



May 14, 2021

Mr. Daniel R. Lanners, P.E.
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 12th Floor
Albany, New York 12233-7014

via email: daniel.lanners@dec.ny.gov

Subject: Former M. Argueso and Company, Inc.
441 & 442 Waverly Avenue, Mamaroneck, NY
Site #C360108
Revised 2nd Semiannual 2020 Groundwater Monitoring Report
STERLING File #28012 (Task 995)

Dear Mr. Lanners,

In response to your April 19, 2021 comment letter regarding the subject report, Sterling Environmental Engineering P.C. (STERLING) has revised the 2nd Semiannual 2020 Groundwater Monitoring Report for the subject site. Groundwater monitoring was conducted on November 18, 2020 in accordance with the approved Site Management Plan (SMP) dated October 2013, and the modifications approved by the New York State Department of Environmental Conservation (NYSDEC) dated March 7, 2014 and April 29, 2015.

Scope & Background

In June 2013, Hydrogen Release Compound (HRC) was injected into the subsurface surrounding wells GZ-22D and GZ-23D. Quarterly groundwater monitoring was conducted for one (1) year after the injection was completed. Semiannual monitoring was approved by the NYSDEC starting in 2015. This report presents the results of the second semiannual groundwater monitoring event for 2020, which included: groundwater gauging of eight (8) groundwater monitoring wells, calculation of groundwater flow direction, and sampling of six (6) groundwater monitoring wells for analysis of volatile organic compounds (VOC) by United States Environmental Protection Agency (USEPA) Method 8260C. Additionally, three (3) groundwater monitoring wells were sampled for emerging contaminants 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS), as requested by the NYSDEC by letter dated September 17, 2020. Sampling for emerging contaminants was in accordance with the site-specific emerging contaminant sampling plan dated October 1, 2020 and NYSDEC's approval with modifications dated November 3, 2020.

Groundwater Flow Direction

The estimated groundwater flow in the deep overburden hydrogeologic unit is to the north (Figure 1), which is consistent with historical conditions. The deep overburden groundwater elevation increased an average of 0.01 feet compared to groundwater elevation measurements collected in March 2020.

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Groundwater Monitoring

Groundwater samples were collected from four (4) onsite monitoring wells (GZ-21D, GZ-22D, GZ-23D, and B6-OWD) and two (2) offsite monitoring wells (OSMW-3 and OSMW-4). The locations of the groundwater monitoring wells are presented in Figure 1. All groundwater samples were analyzed for TCL VOCs via USEPA Method 8260C. Two (2) onsite monitoring wells (GZ-22D and GZ-23D) and one (1) offsite monitoring well (OSMW-3) were additionally analyzed for 1,4-Dioxane and PFAS via methods SW 846 Method 8270D SIM and USEPA Part 537, respectively. Groundwater samples were collected in accordance with the SMP and submitted to Alpha Analytical, Inc. of Westborough, Massachusetts under chain-of-custody protocol for analysis. Samples were shipped in a cooler with ice and analyzed within applicable holding times. The Daily Field Report and Sampling Data Sheets are attached.

Results of the laboratory analysis for chlorinated VOCs (cVOC) and comparison to Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Water Quality Standards and Guidance Values are summarized in Table 1 and a summary of select cVOC concentrations for the most recent two sample events are shown on Figure 2. The results of the laboratory analysis for emerging contaminants 1,4-Dioxane and PFAS are summarized in Table 1-A. PFAS results are compared to the regulatory guidance for groundwater quality available in the NYSDEC issued document “Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substance (PFAS)”, dated October 2020 and 1-4 Dioxane results are compared to the NYSDEC screening level of 1.0 micrograms per liter ($\mu\text{g/L}$). The laboratory analytical report is attached.

1,4-Dioxane

Groundwater samples were collected for 1,4-Dioxane analysis from three (3) monitoring wells (GZ-22D, GZ-23D, and OSMW-3) and the results are provided in Table 1-A. The NYSDEC emerging contaminant screening level for 1,4-Dioxane in groundwater is 1.0 $\mu\text{g/L}$. 1,4-Dioxane was detected above the screening level of 1.0 $\mu\text{g/L}$ in GZ-22D (3.18 $\mu\text{g/L}$) and the off-site well OSMW-3 (2.59 $\mu\text{g/L}$).

Per and Polyfluoroalkyl Substances (PFAS)

Groundwater samples were collected for PFAS compound analysis from three (3) monitoring wells (GZ-22D, GZ-23D, and OSMW-3). The NYSDEC screening level is 10 nanograms per liter (ng/L) for PFOA and PFOS, 100 ng/L for any other individual PFAS compound, and 500 ng/L for the total concentration of all PFAS compounds. PFAS compounds were detected above the laboratory reporting limit in all groundwater samples analyzed. No exceedance of any of the NYSDEC screening levels occurred in the samples collected from monitoring wells GZ-22D and OSMW-3. The concentration of perfluorooctanesulfonic acid (PFOS) (29.7 ng/L) from GZ-23D exceeded the NYSDEC screening level of 10 ng/L. Results for PFAS in groundwater are provided in Table 1-A.

Chlorinated Volatile Organic Compounds (cVOC)

Since the HRC injections in June 2013, groundwater quality has significantly improved. Concentrations of tetrachloroethylene (PCE) and trichloroethylene (TCE) have decreased and are remaining stable in monitoring wells GZ-21D, GZ-22D, GZ-23D, and OSMW-4. Degradation compounds initially increased following injection and subsequently decreased with the majority of cVOCs below groundwater standards. The treatment has been successful in reducing volatile compounds in groundwater, and groundwater quality improvement over time is expected to continue.

Other VOCs

Benzene was detected above the groundwater standard of 1.0 ug/L in GZ-22D (2.7 ug/L) and GZ-23D (5.3 ug/L). Methyl-tert-butyl ether (MTBE) was detected in GZ-22D at 1.8 ug/L and GZ-21D at 0.74 ug/L, below the Guidance Value of 10 ug/L. O-xylene was detected at GZ-23D at 1.2 ug/L, below the groundwater standard of 5 ug/L.

The following sections detail data trends in each deep zone monitoring well compared to the applicable ambient water quality standards based on data summarized in Table 1. Well data trend graphs are attached for each well that show select constituents over time compared to the groundwater quality standards.

Onsite Wells

GZ-21D

Since 2014, concentrations of all VOCs steadily decreased through November 2017 to below standards with the exception of 1,2-Dichloroethane (1,2-DCA). Beginning in 2018, concentrations of the following cVOCs have increased to levels above standards: 1,2-DCA, cis-1,2-Dichloroethene (cis-1,2-DCE), and vinyl chloride (VC). Concentrations of PCE and TCE remain below standards.

GZ-22D

PCE and TCE concentrations have decreased below standards for the last twelve (12) sampling events. All other cVOCs have decreased to levels below standards with the exception of 1,2-DCA, cis-1,2-DCE, trans-1,2-Dichloroethene (trans-1,2-DCE), and VC.

GZ-23D

PCE and TCE concentrations in this well have consistently been detected above the groundwater standard of 5 µg/L, from a high of 9,700 µg/L for PCE in 2009 and 1,600 µg/L for TCE in 2012 to the lowest levels yet in the most recent sampling event (19 and 15 µg/L for PCE and TCE, respectively). VC, a degradation product of PCE and TCE, increased to levels above groundwater standards following the 2013 injections and has consistently decreased or remained stable since late 2015, remaining above standards. The most recent VC concentration of 5.6 µg/L is approaching the groundwater standard of 2.0 µg/L. Cis-1,2-DCE concentrations are consistently detected above standards. Trans-1,2-DCE was detected below standards in this sampling event, and 1,2-DCA was detected at 1.1 µg/L, just above the 0.6 µg/L standard.

B6-OWD

Following an initial increase in cVOC concentrations immediately after the injections, all cVOCs decreased to below standards from November 2014 through June 2017. Since November 2017, PCE, TCE, 1,2-DCA, cis-1,2-DCE, and trans-1,2-DCE concentrations have increased above standards.

Offsite Wells

Offsite wells OSMW-3 and OSMW-4 are located upgradient of the treatment zone to determine upgradient groundwater quality.

OSMW-3

PCE, TCE, 1,2-DCA, and cis-1,2-DCE concentrations in this well have consistently remained above groundwater standards while trans-1,2-DCE and VC are below groundwater standards.

