporting period, a total of 111,750,000 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 July 30, 2018. **There were no exceedances of effluent limitations.** A copy of the analytical laboratory report is attached. Total VOCs in the most contaminated extraction well (TW-2A) was 637 ug/L.

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

There was no downtime during the reporting period. Pumps in recovery wells were operational throughout the 38-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:

July 30 – 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. Performed general housekeeping.

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 horizontal line extending from the end.

Stephen R. Choiniere
Project Manager

Table 1
Summary of Influent and Effluent Data
Sampling Date: July 30, 2018
NOW Corporation Site
NYSDEC Site No. 3-14-008
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations	
			TW-1	TW-2A	TW-3		(units)
Quantity treated, avg per day		12,065				Monitor	gallons
pH	7.4	7.7				6.5 to 8.5	standard units
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	305	268	NA	NA	NA	1000	mg/L
TSS	2.4	<0.5	NA	NA	NA	50	mg/L
Aluminum, Total	13.4 J	<25.0	NA	NA	NA	Monitor	ug/L
Arsenic, Total	<4.00	<4.00	NA	NA	NA	100	ug/L
Barium, Total	77.4	81.4	NA	NA	NA	Monitor	ug/L
Chromium	<5.0	<5.0	NA	NA	NA	400	ug/L
Copper	10.9	3.0 J	NA	NA	NA	24	ug/L
Iron	242	10.0 J	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	455	33.8	NA	NA	NA	Monitor	ug/L
Nickel	4.6 J	<5.0	NA	NA	NA	200	ug/L
Zinc	8.5 J	3.2 J	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	170	<1.00	1.0	180	5.4	10	ug/L
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	1.2	ug/L
1,1-Dichloroethane	95	0.25 J	27.0	100	12	10	ug/L
1,1-Dichloroethene	10	<0.50	9.3	14	1.6	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	<5.0	<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	0.45 J	<2.00	<2.00	0.44 J	0.67 J	10	ug/L
cis -1,2-Dichloroethene	6.6	<1.00	3.2	9.83	0.93 J	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	<4.9	<2.00	<2.00	<2.00	NL	ug/L
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	10	ug/L
Trichloroethene	200	0.42 J	34	330	31	6	ug/L
Vinyl Chloride	0.48 J	<0.50	<0.50	1.1	<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 July 2018 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		7/30/18	Units
<i>TW-1</i>			
	Pumping Rate	2	GPM
	Water Level Above Transducer	14.84	feet
	Flow Meter Reading	9,249,300	gallons
	Pump Pressure	0	psi
<i>TW-2A</i>			
	Pumping Rate	9	GPM
	Water Level Above Transducer	15.42	feet
	Flow Meter Reading	16,347,600	gallons
	Pump Pressure	0	psi
<i>TW-3</i>			
	Pumping Rate	7	GPM
	Water Level Above Transducer	25.13	feet
	Flow Meter Reading	15,671,800	gallons
	Pump Pressure	0	psi
<i>VFD Setting</i>			
	Arrival	60	Hz
	Departure	60	Hz
<i>Air Stripper</i>			
	Stripper Blower Pressure	13	inches H ₂ O
	Air Temperature in Stripper	52	°F
<i>Effluent Flow</i>			
	Effluent Flow this period (calculated)	458,486	gallons
	Total Effluent Flow (calculated)	111,750,044	gallons

Report Date:
13-Aug-18 11:28

Laboratory Report SC49088

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

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

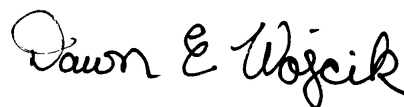
I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

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 59 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: SC49088
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>
SC49088-01	EFF 60 073018	Ground Water	30-Jul-18 14:00	31-Jul-18 10:45
SC49088-02	INF 073018	Ground Water	30-Jul-18 13:55	31-Jul-18 10:45
SC49088-03	TW-1 073018	Ground Water	30-Jul-18 13:50	31-Jul-18 10:45
SC49088-04	TW-2A 073018	Ground Water	30-Jul-18 14:10	31-Jul-18 10:45
SC49088-05	TW-3 073018	Ground Water	30-Jul-18 14:15	31-Jul-18 10:45
SC49088-06	TB 073018	Trip Blank	30-Jul-18 00:00	31-Jul-18 10:45

CASE NARRATIVE:

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

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

The samples were received 3.5 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.

SW8260 C

CB02299-BLK

Analyte included in the analysis, but not detected at or above the MDL.

1,1,1-Trichloroethane
1,1-Dichloroethane
Trichloroethene

SW8260 C

Laboratory Control Samples:

CB04232-LCS

A blank MS/MSD was analyzed with this batch.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Toluene-d8
Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

Samples:

SC49088-01 *EFF 60 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

SC49088-02 *INF 073018*

SW8260 C

Samples:

SC49088-02 *INF 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

SC49088-03 *TW-1 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

SC49088-04 *TW-2A 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

SC49088-05 *TW-3 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

SC49088-06 *TB 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

CB04232-BLK

SW8260 C

CB04232-BLK

A blank MS/MSD was analyzed with this batch.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Toluene-d8
Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

Analyte included in the analysis, but not detected at or above the MDL.

Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

CB04232-LCSD

A blank MS/MSD was analyzed with this batch.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Toluene-d8
Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

CB04232-MS

A blank MS/MSD was analyzed with this batch.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Toluene-d8
Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

CB04232-MSD

A blank MS/MSD was analyzed with this batch.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Toluene-d8
Di-isopropyl ether
Ethanol
Ethyl tert-butyl ether
tert-amyl alcohol
tert-amyl methyl ether
tert-butyl alcohol

SW8260C

Laboratory Control Samples:

CB04222-LCS

Laboratory Control Samples:CB04222-LCS

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

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

SW8260C

Laboratory Control Samples:

CB04222-LCS

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

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

Samples:

SC49088-01 *EFF 60 073018*

Samples:

SC49088-01

EFF 60 073018

Analyte included in the analysis, but not detected at or above the MDL.

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

SW8260C

Samples:

SC49088-01 *EFF 60 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
Total Xylenes
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

Estimated Below RL

1,1-Dichloroethane
Acetone
Trichloroethene

Laboratory solvent, contamination is possible.

Acetone

This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

2-Isopropyltoluene
Tetrahydrofuran (THF)

SC49088-02 *INF 073018*

Samples:

SC49088-02

INF 073018

Analyte included in the analysis, but not detected at or above the MDL.

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

SW8260C

Samples:

SC49088-02 *INF 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Tetrahydrofuran (THF)
Toluene
Total Xylenes
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichlorofluoromethane
Trichlorotrifluoroethane

Estimated Below RL

Chloroethane
Vinyl chloride

This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

2-Isopropyltoluene
Tetrahydrofuran (THF)

SC49088-03 *TW-1 073018*

Samples:

SC49088-03

TW-1 073018

Analyte included in the analysis, but not detected at or above the MDL.

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

SW8260C

Samples:

SC49088-03 *TW-1 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
Total Xylenes
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

2-Isopropyltoluene
Tetrahydrofuran (THF)

SC49088-04 *TW-2A 073018*

Samples:

SC49088-04

TW-2A 073018

Analyte included in the analysis, but not detected at or above the MDL.

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

SW8260C

Samples:

SC49088-04 *TW-2A 073018*

Analyte included in the analysis, but not detected at or above the MDL.

Tetrahydrofuran (THF)
Toluene
Total Xylenes
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichlorofluoromethane
Trichlorotrifluoroethane

Estimated Below RL

Chloroethane

This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

2-Isopropyltoluene
Tetrahydrofuran (THF)

SC49088-05 *TW-3 073018*

Samples:

SC49088-05

TW-3 073018

Analyte included in the analysis, but not detected at or above the MDL.

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

SW8260C

Samples:

SC49088-05

TW-3 073018

Analyte included in the analysis, but not detected at or above the MDL.

Tetrahydrofuran (THF)
Toluene
Total Xylenes
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

Estimated Below RL

Chloroethane
cis-1,2-Dichloroethene

This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

2-Isopropyltoluene
Tetrahydrofuran (THF)

SC49088-06

TB 073018

Samples:

SC49088-06

TB 073018

Analyte included in the analysis, but not detected at or above the MDL.

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

SW8260C

Samples:

SC49088-06

TB 073018

Analyte included in the analysis, but not detected at or above the MDL.

sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
Total Xylenes
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

Estimated Below RL

Chloroform

This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

2-Isopropyltoluene
Tetrahydrofuran (THF)

CB04222-BLK

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

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

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

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

Analyte included in the analysis, but not detected at or above the MDL.

