TACONIC
Finding a better way

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VIA ELECTRONIC MAIL

January 17, 2017

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RE: Monthly Progress Report
Taconic Site (Site No. 442047)
Petersburgh, New York

Dear Sir/Madam;

Pursuant to Section XIII of Appendix A of the Order on Consent and Administrative Settlement for the Tonoga Inc. d/b/a Taconic facility in Petersburgh, New York, the Monthly Progress Report covering December 2016 is attached. Please feel free to contact Janet Forsell at 518.724.7258 or myself at 518.658.3202 x288 or at karent@4taconic.com if you have any questions.

Sincerely,

Karen Toth
Environmental Manager

attachment

cc: Jason Johnson, NYSDEC
James Moras, NYSDEC
Robert Schick, NYSDEC
Lori Mason, Esq., Taconic
Janet Forsell, OBG
Scott Grieco, OBG
Paul Hare, OBG

MONTHLY PROGRESS REPORT
TACONIC FACILITY (NYSDEC SITE NO. 442047)
PETERSBURGH, NEW YORK
DECEMBER 2016

Actions Taken to Comply with the Settlement Agreement During Previous Month:

- WEL-DUN, Inc. (WEL-DUN) sampled eight point-of-entry treatment (POET) systems from December 1 through 31, 2016 for the analysis of perfluorinated compounds (PFCs) by TestAmerica (TA), as part of the quarterly maintenance monitoring.

- POET systems have been installed for six additional homes in December 2016 included in the Taconic POET list provided in Exhibit C of the Settlement Agreement.

- Taconic sampled the POET systems on the three production wells on December 7, 2016 for the analysis of PFCs by TA as part of the quarterly maintenance monitoring.

- OBG performed surface water sampling at and near the Taconic facility on December 9, 2016 for laboratory analysis of PFCs, total organic carbon (TOC) and cations/anions. Field parameters were also measured at each location. In addition, one location was sampled for analysis of Target Compound List/Target Analyte List (TCL/TAL) constituents.

- Electrical for the Town of Petersburgh (Town) Public Water Granular Activated Carbon (GAC) System was completed on December 8, 2016.

- The installation of piping for the Town Public Water GAC System was completed on December 21, 2016.

- The Town Public Water GAC System start-up (pressure testing, disinfection, carbon loading and soaking, backwashing, and rinsing) was completed by December 30, 2016.

Plans, Reports, and Other Deliverables Required by the Settlement Agreement Completed and Submitted in the Previous Month:

- The Start-up Plan for the Town Public Water GAC System was provided to the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) for final acceptance on December 6, 2016.

- The Citizen Participation Plan (CPP) was submitted to NYSDEC and NYSDOH on December 9, 2016.

- The Remedial Investigation/Feasibility Study (RI/FS) Work Plan and associated documents (Field Sampling and Analysis Plan, Quality Assurance Project Plan, and Health and Safety Plan) were submitted to NYSDEC and NYSDOH on December 20, 2016 (within 30 days of the effective date of the Settlement Agreement).

- The Operation and Maintenance (O&M) Manual for the new Town Public Water GAC System was submitted to NYSDOH's Bureau of Water Supply Protection (BWSP) on December 20, 2016 (within 30 days of the effective date of the Settlement Agreement).

MONTHLY PROGRESS REPORT
TACONIC FACILITY (NYSDEC SITE NO. 442047)
PETERSBURGH, NEW YORK
DECEMBER 2016

Results of Sampling, Tests and Any Other Data Received or Generated by or on behalf of Respondent During the Previous Month:

- Analytical results were received from TA during the month for PFCs for the mid-carbon and post-carbon quarterly samples collected from four POET systems from December 1 through 31, 2016 and were submitted to NYSDEC under separate cover in December 2016.

- Analytical results were received from TA during the month and are attached for PFCs for the mid-carbon and post-carbon samples collected on December 7, 2016 from the POET systems on the three production wells.

- Analytical results were received from TA during the month and are attached for total organic carbon (TOC), cations and anions in the surface water samples collected from two streams (i.e., Unnamed Streams 1 and 2) and three ponds (i.e., Unnamed Ponds 1, 2 and 3) at and near the Taconic facility on December 9, 2016. Also attached are the analytical results for TCL/TAL constituents in the surface water sample and duplicate sampled collected from Unnamed Stream 1. Field parameters were also measured at each location, and are attached.

Activities Undertaken in Support of the Community Relations Plan During Previous Month:

- None in December 2016. However, the CPP was submitted to NYSDEC and NYSDOH on December 9, 2016 and comments were received from NYSDEC on December 22, 2016. Preparation of the revised CPP was initiated.

Actions, Plans and Data Scheduled for the Next Month:

- Taconic received comments from NYSDEC on the CPP on December 22, 2016. The revised CPP was submitted to NYSDEC and NYSDOH on January 13, 2017, in advance of the January 21, 2017 due date, as per 6 NYCRR Part 375-1.6(d)(3).

- Analytical results are scheduled to be received from TA for PFCs for the mid-carbon and post-carbon quarterly samples collected from remaining POET systems from December 1 through 31, 2016.

- Analytical results are scheduled to be received from TA for the pre- and post-carbon samples collected from POET systems installed in January 2017 and cleared by the Rensselaer County Department of Health (RCDOH).

- Analytical results are scheduled to be received from TA for PFCs for the surface water samples collected from two streams (i.e., Unnamed Streams 1 and 2) and three ponds (i.e., Unnamed Ponds 1, 2 and 3) at and near the Taconic facility on December 9, 2016.

- WEL-DUN will continue quarterly maintenance monitoring of the POET systems in January 2017.

- Installation of POET systems not yet completed at locations included in Exhibit C of the Settlement Agreement will continue in January 2017.

- Results of backwashing and rinsing conducted during the Town Public Water GAC System start-up are scheduled to be received in January. Assuming results are acceptable, upon NYSDEC/NYSDOH approval, distribution flushing will be conducted before the end of January 2017.

Activities in Support of the Community Relations Plan Anticipated for the Next Month:

- None in January 2017. However, the revised CPP was submitted to NYSDEC and NYSDOH on January 13, 2017, in advance of the January 21, 2017 due date, as per 6 NYCRR Part 375-1.6(d)(3).

Delays Encountered or Anticipated and Mitigation Measures:

- None in December 2016.

Proposed or Approved Modifications (Work Scope and/or Schedule):

- Per NYSDEC's requests received on December 5 and 6, 2016, TOC, cations, anions and field parameters were added to the scope of the surface water sampling conducted on December 9, 2016.

Percentage of Completion and Additional Information Relating to the Progress of Work:

By the end of December 2016, the approximate percentage of completion for current work activities is presented in the following table.

MONTHLY PROGRESS REPORT
TACONIC FACILITY (NYSDEC SITE NO. 442047)
PETERSBURGH, NEW YORK
DECEMBER 2016

Percentage of Completion Relating to the Progress of Work

Item	Percent Complete
Sample the Taconic production wells for analysis of PFCs and TCL/TAL constituents (accelerated RI field task approved by NYSDEC)	100% (Completed on 9/1/2016)
Sample surface water at/near the Taconic facility for analysis of PFCs and TCL/TAL constituents (accelerated RI field task approved by NYSDEC)	100% (Completed on 12/9/2016)
Prepare/submit CPP	100% (Original plan submitted on 12/9/2016
Prepare/submit revised CPP	100% (Submitted on 1/13/2016)
Prepare/submit RI/FS Work Plan and associated FSAP, QAPP and HASP	100% (Submitted on 12/20/2016)
Prepare/submit O&M Manual for the Town Public Water GAC System	100% (Submitted on 12/20/2016)
Town Public Water GAC System Installation	100% (Electrical and piping installation completed on 12/21/2016)
Town Public Water GAC System Start-up	100% (Completed on 12/30/2016)
First Quarter Maintenance Monitoring of the POET Systems	10% (Plan to complete by March 31 or until homeowners return back multiple messages)
POET Installations - Exhibit C of the Settlement Agreement	90% (Plan to complete as soon as homeowners return back multiple messages.)