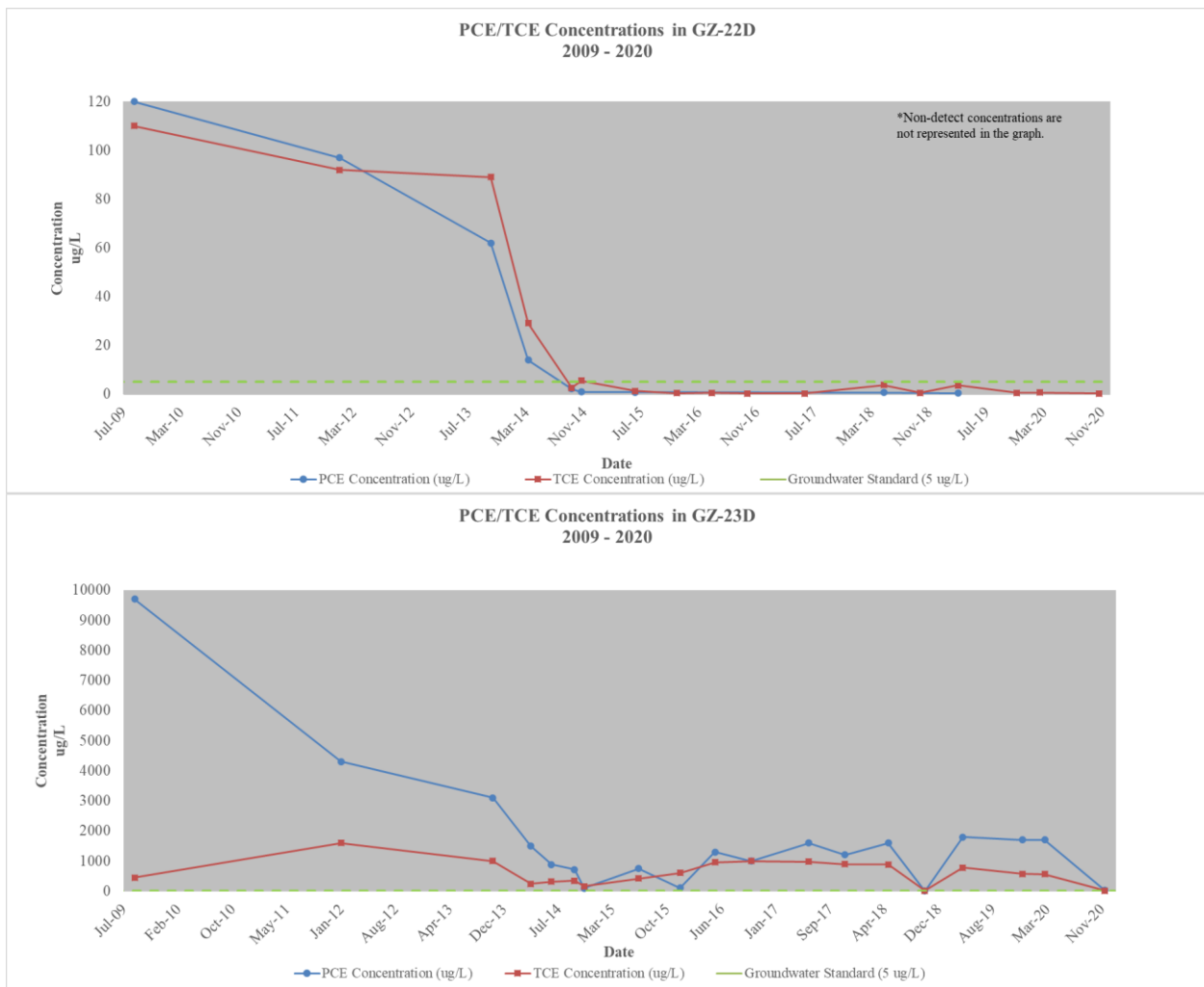
OSMW-4

All cVOCs have been below groundwater standards since 2014.

Monitoring Well Data Trends

The graphs below depict PCE and TCE concentrations in monitoring wells GZ-22D and GZ-23D over time (2009 - 2020). Initially, monitoring wells GZ-22D and GZ-23D contained the highest concentrations of PCE and TCE in onsite groundwater and were therefore selected for remediation.

Additional data trend graphs for all monitoring wells sampled are attached, showing concentration levels over time for the cVOCs that have been consistently detected in these wells.



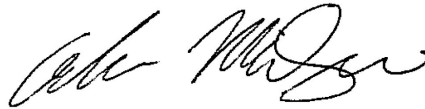
Conclusions and Recommendations

- Overall groundwater quality has improved over time, and groundwater quality improvement is expected to continue. Based on the long history of groundwater monitoring and stabilizing conditions, STERLING recommends the frequency of sampling be reduced to annual.
- Emerging Contaminants (PFAS and 1,4-Dioxane) concentrations were detected in all groundwater samples analyzed. PFOS in GZ-23D and 1,4-Dioxane in GZ-22D and OSMW-3 exceeded NYSDEC screening levels.
- OSMW-4 has consistently been reported at levels below groundwater standards; therefore, STERLING recommends sampling of this well be discontinued.
- Groundwater monitoring data collected subsequent to the 2013 injections indicate an overall decrease in the concentration of cVOCs. Therefore, the remedy continues to be effective at this site.
- Assuming the request to proceed with annual sampling is granted, the next annual sampling event is scheduled for the fall of 2021.

Please contact me should you have any questions.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.



Andrew M. Millspaugh, P.E.

Vice President

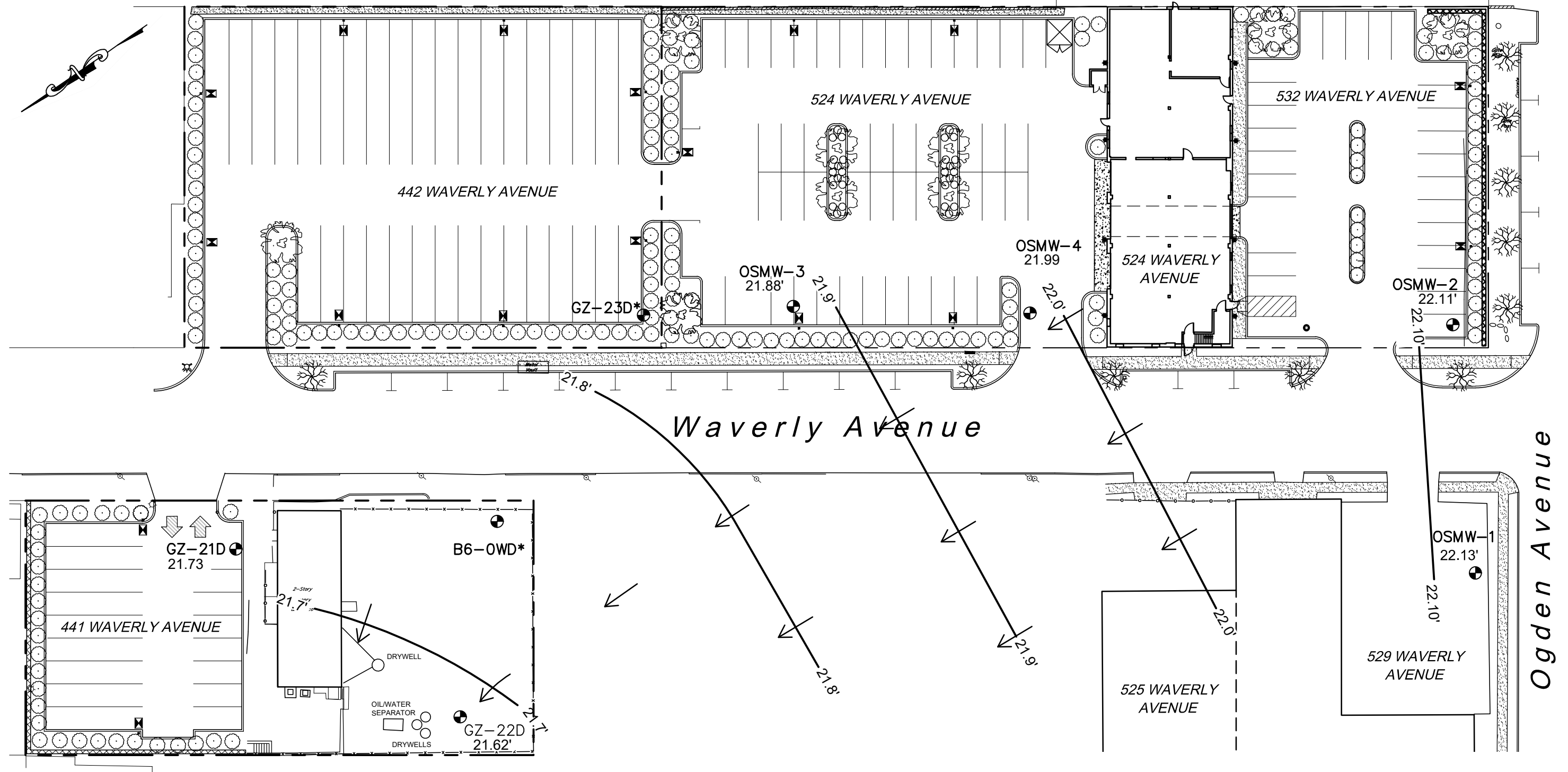
andrew.millspaugh@sterlingenvironmental.com

Email

Attachments

cc: T.J. Milo, New Waverly Avenue Associates, LLC
Kevin Young, Young Sommer, LLC
Amen Omorogbe, P.E., NYSDEC

FIGURES

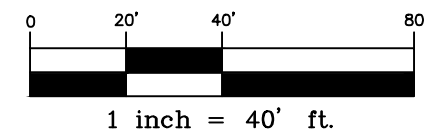


LEGEND:

- GZ-22D 21.62' MONITORING WELL WITH CORRESPONDING GROUNDWATER ELEVATION
- 21.8' GROUNDWATER CONTOUR NOVEMBER 18, 2020
- ← GROUNDWATER FLOW DIRECTION (DASHED WHERE INFERRED)
- - - SITE BOUNDARY (441 & 442 WAVERLY AVENUE)
- ⊠ LIGHT POLE
- ▨ CONCRETE SIDEWALK
- x-x- FENCE

| TOTAL cVOCs (µg/L) | | |
|--------------------|-------------------------------------|---------------|
| WELL ID | HIGHEST CONCENTRATION PRIOR TO 2013 | NOVEMBER 2020 |
| B6-OWD | 615.70 | 2,775.7 |
| GZ-21D | 524.60 | 254.0 |
| GZ-22D | 260.40 | 111.8 |
| GZ-23D | 10,178.5 | 63.9 |
| OSMW-3 | 900.10 | 2,536.7 |
| OSMW-4 | 1,057.00 | 0.39 |

* DEPTH TO GROUNDWATER MEASUREMENT NOT CONSIDERED REPRESENTATIVE OF THE GROUNDWATER FLOW DIRECTION.