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

SW8260C

CB04222-BLK

Analyte included in the analysis, but not detected at or above the MDL.

Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

CB04222-LCSD

[Undefined]

Bromomethane

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

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

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

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

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

Bromomethane

Sample Acceptance Check Form

Client: AECOM Environment - Latham, NY
Project: Now Corp - Staatsburg, NY / 60276639-1
Work Order: SC49088
Sample(s) received on: 7/31/2018

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: SC49088-01

Client ID: EFF 60 073018

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Total Dissolved Solids	268		5	mg/l	SM18-22 2540C
1,1-Dichloroethane	0.25	J.	1.0	ug/l	SW8260C
Acetone	2.7	Q2, J.	25	ug/l	SW8260C
Tetrahydrofuran (THF)	4.9	Q1, U.	2.5	ug/l	SW8260C
Trichloroethene	0.42	J.	1.0	ug/l	SW8260C
Barium	0.0814		0.0050	mg/l	SW846 6010C
Copper	0.0030	J	0.0050	mg/l	SW846 6010C
Iron	0.0100	J	0.125	mg/l	SW846 6010C
Manganese	0.0338		0.0040	mg/l	SW846 6010C
Zinc	0.0032	J	0.0250	mg/l	SW846 6010C

Lab ID: SC49088-02

Client ID: INF 073018

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Oil & Grease	1.09		0.990	mg/l	EPA 1664B
Total Dissolved Solids	305		5	mg/l	SM18-22 2540C
Total Suspended Solids	2.4		0.5	mg/l	SM2540D (11)
1,1,1-Trichloroethane	170		10	ug/l	SW8260 C
1,1-Dichloroethane	95		10	ug/l	SW8260 C
Trichloroethene	200		10	ug/l	SW8260 C
1,1-Dichloroethene	10		1.0	ug/l	SW8260C
Chloroethane	0.45	J.	1.0	ug/l	SW8260C
cis-1,2-Dichloroethene	6.6		1.0	ug/l	SW8260C
Vinyl chloride	0.48	J.	1.0	ug/l	SW8260C
Aluminum	0.0134	J	0.0250	mg/l	SW846 6010C
Barium	0.0774		0.0050	mg/l	SW846 6010C
Copper	0.0109		0.0050	mg/l	SW846 6010C
Iron	0.242		0.125	mg/l	SW846 6010C
Manganese	0.455		0.0040	mg/l	SW846 6010C
Nickel	0.0046	J	0.0050	mg/l	SW846 6010C
Zinc	0.0085	J	0.0250	mg/l	SW846 6010C

Lab ID: SC49088-03

Client ID: TW-1 073018

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	34		5.0	ug/l	SW8260 C
1,1,1-Trichloroethane	1.0		1.0	ug/l	SW8260C
1,1-Dichloroethane	27		1.0	ug/l	SW8260C
1,1-Dichloroethene	9.3		1.0	ug/l	SW8260C
cis-1,2-Dichloroethene	3.2		1.0	ug/l	SW8260C

Lab ID: SC49088-04**Client ID:** TW-2A 073018

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	180		10	ug/l	SW8260 C
1,1-Dichloroethane	100		10	ug/l	SW8260 C
Trichloroethene	330		100	ug/l	SW8260 C
1,1-Dichloroethene	11		1.0	ug/l	SW8260C
Chloroethane	0.44	J.	1.0	ug/l	SW8260C
cis-1,2-Dichloroethene	14		1.0	ug/l	SW8260C
Vinyl chloride	1.1		1.0	ug/l	SW8260C

Lab ID: SC49088-05**Client ID:** TW-3 073018

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Trichloroethene	31		5.0	ug/l	SW8260 C
1,1,1-Trichloroethane	5.4		1.0	ug/l	SW8260C
1,1-Dichloroethane	12		1.0	ug/l	SW8260C
1,1-Dichloroethene	1.6		1.0	ug/l	SW8260C
Chloroethane	0.67	J.	1.0	ug/l	SW8260C
cis-1,2-Dichloroethene	0.93	J.	1.0	ug/l	SW8260C

Lab ID: SC49088-06**Client ID:** TB 073018

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Chloroform	0.26	J.	1.0	ug/l	SW8260C

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

Sample Identification

EFF 60 073018

SC49088-01

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:00

Received

31-Jul-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Extractable Petroleum HydrocarbonsPrepared by method General Preparation SVOC

Oil & Grease	< 0.990	U,OG	mg/l	0.990	0.906	1	EPA 1664B	02-Aug-18	06-Aug-18	SC	1810662	X
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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	31-Jul-18		JS	1810502	
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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	03-Aug-18	06-Aug-18	SJR/T	1810569	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	0.0814		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	0.0030	J	mg/l	0.0050	0.0023	1	"	"	"	"	"	X
7439-89-6	Iron	0.0100	J	mg/l	0.125	0.0045	1	"	"	09-Aug-18	"	"	X
7439-96-5	Manganese	0.0338		mg/l	0.0040	0.0019	1	"	"	06-Aug-18	"	"	X
7440-02-0	Nickel	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-66-6	Zinc	0.0032	J	mg/l	0.0250	0.0016	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00014	1	EPA 245.1/7470A	03-Aug-18	08-Aug-18	ABW	1810570	X
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General Chemistry Parameters

57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00470	1	EPA 335.4 / SW846 9012B	09-Aug-18	09-Aug-18	RLT	1810978	X
	Total Dissolved Solids	268		mg/l	5	3	1	SM18-22 2540C	01-Aug-18	07-Aug-18	CMB	1810586	X
	Total Suspended Solids	< 0.5	U	mg/l	0.5	0.2	1	SM2540D (11)	02-Aug-18	03-Aug-18	CMB	1810643	X

Subcontracted AnalysesSubcontracted Analyses

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

108-20-3	Di-isopropyl ether	< 10	U.	ug/l	10	1.0	1	SW8260 C	30-Jul-18 14:00	08-Aug-18 17:43	11301	442302A	
64-17-5	Ethanol	< 100	U.	ug/l	100	25	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-85-4	tert-amyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	
994-05-8	tert-amyl methyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-65-0	tert-butyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	108			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	92			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	97			70-130 %			"	"	"	"	"	

Subcontracted Analyses

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

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	"	05-Aug-18 19:53	11301	441913A	
71-55-6	1,1,1-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	0.25	J.	ug/l	1.0	0.25	1	"	"	"	"	"	

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

Sample Identification

EFF 60 073018

SC49088-01

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:00

Received

31-Jul-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

75-35-4	1,1-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	30-Jul-18 14:00	05-Aug-18 19:53	11301	441913A	
563-58-6	1,1-Dichloropropene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0	U.	ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60	U.	ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0	Q1, U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	2.7	Q2, J.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70	U.	ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0	U.	ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

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Sample Identification

EFF 60 073018

SC49088-01

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:00

Received

31-Jul-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

179601-23-1	m&p-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	30-Jul-18 14:00	05-Aug-18 19:53	11301	441913A	
78-93-3	Methyl ethyl ketone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	4.9	Q1, U.	ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	0.42	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100		70-130 %		"	"	"	"	"
460-00-4	% Bromofluorobenzene	98		70-130 %		"	"	"	"	"
1868-53-7	% Dibromofluoromethane	100		70-130 %		"	"	"	"	"
2037-26-5	% Toluene-d8	99		70-130 %		"	"	"	"	"

Sample Identification

INF 073018

SC49088-02

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 13:55

Received

31-Jul-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Extractable Petroleum HydrocarbonsPrepared by method General Preparation SVOC

Oil & Grease	1.09	OG	mg/l	0.990	0.906	1	EPA 1664B	02-Aug-18	06-Aug-18	SC	1810662	X
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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	31-Jul-18		JS	1810502	
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Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3005A

7429-90-5	Aluminum	0.0134	J	mg/l	0.0250	0.0103	1	SW846 6010C	03-Aug-18	06-Aug-18	SJR/T	1810569	X
7440-38-2	Arsenic	< 0.00400	U	mg/l	0.00400	0.00138	1	"	"	"	"	"	X
7440-39-3	Barium	0.0774		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050	U	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-50-8	Copper	0.0109		mg/l	0.0050	0.0023	1	"	"	"	"	"	X
7439-89-6	Iron	0.242		mg/l	0.125	0.0045	1	"	"	09-Aug-18	"	"	X
7439-96-5	Manganese	0.455		mg/l	0.0040	0.0019	1	"	"	06-Aug-18	"	"	X
7440-02-0	Nickel	0.0046	J	mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7440-66-6	Zinc	0.0085	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	03-Aug-18	08-Aug-18	ABW	1810570	X
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General Chemistry Parameters