Client: Tonoga Inc dba Taconic
Project/Site: Petersburgh, NY

TestAmerica Job ID: 320-24159-1

Client Sample ID: Well #1 Mid GAC
Date Collected: 12/07/16 07:40
Date Received: 12/08/16 10:00

Lab Sample ID: 320-24159-1
Matrix: Water

Method: PFAS - Perfluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.92	ng/L		12/12/16 09:34	12/13/16 05:15	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.87	ng/L		12/12/16 09:34	12/13/16 05:15	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		12/12/16 09:34	12/13/16 05:15	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.75	ng/L		12/12/16 09:34	12/13/16 05:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	1.3	ng/L		12/12/16 09:34	12/13/16 05:15	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.65	ng/L		12/12/16 09:34	12/13/16 05:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*92*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:15*	*1*
13C4-PFHpA	*104*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:15*	*1*
13C4 PFOA	*94*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:15*	*1*
13C4 PFOS	*95*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:15*	*1*
13C5 PFNA	*96*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:15*	*1*

Client: Tonoga Inc dba Taconic
Project/Site: Petersburgh, NY

TestAmerica Job ID: 320-24159-1

Client Sample ID: Well #1 Post GAC
Date Collected: 12/07/16 07:35
Date Received: 12/08/16 10:00

Lab Sample ID: 320-24159-2
Matrix: Water

Method: PFAS - Perfluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.92	ng/L		12/12/16 09:34	12/13/16 05:33	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.87	ng/L		12/12/16 09:34	12/13/16 05:33	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		12/12/16 09:34	12/13/16 05:33	1
Perfluorooctanoic acid (PFOA)	**3.8**		2.0	0.75	ng/L		12/12/16 09:34	12/13/16 05:33	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	1.3	ng/L		12/12/16 09:34	12/13/16 05:33	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.65	ng/L		12/12/16 09:34	12/13/16 05:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*96*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:33*	*1*
13C4-PFHpA	*107*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:33*	*1*
13C4 PFOA	*92*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:33*	*1*
13C4 PFOS	*91*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:33*	*1*
13C5 PFNA	*95*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:33*	*1*

Client: Tonoga Inc dba Taconic
Project/Site: Petersburgh, NY

TestAmerica Job ID: 320-24159-1

Client Sample ID: Well #2 Mid GAC
Date Collected: 12/07/16 08:05
Date Received: 12/08/16 10:00

Lab Sample ID: 320-24159-3
Matrix: Water

Method: PFAS - Perfluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.92	ng/L		12/12/16 09:34	12/13/16 05:52	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.87	ng/L		12/12/16 09:34	12/13/16 05:52	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		12/12/16 09:34	12/13/16 05:52	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.75	ng/L		12/12/16 09:34	12/13/16 05:52	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	1.3	ng/L		12/12/16 09:34	12/13/16 05:52	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.65	ng/L		12/12/16 09:34	12/13/16 05:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*101*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:52*	*1*
13C4-PFHpA	*114*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:52*	*1*
13C4 PFOA	*99*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:52*	*1*
13C4 PFOS	*96*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:52*	*1*
13C5 PFNA	*103*		*25 - 150*	*12/12/16 09:34*	*12/13/16 05:52*	*1*

Client: Tonoga Inc dba Taconic
Project/Site: Petersburgh, NY

TestAmerica Job ID: 320-24159-1

Client Sample ID: Well #2 Post GAC
Date Collected: 12/07/16 08:00
Date Received: 12/08/16 10:00

Lab Sample ID: 320-24159-4
Matrix: Water

Method: PFAS - Perfluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.92	ng/L		12/12/16 09:34	12/13/16 06:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.87	ng/L		12/12/16 09:34	12/13/16 06:10	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		12/12/16 09:34	12/13/16 06:10	1
Perfluorooctanoic acid (PFOA)	**4.8**		2.0	0.75	ng/L		12/12/16 09:34	12/13/16 06:10	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	1.3	ng/L		12/12/16 09:34	12/13/16 06:10	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.65	ng/L		12/12/16 09:34	12/13/16 06:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*96*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:10*	*1*
13C4-PFHpA	*107*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:10*	*1*
13C4 PFOA	*95*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:10*	*1*
13C4 PFOS	*94*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:10*	*1*
13C5 PFNA	*99*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:10*	*1*

Client: Tonoga Inc dba Taconic
Project/Site: Petersburgh, NY

TestAmerica Job ID: 320-24159-1

Client Sample ID: Well #3 Post GAC
Date Collected: 12/07/16 08:50
Date Received: 12/08/16 10:00

Lab Sample ID: 320-24159-5
Matrix: Water

Method: PFAS - Perfluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.92	ng/L		12/12/16 09:34	12/13/16 06:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.87	ng/L		12/12/16 09:34	12/13/16 06:47	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.80	ng/L		12/12/16 09:34	12/13/16 06:47	1
Perfluorooctanoic acid (PFOA)	**3.2**		2.0	0.75	ng/L		12/12/16 09:34	12/13/16 06:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	1.3	ng/L		12/12/16 09:34	12/13/16 06:47	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.65	ng/L		12/12/16 09:34	12/13/16 06:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*98*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:47*	*1*
13C4-PFHpA	*111*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:47*	*1*
13C4 PFOA	*99*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:47*	*1*
13C4 PFOS	*96*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:47*	*1*
13C5 PFNA	*99*		*25 - 150*	*12/12/16 09:34*	*12/13/16 06:47*	*1*

Client Sample ID: UP-1-120916

Lab Sample ID: 480-110958-1

Date Collected: 12/09/16 15:15

Matrix: Water

Date Received: 12/12/16 10:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.4		0.50	0.10	mg/L		12/14/16 08:55	12/14/16 20:47	1
Magnesium	1.2		0.20	0.043	mg/L		12/14/16 08:55	12/14/16 20:47	1
Potassium	0.86	B	0.50	0.10	mg/L		12/14/16 08:55	12/14/16 20:47	1
Sodium	1.4		1.0	0.32	mg/L		12/14/16 08:55	12/14/16 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		0.50	0.28	mg/L			12/14/16 22:21	1
Sulfate	4.3		2.0	0.35	mg/L			12/14/16 22:21	1
Alkalinity, Bicarbonate	6.4	J	10.0	4.0	mg/L			12/15/16 09:28	1
Alkalinity, Carbonate	10.0	U	10.0	4.0	mg/L			12/15/16 09:28	1
Total Organic Carbon - Duplicates	4.0	B	1.0	0.43	mg/L			12/14/16 20:32	1
TOC Result 2	4.0	B	1.0	0.43	mg/L			12/14/16 20:32	1
TOC Result 1	3.9		1.0	0.43	mg/L			12/14/16 20:32	1