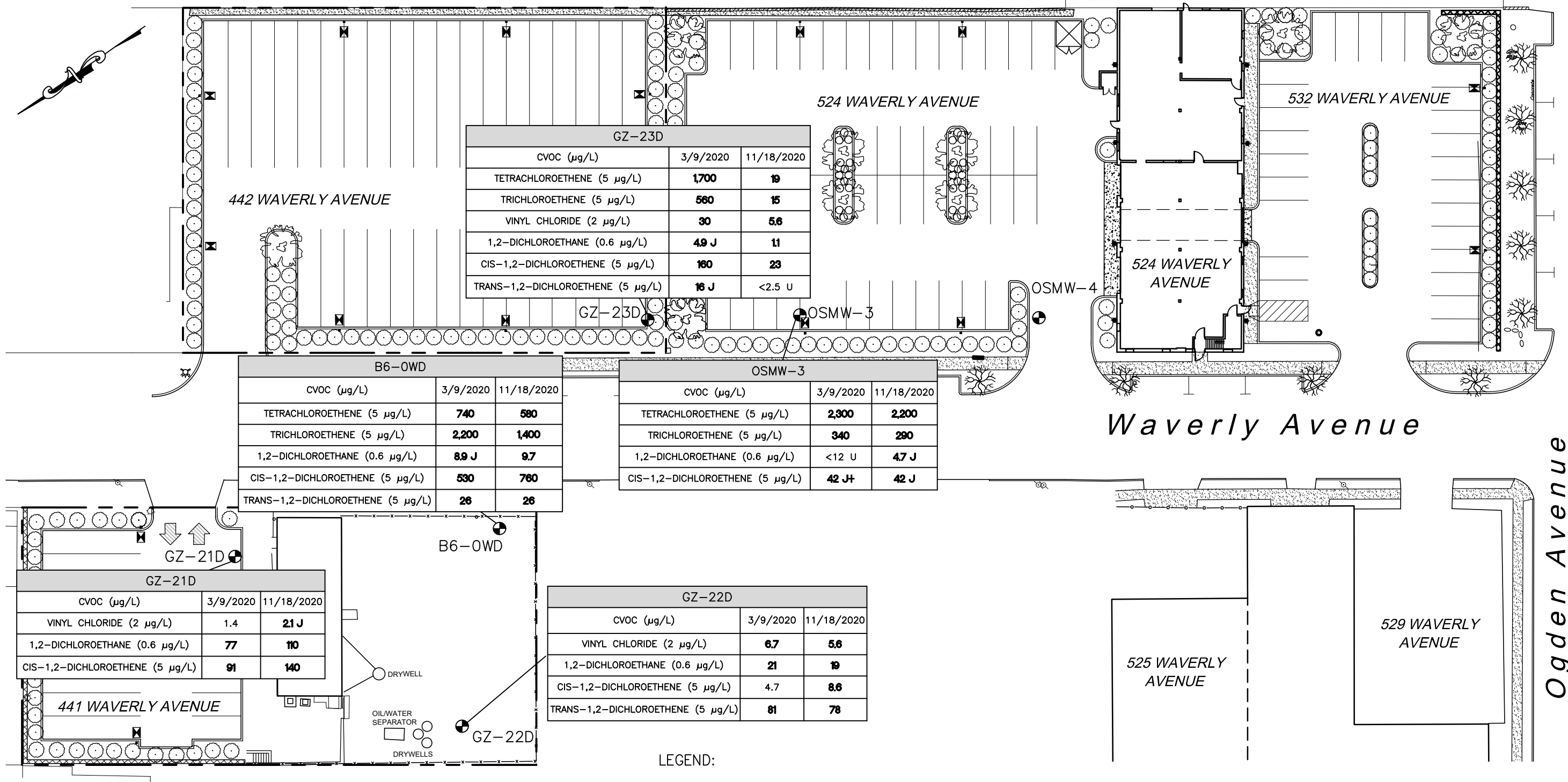


BASE MAP PROVIDED BY SITE DESIGN CONSULTANTS, DATED FEBRUARY 22, 2010.

FIGURE 1

| | | | |
|--|------------------|---|------------------------------|
| <p style="margin: 0;">Sterling Environmental Engineering, P.C. 24 Wade Road • Latham, New York 12110</p> | | <p style="margin: 0;">GROUNDWATER CONTOUR MAP NOVEMBER 18, 2020 SITE# C360108 NEW WAVERLY AVENUE ASSOCIATES, LLC V/T OF MAMARONECK WESTCHESTER CO., N.Y.</p> | |
| PROJ. No.: 28012 | DATE: 12/15/2020 | SCALE: 1" = 40' | DWG. NO. 28012110 FIGURE 1 |

S:\Drawings\28012 - 441 & 442 Waverly Avenue\28012112_EXCEEDANCES 11-2020.dwg CAD 5/12/2021 11:40 PM



| GZ-23D | | |
|-----------------------------------|--------------|------------|
| CVOC (µg/L) | 3/9/2020 | 11/18/2020 |
| TETRACHLOROETHENE (5 µg/L) | 1,700 | 19 |
| TRICHLOROETHENE (5 µg/L) | 560 | 15 |
| VINYL CHLORIDE (2 µg/L) | 30 | 5.6 |
| 1,2-DICHLOROETHANE (0.6 µg/L) | 4.9 J | 11 |
| CIS-1,2-DICHLOROETHENE (5 µg/L) | 160 | 23 |
| TRANS-1,2-DICHLOROETHENE (5 µg/L) | 16 J | <2.5 U |

| B6-OWD | | |
|-----------------------------------|--------------|--------------|
| CVOC (µg/L) | 3/9/2020 | 11/18/2020 |
| TETRACHLOROETHENE (5 µg/L) | 740 | 580 |
| TRICHLOROETHENE (5 µg/L) | 2,200 | 1,400 |
| 1,2-DICHLOROETHANE (0.6 µg/L) | 8.9 J | 9.7 |
| CIS-1,2-DICHLOROETHENE (5 µg/L) | 530 | 760 |
| TRANS-1,2-DICHLOROETHENE (5 µg/L) | 26 | 26 |

| OSMW-3 | | |
|---------------------------------|--------------|--------------|
| CVOC (µg/L) | 3/9/2020 | 11/18/2020 |
| TETRACHLOROETHENE (5 µg/L) | 2,300 | 2,200 |
| TRICHLOROETHENE (5 µg/L) | 340 | 290 |
| 1,2-DICHLOROETHANE (0.6 µg/L) | <12 U | 4.7 J |
| CIS-1,2-DICHLOROETHENE (5 µg/L) | 42 J+ | 42 J |

| GZ-21D | | |
|---------------------------------|-----------|-------------|
| CVOC (µg/L) | 3/9/2020 | 11/18/2020 |
| VINYL CHLORIDE (2 µg/L) | 1.4 | 21 J |
| 1,2-DICHLOROETHANE (0.6 µg/L) | 77 | 110 |
| CIS-1,2-DICHLOROETHENE (5 µg/L) | 91 | 140 |

| GZ-22D | | |
|-----------------------------------|------------|------------|
| CVOC (µg/L) | 3/9/2020 | 11/18/2020 |
| VINYL CHLORIDE (2 µg/L) | 6.7 | 5.6 |
| 1,2-DICHLOROETHANE (0.6 µg/L) | 21 | 19 |
| CIS-1,2-DICHLOROETHENE (5 µg/L) | 4.7 | 8.6 |
| TRANS-1,2-DICHLOROETHENE (5 µg/L) | 81 | 78 |

LEGEND:

- MONITORING WELL
- SITE BOUNDARY (441 & 442 WAVERLY AVENUE)
- LIGHT POLE
- CONCRETE SIDEWALK
- FENCE

NOTES:

Groundwater Standards in parentheses () are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
BOLD = Indicates exceedance of groundwater standard.
 < = Indicates the parameter was not detected at or above laboratory's reporting limit shown.
 U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
 J = Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.
 J+ = The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.

BASE MAP PROVIDED BY SITE DESIGN CONSULTANTS, DATED FEBRUARY 22, 2010.

STERLING

Sterling Environmental Engineering, P.C.
 24 Wade Road • Latham, New York 12110

MONITORING LOCATION MAP WITH EXCEEDANCES
 NOVEMBER 18, 2020

SITE# C360108
NEW WAVERLY AVENUE ASSOCIATES, LLC

V/T OF MAMARONECK WESTCHESTER CO., N.Y.

TABLES

Table 1
Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values
441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