57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00470	1	EPA 335.4 / SW846 9012B	09-Aug-18	09-Aug-18	RLT	1810978	X
	Total Dissolved Solids	305		mg/l	5	3	1	SM18-22 2540C	01-Aug-18	07-Aug-18	CMB	1810586	X
	Total Suspended Solids	2.4		mg/l	0.5	0.2	1	SM2540D (11)	02-Aug-18	03-Aug-18	CMB	1810643	X

Subcontracted AnalysesSubcontracted Analyses

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

71-55-6	1,1,1-Trichloroethane	170		ug/l	10	2.5	10	SW8260 C	30-Jul-18 13:55	06-Aug-18 11:45	11301	442076A	
75-34-3	1,1-Dichloroethane	95		ug/l	10	2.5	10	"	"	"	"	"	
79-01-6	Trichloroethene	200		ug/l	10	2.5	10	"	"	"	"	"	

Subcontracted Analyses

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

108-20-3	Di-isopropyl ether	< 10	U.	ug/l	10	1.0	1	SW8260 C	"	08-Aug-18 18:05	11301	442302A	
64-17-5	Ethanol	< 100	U.	ug/l	100	25	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-85-4	tert-amyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	
994-05-8	tert-amyl methyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-65-0	tert-butyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	107			70-130 %		"	"	"	"	"	
460-00-4	% Bromofluorobenzene	102			70-130 %		"	"	"	"	"	
2037-26-5	% Toluene-d8	97			70-130 %		"	"	"	"	"	

Subcontracted Analyses

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

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Sample Identification

INF 073018

SC49088-02

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 13:55

Received

31-Jul-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	30-Jul-18 13:55	06-Aug-18 00:21	11301	441913A	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	10		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0	U.	ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60	U.	ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0	Q1, U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25	U.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70	U.	ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0	U.	ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	0.45	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	6.6		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

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Sample Identification

INF 073018

SC49088-02

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 13:55

Received

31-Jul-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

100-41-4	Ethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	30-Jul-18 13:55	06-Aug-18 00:21	11301	441913A	
87-68-3	Hexachlorobutadiene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5	Q1, U.	ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	0.48	J.	ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99		70-130 %		"	"	"	"	"
460-00-4	% Bromofluorobenzene	94		70-130 %		"	"	"	"	"
1868-53-7	% Dibromofluoromethane	88		70-130 %		"	"	"	"	"
2037-26-5	% Toluene-d8	110		70-130 %		"	"	"	"	"

Sample Identification

TW-1 073018

SC49088-03

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 13:50

Received

31-Jul-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

79-01-6	Trichloroethene	34		ug/l	5.0	1.3	5	SW8260 C	30-Jul-18 13:50	06-Aug-18 12:07	11301	442076A	
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Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

108-20-3	Di-isopropyl ether	< 10	U.	ug/l	10	1.0	1	SW8260 C	"	08-Aug-18 18:26	11301	442302A	
64-17-5	Ethanol	< 100	U.	ug/l	100	25	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-85-4	tert-amyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	
994-05-8	tert-amyl methyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-65-0	tert-butyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	109			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	90			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	99			70-130 %			"	"	"	"	"	

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

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	"	05-Aug-18 20:15	11301	441913A	
71-55-6	1,1,1-Trichloroethane	1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	27		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	9.3		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0	U.	ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60	U.	ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0	Q1, U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25	U.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

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Sample Identification

TW-1 073018

SC49088-03

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 13:50

Received

31-Jul-18

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

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

71-43-2	Benzene	< 0.70	U.	ug/l	0.70	0.25	1	SW8260C	30-Jul-18 13:50	05-Aug-18 20:15	11301	441913A	
108-86-1	Bromobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0	U.	ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	3.2		ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5	Q1, U.	ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

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Sample Identification

TW-1 073018

SC49088-03

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 13:50

Received

31-Jul-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %			SW8260C	30-Jul-18	-Aug-18 20:13:50	11301	441913A	
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	100			70-130 %			"	"	"	"	"	"
2037-26-5	% Toluene-d8	101			70-130 %			"	"	"	"	"	"

Sample Identification

TW-2A 073018

SC49088-04

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:10

Received

31-Jul-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

71-55-6	1,1,1-Trichloroethane	180		ug/l	10	2.5	10	SW8260 C	30-Jul-18 14:10	06-Aug-18 12:52	11301	442076A	
75-34-3	1,1-Dichloroethane	100		ug/l	10	2.5	10	"	"	"	"	"	
79-01-6	Trichloroethene	330		ug/l	100	25	100	"	"	06-Aug-18 12:30	"	"	

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

108-20-3	Di-isopropyl ether	< 10	U.	ug/l	10	1.0	1	SW8260 C	"	08-Aug-18 18:48	11301	442302A	
64-17-5	Ethanol	< 100	U.	ug/l	100	25	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-85-4	tert-amyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	
994-05-8	tert-amyl methyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-65-0	tert-butyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	109			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	97			70-130 %			"	"	"	"	"	

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

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	"	05-Aug-18 20:37	11301	441913A	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	11		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 1.0	U.	ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60	U.	ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0	Q1, U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	

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Sample Identification

TW-2A 073018

SC49088-04

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:10

Received

31-Jul-18

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

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

67-64-1	Acetone	< 25	U.	ug/l	25	2.5	1	SW8260C	30-Jul-18 14:10	05-Aug-18 20:37	11301	441913A	
107-13-1	Acrylonitrile	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
71-43-2	Benzene	< 0.70	U.	ug/l	0.70	0.25	1	"	"	"	"	"	"
108-86-1	Bromobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
74-97-5	Bromochloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	"
75-25-2	Bromoform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 5.0	U.	ug/l	5.0	0.25	1	"	"	"	"	"	"
56-23-5	Carbon tetrachloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
75-00-3	Chloroethane	0.44	J.	ug/l	1.0	0.25	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	14		ug/l	1.0	0.25	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
75-71-8	Dichlorodifluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	"
98-82-8	Isopropylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
179601-23-1	m&p-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
78-93-3	Methyl ethyl ketone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	"
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
75-09-2	Methylene chloride	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	"
104-51-8	n-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
103-65-1	n-Propylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
91-20-3	Naphthalene	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
99-87-6	p-Isopropyltoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
135-98-8	sec-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
100-42-5	Styrene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
98-06-6	tert-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
109-99-9	Tetrahydrofuran (THF)	< 2.5	Q1, U.	ug/l	2.5	2.5	1	"	"	"	"	"	"
108-88-3	Toluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
1330-20-7	Total Xylenes	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	"
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	"

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Sample Identification

TW-2A 073018

SC49088-04

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:10

Received

31-Jul-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. *- CT007*

76-13-1	Trichlorotrifluoroethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	30-Jul-18 14:10	05-Aug-18 20:37	11301	441913A	
75-01-4	Vinyl chloride	1.1		ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	100			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	96			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	88			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	116			70-130 %			"	"	"	"	"	

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Sample Identification

TW-3 073018

SC49088-05

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:15

Received

31-Jul-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

79-01-6	Trichloroethene	31		ug/l	5.0	1.3	5	SW8260 C	30-Jul-18 14:15	06-Aug-18 13:37	11301	442076A	
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Subcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

108-20-3	Di-isopropyl ether	< 10	U.	ug/l	10	1.0	1	SW8260 C	"	08-Aug-18 19:10	11301	442302A	
64-17-5	Ethanol	< 100	U.	ug/l	100	25	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-85-4	tert-amyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	
994-05-8	tert-amyl methyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-65-0	tert-butyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	107			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	98			70-130 %			"	"	"	"	"	

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

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	"	05-Aug-18 21:00	11301	441913A	
71-55-6	1,1,1-Trichloroethane	5.4		ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	12		ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	1.6		ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0	U.	ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60	U.	ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0	Q1, U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25	U.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

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Sample Identification

TW-3 073018

SC49088-05

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:15

Received

31-Jul-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Subcontracted Analyses													
<u>Subcontracted Analyses</u>													
<i>Analysis performed by Phoenix Environmental Labs, Inc. *- CT007</i>													
71-43-2	Benzene	< 0.70	U.	ug/l	0.70	0.25	1	SW8260C	30-Jul-18 14:15	05-Aug-18 21:00	11301	441913A	
108-86-1	Bromobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0	U.	ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	0.67	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	0.93	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5	Q1, U.	ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

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Sample Identification

TW-3 073018

SC49088-05

Client Project #

60276639-1

Matrix

Ground Water

Collection Date/Time

30-Jul-18 14:15

Received

31-Jul-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	99			70-130 %			SW8260C	30-Jul-18	-Aug-18 21:14:15	11301	441913A	
460-00-4	% Bromofluorobenzene	96			70-130 %			"	"	"	"	"	"
1868-53-7	% Dibromofluoromethane	101			70-130 %			"	"	"	"	"	"
2037-26-5	% Toluene-d8	102			70-130 %			"	"	"	"	"	"