Client Sample ID: UP-2-120916

Lab Sample ID: 480-110958-2

Date Collected: 12/09/16 14:40

Matrix: Water

Date Received: 12/12/16 10:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2.3		0.50	0.10	mg/L		12/15/16 11:25	12/16/16 15:48	1
Magnesium	0.46		0.20	0.043	mg/L		12/15/16 11:25	12/16/16 15:48	1
Potassium	0.25	J	0.50	0.10	mg/L		12/15/16 11:25	12/16/16 15:48	1
Sodium	1.3		1.0	0.32	mg/L		12/15/16 11:25	12/16/16 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.85		0.50	0.28	mg/L			12/14/16 22:38	1
Sulfate	3.5		2.0	0.35	mg/L			12/14/16 22:38	1
Alkalinity, Bicarbonate	8.0	J	10.0	4.0	mg/L			12/15/16 09:16	1
Alkalinity, Carbonate	10.0	U	10.0	4.0	mg/L			12/15/16 09:16	1
Total Organic Carbon - Duplicates	2.0	B	1.0	0.43	mg/L			12/14/16 20:47	1
TOC Result 2	2.1	B	1.0	0.43	mg/L			12/14/16 20:47	1
TOC Result 1	2.0		1.0	0.43	mg/L			12/14/16 20:47	1

Client Sample ID: UP-3-120916

Lab Sample ID: 480-110958-3

Date Collected: 12/09/16 16:35

Matrix: Water

Date Received: 12/12/16 10:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	12.2		0.50	0.10	mg/L		12/15/16 11:25	12/16/16 15:52	1
Magnesium	1.9		0.20	0.043	mg/L		12/15/16 11:25	12/16/16 15:52	1
Potassium	0.68		0.50	0.10	mg/L		12/15/16 11:25	12/16/16 15:52	1
Sodium	20.3		1.0	0.32	mg/L		12/15/16 11:25	12/16/16 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		0.50	0.28	mg/L			12/14/16 22:29	1

Client Sample ID: UP-3-120916

Lab Sample ID: 480-110958-3

Date Collected: 12/09/16 16:35

Matrix: Water

Date Received: 12/12/16 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**6.1**		2.0	0.35	mg/L			12/14/16 22:29	1
Alkalinity, Bicarbonate	**30.2**		10.0	4.0	mg/L			12/15/16 09:28	1
Alkalinity, Carbonate	10.0	U	10.0	4.0	mg/L			12/15/16 09:28	1
Total Organic Carbon - Duplicates	**1.4**	**B**	1.0	0.43	mg/L			12/14/16 21:32	1
TOC Result 2	**1.4**	**B**	1.0	0.43	mg/L			12/14/16 21:32	1
TOC Result 1	**1.4**		1.0	0.43	mg/L			12/14/16 21:32	1

Client Sample ID: US-1-120916

Lab Sample ID: 480-110958-4

Date Collected: 12/09/16 11:15

Matrix: Water

Date Received: 12/12/16 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/14/16 00:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/14/16 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/14/16 00:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/14/16 00:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/14/16 00:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/14/16 00:18	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/14/16 00:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/14/16 00:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/14/16 00:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/14/16 00:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/14/16 00:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/14/16 00:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/14/16 00:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/14/16 00:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/14/16 00:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/14/16 00:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/14/16 00:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/14/16 00:18	1
Acetone	10	U *	10	3.0	ug/L			12/14/16 00:18	1
Benzene	1.0	U	1.0	0.41	ug/L			12/14/16 00:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/14/16 00:18	1
Bromoform	1.0	U *	1.0	0.26	ug/L			12/14/16 00:18	1
Bromomethane	1.0	U F2	1.0	0.69	ug/L			12/14/16 00:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/14/16 00:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/14/16 00:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/14/16 00:18	1
Chlorobromomethane	1.0	U	1.0	0.87	ug/L			12/14/16 00:18	1
Chloroethane	1.0	U F1	1.0	0.32	ug/L			12/14/16 00:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/14/16 00:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/14/16 00:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/14/16 00:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/14/16 00:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/14/16 00:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/14/16 00:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/14/16 00:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/14/16 00:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/14/16 00:18	1

Client Sample ID: US-1-120916

Date Collected: 12/09/16 11:15
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	2.0	U	2.0	0.66	ug/L			12/14/16 00:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/14/16 00:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/14/16 00:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/14/16 00:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/14/16 00:18	1
o-Xylene	1.0	U	1.0	0.76	ug/L			12/14/16 00:18	1
Styrene	1.0	U	1.0	0.73	ug/L			12/14/16 00:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/14/16 00:18	1
Toluene	1.0	U	1.0	0.51	ug/L			12/14/16 00:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/14/16 00:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/14/16 00:18	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/14/16 00:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/14/16 00:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/14/16 00:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/14/16 00:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/14/16 00:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*12/14/16 00:18*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*12/14/16 00:18*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*12/14/16 00:18*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/14/16 00:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	4.8	U	4.8	0.55	ug/L		12/13/16 06:16	12/14/16 19:45	1
1,4-Dioxane	9.5	U	9.5	1.0	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,3,4,6-Tetrachlorophenol	4.8	U	4.8	0.31	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.46	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,4,6-Trichlorophenol	4.8	U	4.8	0.58	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,4-Dichlorophenol	4.8	U	4.8	0.49	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,4-Dimethylphenol	4.8	U	4.8	0.48	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,4-Dinitrophenol	9.5	U F2	9.5	2.1	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,4-Dinitrotoluene	4.8	U	4.8	0.43	ug/L		12/13/16 06:16	12/14/16 19:45	1
2,6-Dinitrotoluene	4.8	U	4.8	0.38	ug/L		12/13/16 06:16	12/14/16 19:45	1
2-Chloronaphthalene	4.8	U	4.8	0.44	ug/L		12/13/16 06:16	12/14/16 19:45	1
2-Chlorophenol	4.8	U	4.8	0.51	ug/L		12/13/16 06:16	12/14/16 19:45	1
2-Methylnaphthalene	4.8	U	4.8	0.57	ug/L		12/13/16 06:16	12/14/16 19:45	1
2-Methylphenol	4.8	U	4.8	0.38	ug/L		12/13/16 06:16	12/14/16 19:45	1
2-Nitroaniline	9.5	U	9.5	0.40	ug/L		12/13/16 06:16	12/14/16 19:45	1
2-Nitrophenol	4.8	U	4.8	0.46	ug/L		12/13/16 06:16	12/14/16 19:45	1
3,3'-Dichlorobenzidine	4.8	U	4.8	0.38	ug/L		12/13/16 06:16	12/14/16 19:45	1
3-Methylphenol	9.5	U	9.5	0.38	ug/L		12/13/16 06:16	12/14/16 19:45	1
3-Nitroaniline	9.5	U	9.5	0.46	ug/L		12/13/16 06:16	12/14/16 19:45	1
4,6-Dinitro-2-methylphenol	9.5	U F2	9.5	2.1	ug/L		12/13/16 06:16	12/14/16 19:45	1
4-Bromophenyl phenyl ether	4.8	U	4.8	0.43	ug/L		12/13/16 06:16	12/14/16 19:45	1
4-Chloro-3-methylphenol	4.8	U	4.8	0.43	ug/L		12/13/16 06:16	12/14/16 19:45	1
4-Chloroaniline	4.8	U	4.8	0.56	ug/L		12/13/16 06:16	12/14/16 19:45	1