| Sample ID | Water Quality Standard* | GZ-21D | | | | | | | | | | | | | | | | | | | DUP-1 | DUP-1 | DUP-1 |
|--|-------------------------|--------------|------------|------------|--------------|------------|------------|----------|------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|--------------|------------|------------|------------|
| | | µg/L | | | | | | | | | | | | | | | | | | | µg/L | µg/L | µg/L |
| Unit | µg/L | | | | | | | | | | | | | | | | | | | | µg/L | µg/L | µg/L |
| Sample Date | | 08/20/09 | 01/11/12 | 10/15/13 | 03/24/14 | 06/18/14 | 09/24/14 | 11/05/14 | 06/23/15 | 12/16/15 | 05/12/16 | 10/12/16 | 06/13/17 | 11/14/17 | 05/16/18 | 10/18/18 | 03/27/19 | 12/04/19 | 03/09/20 | 11/18/20 | 06/18/14 | 10/12/16 | 12/04/19 |
| <i>Chlorinated Volatile Organic Compounds:</i> | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | --- | --- | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | <4.0 | <2.5 | <2.5 |
| 1,1,2,2-Tetrachloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | <0.5 | <1.2 | <0.5 | <0.5 | <0.5 | --- | <0.5 | <0.5 |
| 1,1,2-Trichloroethane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <6.0 | <1.5 | <3.8 | <1.5 | <1.5 | <1.5 | --- | <1.5 | <1.5 |
| 1,1-Dichloroethane | 5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <5.0 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | <4.0 | <2.5 | <2.5 |
| 1,1-Dichloroethene | 5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <5.0 | <1.0 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.0 | <0.5 | <1.2 | <0.5 | <0.5 | <0.5 | <4.0 | <0.50 | <0.5 |
| 1,2-Dichloroethane | 0.6 | 170 D | 5.3 | <5.0 | 190 D | 190 | 4.1 | 0.4 J | 54 | 55 | 28 | 48 | 11 | 11 | 140 | 52 | 110 | 74 | 77 | 110 | 190 | 56 | 74 |
| cis-1,2-Dichloroethene | 5.0 | 270 D | 10 | 7.6 | 310 D | 290 | 5.6 | <1.0 | 100 | <2.5 | 0.83 J | 3.5 | <2.5 | 1.7 J | 270 | 120 | 230 | 110 | 91 | 140 | 350 | 2.9 | 110 |
| trans-1,2-Dichloroethene | 5.0 | 6.6 | <5.0 | <5.0 | 3.8 | <5.0 | <1.0 | <1.0 | 0.99 J | 0.86 J | <2.5 | 0.81 J | <2.5 | <2.5 | 3.4 J | 2.4 J | 2.6 J | 1.9 J | 1.6 J | 1.9 J | <4.0 | 0.75 J | 1.7 J |
| 1,2-Dichloropropane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <4.0 | <1.0 | <2.5 | <1.0 | <1.0 | <1.0 | --- | <1.0 | <1.0 |
| Bromochloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | 10 | <6.2 | <2.5 | <2.5 | <2.5 | --- | <2.5 | <2.5 |
| Bromodichloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | <0.5 | <1.2 | <0.5 | <0.5 | <0.5 | --- | <0.5 | <0.5 |
| Carbon Tetrachloride | 5.0 | --- | --- | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | <0.5 | <1.2 | <0.5 | <0.5 | <0.5 | <4.0 | <0.5 | <0.5 |
| Chloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | --- | <2.5 | <2.5 |
| Chloroform | 7.0 | --- | --- | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | <4.0 | <2.5 | <2.5 |
| Chloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | --- | <2.5 | <2.5 |
| cis-1,3-Dichloropropene | 0.4 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | <0.5 | <1.2 | <0.5 | <0.5 | <0.5 | --- | <0.5 | <0.5 |
| Dibromochloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | 1.7 J | <1.2 | <0.5 | <0.5 | <0.5 | --- | <0.5 | <0.5 |
| Dichlorodifluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <20 | <5.0 | <12 | <5 | <5 | <5 | --- | <5.0 | <5 |
| Freon-113 | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | --- | <2.5 | <2.5 |
| Methylene Chloride | 5.0 | --- | --- | <5.0 | <5.0 | 5.4 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | <4.0 | <2.5 | <2.5 |
| Trichlorofluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <10 | <2.5 | <6.2 | <2.5 | <2.5 | <2.5 | --- | <2.5 | <2.5 |
| Tetrachloroethene | 5.0 | 41 | 1.7 J | <5.0 | 9.8 | 3.4 J | 0.89 J | 1.0 | 0.18 J | <0.50 | <0.50 | <0.50 | <0.50 | 0.19 J | <2.0 | <0.5 | <1.2 | <0.5 | <0.5 | <0.5 | 2.9 J | <0.50 | <0.5 |
| Trichloroethene | 5.0 | 33 | 0.58 J | <5.0 | 7.8 | 15 | 0.82 J | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.0 | <0.5 | <1.2 | <0.5 | <0.5 | <0.5 | 13 | <0.50 | <0.5 |
| Vinyl chloride | 2.0 | 4 J | <5.0 | <5.0 | 4.3 | <5.0 | <1.0 | <1.0 | 1.7 | <1.0 | 0.43 J | <2.3 | <1.0 | 0.59 J | 19 | 12 | 16 | 5 | 1.4 | 2.1 J | <4.0 | 2.8 | 4.8 |
| TOTAL CVOCs | | 524.6 | 17.58 | 7.6 | 525.7 | 503.8 | 11.41 | 3.7 | 156.87 | 55.9 | 29.26 | 52.31 | 11 | 13.48 | 432.4 | 198.1 | 358.6 | 190.9 | 171.0 | 254.0 | 555.9 | 62.45 | 190.5 |

Notes:

BOLD Indicates exceedance of groundwater standard

* Groundwater Standards are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".

< Indicates the parameter was not detected at or above laboratory's reporting limit shown.

NA Not Analyzed.

Laboratory Qualifiers:

D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.

J Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

Data Usability Summary Report (DUSR) Qualifiers:

j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.

J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.

J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.

UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 1, Cont.
Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values
441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

| Sample ID | Water Quality Standard* | GZ-22D | | | | | | | | | | | | | | | | | | | DUP-1 | DUP-1 | DUP-1 | |
|--|-------------------------|------------|------------|-----------|-------------|-------------|------------|---------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|--------|
| | | µg/L | | | | | | | | | | | | | | | | | | | ug/L | ug/L | ug/L | |
| Unit | µg/L | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Date | | 08/19/09 | 01/11/12 | 10/15/13 | 03/24/14 | 06/18/14 | 09/24/14 | 11/05/14 | 06/23/15 | 12/16/15 | 05/12/16 | 10/12/16 | 06/13/17 | 11/14/17 | 05/16/18 | 10/18/18 | 03/27/19 | 12/04/19 | 03/09/20 | 11/18/20 | 11/18/20 | 03/24/14 | 03/09/20 | |
| <i>Chlorinated Volatile Organic Compounds:</i> | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | --- | --- | <5.0 | <25 | <25 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <25 | 2.5 U | |
| 1,1,2,2-Tetrachloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | --- | 0.5 U | |
| 1,1,2-Trichloroethane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | --- | <1.5 U | |
| 1,1-Dichloroethane | 5.0 | <5.0 | <5.0 | <5.0 | <25 | <25 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <25 | 2.5 U | |
| 1,1-Dichloroethene | 5.0 | <5.0 | <5.0 | <5.0 | <25 | <25 | <1.0 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <25 | 0.5 U | |
| 1,2-Dichloroethane | 0.6 | 22 | 17 | 16 | 24 J | <25 | 1.3 | 0.64 J | 5.4 | 14 | 15 | 18 | 18 | 16 | 21 | 9.6 | 20 | 18 | 21 | 19 | 19 | 22 J | 20 | |
| cis-1,2-Dichloroethene | 5.0 | 8.4 | 6.5 | 12 | 110 | <25 | 1.9 | 1.7 | 4.5 | 6.8 | 5.2 | 3.5 | 4.2 | 2.4 J | 12 | 7 | 17 | 5.7 | 4.7 | 8.6 | 7.9 | 100 | 4.3 | |
| trans-1,2-Dichloroethene | 5.0 | <5.0 | 1.3 J | 4.2 J | <25 | <25 | 5.8 | 5.5 | 9.4 | 21 | 28 | 40 | 50 | 54 | 66 | 11 | 75 | 82 | 81 | 78 | 78 | <25 | 77 | |
| 1,2-Dichloropropane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1 | <1 | <1 | <1 | <1 | --- | <1 U | |
| Bromochloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | --- | 2.5 U |
| Bromodichloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | --- | 0.5 U |
| Carbon Tetrachloride | 5.0 | --- | --- | <5.0 | <25 | <25 | <1.0 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <25 | 0.5 U | |
| Chloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | --- | 2.5 U |
| Chloroform | 7.0 | --- | --- | <5.0 | <25 | <25 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <25 | 2.5 U | |
| Chloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | --- | 2.5 U |
| cis-1,3-Dichloropropene | 0.4 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | --- | <0.5 U |
| Dibromochloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | --- | 0.5 U |
| Dichlorodifluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | --- | <5 U |
| Freon-113 | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | --- | 2.5 U |
| Methylene Chloride | 5.0 | --- | --- | <5.0 | <25 | 19 J | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <25 | 2.5 U | |
| Trichlorofluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | --- | 2.5 U |
| Tetrachloroethene | 5.0 | 120 | 97 | 62 | 14 J | <25 | 2.1 | 0.88 J | 0.69 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.62 J- | <0.50 | 0.4 J | <0.5 | <0.5 | <0.5 | <0.5 | 21 J | 0.5 U | |
| Trichloroethene | 5.0 | 110 | 92 | 89 | 29 | <25 | 2.5 | 5.5 | 1.2 | 0.33 J | 0.46 J | 0.29 J | 0.2 J | <0.50 | 3.7 | 0.52 | 3.6 | 0.5 | 0.23 J | 0.56 | 0.48 J | 34 | 0.32 J | |
| Vinyl chloride | 2.0 | <5.0 | <5.0 | <5.0 | <25 | <25 | <1.0 | <1.0 | 1.8 | 6.5 | 5.7 | 3.1 | 3.8 j | 2.9 | 5.9 | <1.0 | 8.3 | 5.8 | 6.7 | 5.6 | 5.7 | <25 | 7.1 | |
| TOTAL CVOCs | | 260.4 | 213.8 | 183.2 | 177 | 19 | 13.6 | 14.22 | 22.99 | 48.6 | 54.36 | 64.89 | 76.2 | 75.3 | 109.22 | 28.12 | 124.3 | 112.0 | 113.63 | 111.76 | 111.08 | 177.0 | 108.72 | |

Notes:

BOLD Indicates exceedance of groundwater standard

* Groundwater Standards are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".

< Indicates the parameter was not detected at or above laboratory's reporting limit shown.

NA Not Analyzed.

--- No standard or not applicable.

Laboratory Qualifiers:

D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.

J Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

Data Usability Summary Report (DUSR) Qualifiers:

j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.

J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.

J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.

UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 1, Cont.
Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values
441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

| Well ID | Water Quality Standard* | GZ-23D | | | | | | | | | | | | | | | | | | | DUP-1 |
|--|-------------------------|----------------|----------------|--------------|----------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|------------|----------------|
| | | µg/L | | | | | | | | | | | | | | | | | | | |
| Unit | µg/L | | | | | | | | | | | | | | | | | | | | µg/L |
| Sample Date | | 08/20/09 | 01/11/12 | 10/15/13 | 03/25/14 | 06/19/14 | 09/25/14 | 11/05/14 | 06/24/15 | 12/17/15 | 05/12/16 | 10/12/16 | 06/13/17 | 11/14/17 | 05/16/18 | 10/18/18 | 03/28/19 | 12/04/19 | 03/09/20 | 11/18/20 | 06/13/17 |
| <i>Chlorinated Volatile Organic Compounds:</i> | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | --- | --- | <100 | <40 | <20 | <20 | <20 | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| 1,1,2,2-Tetrachloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <5.0 | <10 | <5.0 | <12 | <10 | <10 | <5.0 | <2.5 | <10 | <10 | <10 | <0.5 | <10 |
| 1,1,2-Trichloroethane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <15 | <30 | <15 | <38 | <30 | <30 | <15 | <7.5 | <30 | <30 | <30 | <1.5 | <30 |
| 1,1-Dichloroethane | 5.0 | <5.0 | <5.0 | <100 | <1.0 | <20 | <20 | <20 | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| 1,1-Dichloroethene | 5.0 | 5.5 | 1.6 J | <100 | 1.7 | <20 | <20 | <20 | 1.9 J | <10 | <5.0 | <12 | <10 | <10 | <5.0 | <2.5 | <10 | <10 | <10 | 0.18 J | <10 |
| 1,2-Dichloroethane | 0.6 | 13 | 9 | <100 | 7.8 | 6.6 J | 7.6 J | <20 | 3.6 J | <10 | 4.3 J | 4.2 J | 3.9 J | 3.3 D,J | 1.8 J | 1.6 J | 3.8 J | 6.8 J | 4.9 J | 1.1 | 4.1 D,J |
| cis-1,2-Dichloroethene | 5.0 | 10 | 780 D | 380 | 2,200 D | 930 | 1,100 | 1,100 | 780 | 1,000 j | 400 | 320 | 280 | 220 D | 240 | 660 | 150 | 240 | 160 | 23 | 290 D |
| trans-1,2-Dichloroethene | 5.0 | <5.0 | 9.1 | <100 | 41 | <20 | <20 | 18 J | 22 J | 37 J,j | 32 | 36 J | 22 J | 18 D,J | 19 J | 10 J | 15 J | 47 J | 16 J | <2.5 | 21 D,J |
| 1,2-Dichloropropane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <10 | <20 | <10 | <25 | <20 | <20 | <10 | <5.0 | <20 | <20 | <20 | <1.0 | <20 |
| Bromochloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| Bromodichloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <5.0 | <10 | <5.0 | <12 | <10 | <10 | <5.0 | <2.5 | <10 | <10 | <10 | <0.5 | <10 |
| Carbon Tetrachloride | 5.0 | --- | --- | <100 | <40 | <20 | <20 | <20 | <5.0 | <10 | <5.0 | <12 | <10 | <10 | <5.0 | <2.5 | <10 | <10 | <10 | <0.5 | <10 |
| Chloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| Chloroform | 7.0 | --- | --- | <100 | <40 | <20 | <20 | <20 | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| Chloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| cis-1,3-Dichloropropene | 0.4 | --- | --- | --- | --- | --- | --- | --- | <5.0 | <10 | <5.0 | <12 | <10 | <10 | <5.0 | <2.5 | <10 | <10 | <10 | <0.5 | <10 |
| Dibromochloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <5.0 | <10 | <5.0 | <12 | <10 | <10 | <5.0 | <2.5 | <10 | <10 | <10 | <0.5 | <10 |
| Dichlorodifluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <50 | <100 | <50 | <120 | <100 | <100 | <50 | <25 | <100 | <100 | <100 | <5.0 | <100 |
| Freon-113 | 5.0 | --- | --- | --- | --- | --- | --- | --- | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| Methylene Chloride | 5.0 | --- | --- | <100 | <40 | <20 | <20 | <20 | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| Trichlorofluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <25 | <50 | <25 | <62 | <50 | <50 | <25 | <12 | <50 | <50 | <50 | <2.5 | <50 |
| Tetrachloroethene | 5.0 | 9,700 D | 4,300 D | 3,100 | 1,500 D | 880 | 720 | 94 | 750 | 110 j | 1,300 | 1,000 | 1,600 | 1,200 D | 1,600 | 7.6 | 1,800 | 1,700 | 1,700 | 19 | 1,500 D |
| Trichloroethene | 5.0 | 450 DJ | 1,600 D | 1,000 | 240 D | 310 | 350 | 160 | 420 | 600 j | 960 | 1,000 | 980 | 890 D | 880 | 16 | 780 | 570 | 560 | 15 | 950 D |
| Vinyl chloride | 2.0 | <5.0 | 1.2 J | 28 J | 200 D | 250 | 390 | 320 | 230 j | <20 | 200 | 82 | 72 | 58 D | 40 | 96 | 32 | 57 | 30 | 5.6 | 71 D |
| TOTAL CVOCs | | 10,178.5 | 6,700.9 | 4,508 | 4,191 | 2,376.6 | 2,567.6 | 1,692 | 2,207.5 | 1,747 | 2,896.3 | 2,442.2 | 2,957.9 | 2,389.3 | 2,780.8 | 791.2 | 2,780.8 | 2,620.8 | 2,470.9 | 63.88 | 2,836.1 |

Notes:

- BOLD** Indicates exceedance of groundwater standard
- * Groundwater Standards are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
- < Indicates the parameter was not detected at or above laboratory's reporting limit shown.
- NA Not Analyzed.
-

Laboratory Qualifiers:

- D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.
- J Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

Data Usability Summary Report (DUSR) Qualifiers:

- j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 1, Cont.
Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values
441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

| Well ID | Water Quality Standard* | B6-OWD | | | | | | | | | | | | | | | | | | DUP-1 | DUP-1 | DUP-1 | |
|--|-------------------------|--------------|------------|--------------|--------------|------------|--------------|----------|----------|----------|----------|----------|----------|----------------|-----------------|--------------|--------------|--------------|--------------|--------------|----------|-----------------|--------------|
| | | µg/L | | | | | | | | | | | | | | | | | | µg/L | µg/L | µg/L | |
| Unit | µg/L | 08/21/09 | 01/11/12 | 10/15/13 | 03/24/14 | 06/18/14 | 09/24/14 | 11/05/14 | 06/23/15 | 12/16/15 | 05/12/16 | 10/12/16 | 06/13/17 | 11/14/17 | 05/16/18 | 10/18/18 | 03/27/19 | 12/04/19 | 03/09/20 | 11/18/20 | 12/16/15 | 05/16/18 | 10/18/18 |
| <i>Chlorinated Volatile Organic Compounds:</i> | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | --- | --- | <5.0 | --- | <20 | <4.0 | <8.0 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| 1,1,2,2-Tetrachloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <2.5 | <10 | <5.0 | <10 | <5.0 | <10 | <5.0 | <0.5 | <10 | <5.0 |
| 1,1,2-Trichloroethane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <1.5 | <1.5 | <1.5 | <1.5 | <3.0 | <7.5 | <30 | <15 | <30 | <15 | <30 | <15 | <1.5 | <30 | <15 |
| 1,1-Dichloroethane | 5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <4.0 | <4.0 | <8.0 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| 1,1-Dichloroethene | 5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <4.0 | <4.0 | <8.0 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <2.5 | <10 | <5.0 | <10 | <5.0 | <10 | <5.0 | <0.50 | <10 | <5.0 |
| 1,2-Dichloroethane | 0.6 | 9.7 | <5.0 | 1.9 J | 2.8 | 8.0 | 9.1 | <8.0 | 0.36 J | <0.50 | 0.31 J | 0.32 J | 0.29 J | 3.7 D | 11 | 8.5 | 15 | 12 J+ | 8.9 J | 9.7 | <0.50 | 9.1 J | 9.4 |
| cis-1,2-Dichloroethene | 5.0 | 390 D | 1.5 J | 76 | 180 D | 330 | 430 D | <8.0 | 1.3 J | 1.1 J | 2.4 J | 2.1 J | 1.8 J | 150 D | 390 | 360 | 700 | 620 | 530 | 760 | 1.2 J | 330 | 380 |
| trans-1,2-Dichloroethene | 5.0 | 150 | <5.0 | 6.8 | 7.2 | 8.4 | 14 | <8.0 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | 6.0 J,D | 22 J | 16 J | 41 J | 24 J+ | 26 J | 26 | <2.5 | 20 J | 17 J |
| 1,2-Dichloropropane | 1.0 | --- | --- | --- | --- | --- | --- | --- | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 | <5.0 | <20 | <10 | <20 | <10 | <20 | <10 | <1.0 | <20 | <10 |
| Bromochloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| Bromodichloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <2.5 | <10 | <5.0 | <10 | <5.0 | <10 | <5.0 | <0.5 | <10 | <5.0 |
| Carbon Tetrachloride | 5.0 | --- | --- | <5.0 | --- | <20 | <4.0 | <8.0 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <2.5 | <10 | <5.0 | <10 | <5.0 | <10 | <5.0 | <0.5 | <10 | <5.0 |
| Chloroethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| Chloroform | 7.0 | --- | --- | <5.0 | --- | <20 | 4 | <8.0 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| Chloromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| cis-1,3-Dichloropropene | 0.4 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <2.5 | <10 | <5.0 | <10 | <5.0 | <10 | <5.0 | <0.5 | <10 | <5.0 |
| Dibromochloromethane | 50.0 | --- | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <2.5 | <10 | <5.0 | <10 | <5.0 | <10 | <5.0 | <0.5 | <10 | <5.0 |
| Dichlorodifluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <25 | <100 | <50 | <100 | <50 | <100 | <50 | <5.0 | <100 | <50 |
| Freon-113 | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| Methylene Chloride | 5.0 | --- | --- | <5.0 | --- | <20 | <4.0 | <8.0 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| Trichlorofluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <12 | <50 | <25 | <50 | <25 | <50 | <25 | <2.5 | <50 | <25 |
| Tetrachloroethene | 5.0 | 23 | 6.2 | 18 | 59 | 47 | 110 | <8.0 | 2.4 | 2.1 | 2.4 | 2.6 | 2.6 | 190 D | 1,200 J- | 860 | 1400 | 520 | 740 | 580 | 2.2 | 1,100 J- | 950 |
| Trichloroethene | 5.0 | 43 | 2.1 J | 41 | 170 D | 180 | 330 | <8.0 | 1.3 | 1.4 | 1.7 | 1.7 | 1.4 | 470 D | 1,400 | 1,300 | 2000 | 1,200 | 2,200 | 1,400 | 1.4 | 1,400 | 1,400 |
| Vinyl chloride | 2.0 | <5.0 | <5.0 | <5.0 | <1.0 | <4.0 | <4.0 | <8.0 | <1.0 | <1.0 | 0.27 J | 0.28 J | 0.2 j | <5.0 | 1.8 J | <10 | 3.6 J | <10 | <20 | <10 | <1.0 | 1.8 J | 2.1 J |
| TOTAL CVOCs | | 615.7 | 9.8 | 143.7 | 419 | 573.4 | 893.1 | ND | 5.36 | 4.6 | 7.08 | 7 | 6.29 | 819.7 | 3,024.8 | 2,544.5 | 4,159.6 | 2,376.0 | 3,504.9 | 2,775.7 | 4.8 | 2,860.9 | 2,758.5 |