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Sample Identification

TB 073018
SC49088-06

Client Project #
60276639-1

Matrix
Trip Blank

Collection Date/Time
30-Jul-18 00:00

Received
31-Jul-18

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

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

108-20-3	Di-isopropyl ether	< 10	U.	ug/l	10	1.0	1	SW8260 C	30-Jul-18	08-Aug-18 16:17	11301	442302A	
64-17-5	Ethanol	< 100	U.	ug/l	100	25	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-85-4	tert-amyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	
994-05-8	tert-amyl methyl ether	< 10	U.	ug/l	10	1.0	1	"	"	"	"	"	
75-65-0	tert-butyl alcohol	< 100	U.	ug/l	100	100	1	"	"	"	"	"	

Surrogate recoveries:

2199-69-1	% 1,2-dichlorobenzene-d4	105			70-130 %			"	"	"	"	"	
460-00-4	% Bromofluorobenzene	105			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	99			70-130 %			"	"	"	"	"	

Subcontracted Analyses

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

630-20-6	1,1,1,2-Tetrachloroethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	"	05-Aug-18 18:46	11301	441913A	
71-55-6	1,1,1-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloroprop ane	< 1.0	U.	ug/l	1.0	0.50	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.60	U.	ug/l	0.60	0.25	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
527-84-4	2-Isopropyltoluene	< 1.0	Q1, U.	ug/l	1.0	0.25	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
67-64-1	Acetone	< 25	U.	ug/l	25	2.5	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
71-43-2	Benzene	< 0.70	U.	ug/l	0.70	0.25	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

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Sample Identification

TB 073018
SC49088-06

Client Project #
60276639-1

Matrix
Trip Blank

Collection Date/Time
30-Jul-18 00:00

Received
31-Jul-18

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

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

74-97-5	Bromochloromethane	< 1.0	U.	ug/l	1.0	0.25	1	SW8260C	30-Jul-18	05-Aug-18 18:46	11301	441913A	
75-27-4	Bromodichloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 5.0	U.	ug/l	5.0	0.25	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
67-66-3	Chloroform	0.26	J.	ug/l	1.0	0.25	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50	U.	ug/l	0.50	0.25	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
179601-23-1	m&p-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
78-93-3	Methyl ethyl ketone	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
1634-04-4	Methyl t-butyl ether (MTBE)	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
99-87-6	p-Isopropyltoluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran (THF)	< 2.5	Q1, U.	ug/l	2.5	2.5	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
1330-20-7	Total Xylenes	< 1.0	U.	ug/l	1.0	1.0	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.40	U.	ug/l	0.40	0.25	1	"	"	"	"	"	
110-57-6	trans-1,4-dichloro-2-buten e	< 5.0	U.	ug/l	5.0	2.5	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
76-13-1	Trichlorotrifluoroethane	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0	U.	ug/l	1.0	0.25	1	"	"	"	"	"	

Surrogate recoveries:

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

Sample Identification

TB 073018

SC49088-06

Client Project #

60276639-1

Matrix

Trip Blank

Collection Date/Time

30-Jul-18 00:00

Received

31-Jul-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

2199-69-1	% 1,2-dichlorobenzene-d4	101			70-130 %			SW8260C	30-Jul-18	-Aug-18 18:	11301	441913A	
460-00-4	% Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
1868-53-7	% Dibromofluoromethane	101			70-130 %			"	"	"	"	"	
2037-26-5	% Toluene-d8	101			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 1810662 - General Preparation SVOC										
<u>Blank (1810662-BLK1)</u>					<u>Prepared: 02-Aug-18 Analyzed: 06-Aug-18</u>					
Oil & Grease	< 1.05	U	mg/l	1.05						
<u>LCS (1810662-BS1)</u>					<u>Prepared: 02-Aug-18 Analyzed: 06-Aug-18</u>					
Oil & Grease	33.2		mg/l	1.05	41.9		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 1810569 - SW846 3005A										
<u>Blank (1810569-BLK1)</u>					<u>Prepared: 03-Aug-18 Analyzed: 09-Aug-18</u>					
Iron	< 0.125	U	mg/l	0.125						
Manganese	< 0.0040	U	mg/l	0.0040						
Chromium	< 0.0050	U	mg/l	0.0050						
Copper	0.0038	J	mg/l	0.0050						
Nickel	< 0.0050	U	mg/l	0.0050						
Zinc	0.0022	J	mg/l	0.0250						
Aluminum	< 0.0250	U	mg/l	0.0250						
Barium	< 0.0050	U	mg/l	0.0050						
Arsenic	< 0.00400	U	mg/l	0.00400						
<u>LCS (1810569-BS1)</u>					<u>Prepared: 03-Aug-18 Analyzed: 09-Aug-18</u>					
Iron	1.22		mg/l	0.125	1.25		98	85-115		
Manganese	1.26		mg/l	0.0040	1.25		101	85-115		
Chromium	1.17		mg/l	0.0050	1.25		93	85-115		
Nickel	1.38		mg/l	0.0050	1.25		110	85-115		
Copper	1.36		mg/l	0.0050	1.25		109	85-115		
Zinc	1.27		mg/l	0.0250	1.25		102	85-115		
Barium	1.27		mg/l	0.0050	1.25		102	85-115		
Aluminum	1.29		mg/l	0.0250	1.25		103	85-115		
Arsenic	1.250		mg/l	0.00400	1.25		100	85-115		
<u>LCS Dup (1810569-BSD1)</u>					<u>Prepared: 03-Aug-18 Analyzed: 09-Aug-18</u>					
Iron	1.25		mg/l	0.125	1.25		100	85-115	2	20
Manganese	1.27		mg/l	0.0040	1.25		102	85-115	1	20
Nickel	1.38		mg/l	0.0050	1.25		111	85-115	0.5	20
Barium	1.29		mg/l	0.0050	1.25		103	85-115	1	20
Zinc	1.28		mg/l	0.0250	1.25		103	85-115	1	20
Copper	1.39		mg/l	0.0050	1.25		111	85-115	2	20
Chromium	1.19		mg/l	0.0050	1.25		95	85-115	2	20
Aluminum	1.31		mg/l	0.0250	1.25		104	85-115	1	20
Arsenic	1.269		mg/l	0.00400	1.25		102	85-115	2	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 1810570 - EPA200/SW7000 Series										
<u>Blank (1810570-BLK1)</u>	<u>Prepared: 03-Aug-18 Analyzed: 08-Aug-18</u>									
Mercury	< 0.00020	U	mg/l	0.00020						
<u>LCS (1810570-BS1)</u>	<u>Prepared: 03-Aug-18 Analyzed: 08-Aug-18</u>									
Mercury	0.00446		mg/l	0.00020	0.00500		89	85-115		
<u>Duplicate (1810570-DUP1)</u>	<u>Source: SC49088-02 Prepared: 03-Aug-18 Analyzed: 08-Aug-18</u>									
Mercury	< 0.00020	U	mg/l	0.00020		BRL				20
<u>Matrix Spike (1810570-MS1)</u>	<u>Source: SC49088-02 Prepared: 03-Aug-18 Analyzed: 08-Aug-18</u>									
Mercury	0.00426		mg/l	0.00020	0.00500	BRL	85	80-120		
<u>Matrix Spike Dup (1810570-MSD1)</u>	<u>Source: SC49088-02 Prepared: 03-Aug-18 Analyzed: 08-Aug-18</u>									
Mercury	0.00428		mg/l	0.00020	0.00500	BRL	86	80-120	0.5	20
<u>Post Spike (1810570-PS1)</u>	<u>Source: SC49088-02 Prepared: 03-Aug-18 Analyzed: 08-Aug-18</u>									
Mercury	0.00452		mg/l	0.00020	0.00500	BRL	90	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 1810978 - General Preparation										
<u>Blank (1810978-BLK1)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
<u>Blank (1810978-BLK2)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
<u>LCS (1810978-BS1)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.224		mg/l	0.00500	0.250		90	90-110		
<u>LCS (1810978-BS2)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.229		mg/l	0.00500	0.250		92	90-110		
<u>Calibration Blank (1810978-CCB1)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.00120		mg/l							
<u>Calibration Blank (1810978-CCB2)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.000823		mg/l							
<u>Calibration Blank (1810978-CCB3)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.000846		mg/l							
<u>Calibration Check (1810978-CCV1)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.251		mg/l	0.00500	0.250		100	90-110		
<u>Calibration Check (1810978-CCV2)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.232		mg/l	0.00500	0.250		93	90-110		
<u>Calibration Check (1810978-CCV3)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.249		mg/l	0.00500	0.250		100	90-110		
<u>Duplicate (1810978-DUP1)</u>	<u>Source: SC49088-01</u> <u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	< 0.00500	U	mg/l	0.00500		BRL				20
<u>Matrix Spike (1810978-MS1)</u>	<u>Source: SC49088-01</u> <u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.243		mg/l	0.00500	0.250	BRL	97	90-110		
<u>Matrix Spike Dup (1810978-MSD1)</u>	<u>Source: SC49088-01</u> <u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.235		mg/l	0.00500	0.250	BRL	94	90-110	3	20
<u>Reference (1810978-SRM1)</u>	<u>Prepared & Analyzed: 09-Aug-18</u>									
Cyanide (total)	0.291		mg/l	0.00500	0.347		84	76-122		
<u>SM18-22 2540C</u>										
Batch 1810586 - General Preparation										
<u>Blank (1810586-BLK1)</u>	<u>Prepared: 01-Aug-18 Analyzed: 07-Aug-18</u>									
Total Dissolved Solids	< 5	U	mg/l	5						
<u>LCS (1810586-BS1)</u>	<u>Prepared: 01-Aug-18 Analyzed: 07-Aug-18</u>									
Total Dissolved Solids	1030		mg/l	10	1000		103	90-110		
<u>Duplicate (1810586-DUP1)</u>	<u>Source: SC49088-01</u> <u>Prepared: 01-Aug-18 Analyzed: 07-Aug-18</u>									
Total Dissolved Solids	272		mg/l	5		268			1	5
<u>SM2540D (11)</u>										
Batch 1810643 - General Preparation										
<u>Blank (1810643-BLK1)</u>	<u>Prepared: 02-Aug-18 Analyzed: 03-Aug-18</u>									
Total Suspended Solids	< 0.5	U	mg/l	0.5						
<u>LCS (1810643-BS1)</u>	<u>Prepared: 02-Aug-18 Analyzed: 03-Aug-18</u>									
Total Suspended Solids	92.0		mg/l	10.0	100		92	90-110		