Client Sample ID: US-1-120916

Date Collected: 12/09/16 11:15
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	4.8	U	4.8	0.33	ug/L		12/13/16 06:16	12/14/16 19:45	1
4-Methylphenol	9.5	U	9.5	0.34	ug/L		12/13/16 06:16	12/14/16 19:45	1
4-Nitroaniline	9.5	U	9.5	0.24	ug/L		12/13/16 06:16	12/14/16 19:45	1
4-Nitrophenol	9.5	U	9.5	1.4	ug/L		12/13/16 06:16	12/14/16 19:45	1
Acenaphthene	4.8	U	4.8	0.39	ug/L		12/13/16 06:16	12/14/16 19:45	1
Acenaphthylene	4.8	U	4.8	0.36	ug/L		12/13/16 06:16	12/14/16 19:45	1
Acetophenone	4.8	U	4.8	0.51	ug/L		12/13/16 06:16	12/14/16 19:45	1
Anthracene	4.8	U	4.8	0.27	ug/L		12/13/16 06:16	12/14/16 19:45	1
Atrazine	4.8	U	4.8	0.44	ug/L		12/13/16 06:16	12/14/16 19:45	1
Benzaldehyde	4.8	U	4.8	0.25	ug/L		12/13/16 06:16	12/14/16 19:45	1
Benzo[a]anthracene	4.8	U	4.8	0.34	ug/L		12/13/16 06:16	12/14/16 19:45	1
Benzo[a]pyrene	4.8	U	4.8	0.45	ug/L		12/13/16 06:16	12/14/16 19:45	1
Benzo[b]fluoranthene	4.8	U	4.8	0.32	ug/L		12/13/16 06:16	12/14/16 19:45	1
Benzo[g,h,i]perylene	4.8	U	4.8	0.33	ug/L		12/13/16 06:16	12/14/16 19:45	1
Benzo[k]fluoranthene	4.8	U	4.8	0.70	ug/L		12/13/16 06:16	12/14/16 19:45	1
1,1'-Biphenyl	4.8	U	4.8	0.62	ug/L		12/13/16 06:16	12/14/16 19:45	1
bis (2-chloroisopropyl) ether	4.8	U	4.8	0.50	ug/L		12/13/16 06:16	12/14/16 19:45	1
Bis(2-chloroethoxy)methane	4.8	U	4.8	0.33	ug/L		12/13/16 06:16	12/14/16 19:45	1
Bis(2-chloroethyl)ether	4.8	U	4.8	0.38	ug/L		12/13/16 06:16	12/14/16 19:45	1
Bis(2-ethylhexyl) phthalate	4.8	U	4.8	2.1	ug/L		12/13/16 06:16	12/14/16 19:45	1
Butyl benzyl phthalate	4.8	U	4.8	0.95	ug/L		12/13/16 06:16	12/14/16 19:45	1
Caprolactam	4.8	U	4.8	2.1	ug/L		12/13/16 06:16	12/14/16 19:45	1
Carbazole	4.8	U	4.8	0.29	ug/L		12/13/16 06:16	12/14/16 19:45	1
Chrysene	4.8	U	4.8	0.31	ug/L		12/13/16 06:16	12/14/16 19:45	1
Dibenz(a,h)anthracene	4.8	U	4.8	0.40	ug/L		12/13/16 06:16	12/14/16 19:45	1
Dibenzofuran	9.5	U	9.5	0.49	ug/L		12/13/16 06:16	12/14/16 19:45	1
Diethyl phthalate	4.8	U	4.8	0.21	ug/L		12/13/16 06:16	12/14/16 19:45	1
Dimethyl phthalate	4.8	U	4.8	0.34	ug/L		12/13/16 06:16	12/14/16 19:45	1
Di-n-butyl phthalate	**1.3**	**J**	4.8	0.30	ug/L		12/13/16 06:16	12/14/16 19:45	1
Di-n-octyl phthalate	4.8	U	4.8	0.45	ug/L		12/13/16 06:16	12/14/16 19:45	1
Fluoranthene	4.8	U	4.8	0.38	ug/L		12/13/16 06:16	12/14/16 19:45	1
Fluorene	4.8	U	4.8	0.34	ug/L		12/13/16 06:16	12/14/16 19:45	1
Hexachlorobenzene	4.8	U	4.8	0.49	ug/L		12/13/16 06:16	12/14/16 19:45	1
Hexachlorobutadiene	4.8	U	4.8	0.65	ug/L		12/13/16 06:16	12/14/16 19:45	1
Hexachlorocyclopentadiene	4.8	U	4.8	0.56	ug/L		12/13/16 06:16	12/14/16 19:45	1
Hexachloroethane	4.8	U	4.8	0.56	ug/L		12/13/16 06:16	12/14/16 19:45	1
Indeno[1,2,3-cd]pyrene	4.8	U	4.8	0.45	ug/L		12/13/16 06:16	12/14/16 19:45	1
Isophorone	4.8	U	4.8	0.41	ug/L		12/13/16 06:16	12/14/16 19:45	1
Naphthalene	4.8	U	4.8	0.72	ug/L		12/13/16 06:16	12/14/16 19:45	1
Nitrobenzene	4.8	U	4.8	0.28	ug/L		12/13/16 06:16	12/14/16 19:45	1
N-Nitrosodi-n-propylamine	4.8	U	4.8	0.51	ug/L		12/13/16 06:16	12/14/16 19:45	1
N-Nitrosodiphenylamine	4.8	U	4.8	0.49	ug/L		12/13/16 06:16	12/14/16 19:45	1
Pentachlorophenol	9.5	U	9.5	2.1	ug/L		12/13/16 06:16	12/14/16 19:45	1
Phenanthrene	4.8	U	4.8	0.42	ug/L		12/13/16 06:16	12/14/16 19:45	1
Phenol	4.8	U	4.8	0.37	ug/L		12/13/16 06:16	12/14/16 19:45	1
Pyrene	4.8	U	4.8	0.32	ug/L		12/13/16 06:16	12/14/16 19:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*46*	*T J*	*ug/L*		*5.09*		*12/13/16 06:16*	*12/14/16 19:45*	*1*