Notes:

- BOLD** Indicates exceedance of groundwater standard
- * Groundwater Standards are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
- < Indicates the parameter was not detected at or above laboratory's reporting limit shown.
- NA Not Analyzed.
-

Laboratory Qualifiers:

- D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.
- J Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

Data Usability Summary Report (DUSR) Qualifiers:

- j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 1, Cont.
Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values
441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

| Well ID | Water Quality Standard* | OSMW-3 | | | | | | | | | | | | | | | | | | DUP-1 | DUP-1 |
|--|-------------------------|--------------|--------------|----------------|--------------|----------------|--------------|--------------|----------------|------------|--------------|--------------|----------------|---------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|
| | | µg/L | | | | | | | | | | | | | | | | | | µg/L | µg/L |
| Unit | µg/L | 01/10/12 | 10/16/13 | 03/24/14 | 06/19/14 | 09/24/14 | 11/05/14 | 06/24/15 | 12/17/15 | 05/12/16 | 10/12/16 | 06/13/17 | 11/14/17 | 05/16/18 | 10/18/18 | 03/28/19 | 12/04/19 | 03/09/20 | 11/18/20 | 11/05/14 | 11/14/17 |
| <i>Chlorinated Volatile Organic Compounds:</i> | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | --- | <80 | --- | <20 | --- | <50 | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | <1.0 | --- |
| 1,1,2,2-Tetrachloroethane | 5.0 | --- | --- | --- | --- | --- | --- | <10 | <20 | <2.5 | <5.0 | <0.5 | <5.0 | <1.0 | <12 | <12 | <25 | <12 | <10 | --- | --- |
| 1,1,2-Trichloroethane | 1.0 | --- | --- | --- | --- | --- | --- | <30 | <60 | <7.5 | <15 | <1.5 | <15 | <3.0 | <38 | <38 | <75 | <38 | <30 | --- | --- |
| 1,1-Dichloroethane | 5.0 | <5.0 | <80 | <1.0 | <20 | <20 | <50 | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | <1.0 | <25 |
| 1,1-Dichloroethene | 5.0 | <5.0 | <80 | <1.0 | <20 | <20 | <50 | <10 | <20 | <2.5 | <5.0 | 0.46 J | <5.0 | <1.0 | <12 | <12 | <25 | <12 | <10 | 1.4 | <5.0 |
| 1,2-Dichloroethane | 0.6 | 4.4 J | <80 | 4.7 | <20 | <20 | <50 | <10 | <20 | 3.8 | 4.2 J | 5.2 | 4.5 J,D | 1.7 | <12 | 3.9 J | <25 | <12 | 4.7 J | 3.5 | 4.3 J,D |
| cis-1,2-Dichloroethene | 5.0 | 14 | 31 J | 46 | 100 | 220 | 210 | 180 | 120 j | 92 | 63 | 40 | 39 D | 17 | 200 | 85 | 75 J | 42 J+ | 42 J | 210 D | 39 D |
| trans-1,2-Dichloroethene | 5.0 | 1.7 J | <80 | 3.7 | <20 | 28 | <50 | 25 J | <100 | 21 | 14 J | 7.4 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | 26 | 7.1 J,D |
| 1,2-Dichloropropane | 1.0 | --- | --- | --- | --- | --- | --- | <20 | <40 | <5.0 | <10 | <1.0 | <10 | <2.0 | <25 | <25 | <50 | <25 | <20 | --- | --- |
| Bromochloromethane | 5.0 | --- | --- | --- | --- | --- | --- | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | --- | --- |
| Bromodichloromethane | 50.0 | --- | --- | --- | --- | --- | --- | <10 | <20 | <2.5 | <5.0 | <0.5 | <5.0 | <1.0 | <12 | <12 | <25 | <12 | <10 | --- | --- |
| Carbon Tetrachloride | 5.0 | --- | <80 | --- | <20 | --- | <50 | <10 | <20 | <2.5 | <5.0 | <0.5 | <5.0 | <1.0 | <12 | <12 | <25 | <12 | <10 | <1.0 | --- |
| Chloroethane | 5.0 | --- | --- | --- | --- | --- | --- | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | --- | --- |
| Chloroform | 7.0 | --- | <80 | --- | <20 | --- | <50 | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | <1.0 | --- |
| Chloromethane | 5.0 | --- | --- | --- | --- | --- | --- | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | --- | --- |
| cis-1,3-Dichloropropene | 0.4 | --- | --- | --- | --- | --- | --- | <10 | <20 | <2.5 | <5.0 | <0.5 | <5.0 | <1.0 | <12 | <12 | <25 | <12 | <10 | --- | --- |
| Dibromochloromethane | 50.0 | --- | --- | --- | --- | --- | --- | <10 | <20 | <2.5 | <5.0 | <0.5 | <5.0 | <1.0 | <12 | <12 | <25 | <12 | <10 | --- | --- |
| Dichlorodifluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | <100 | <200 | <25 | <50 | <5.0 | <50 | <10 | <120 | <120 | <250 | <120 | <100 | --- | --- |
| Freon-113 | 5.0 | --- | --- | --- | --- | --- | --- | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | --- | --- |
| Methylene Chloride | 5.0 | --- | <80 | --- | <20 | --- | <50 | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | <1.0 | --- |
| Trichlorofluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | <50 | <100 | <12 | <25 | <2.5 | <25 | <5.0 | <62 | <62 | <120 | <62 | <50 | --- | --- |
| Tetrachloroethene | 5.0 | 760 D | 1,900 | 2,400 D | 1,300 | 2,600 D | 3,400 | 1,500 | 1,200 j | 670 | 470 | 620 D | 750 D | 220 J- | 3,600 | 2,900 | 4,900 | 2,300 | 2,200 | 2,900 D | 760 D |
| Trichloroethene | 5.0 | 120 | 280 | 330 D | 440 | 1,000 | 1,000 | 610 | 480 j | 290 | 230 | 170 D | 220 D | 110 | 500 | 450 | 440 | 340 | 290 | 900 D | 220 D |
| Vinyl chloride | 2.0 | <5.0 | <80 | <1.0 | <20 | <20 | <50 | <1.4 j | <40 | 0.44 J | <10 | 0.14 J | <10 | <2.0 | 8.1 J | <25 | <50 | <25 | <20 | <1.0 | <10 |
| TOTAL CVOCs | | 900.1 | 2,211 | 2,784 | 1,840 | 3,848 | 4,610 | 2,315 | 1,800 | 1,077 | 781.2 | 843.2 | 1,014 | 348.7 | 4,308.1 | 3,438.9 | 5,415.0 | 2,682.0 | 2,536.7 | 4,041 | 1,030 |

Notes:

- BOLD** Indicates exceedance of groundwater standard
- * Groundwater Standards are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
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- NA Not Analyzed.
-

Laboratory Qualifiers:

- D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.
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Data Usability Summary Report (DUSR) Qualifiers:

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- U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 1, Cont.
Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values
441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

| Well ID | Water Quality Standard* | OSMW-4 | | | | | | | | | | | | | | | | | | DUP-1 | DUP-1 | DUP-1 | DUP-1 |
|--|-------------------------|--------------|-----------|----------|-----------|------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|------------|----------|----------|
| | | µg/L | | | | | | | | | | | | | | | | | | µg/L | µg/L | µg/L | µg/L |
| Unit | µg/L | | | | | | | | | | | | | | | | | | | | | | |
| Sample Date | | 01/10/12 | 10/16/13 | 03/25/14 | 06/18/14 | 09/24/14 | 11/05/14 | 06/24/15 | 12/17/15 | 05/12/16 | 10/12/16 | 06/13/17 | 11/14/17 | 05/16/18 | 10/18/18 | 03/27/19 | 12/04/19 | 03/09/20 | 11/18/20 | 01/10/12 | 09/24/14 | 06/24/15 | 05/12/16 |
| <i>Chlorinated Volatile Organic Compounds:</i> | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | --- | <5.0 | <25 | <25 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | <1.0 | <2.5 | <2.5 |
| 1,1,2,2-Tetrachloroethane | 5.0 | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 U | --- | --- | <0.5 | <0.5 |
| 1,1,2-Trichloroethane | 1.0 | --- | --- | --- | --- | --- | --- | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <1.5 | <3.0 | <1.5 | <1.5 | <1.5 | <1.5 | 1.5 U | --- | --- | <1.5 | <1.5 |
| 1,1-Dichloroethane | 5.0 | <5.0 | <5.0 | <25 | <25 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | <5.0 | <1.0 | <2.5 | <2.5 |
| 1,1-Dichloroethene | 5.0 | <5.0 | <5.0 | <25 | <25 | <1.0 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 U | <5.0 | <1.0 | <0.50 | <0.50 |
| 1,2-Dichloroethane | 0.6 | 1.1 J | <5.0 | <25 | <25 | <1.0 | <1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 U | 1.1 J | <1.0 | <0.50 | <0.50 |
| cis-1,2-Dichloroethene | 5.0 | 29 | 3.8 J | <25 | <25 | 6.2 | 6.0 | 1.2 J | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | 4.5 | 0.72 J | <2.5 | <2.5 | 2.5 U | 29 | 5.2 | 1.2 J | <2.5 |
| trans-1,2-Dichloroethene | 5.0 | 6.9 | 1 J | <25 | <25 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | 1.3 J | <2.5 | <2.5 | <2.5 | 2.5 U | 7.2 | <1.0 | <2.5 | <2.5 |
| 1,2-Dichloropropane | 1.0 | --- | --- | --- | --- | --- | --- | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1 | <1 | <1 | 1 U | --- | --- | <1.0 | <1.0 |
| Bromochloromethane | 5.0 | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | --- | <2.5 | <2.5 |
| Bromodichloromethane | 50.0 | --- | --- | --- | --- | --- | --- | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 U | --- | --- | <0.5 | <0.5 |
| Carbon Tetrachloride | 5.0 | --- | <5.0 | <25 | <25 | <1.0 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 U | --- | <1.0 | <0.5 | <0.5 |
| Chloroethane | 5.0 | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | --- | <2.5 | <2.5 |
| Chloroform | 7.0 | --- | <5.0 | <25 | <25 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | <1.0 | <2.5 | <2.5 |
| Chloromethane | 5.0 | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | --- | <2.5 | <2.5 |
| cis-1,3-Dichloropropene | 0.4 | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 U | --- | --- | <0.5 | <0.5 |
| Dibromochloromethane | 50.0 | --- | --- | --- | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 U | --- | --- | <0.5 | <0.5 |
| Dichlorodifluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <5 | <5 | <5 | 5 U | --- | --- | <5.0 | <5.0 |
| Freon-113 | 5.0 | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | --- | <2.5 | <2.5 |
| Methylene Chloride | 5.0 | --- | <5.0 | <25 | 33 | <1.0 | <1.0 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | <1.0 | <2.5 | <2.5 |
| Trichlorofluoromethane | 5.0 | --- | --- | --- | --- | --- | --- | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <5.0 | <2.5 | <2.5 | <2.5 | <2.5 | 2.5 U | --- | --- | <2.5 | <2.5 |
| Tetrachloroethene | 5.0 | 790 D | 11 | <25 | <25 | 3.4 | 3.2 | 0.44 J | <0.50 | 0.2 Jj | 2.0 | 1.1 | 0.25 J | <1.0 J | 0.25 J | <0.5 | <0.5 | <0.5 | 0.5 U | 730 D | 3.4 | 0.48 J | 0.19 Jj |
| Trichloroethene | 5.0 | 230 D | 15 | <25 | <25 | 6.0 | 4.5 | 1.0 | 0.56 | 0.53 | 1.1 | 0.57 | <0.50 | <1.0 | 0.48 J | <0.5 | <0.5 | <0.5 | 0.39 J | 220 D | 5.5 | 1.1 | 0.58 |
| Vinyl chloride | 2.0 | <5.0 | <5.0 | <25 | <25 | <1.0 | <1.0 | <0.07 j | <1.0 | <1.0 | <1.0 | <1.0 j | <1.0 | <2.0 | 0.54 J | <1 | <1 | <1 | 1 U | <5.0 | <1.0 | <1.0 j | <1.0 |
| TOTAL CVOCs | | 1,057 | 30.8 | ND | 33 | 15.6 | 13.7 | 2.6 | 0.56 | 0.73 | 3.1 | 1.67 | 0.25 | ND | 7.07 | 0.72 | ND | ND | 0.39 | 987 | 14.1 | 2.78 | 0.77 |

Notes:

- BOLD** Indicates exceedance of groundwater standard
- * Groundwater Standards are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
- < Indicates the parameter was not detected at or above laboratory's reporting limit shown.
- ND Not Detected.
-

Laboratory Qualifiers:

- D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.
- J Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

Data Usability Summary Report (DUSR) Qualifiers:

- j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 1, Cont.
Summary of Groundwater Analytical Data Results to Title 6 Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Guidance Values
441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

| Well ID | Water Quality Standard* | OSMW-1 | | OSMW-2 | | DUP-1 |
|--|-------------------------|----------|----------|----------|----------|----------|
| | | µg/L | | µg/L | | |
| Unit | µg/L | | | | | |
| Sample Date | | 01/10/12 | 03/28/19 | 01/10/12 | 03/28/19 | 03/28/19 |
| Chlorinated Volatile Organic Compounds: | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | <5 | <2.5 | <5 | <2.5 | <2.5 |
| 1,1,2,2-Tetrachloroethane | 5.0 | NA | <0.5 | NA | <0.5 | <0.5 |
| 1,1,2-Trichloroethane | 1.0 | NA | <1.5 | NA | <1.5 | <1.5 |
| 1,1-Dichloroethane | 5.0 | <5 | <2.5 | <5 | <2.5 | <2.5 |
| 1,1-Dichloroethene | 5.0 | <5 | <0.5 | <5 | <0.5 | <0.5 |
| 1,2-Dichloroethane | 0.6 | <5 | <0.5 | <5 | <0.5 | <0.5 |
| cis-1,2-Dichloroethene | 5.0 | <5 | <2.5 | 1.1 J | <2.5 | <2.5 |
| trans-1,2-Dichloroethene | 5.0 | <5 | <2.5 | <5 | <2.5 | <2.5 |
| 1,2-Dichloropropane | 1.0 | NA | 0.27 J | NA | <1 | <1 |
| Bromochloromethane | 5.0 | NA | <2.5 | NA | <2.5 | <2.5 |
| Bromodichloromethane | 50.0 | NA | <0.5 | NA | <0.5 | <0.5 |
| Carbon Tetrachloride | 5.0 | <5 | <0.5 | <5 | <0.5 | <0.5 |
| Chloroethane | 5.0 | NA | <2.5 | NA | <2.5 | <2.5 |
| Chloroform | 7.0 | <5 | <2.5 | <5 | <2.5 | <2.5 |
| Chloromethane | 5.0 | NA | <2.5 | NA | <2.5 | <2.5 |
| cis-1,3-Dichloropropene | 0.4 | NA | <0.5 | NA | <0.5 | <0.5 |
| Dibromochloromethane | 50.0 | NA | <0.5 | NA | <0.5 | <0.5 |
| Dichlorodifluoromethane | 5.0 | NA | <5 | NA | <5 | <5 |
| Freon-113 | 5.0 | NA | <2.5 | NA | <2.5 | <2.5 |
| Methylene Chloride | 5.0 | <5 | <2.5 | <5 | <2.5 | <2.5 |
| Trichlorofluoromethane | 5.0 | NA | <2.5 | NA | <2.5 | <2.5 |
| Tetrachloroethene | 5.0 | <5 | <0.5 | <5 | <0.5 | <0.5 |
| Trichloroethene | 5.0 | <5 | <0.5 | <5 | <0.5 | <0.5 |
| Vinyl chloride | 2.0 | <5 | <1 | <5 | <1 | <1 |
| TOTAL CVOCs | | 0 | 0.27 | 1.1 J | 0 | 0 |

Notes:

BOLD Indicates exceedance of groundwater standard

* Groundwater Standards are obtained from Title 6 Part 703.5 and *Guidance Values* (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".

< Indicates the parameter was not detected at or above laboratory's reporting limit shown.

NA Not Analyzed.

--- No standard or not applicable.

Laboratory Qualifiers:

D Indicates the undiluted analysis exceeded the equipment calibration range. The concentration shown is obtained from a diluted analysis.

J Indicates the concentration shown is an estimated value because the compound was detected below the reporting limit.

Data Usability Summary Report (DUSR) Qualifiers:

j Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

U Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.

J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.

J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.