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260 C										
Batch 442076A -										
BLK (CB02299-BLK)					<u>Prepared: Analyzed: 06-Aug-18</u>					
1,1,1-Trichloroethane	< 1.0	U.	ug/l	1.0				-		
Trichloroethene	< 1.0	U.	ug/l	1.0				-		
1,1-Dichloroethane	< 1.0	U.	ug/l	1.0				-		
LCS (CB02299-LCS)					<u>Prepared: Analyzed: 06-Aug-18</u>					
1,1,1-Trichloroethane	9.579		ug/l	1.0	10		96	70-130		30
1,1-Dichloroethane	9.620		ug/l	1.0	10		96	70-130		30
Trichloroethene	9.574		ug/l	1.0	10		96	70-130		30
LCSD (CB02299-LCSD)					<u>Prepared: Analyzed: 06-Aug-18</u>					
1,1,1-Trichloroethane	9.523		%	%	10		95	70-130	1.0	30
1,1-Dichloroethane	9.704		%	%	10		97	70-130	1.0	30
Trichloroethene	9.725		%	%	10		97	70-130	1.0	30
MS (CB02299-MS)				Source: CB02299	<u>Prepared: Analyzed: 06-Aug-18</u>					
1,1,1-Trichloroethane	10.30		ug/l	1.0	10		103	70-130		30
1,1-Dichloroethane	10.06		ug/l	1.0	10		101	70-130		30
Trichloroethene	10.10		ug/l	1.0	10		101	70-130		30
MSD (CB02299-MSD)				Source: CB02299	<u>Prepared: Analyzed: 06-Aug-18</u>					
1,1-Dichloroethane	10.45		%	%	10		104	70-130	2.9	30
Trichloroethene	10.43		%	%	10		104	70-130	2.9	30
1,1,1-Trichloroethane	10.79		%	%	10		108	70-130	4.7	30
SW8260 C										
Batch 442302A -										
BLK (CB04232-BLK)					<u>Prepared: Analyzed: 08-Aug-18</u>					
Di-isopropyl ether	< 1.0	c3, U.	ug/l	1.0				-		
Ethanol	< 200	c3, U.	ug/l	200				-		
Ethyl tert-butyl ether	< 1.0	c3, U.	ug/l	1.0				-		
tert-amyl alcohol	< 25	c3, U.	ug/l	25				-		
tert-amyl methyl ether	< 10	c3, U.	ug/l	10				-		
tert-butyl alcohol	< 25	c3, U.	ug/l	25				-		
Surrogate: % Bromofluorobenzene	95	c3	ug/l		30			70-130		
Surrogate: % Toluene-d8	94	c3	ug/l		30			70-130		
Surrogate: % 1,2-dichlorobenzene-d4	108	c3	ug/l		30			70-130		
LCS (CB04232-LCS)					<u>Prepared: Analyzed: 08-Aug-18</u>					
tert-amyl alcohol	209.0	c3	ug/l	25	250		84	70-130		20
Di-isopropyl ether	9.544	c3	ug/l	1.0	10		95	70-130		20
tert-butyl alcohol	231.0	c3	ug/l	25	250		92	70-130		20
tert-amyl methyl ether	8.504	c3	ug/l	10	10		85	70-130		20
Ethyl tert-butyl ether	9.332	c3	ug/l	1.0	10		93	70-130		20
Ethanol	238.9	c3	ug/l	200	250		96	70-130		20
Surrogate: % 1,2-dichlorobenzene-d4	31.91	c3	ug/l		30		106	70-130		
Surrogate: % Toluene-d8	28.99	c3	ug/l		30		97	70-130		
Surrogate: % Bromofluorobenzene	30.22	c3	ug/l		30		101	70-130		
LCSD (CB04232-LCSD)					<u>Prepared: Analyzed: 08-Aug-18</u>					
tert-amyl methyl ether	8.636	c3	%	%	10		86	70-130	1.2	20
tert-butyl alcohol	233.7	c3	%	%	250		93	70-130	1.1	20
tert-amyl alcohol	207.9	c3	%	%	250		83	70-130	1.2	20
Ethyl tert-butyl ether	9.337	c3	%	%	10		93	70-130	0.0	20
Di-isopropyl ether	9.584	c3	%	%	10		96	70-130	1.0	20
Ethanol	280.2	c3	%	%	250		112	70-130	15.4	20

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260 C										
Batch 442302A -										
LCSD (CB04232-LCSD)					Prepared: Analyzed: 08-Aug-18					
Surrogate: % Toluene-d8	29.02	c3	%		30		97	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	31.53	c3	%		30		105	70-130		
Surrogate: % Bromofluorobenzene	28.98	c3	%		30		97	70-130		
MS (CB04232-MS)					Source: CB04232 Prepared: Analyzed: 08-Aug-18					
Di-isopropyl ether	9.687	c3	ug/l	1.0	10		97	70-130		20
tert-butyl alcohol	235.4	c3	ug/l	25	250		94	70-130		20
tert-amyl methyl ether	8.512	c3	ug/l	10	10		85	70-130		20
tert-amyl alcohol	211.2	c3	ug/l	25	250		84	70-130		20
Ethanol	247.9	c3	ug/l	200	250		99	70-130		20
Ethyl tert-butyl ether	9.232	c3	ug/l	1.0	10		92	70-130		20
Surrogate: % 1,2-dichlorobenzene-d4	31.99	c3	ug/l		10		107	70-130		
Surrogate: % Toluene-d8	29.84	c3	ug/l		10		99	70-130		
Surrogate: % Bromofluorobenzene	27.60	c3	ug/l		10		92	70-130		
MSD (CB04232-MSD)					Source: CB04232 Prepared: Analyzed: 08-Aug-18					
Ethyl tert-butyl ether	8.729	c3	%	%	10		87	70-130	5.6	20
Ethanol	285.2	c3	%	%	250		114	70-130	14.1	20
tert-butyl alcohol	238.4	c3	%	%	250		95	70-130	1.1	20
tert-amyl methyl ether	8.090	c3	%	%	10		81	70-130	4.8	20
Di-isopropyl ether	9.079	c3	%	%	10		91	70-130	6.4	20
tert-amyl alcohol	208.2	c3	%	%	250		83	70-130	1.2	20
Surrogate: % Toluene-d8	29.07	c3	%		10		97	70-130		
Surrogate: % Bromofluorobenzene	29.05	c3	%		10		97	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	32.03	c3	%		10		107	70-130		
SW8260C										
Batch 441913A -										
BLK (CB04222-BLK)					Prepared: Analyzed: 05-Aug-18					
Bromobenzene	< 1.0	c1, U.	ug/l	1.0			-			
Chlorobenzene	< 1.0	c1, U.	ug/l	1.0			-			
Carbon tetrachloride	< 1.0	c1, U.	ug/l	1.0			-			
Carbon Disulfide	< 1.0	c1, U.	ug/l	1.0			-			
Bromomethane	< 1.0	c1, U.	ug/l	1.0			-			
Bromoform	< 1.0	c1, U.	ug/l	1.0			-			
Bromochloromethane	< 1.0	c1, U.	ug/l	1.0			-			
Chloromethane	< 1.0	c1, U.	ug/l	1.0			-			
Benzene	< 0.70	c1, U.	ug/l	0.70			-			
Acrylonitrile	< 5.0	c1, U.	ug/l	5.0			-			
Acetone	< 5.0	c1, U.	ug/l	5.0			-			
Bromodichloromethane	< 0.50	c1, U.	ug/l	0.50			-			
Chloroethane	< 1.0	c1, U.	ug/l	1.0			-			
Methyl ethyl ketone	< 5.0	c1, U.	ug/l	5.0			-			
1,2,3-Trichloropropane	< 1.0	c1, U.	ug/l	1.0			-			
cis-1,2-Dichloroethene	< 1.0	c1, U.	ug/l	1.0			-			
cis-1,3-Dichloropropene	< 0.40	c1, U.	ug/l	0.40			-			
Dibromochloromethane	< 0.50	c1, U.	ug/l	0.50			-			
Dibromomethane	< 1.0	c1, U.	ug/l	1.0			-			
Dichlorodifluoromethane	< 1.0	c1, U.	ug/l	1.0			-			
Ethylbenzene	< 1.0	c1, U.	ug/l	1.0			-			
Hexachlorobutadiene	< 0.40	c1, U.	ug/l	0.40			-			
Isopropylbenzene	< 1.0	c1, U.	ug/l	1.0			-			