Client Sample ID: US-1-120916

Date Collected: 12/09/16 11:15
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		52 - 132	12/13/16 06:16	12/14/16 19:45	1
2-Fluorobiphenyl	84		48 - 120	12/13/16 06:16	12/14/16 19:45	1
2-Fluorophenol (Surr)	66		20 - 120	12/13/16 06:16	12/14/16 19:45	1
Nitrobenzene-d5 (Surr)	74		46 - 120	12/13/16 06:16	12/14/16 19:45	1
Phenol-d5 (Surr)	50		16 - 120	12/13/16 06:16	12/14/16 19:45	1
p-Terphenyl-d14 (Surr)	88		67 - 150	12/13/16 06:16	12/14/16 19:45	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.047	U * F1	0.047	0.0087	ug/L		12/13/16 19:34	12/15/16 18:17	1
4,4'-DDE	0.047	U	0.047	0.011	ug/L		12/13/16 19:34	12/15/16 18:17	1
4,4'-DDT	0.047	U	0.047	0.010	ug/L		12/13/16 19:34	12/15/16 18:17	1
Aldrin	0.047	U	0.047	0.0076	ug/L		12/13/16 19:34	12/15/16 18:17	1
alpha-BHC	0.047	U	0.047	0.0073	ug/L		12/13/16 19:34	12/15/16 18:17	1
alpha-Chlordane	0.047	U	0.047	0.014	ug/L		12/13/16 19:34	12/15/16 18:17	1
beta-BHC	0.047	U	0.047	0.023	ug/L		12/13/16 19:34	12/15/16 18:17	1
delta-BHC	0.047	U	0.047	0.0094	ug/L		12/13/16 19:34	12/15/16 18:17	1
Dieldrin	0.047	U * F1	0.047	0.0092	ug/L		12/13/16 19:34	12/15/16 18:17	1
Endosulfan I	0.047	U	0.047	0.010	ug/L		12/13/16 19:34	12/15/16 18:17	1
Endosulfan II	0.047	U	0.047	0.011	ug/L		12/13/16 19:34	12/15/16 18:17	1
Endosulfan sulfate	0.047	U * F1	0.047	0.015	ug/L		12/13/16 19:34	12/15/16 18:17	1
Endrin	0.047	U	0.047	0.013	ug/L		12/13/16 19:34	12/15/16 18:17	1
Endrin aldehyde	0.047	U	0.047	0.015	ug/L		12/13/16 19:34	12/15/16 18:17	1
Endrin ketone	0.047	U * F1	0.047	0.011	ug/L		12/13/16 19:34	12/15/16 18:17	1
gamma-BHC (Lindane)	0.047	U	0.047	0.0075	ug/L		12/13/16 19:34	12/15/16 18:17	1
gamma-Chlordane	0.047	U	0.047	0.010	ug/L		12/13/16 19:34	12/15/16 18:17	1
Heptachlor	0.047	U	0.047	0.0080	ug/L		12/13/16 19:34	12/15/16 18:17	1
Heptachlor epoxide	0.047	U * F1	0.047	0.0070	ug/L		12/13/16 19:34	12/15/16 18:17	1
Methoxychlor	0.047	U	0.047	0.013	ug/L		12/13/16 19:34	12/15/16 18:17	1
Toxaphene	0.47	U	0.47	0.11	ug/L		12/13/16 19:34	12/15/16 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		20 - 120	12/13/16 19:34	12/15/16 18:17	1
DCB Decachlorobiphenyl	70		20 - 120	12/13/16 19:34	12/15/16 18:17	1
Tetrachloro-m-xylene	111		44 - 120	12/13/16 19:34	12/15/16 18:17	1
Tetrachloro-m-xylene	88		44 - 120	12/13/16 19:34	12/15/16 18:17	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.47	U	0.47	0.17	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1221	0.47	U	0.47	0.17	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1232	0.47	U	0.47	0.17	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1242	**0.25**	**J**	0.47	0.17	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1248	0.47	U	0.47	0.17	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1254	0.47	U	0.47	0.24	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1260	0.47	U	0.47	0.24	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1262	0.47	U	0.47	0.24	ug/L		12/13/16 06:40	12/14/16 08:39	1
PCB-1268	0.47	U	0.47	0.24	ug/L		12/13/16 06:40	12/14/16 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		39 - 121	12/13/16 06:40	12/14/16 08:39	1

Client Sample ID: US-1-120916

Date Collected: 12/09/16 11:15
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-4

Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*39 - 121*	*12/13/16 06:40*	*12/14/16 08:39*	*1*
DCB Decachlorobiphenyl	*92*		*19 - 120*	*12/13/16 06:40*	*12/14/16 08:39*	*1*
DCB Decachlorobiphenyl	*77*		*19 - 120*	*12/13/16 06:40*	*12/14/16 08:39*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.083**	**J**	0.20	0.060	mg/L		12/15/16 11:25	12/16/16 15:55	1
Iron	0.050	U	0.050	0.019	mg/L		12/15/16 11:25	12/16/16 15:55	1
Sodium	**3.6**		1.0	0.32	mg/L		12/15/16 11:25	12/16/16 15:55	1
Zinc	0.010	U	0.010	0.0015	mg/L		12/15/16 11:25	12/16/16 15:55	1
Calcium	**2.8**		0.50	0.10	mg/L		12/15/16 11:25	12/16/16 15:55	1
Magnesium	**0.45**		0.20	0.043	mg/L		12/15/16 11:25	12/16/16 15:55	1
Nickel	0.010	U	0.010	0.0013	mg/L		12/15/16 11:25	12/16/16 15:55	1
Potassium	**0.28**	**J**	0.50	0.10	mg/L		12/15/16 11:25	12/16/16 15:55	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		12/15/16 11:25	12/16/16 15:55	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U F2	0.0010	0.00035	mg/L		12/14/16 09:30	12/16/16 06:10	1
Arsenic	0.0010	U F2	0.0010	0.00027	mg/L		12/14/16 09:30	12/16/16 06:10	1
Barium	**0.0093**	**F2**	0.0010	0.00015	mg/L		12/14/16 09:30	12/16/16 06:10	1
Beryllium	0.00070	U F2	0.00070	0.000030	mg/L		12/14/16 09:30	12/16/16 06:10	1
Cadmium	0.00050	U F2	0.00050	0.000071	mg/L		12/14/16 09:30	12/16/16 06:10	1
Chromium	**0.0015**	**B F2**	0.0015	0.00036	mg/L		12/14/16 09:30	12/16/16 15:28	1
Copper	**0.00027**	**J F2**	0.0010	0.00022	mg/L		12/14/16 09:30	12/16/16 06:10	1
Lead	**0.00023**	**J F2**	0.0010	0.00017	mg/L		12/14/16 09:30	12/16/16 06:10	1
Manganese	**0.00068**	**J F2**	0.0010	0.00055	mg/L		12/14/16 09:30	12/16/16 15:28	1
Selenium	0.0010	U F2	0.0010	0.00044	mg/L		12/14/16 09:30	12/16/16 06:10	1
Silver	0.00050	U F2	0.00050	0.000036	mg/L		12/14/16 09:30	12/16/16 06:10	1
Thallium	**0.000034**	**J F2**	0.00020	0.000019	mg/L		12/14/16 09:30	12/16/16 06:10	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		12/15/16 08:20	12/15/16 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.0**		0.50	0.28	mg/L			12/14/16 23:26	1
Sulfate	**4.2**		2.0	0.35	mg/L			12/14/16 23:26	1
Alkalinity, Bicarbonate	**6.0**	**J**	10.0	4.0	mg/L			12/15/16 09:28	1
Alkalinity, Carbonate	10.0	U	10.0	4.0	mg/L			12/15/16 09:28	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		12/13/16 12:11	12/14/16 12:41	1
Total Organic Carbon - Duplicates	**2.3**	**B**	1.0	0.43	mg/L			12/14/16 21:48	1
TOC Result 1	**2.3**		1.0	0.43	mg/L			12/14/16 21:48	1
TOC Result 2	**2.3**	**B**	1.0	0.43	mg/L			12/14/16 21:48	1

Client Sample ID: US-2-120916

Lab Sample ID: 480-110958-5

Date Collected: 12/09/16 10:05

Matrix: Water

Date Received: 12/12/16 10:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3.7		0.50	0.10	mg/L		12/15/16 11:25	12/16/16 16:16	1
Magnesium	0.57		0.20	0.043	mg/L		12/15/16 11:25	12/16/16 16:16	1
Potassium	0.33	J	0.50	0.10	mg/L		12/15/16 11:25	12/16/16 16:16	1
Sodium	9.3		1.0	0.32	mg/L		12/15/16 11:25	12/16/16 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		0.50	0.28	mg/L			12/14/16 23:34	1
Sulfate	3.6		2.0	0.35	mg/L			12/14/16 23:34	1
Alkalinity, Bicarbonate	7.9	J	10.0	4.0	mg/L			12/15/16 09:28	1
Alkalinity, Carbonate	10.0	U	10.0	4.0	mg/L			12/15/16 09:28	1
Total Organic Carbon - Duplicates	2.8	B	1.0	0.43	mg/L			12/14/16 22:03	1
TOC Result 2	2.9	B	1.0	0.43	mg/L			12/14/16 22:03	1
TOC Result 1	2.8		1.0	0.43	mg/L			12/14/16 22:03	1

Client Sample ID: X-1-120916 (blind dup of US-1)

Lab Sample ID: 480-110958-6

Date Collected: 12/09/16 00:00

Matrix: Water

Date Received: 12/12/16 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/14/16 00:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/14/16 00:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/14/16 00:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/14/16 00:46	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/14/16 00:46	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/14/16 00:46	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/14/16 00:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/14/16 00:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/14/16 00:46	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/14/16 00:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/14/16 00:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/14/16 00:46	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/14/16 00:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/14/16 00:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/14/16 00:46	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/14/16 00:46	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/14/16 00:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/14/16 00:46	1
Acetone	10	U *	10	3.0	ug/L			12/14/16 00:46	1
Benzene	1.0	U	1.0	0.41	ug/L			12/14/16 00:46	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/14/16 00:46	1
Bromoform	1.0	U *	1.0	0.26	ug/L			12/14/16 00:46	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/14/16 00:46	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/14/16 00:46	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/14/16 00:46	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/14/16 00:46	1
Chlorobromomethane	1.0	U	1.0	0.87	ug/L			12/14/16 00:46	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/14/16 00:46	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/14/16 00:46	1

Client Sample ID: X-1-120916 (blind dup of US-1)
Date Collected: 12/09/16 00:00
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.35	ug/L			12/14/16 00:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/14/16 00:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/14/16 00:46	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/14/16 00:46	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/14/16 00:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/14/16 00:46	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/14/16 00:46	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/14/16 00:46	1
m,p-Xylene	2.0	U	2.0	0.66	ug/L			12/14/16 00:46	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/14/16 00:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/14/16 00:46	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/14/16 00:46	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/14/16 00:46	1
o-Xylene	1.0	U	1.0	0.76	ug/L			12/14/16 00:46	1
Styrene	1.0	U	1.0	0.73	ug/L			12/14/16 00:46	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/14/16 00:46	1
Toluene	1.0	U	1.0	0.51	ug/L			12/14/16 00:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/14/16 00:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/14/16 00:46	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/14/16 00:46	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/14/16 00:46	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/14/16 00:46	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/14/16 00:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/14/16 00:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*12/14/16 00:46*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/14/16 00:46*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*12/14/16 00:46*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*12/14/16 00:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	4.7	U	4.7	0.54	ug/L		12/13/16 06:16	12/15/16 20:17	1
1,4-Dioxane	9.3	U	9.3	1.0	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,3,4,6-Tetrachlorophenol	4.7	U	4.7	0.30	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,4,5-Trichlorophenol	4.7	U	4.7	0.45	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,4,6-Trichlorophenol	4.7	U	4.7	0.57	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,4-Dichlorophenol	4.7	U	4.7	0.48	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,4-Dimethylphenol	4.7	U	4.7	0.47	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,4-Dinitrophenol	9.3	U	9.3	2.1	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,4-Dinitrotoluene	4.7	U	4.7	0.42	ug/L		12/13/16 06:16	12/15/16 20:17	1
2,6-Dinitrotoluene	4.7	U	4.7	0.37	ug/L		12/13/16 06:16	12/15/16 20:17	1
2-Chloronaphthalene	4.7	U	4.7	0.43	ug/L		12/13/16 06:16	12/15/16 20:17	1
2-Chlorophenol	4.7	U	4.7	0.49	ug/L		12/13/16 06:16	12/15/16 20:17	1
2-Methylnaphthalene	4.7	U	4.7	0.56	ug/L		12/13/16 06:16	12/15/16 20:17	1
2-Methylphenol	4.7	U	4.7	0.37	ug/L		12/13/16 06:16	12/15/16 20:17	1
2-Nitroaniline	9.3	U	9.3	0.39	ug/L		12/13/16 06:16	12/15/16 20:17	1

Client Sample ID: X-1-120916 (blind dup of US-1)
Date Collected: 12/09/16 00:00
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	4.7	U	4.7	0.45	ug/L		12/13/16 06:16	12/15/16 20:17	1
3,3'-Dichlorobenzidine	4.7	U	4.7	0.37	ug/L		12/13/16 06:16	12/15/16 20:17	1
3-Methylphenol	9.3	U	9.3	0.37	ug/L		12/13/16 06:16	12/15/16 20:17	1
3-Nitroaniline	9.3	U	9.3	0.45	ug/L		12/13/16 06:16	12/15/16 20:17	1
4,6-Dinitro-2-methylphenol	9.3	U	9.3	2.0	ug/L		12/13/16 06:16	12/15/16 20:17	1
4-Bromophenyl phenyl ether	4.7	U	4.7	0.42	ug/L		12/13/16 06:16	12/15/16 20:17	1
4-Chloro-3-methylphenol	4.7	U	4.7	0.42	ug/L		12/13/16 06:16	12/15/16 20:17	1
4-Chloroaniline	4.7	U	4.7	0.55	ug/L		12/13/16 06:16	12/15/16 20:17	1
4-Chlorophenyl phenyl ether	4.7	U	4.7	0.33	ug/L		12/13/16 06:16	12/15/16 20:17	1
4-Methylphenol	9.3	U	9.3	0.34	ug/L		12/13/16 06:16	12/15/16 20:17	1
4-Nitroaniline	9.3	U	9.3	0.23	ug/L		12/13/16 06:16	12/15/16 20:17	1
4-Nitrophenol	9.3	U	9.3	1.4	ug/L		12/13/16 06:16	12/15/16 20:17	1
Acenaphthene	4.7	U	4.7	0.38	ug/L		12/13/16 06:16	12/15/16 20:17	1
Acenaphthylene	4.7	U	4.7	0.35	ug/L		12/13/16 06:16	12/15/16 20:17	1
Acetophenone	4.7	U	4.7	0.50	ug/L		12/13/16 06:16	12/15/16 20:17	1
Anthracene	4.7	U	4.7	0.26	ug/L		12/13/16 06:16	12/15/16 20:17	1
Atrazine	4.7	U	4.7	0.43	ug/L		12/13/16 06:16	12/15/16 20:17	1
Benzaldehyde	4.7	U	4.7	0.25	ug/L		12/13/16 06:16	12/15/16 20:17	1
Benzo[a]anthracene	4.7	U	4.7	0.34	ug/L		12/13/16 06:16	12/15/16 20:17	1
Benzo[a]pyrene	4.7	U	4.7	0.44	ug/L		12/13/16 06:16	12/15/16 20:17	1
Benzo[b]fluoranthene	4.7	U	4.7	0.32	ug/L		12/13/16 06:16	12/15/16 20:17	1
Benzo[g,h,i]perylene	4.7	U	4.7	0.33	ug/L		12/13/16 06:16	12/15/16 20:17	1
Benzo[k]fluoranthene	4.7	U	4.7	0.68	ug/L		12/13/16 06:16	12/15/16 20:17	1
1,1'-Biphenyl	4.7	U	4.7	0.61	ug/L		12/13/16 06:16	12/15/16 20:17	1
bis (2-chloroisopropyl) ether	4.7	U	4.7	0.48	ug/L		12/13/16 06:16	12/15/16 20:17	1
Bis(2-chloroethoxy)methane	4.7	U	4.7	0.33	ug/L		12/13/16 06:16	12/15/16 20:17	1
Bis(2-chloroethyl)ether	4.7	U	4.7	0.37	ug/L		12/13/16 06:16	12/15/16 20:17	1
Bis(2-ethylhexyl) phthalate	4.7	U	4.7	2.0	ug/L		12/13/16 06:16	12/15/16 20:17	1
Butyl benzyl phthalate	4.7	U	4.7	0.93	ug/L		12/13/16 06:16	12/15/16 20:17	1
Caprolactam	4.7	U	4.7	2.0	ug/L		12/13/16 06:16	12/15/16 20:17	1
Carbazole	4.7	U	4.7	0.28	ug/L		12/13/16 06:16	12/15/16 20:17	1
Chrysene	4.7	U	4.7	0.31	ug/L		12/13/16 06:16	12/15/16 20:17	1
Dibenz(a,h)anthracene	4.7	U	4.7	0.39	ug/L		12/13/16 06:16	12/15/16 20:17	1
Dibenzofuran	9.3	U	9.3	0.48	ug/L		12/13/16 06:16	12/15/16 20:17	1
Diethyl phthalate	4.7	U	4.7	0.20	ug/L		12/13/16 06:16	12/15/16 20:17	1
Dimethyl phthalate	4.7	U	4.7	0.34	ug/L		12/13/16 06:16	12/15/16 20:17	1
Di-n-butyl phthalate	4.7	U	4.7	0.29	ug/L		12/13/16 06:16	12/15/16 20:17	1
Di-n-octyl phthalate	4.7	U	4.7	0.44	ug/L		12/13/16 06:16	12/15/16 20:17	1
Fluoranthene	4.7	U	4.7	0.37	ug/L		12/13/16 06:16	12/15/16 20:17	1
Fluorene	4.7	U	4.7	0.34	ug/L		12/13/16 06:16	12/15/16 20:17	1
Hexachlorobenzene	4.7	U	4.7	0.48	ug/L		12/13/16 06:16	12/15/16 20:17	1
Hexachlorobutadiene	4.7	U	4.7	0.63	ug/L		12/13/16 06:16	12/15/16 20:17	1
Hexachlorocyclopentadiene	4.7	U	4.7	0.55	ug/L		12/13/16 06:16	12/15/16 20:17	1
Hexachloroethane	4.7	U	4.7	0.55	ug/L		12/13/16 06:16	12/15/16 20:17	1
Indeno[1,2,3-cd]pyrene	4.7	U	4.7	0.44	ug/L		12/13/16 06:16	12/15/16 20:17	1
Isophorone	4.7	U	4.7	0.40	ug/L		12/13/16 06:16	12/15/16 20:17	1
Naphthalene	4.7	U	4.7	0.71	ug/L		12/13/16 06:16	12/15/16 20:17	1
Nitrobenzene	4.7	U	4.7	0.27	ug/L		12/13/16 06:16	12/15/16 20:17	1
N-Nitrosodi-n-propylamine	4.7	U	4.7	0.50	ug/L		12/13/16 06:16	12/15/16 20:17	1