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 441913A -										
BLK (CB04222-BLK)	Prepared: Analyzed: 05-Aug-18									
4-Methyl-2-pentanone	< 5.0	c1, U.	ug/l	5.0				-		
Chloroform	< 1.0	c1, U.	ug/l	1.0				-		
1,2-Dibromoethane	< 1.0	c1, U.	ug/l	1.0				-		
Methylene chloride	< 1.0	c1, U.	ug/l	1.0				-		
Methyl t-butyl ether (MTBE)	< 1.0	c1, U.	ug/l	1.0				-		
1,1,1,2-Tetrachloroethane	< 1.0	c1, U.	ug/l	1.0				-		
1,1,1-Trichloroethane	< 1.0	c1, U.	ug/l	1.0				-		
1,1,2,2-Tetrachloroethane	< 0.50	c1, U.	ug/l	0.50				-		
1,1,2-Trichloroethane	< 1.0	c1, U.	ug/l	1.0				-		
1,1-Dichloroethane	< 1.0	c1, U.	ug/l	1.0				-		
1,1-Dichloroethene	< 1.0	c1, U.	ug/l	1.0				-		
1,1-Dichloropropene	< 1.0	c1, U.	ug/l	1.0				-		
1,2,3-Trichlorobenzene	< 1.0	c1, U.	ug/l	1.0				-		
1,2,4-Trimethylbenzene	< 1.0	c1, U.	ug/l	1.0				-		
1,2-Dibromo-3-chloropropane	< 1.0	c1, U.	ug/l	1.0				-		
4-Chlorotoluene	< 1.0	c1, U.	ug/l	1.0				-		
1,2-Dichlorobenzene	< 1.0	c1, U.	ug/l	1.0				-		
1,2-Dichloroethane	< 1.0	c1, U.	ug/l	1.0				-		
1,2-Dichloropropane	< 1.0	c1, U.	ug/l	1.0				-		
1,3,5-Trimethylbenzene	< 1.0	c1, U.	ug/l	1.0				-		
1,3-Dichlorobenzene	< 1.0	c1, U.	ug/l	1.0				-		
1,3-Dichloropropane	< 1.0	c1, U.	ug/l	1.0				-		
1,4-Dichlorobenzene	< 1.0	c1, U.	ug/l	1.0				-		
2,2-Dichloropropane	< 1.0	c1, U.	ug/l	1.0				-		
2-Chlorotoluene	< 1.0	c1, U.	ug/l	1.0				-		
2-Hexanone	< 5.0	c1, U.	ug/l	5.0				-		
2-Isopropyltoluene	< 1.0	c1, U.	ug/l	1.0				-		
1,2,4-Trichlorobenzene	< 1.0	c1, U.	ug/l	1.0				-		
m&p-Xylene	< 1.0	c1, U.	ug/l	1.0				-		
Naphthalene	< 1.0	c1, U.	ug/l	1.0				-		
Vinyl chloride	< 1.0	c1, U.	ug/l	1.0				-		
Trichlorotrifluoroethane	< 1.0	c1, U.	ug/l	1.0				-		
Trichlorofluoromethane	< 1.0	c1, U.	ug/l	1.0				-		
Trichloroethene	< 1.0	c1, U.	ug/l	1.0				-		
trans-1,4-dichloro-2-butene	< 5.0	c1, U.	ug/l	5.0				-		
trans-1,3-Dichloropropene	< 0.40	c1, U.	ug/l	0.40				-		
trans-1,2-Dichloroethene	< 1.0	c1, U.	ug/l	1.0				-		
Toluene	< 1.0	c1, U.	ug/l	1.0				-		
Tetrachloroethene	< 1.0	c1, U.	ug/l	1.0				-		
tert-Butylbenzene	< 1.0	c1, U.	ug/l	1.0				-		
Styrene	< 1.0	c1, U.	ug/l	1.0				-		
sec-Butylbenzene	< 1.0	c1, U.	ug/l	1.0				-		
p-Isopropyltoluene	< 1.0	c1, U.	ug/l	1.0				-		
o-Xylene	< 1.0	c1, U.	ug/l	1.0				-		
n-Propylbenzene	< 1.0	c1, U.	ug/l	1.0				-		
Tetrahydrofuran (THF)	< 2.5	c1, U.	ug/l	2.5				-		
n-Butylbenzene	< 1.0	c1, U.	ug/l	1.0				-		
Surrogate: % 1,2-dichlorobenzene-d4	101	c1	ug/l		10			70-130		
Surrogate: % Toluene-d8	100	c1	ug/l		10			70-130		
Surrogate: % Bromofluorobenzene	96	c1	ug/l		10			70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 441913A -										
BLK (CB04222-BLK)					Prepared: Analyzed: 05-Aug-18					
Surrogate: % Dibromofluoromethane	101	c1	ug/l		10			70-130		
LCS (CB04222-LCS)					Prepared: Analyzed: 05-Aug-18					
Carbon tetrachloride	9.465	c1	ug/l	1.0	10		95	70-130		30
Hexachlorobutadiene	9.611	c1	ug/l	0.40	10		96	70-130		30
Ethylbenzene	9.473	c1	ug/l	1.0	10		95	70-130		30
Dichlorodifluoromethane	10.13	c1	ug/l	1.0	10		101	70-130		30
Isopropylbenzene	9.300	c1	ug/l	1.0	10		93	70-130		30
Dibromomethane	9.420	c1	ug/l	1.0	10		94	70-130		30
Dibromochloromethane	10.08	c1	ug/l	0.50	10		101	70-130		30
cis-1,3-Dichloropropene	9.724	c1	ug/l	0.40	10		97	70-130		30
cis-1,2-Dichloroethene	9.548	c1	ug/l	1.0	10		95	70-130		30
Chloromethane	10.50	c1	ug/l	1.0	10		105	70-130		30
Chloroform	9.407	c1	ug/l	1.0	10		94	70-130		30
m&p-Xylene	18.95	c1	ug/l	1.0	20		95	70-130		30
Chlorobenzene	9.147	c1	ug/l	1.0	10		91	70-130		30
n-Propylbenzene	9.460	c1	ug/l	1.0	10		95	70-130		30
Carbon Disulfide	10.98	c1	ug/l	1.0	10		110	70-130		30
Chloroethane	10.54	c1	ug/l	1.0	10		105	70-130		30
Tetrachloroethene	9.281	c1	ug/l	1.0	10		93	70-130		30
Vinyl chloride	10.57	c1	ug/l	1.0	10		106	70-130		30
Trichlorotrifluoroethane	9.551	c1	ug/l	1.0	10		96	70-130		30
Trichlorofluoromethane	9.404	c1	ug/l	1.0	10		94	70-130		30
Trichloroethene	9.557	c1	ug/l	1.0	10		96	70-130		30
trans-1,4-dichloro-2-butene	57.81	c1	ug/l	5.0	50		116	70-130		30
trans-1,3-Dichloropropene	9.635	c1	ug/l	0.40	10		96	70-130		30
trans-1,2-Dichloroethene	9.732	c1	ug/l	1.0	10		97	70-130		30
Naphthalene	10.76	c1	ug/l	1.0	10		108	70-130		30
Tetrahydrofuran (THF)	26.22	c1	ug/l	2.5	25		105	70-130		30
Methyl ethyl ketone	10.43	c1	ug/l	5.0	10		104	70-130		30
sec-Butylbenzene	9.779	c1	ug/l	1.0	10		98	70-130		30
Bromomethane	12.34	c1	ug/l	1.0	10		123	70-130		30
p-Isopropyltoluene	9.443	c1	ug/l	1.0	10		94	70-130		30
o-Xylene	9.469	c1	ug/l	1.0	10		95	70-130		30
n-Butylbenzene	9.513	c1	ug/l	1.0	10		95	70-130		30
Styrene	9.505	c1	ug/l	1.0	10		95	70-130		30
Methylene chloride	9.495	c1	ug/l	1.0	10		95	70-130		30
Methyl t-butyl ether (MTBE)	11.41	c1	ug/l	1.0	10		114	70-130		30
Toluene	9.516	c1	ug/l	1.0	10		95	70-130		30
1,1-Dichloroethene	9.518	c1	ug/l	1.0	10		95	70-130		30
1,2-Dichloroethane	9.486	c1	ug/l	1.0	10		95	70-130		30
1,2-Dichlorobenzene	9.149	c1	ug/l	1.0	10		91	70-130		30
1,2-Dibromoethane	9.368	c1	ug/l	1.0	10		94	70-130		30
1,2-Dibromo-3-chloropropane	10.43	c1	ug/l	1.0	10		104	70-130		30
1,2,4-Trimethylbenzene	9.380	c1	ug/l	1.0	10		94	70-130		30
1,2,4-Trichlorobenzene	9.807	c1	ug/l	1.0	10		98	70-130		30
1,2-Dichloropropane	9.438	c1	ug/l	1.0	10		94	70-130		30
1,2,3-Trichlorobenzene	10.56	c1	ug/l	1.0	10		106	70-130		30
1,1-Dichloropropene	9.445	c1	ug/l	1.0	10		94	70-130		30
Bromoform	9.966	c1	ug/l	1.0	10		100	70-130		30
1,1,2-Trichloroethane	9.564	c1	ug/l	1.0	10		96	70-130		30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 441913A -										
LCS (CB04222-LCS)						Prepared: Analyzed: 05-Aug-18				
1,1,2,2-Tetrachloroethane	10.02	c1	ug/l	0.50	10		100	70-130		30
1,1,1-Trichloroethane	9.567	c1	ug/l	1.0	10		96	70-130		30
1,1,1,2-Tetrachloroethane	9.546	c1	ug/l	1.0	10		95	70-130		30
tert-Butylbenzene	9.325	c1	ug/l	1.0	10		93	70-130		30
1,2,3-Trichloropropane	9.679	c1	ug/l	1.0	10		97	70-130		30
Benzene	9.437	c1	ug/l	0.70	10		94	70-130		30
Bromodichloromethane	9.773	c1	ug/l	0.50	10		98	70-130		30
1,1-Dichloroethane	9.643	c1	ug/l	1.0	10		96	70-130		30
1,3,5-Trimethylbenzene	9.461	c1	ug/l	1.0	10		95	70-130		30
Bromobenzene	9.356	c1	ug/l	1.0	10		94	70-130		30
Acrylonitrile	11.00	c1	ug/l	5.0	10		110	70-130		30
Acetone	8.738	c1	ug/l	5.0	10		87	70-130		30
4-Methyl-2-pentanone	10.20	c1	ug/l	5.0	10		102	70-130		30
1,4-Dichlorobenzene	9.050	c1	ug/l	1.0	10		90	70-130		30
1,3-Dichlorobenzene	9.112	c1	ug/l	1.0	10		91	70-130		30
2-Isopropyltoluene	10.26	c1	ug/l	1.0	10		103	70-130		30
2-Hexanone	9.439	c1	ug/l	5.0	10		94	70-130		30
2-Chlorotoluene	9.290	c1	ug/l	1.0	10		93	70-130		30
1,3-Dichloropropane	9.326	c1	ug/l	1.0	10		93	70-130		30
2,2-Dichloropropane	9.997	c1	ug/l	1.0	10		100	70-130		30
Bromochloromethane	9.779	c1	ug/l	1.0	10		98	70-130		30
4-Chlorotoluene	9.137	c1	ug/l	1.0	10		91	70-130		30
Surrogate: % Dibromofluoromethane	10.34	c1	ug/l		10		103	70-130		
Surrogate: % Toluene-d8	10.09	c1	ug/l		10		101	70-130		
Surrogate: % Bromofluorobenzene	10.39	c1	ug/l		10		104	70-130		
Surrogate: % 1,2-dichlorobenzene-d4	10.05	c1	ug/l		10		100	70-130		
LCSD (CB04222-LCSD)						Prepared: Analyzed: 05-Aug-18				
Dichlorodifluoromethane	10.06	c1	%	%	10		101	70-130	0.0	30
Methyl ethyl ketone	10.31	c1	%	%	10		103	70-130	1.0	30
m&p-Xylene	18.63	c1	%	%	20		93	70-130	2.1	30
Isopropylbenzene	9.130	c1	%	%	10		91	70-130	2.2	30
Hexachlorobutadiene	9.597	c1	%	%	10		96	70-130	0.0	30
Ethylbenzene	9.455	c1	%	%	10		95	70-130	0.0	30
Methyl t-butyl ether (MTBE)	11.24	c1	%	%	10		112	70-130	1.8	30
Dibromomethane	9.494	c1	%	%	10		95	70-130	1.1	30
Dibromochloromethane	9.985	c1	%	%	10		100	70-130	1.0	30
cis-1,3-Dichloropropene	9.628	c1	%	%	10		96	70-130	1.0	30
cis-1,2-Dichloroethene	9.584	c1	%	%	10		96	70-130	1.0	30
Chloromethane	10.15	c1	%	%	10		102	70-130	2.9	30
Chloroform	9.323	c1	%	%	10		93	70-130	1.1	30
Chloroethane	10.29	c1	%	%	10		103	70-130	1.9	30
Chlorobenzene	9.136	c1	%	%	10		91	70-130	0.0	30
Carbon Disulfide	10.67	c1	%	%	10		107	70-130	2.8	30
Carbon tetrachloride	9.375	c1	%	%	10		94	70-130	1.1	30
Tetrachloroethene	9.156	c1	%	%	10		92	70-130	1.1	30
1,2-Dichlorobenzene	9.024	c1	%	%	10		90	70-130	1.1	30
Trichlorotrifluoroethane	9.569	c1	%	%	10		96	70-130	0.0	30
Bromomethane	13.34	l, c1	%	%	10		133	70-130	7.8	30
Trichloroethene	9.576	c1	%	%	10		96	70-130	0.0	30
trans-1,4-dichloro-2-butene	58.50	c1	%	%	50		117	70-130	0.9	30

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8260C										
Batch 441913A -										
LCSD (CB04222-LCSD)	Prepared: Analyzed: 05-Aug-18									
trans-1,3-Dichloropropene	9.534	c1	%	%	10		95	70-130	1.0	30
trans-1,2-Dichloroethene	9.509	c1	%	%	10		95	70-130	2.1	30
Trichlorofluoromethane	9.299	c1	%	%	10		93	70-130	1.1	30
Tetrahydrofuran (THF)	26.02	c1	%	%	25		104	70-130	1.0	30
Methylene chloride	9.317	c1	%	%	10		93	70-130	2.1	30
tert-Butylbenzene	9.237	c1	%	%	10		92	70-130	1.1	30
Styrene	9.396	c1	%	%	10		94	70-130	1.1	30
sec-Butylbenzene	9.627	c1	%	%	10		96	70-130	2.1	30
p-Isopropyltoluene	9.382	c1	%	%	10		94	70-130	0.0	30
o-Xylene	9.362	c1	%	%	10		94	70-130	1.1	30
n-Propylbenzene	9.213	c1	%	%	10		92	70-130	3.2	30
n-Butylbenzene	9.422	c1	%	%	10		94	70-130	1.1	30
Naphthalene	10.99	c1	%	%	10		110	70-130	1.8	30
Toluene	9.394	c1	%	%	10		94	70-130	1.1	30
1,1-Dichloroethene	9.349	c1	%	%	10		93	70-130	2.1	30
1,2-Dibromoethane	9.427	c1	%	%	10		94	70-130	0.0	30
1,2-Dichloropropane	9.413	c1	%	%	10		94	70-130	0.0	30
1,2,4-Trimethylbenzene	9.258	c1	%	%	10		93	70-130	1.1	30
1,2,4-Trichlorobenzene	9.893	c1	%	%	10		99	70-130	1.0	30
1,2,3-Trichloropropane	9.502	c1	%	%	10		95	70-130	2.1	30
Bromoform	10.09	c1	%	%	10		101	70-130	1.0	30
1,1-Dichloropropene	9.400	c1	%	%	10		94	70-130	0.0	30
1,2-Dichloroethane	9.369	c1	%	%	10		94	70-130	1.1	30
1,1-Dichloroethane	9.564	c1	%	%	10		96	70-130	0.0	30
1,1,2-Trichloroethane	9.432	c1	%	%	10		94	70-130	2.1	30
1,1,2,2-Tetrachloroethane	9.876	c1	%	%	10		99	70-130	1.0	30
1,1,1-Trichloroethane	9.505	c1	%	%	10		95	70-130	1.0	30
1,1,1,2-Tetrachloroethane	9.568	c1	%	%	10		96	70-130	1.0	30
Vinyl chloride	10.24	c1	%	%	10		102	70-130	3.8	30
1,2,3-Trichlorobenzene	10.54	c1	%	%	10		105	70-130	0.9	30
4-Methyl-2-pentanone	10.31	c1	%	%	10		103	70-130	1.0	30
Bromodichloromethane	9.696	c1	%	%	10		97	70-130	1.0	30
Bromochloromethane	9.776	c1	%	%	10		98	70-130	0.0	30
Bromobenzene	9.153	c1	%	%	10		92	70-130	2.2	30
Benzene	9.336	c1	%	%	10		93	70-130	1.1	30
1,2-Dibromo-3-chloropropane	10.61	c1	%	%	10		106	70-130	1.9	30
Acetone	8.978	c1	%	%	10		90	70-130	3.4	30
1,3,5-Trimethylbenzene	9.334	c1	%	%	10		93	70-130	2.1	30
4-Chlorotoluene	9.134	c1	%	%	10		91	70-130	0.0	30
2-Isopropyltoluene	10.23	c1	%	%	10		102	70-130	1.0	30
2-Hexanone	9.585	c1	%	%	10		96	70-130	2.1	30
2-Chlorotoluene	9.091	c1	%	%	10		91	70-130	2.2	30
2,2-Dichloropropane	9.844	c1	%	%	10		98	70-130	2.0	30
1,4-Dichlorobenzene	8.999	c1	%	%	10		90	70-130	0.0	30
1,3-Dichloropropane	9.376	c1	%	%	10		94	70-130	1.1	30
1,3-Dichlorobenzene	9.077	c1	%	%	10		91	70-130	0.0	30
Acrylonitrile	10.82	c1	%	%	10		108	70-130	1.8	30
Surrogate: % Toluene-d8	10.11	c1	%		10		101	70-130		
Surrogate: % Dibromofluoromethane	10.29	c1	%		10		103	70-130		
Surrogate: % Bromofluorobenzene	10.11	c1	%		10		101	70-130		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8260C</u>										
Batch 441913A -										
<u>LCSD (CB04222-LCSD)</u>					Prepared: Analyzed: 05-Aug-18					
Surrogate: % 1,2-dichlorobenzene-d4	10.03	c1	%		10		100	70-130		