Client Sample ID: X-1-120916 (blind dup of US-1)
Date Collected: 12/09/16 00:00
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	4.7	U	4.7	0.48	ug/L		12/13/16 06:16	12/15/16 20:17	1
Pentachlorophenol	9.3	U	9.3	2.0	ug/L		12/13/16 06:16	12/15/16 20:17	1
Phenanthrene	4.7	U	4.7	0.41	ug/L		12/13/16 06:16	12/15/16 20:17	1
Phenol	4.7	U	4.7	0.36	ug/L		12/13/16 06:16	12/15/16 20:17	1
Pyrene	4.7	U	4.7	0.32	ug/L		12/13/16 06:16	12/15/16 20:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*45*	*T J*	*ug/L*		*5.09*		*12/13/16 06:16*	*12/15/16 20:17*	*1*
Unknown	*2.0*	*T J*	*ug/L*		*10.42*		*12/13/16 06:16*	*12/15/16 20:17*	*1*
Unknown	*1.8*	*T J*	*ug/L*		*11.45*		*12/13/16 06:16*	*12/15/16 20:17*	*1*
Unknown	*2.0*	*T J*	*ug/L*		*12.43*		*12/13/16 06:16*	*12/15/16 20:17*	*1*
Unknown	*4.5*	*T J*	*ug/L*		*14.47*		*12/13/16 06:16*	*12/15/16 20:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*52 - 132*	*12/13/16 06:16*	*12/15/16 20:17*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*12/13/16 06:16*	*12/15/16 20:17*	*1*
2-Fluorophenol (Surr)	*63*		*20 - 120*	*12/13/16 06:16*	*12/15/16 20:17*	*1*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*	*12/13/16 06:16*	*12/15/16 20:17*	*1*
Phenol-d5 (Surr)	*48*		*16 - 120*	*12/13/16 06:16*	*12/15/16 20:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*67 - 150*	*12/13/16 06:16*	*12/15/16 20:17*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.047	U *	0.047	0.0087	ug/L		12/13/16 19:34	12/15/16 20:14	1
4,4'-DDE	0.047	U	0.047	0.011	ug/L		12/13/16 19:34	12/15/16 20:14	1
4,4'-DDT	0.047	U	0.047	0.010	ug/L		12/13/16 19:34	12/15/16 20:14	1
Aldrin	0.047	U	0.047	0.0077	ug/L		12/13/16 19:34	12/15/16 20:14	1
alpha-BHC	0.047	U	0.047	0.0073	ug/L		12/13/16 19:34	12/15/16 20:14	1
alpha-Chlordane	0.047	U	0.047	0.014	ug/L		12/13/16 19:34	12/15/16 20:14	1
beta-BHC	0.047	U	0.047	0.023	ug/L		12/13/16 19:34	12/15/16 20:14	1
delta-BHC	**0.0098**	**J**	0.047	0.0095	ug/L		12/13/16 19:34	12/15/16 20:14	1
Dieldrin	0.047	U *	0.047	0.0093	ug/L		12/13/16 19:34	12/15/16 20:14	1
Endosulfan I	0.047	U	0.047	0.010	ug/L		12/13/16 19:34	12/15/16 20:14	1
Endosulfan II	0.047	U	0.047	0.011	ug/L		12/13/16 19:34	12/15/16 20:14	1
Endosulfan sulfate	0.047	U *	0.047	0.015	ug/L		12/13/16 19:34	12/15/16 20:14	1
Endrin	0.047	U	0.047	0.013	ug/L		12/13/16 19:34	12/15/16 20:14	1
Endrin aldehyde	0.047	U	0.047	0.015	ug/L		12/13/16 19:34	12/15/16 20:14	1
Endrin ketone	0.047	U *	0.047	0.011	ug/L		12/13/16 19:34	12/15/16 20:14	1
gamma-BHC (Lindane)	0.047	U	0.047	0.0076	ug/L		12/13/16 19:34	12/15/16 20:14	1
gamma-Chlordane	0.047	U	0.047	0.010	ug/L		12/13/16 19:34	12/15/16 20:14	1
Heptachlor	0.047	U	0.047	0.0080	ug/L		12/13/16 19:34	12/15/16 20:14	1
Heptachlor epoxide	0.047	U *	0.047	0.0070	ug/L		12/13/16 19:34	12/15/16 20:14	1
Methoxychlor	0.047	U	0.047	0.013	ug/L		12/13/16 19:34	12/15/16 20:14	1
Toxaphene	0.47	U	0.47	0.11	ug/L		12/13/16 19:34	12/15/16 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*20 - 120*	*12/13/16 19:34*	*12/15/16 20:14*	*1*
DCB Decachlorobiphenyl	*66*		*20 - 120*	*12/13/16 19:34*	*12/15/16 20:14*	*1*
Tetrachloro-m-xylene	*103*		*44 - 120*	*12/13/16 19:34*	*12/15/16 20:14*	*1*
Tetrachloro-m-xylene	*86*		*44 - 120*	*12/13/16 19:34*	*12/15/16 20:14*	*1*