Notes and Definitions

c1	[Undefined]
c1	A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
c3	A blank MS/MSD was analyzed with this batch.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J.	Estimated Below RL
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
Q1	This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
Q2	Laboratory solvent, contamination is possible.
U	Analyte included in the analysis, but not detected at or above the MDL.
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.



CHAIN OF CUSTODY RECORD

Special Handling:

Standard TAT - 7 to 10 business days

Rush TAT - Date Needed: _____

All TATs subject to laboratory approval

Min. 24hr notification needed for rushes

Samples disposed after 30 days unless otherwise instructed

60276639-1

New Corp / 3-14-008

10

526

List Preservative Code below:

Containers

C=Composite

Ma

96

3

[illegible][illegible]

4

[illegible][illegible]

100

[illegible]

Rev Nov 2016

00024

00076

17686

fedex.com 1.800.GoFedEx 1.800.463.3339

06440036

FedEx
Express
Package
US Airbill
Tracking Number
8113 0089 4220

1 From

Date 7.30.18

Senders Name Steve Gray

Phone 518 951-2200

Company AECOM TECHNICAL SERVICES

Address 40 BRITISH AMERICAN BLVD

City LATHAM

State NY

ZIP 12110-1421

Drop/Post/Ship Room

2 Your Internal Billing Reference

60276639-1

3 To

Recipients Name Attn: Sample Receiving Phone 413 789-7018

Company Eurofins Spectrum Analytical

Address 11 Almaron Dr.

Drop/Post/Ship Room

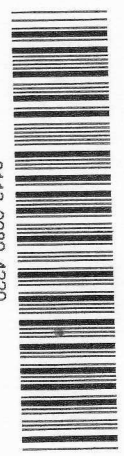
We cannot deliver to P.O. boxes or P.O. ZIP codes.

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

City Agawam

State MA

ZIP 01008



813 0089 4220

Form ID No. 021588

Recipients Copy

4 Express Package Service

* To most locations.

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

Next Business Day

☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Next business morning delivery is selected. Monday unless Saturday Delivery is selected.

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

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

2 or 3 Business Days

☐ FedEx 2Day AM.
Second business morning. Saturday Delivery NOT available.

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

☐ FedEx Express Saver
Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500

☐ FedEx Envelope*

☐ FedEx Pak*

☐ FedEx Box

☐ FedEx Tube

☒ Other

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

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

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

☐ Direct Signature
Signature required at delivery. May sign for delivery.

☐ Indirect Signature
Signature required at delivery. May sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

☒ No ☐ Yes
One box must be checked.

☐ Yes
Shipper's Declaration
Not required.

☐ Dry Ice
Dry ice 3, UN 1845

☐ Cargo Aircraft Only

Restrictions apply for dangerous goods - see the current FedEx Service Guide.

7 Payment Bill to:

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

☒ Sender
Acct. No. is on back

☐ Recipient

☐ Third Party

☐ Credit Card

☐ Cash/Check

Total Packages

Total Weight 30 lbs.

Credit Card Auth.



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Batch Summary

1810502

Total Metals by EPA 200/6000 Series Methods

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

1810569

Total Metals by EPA 6000/7000 Series Methods

1810569-BLK1

1810569-BS1

1810569-BSD1

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

1810570

Total Metals by EPA 200 Series Methods

1810570-BLK1

1810570-BS1

1810570-DUP1

1810570-MS1

1810570-MSD1

1810570-PS1

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

1810586

General Chemistry Parameters

1810586-BLK1

1810586-BS1

1810586-DUP1

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

1810643

General Chemistry Parameters

1810643-BLK1

1810643-BS1

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

1810662

Extractable Petroleum Hydrocarbons

1810662-BLK1

1810662-BS1

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

1810978

General Chemistry Parameters

1810978-BLK1

1810978-BLK2

1810978-BS1

1810978-BS2

1810978-CCB1

1810978-CCB2

1810978-CCB3

1810978-CCV1

1810978-CCV2

1810978-CCV3

1810978-DUP1

1810978-MS1

1810978-MSD1

1810978-SRM1

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

441913A

Subcontracted Analyses

CB04222-BLK

CB04222-LCS

CB04222-LCSD

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

SC49088-03 (TW-1 073018)

SC49088-04 (TW-2A 073018)

SC49088-05 (TW-3 073018)

SC49088-06 (TB 073018)

442076A

Subcontracted Analyses

CB02299-BLK

CB02299-LCS

CB02299-LCSD

CB02299-MS

CB02299-MSD

SC49088-02 (INF 073018)

SC49088-03 (TW-1 073018)

SC49088-04 (TW-2A 073018)

SC49088-05 (TW-3 073018)

442302A

Subcontracted Analyses

CB04232-BLK

CB04232-LCS

CB04232-LCSD

CB04232-MS

CB04232-MSD

SC49088-01 (EFF 60 073018)

SC49088-02 (INF 073018)

SC49088-03 (TW-1 073018)

SC49088-04 (TW-2A 073018)

SC49088-05 (TW-3 073018)

SC49088-06 (TB 073018)