Client Sample ID: X-1-120916 (blind dup of US-1)
Date Collected: 12/09/16 00:00
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-6
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.47	U	0.47	0.16	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1221	0.47	U	0.47	0.16	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1232	0.47	U	0.47	0.16	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1242	0.47	U	0.47	0.16	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1248	0.47	U	0.47	0.16	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1254	0.47	U	0.47	0.23	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1260	0.47	U	0.47	0.23	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1262	0.47	U	0.47	0.23	ug/L		12/13/16 06:40	12/14/16 08:55	1
PCB-1268	0.47	U	0.47	0.23	ug/L		12/13/16 06:40	12/14/16 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*39 - 121*	*12/13/16 06:40*	*12/14/16 08:55*	*1*
Tetrachloro-m-xylene	*89*		*39 - 121*	*12/13/16 06:40*	*12/14/16 08:55*	*1*
DCB Decachlorobiphenyl	*76*		*19 - 120*	*12/13/16 06:40*	*12/14/16 08:55*	*1*
DCB Decachlorobiphenyl	*64*		*19 - 120*	*12/13/16 06:40*	*12/14/16 08:55*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.075**	**J**	0.20	0.060	mg/L		12/15/16 11:25	12/16/16 16:20	1
Iron	0.050	U	0.050	0.019	mg/L		12/15/16 11:25	12/16/16 16:20	1
Sodium	**3.5**		1.0	0.32	mg/L		12/15/16 11:25	12/16/16 16:20	1
Zinc	0.010	U	0.010	0.0015	mg/L		12/15/16 11:25	12/16/16 16:20	1
Calcium	**2.8**		0.50	0.10	mg/L		12/15/16 11:25	12/16/16 16:20	1
Magnesium	**0.45**		0.20	0.043	mg/L		12/15/16 11:25	12/16/16 16:20	1
Nickel	0.010	U	0.010	0.0013	mg/L		12/15/16 11:25	12/16/16 16:20	1
Potassium	**0.27**	**J**	0.50	0.10	mg/L		12/15/16 11:25	12/16/16 16:20	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		12/15/16 11:25	12/16/16 16:20	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0010	0.00035	mg/L		12/14/16 09:30	12/16/16 06:38	1
Arsenic	0.0010	U	0.0010	0.00027	mg/L		12/14/16 09:30	12/16/16 06:38	1
Barium	**0.0094**		0.0010	0.00015	mg/L		12/14/16 09:30	12/16/16 06:38	1
Beryllium	0.00070	U	0.00070	0.000030	mg/L		12/14/16 09:30	12/16/16 06:38	1
Cadmium	0.00050	U	0.00050	0.000071	mg/L		12/14/16 09:30	12/16/16 06:38	1
Chromium	**0.0018**	**B**	0.0015	0.00036	mg/L		12/14/16 09:30	12/16/16 16:01	1
Copper	**0.00033**	**J**	0.0010	0.00022	mg/L		12/14/16 09:30	12/16/16 06:38	1
Lead	**0.00026**	**J**	0.0010	0.00017	mg/L		12/14/16 09:30	12/16/16 06:38	1
Manganese	**0.00081**	**J**	0.0010	0.00055	mg/L		12/14/16 09:30	12/16/16 16:01	1
Selenium	0.0010	U	0.0010	0.00044	mg/L		12/14/16 09:30	12/16/16 06:38	1
Silver	0.00050	U	0.00050	0.000036	mg/L		12/14/16 09:30	12/16/16 06:38	1
Thallium	**0.000045**	**J**	0.00020	0.000019	mg/L		12/14/16 09:30	12/16/16 06:38	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		12/15/16 08:20	12/15/16 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.0**		0.50	0.28	mg/L			12/14/16 23:43	1
Sulfate	**4.0**		2.0	0.35	mg/L			12/14/16 23:43	1

Client Sample ID: X-1-120916 (blind dup of US-1)

Lab Sample ID: 480-110958-6

Date Collected: 12/09/16 00:00
Matrix: Water
Date Received: 12/12/16 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Bicarbonate	**5.8**	**J**	10.0	4.0	mg/L			12/15/16 09:29	1
Alkalinity, Carbonate	10.0	U	10.0	4.0	mg/L			12/15/16 09:29	1
Cyanide, Total	0.010	U F1	0.010	0.0050	mg/L		12/14/16 03:45	12/14/16 12:56	1
Total Organic Carbon - Duplicates	**2.3**	**B**	1.0	0.43	mg/L			12/14/16 22:19	1
TOC Result 1	**2.2**		1.0	0.43	mg/L			12/14/16 22:19	1
TOC Result 2	**2.3**	**B**	1.0	0.43	mg/L			12/14/16 22:19	1

Client Sample ID: TB-120916

Lab Sample ID: 480-110958-7

Date Collected: 12/09/16 00:00
Matrix: Water
Date Received: 12/12/16 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/14/16 04:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/14/16 04:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/14/16 04:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/14/16 04:25	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/14/16 04:25	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/14/16 04:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/14/16 04:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/14/16 04:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/14/16 04:25	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/14/16 04:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/14/16 04:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/14/16 04:25	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/14/16 04:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/14/16 04:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/14/16 04:25	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/14/16 04:25	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/14/16 04:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/14/16 04:25	1
Acetone	10	U *	10	3.0	ug/L			12/14/16 04:25	1
Benzene	1.0	U	1.0	0.41	ug/L			12/14/16 04:25	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/14/16 04:25	1
Bromoform	1.0	U *	1.0	0.26	ug/L			12/14/16 04:25	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/14/16 04:25	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/14/16 04:25	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/14/16 04:25	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/14/16 04:25	1
Chlorobromomethane	1.0	U	1.0	0.87	ug/L			12/14/16 04:25	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/14/16 04:25	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/14/16 04:25	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/14/16 04:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/14/16 04:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/14/16 04:25	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/14/16 04:25	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/14/16 04:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/14/16 04:25	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/14/16 04:25	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/14/16 04:25	1

Client Sample ID: TB-120916

Date Collected: 12/09/16 00:00
Date Received: 12/12/16 10:00

Lab Sample ID: 480-110958-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	2.0	U	2.0	0.66	ug/L			12/14/16 04:25	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/14/16 04:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/14/16 04:25	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/14/16 04:25	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/14/16 04:25	1
o-Xylene	1.0	U	1.0	0.76	ug/L			12/14/16 04:25	1
Styrene	1.0	U	1.0	0.73	ug/L			12/14/16 04:25	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/14/16 04:25	1
Toluene	1.0	U	1.0	0.51	ug/L			12/14/16 04:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/14/16 04:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/14/16 04:25	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/14/16 04:25	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/14/16 04:25	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/14/16 04:25	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/14/16 04:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*12/14/16 04:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*12/14/16 04:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/14/16 04:25*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*12/14/16 04:25*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*12/14/16 04:25*	*1*

Summary of December 2016 Field Parameter Results

Taconic Site

Petersburgh, New York

Well	Date Sampled	Temperature (°C)	pH (standard units)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
Unnamed Pond 1	09-Dec-16	1.57	6.62	40	143.8	8.93	1.24
Unnamed Pond 2	09-Dec-16	3.02	6.31	30	149.8	10.97	0.67
Unnamed Pond 3	09-Dec-16	3.02	5.73	790	142.7	8.31	1.50
Unnamed Stream 1	09-Dec-16	1.73	6.67	40	99.1	13.39	0.12
Unnamed Stream 2	09-Dec-16	1.99	6.17	80	191.1	13.31	0.29

Notes:

1. "°C" designates degrees Celsius.
2. "µS/cm" designates microsiemens per centimeter.
3. "ORP" designates oxidation-reduction potential.
4. "mV" designates millivolts.
5. "mg/L" designates milligrams per liter.
6. "NTU" designates nephelometric turbidity units.