UJ The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 1-A

Summary of Groundwater Analytical Results (11/18/2020)
441 and 442 Waverly Avenue
Emerging Contaminants - Per and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane

| ANALYTE | NYSDEC-PFAS | GZ-21D | GZ-22D | DUP1182020 | GZ-23D | B6-OWD | OSMW-3 | OSMW-4 | EB11182020 |
|---|-------------|--------|-------------|-------------|---------------|--------|-------------|--------|------------|
| 1,4 Dioxane, µg/L | | | | | | | | | |
| 1,4-Dioxane | 1.0* | NS | 3.18 | 3.27 | 0.407 | NS | 2.59 | NS | NS |
| Per and Polyfluoroalkyl Substances (PFAS), ng/L | | | | | | | | | |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 100 | NS | <1.9 UJ | <1.8 UJ | <1.84 UJ | NS | <1.88 UJ | NS | <1.8 |
| Perfluorobutanesulfonic Acid (PFBS) | 100 | NS | 1.89 J | 1.77 J | 3.09 | NS | 1.97 | NS | <1.8 |
| Perfluorobutanoic Acid (PFBA) | 100 | NS | 3.8 | 3.65 | 10 | NS | 5.32 | NS | <1.8 |
| Perfluorodecanesulfonic Acid (PFDS) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| Perfluorodecanoic Acid (PFDA) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| Perfluorododecanoic Acid (PFDoA) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| Perfluoroheptanoic Acid (PFHpA) | 100 | NS | 1.78 J | 1.7 J | 6.82 | NS | 2.72 | NS | <1.8 |
| Perfluorohexanesulfonic Acid (PFHxS) | 100 | NS | 9.63 | 9.42 | 2.86 | NS | 3.54 | NS | <1.8 |
| Perfluorohexanoic Acid (PFHxA) | 100 | NS | 2.57 F | 2.46 | 18.2 | NS | 4.04 | NS | <1.8 |
| Perfluorononanoic Acid (PFNA) | 100 | NS | 0.57 J | 0.479 J | 1.63 J | NS | 0.747 J | NS | <1.8 |
| Perfluorooctanesulfonamide (FOSA) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| Perfluorooctanesulfonic Acid (PFOS) | 10 | NS | 8.68 F | 8.93 F | 29.7 F | NS | 6.9 F | NS | <1.8 |
| Perfluorooctanoic Acid (PFOA) | 10 | NS | 6.26 F | 6.31 F | 8.18 F | NS | 8.3 F | NS | <1.8 |
| Perfluoropentanoic Acid (PFPeA) | 100 | NS | 4.33 | 3.9 | 33 | NS | 7.57 | NS | <1.8 |
| Perfluorotetradecanoic Acid (PFTA) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| Perfluorotridecanoic Acid (PFTrDA) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| Perfluoroundecanoic Acid (PFUnA) | 100 | NS | <1.9 | <1.8 | <1.84 | NS | <1.88 | NS | <1.8 |
| PFAS, Total | 500 | NS | 39.51 | 38.619 | 113.48 | NS | 41.107 | NS | ND |

Notes:

NYSDEC-PFAS : NYSDEC: Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), October 2020 .

* = USEPA Maximum Contaminant Level (MCL) for 1,4 Dioxane in drinking water (1.0 µg/L).

Bold = Value indicates reported concentration exceeds applicable water quality standards.

< = Analyte was not detected at or above the laboratory reporting limit.

J = Result is less than the reporting limit but greater than or equal to the laboratory reporting limit and the concentration is approximate.

F = The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

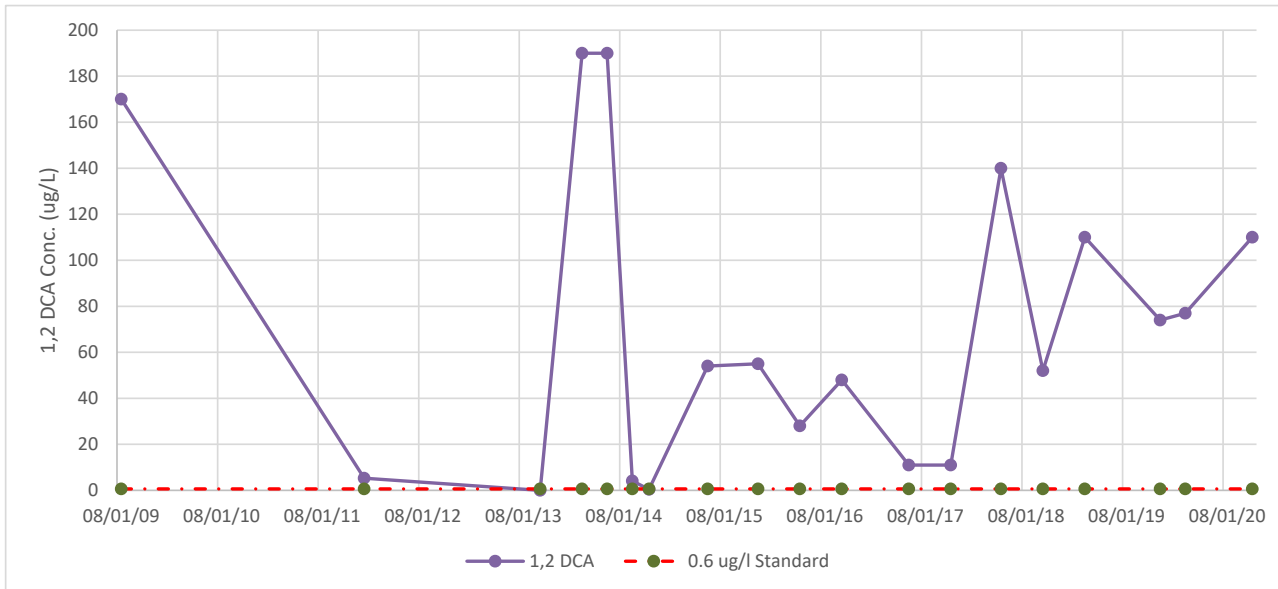
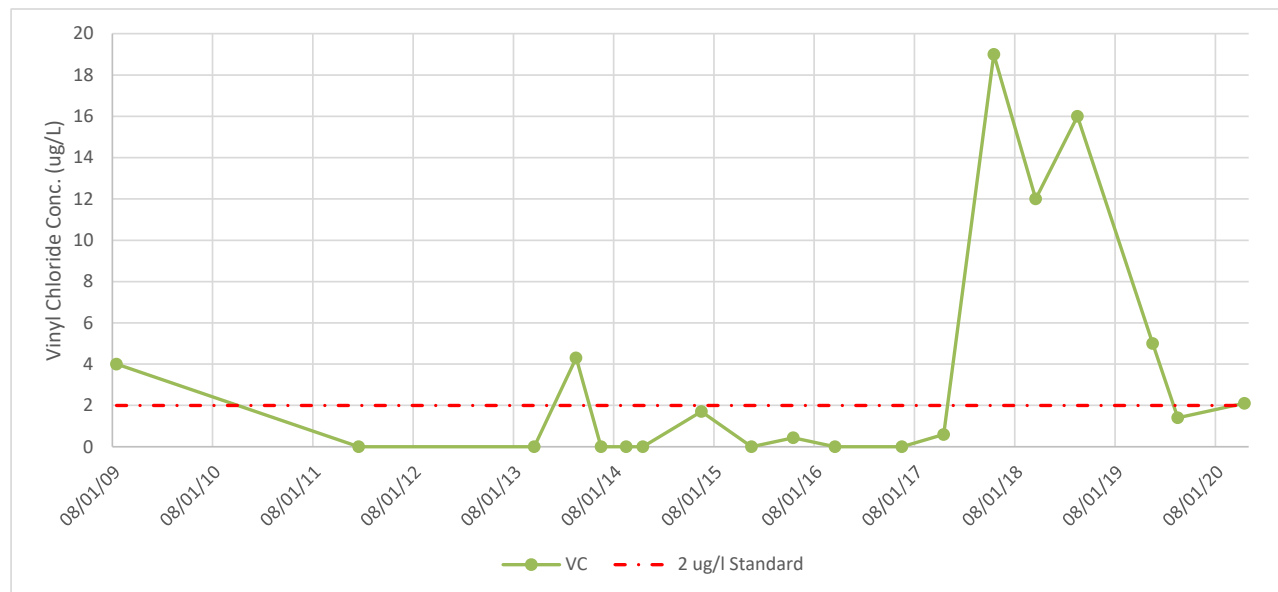
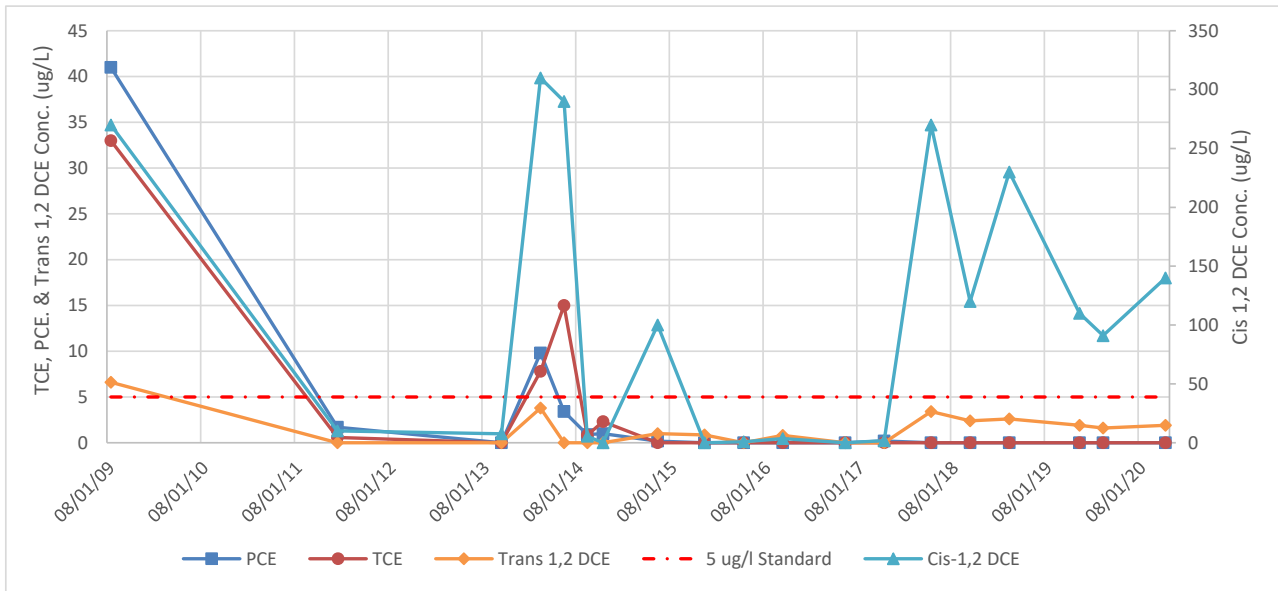
UJ = The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.

ND = Not Detected

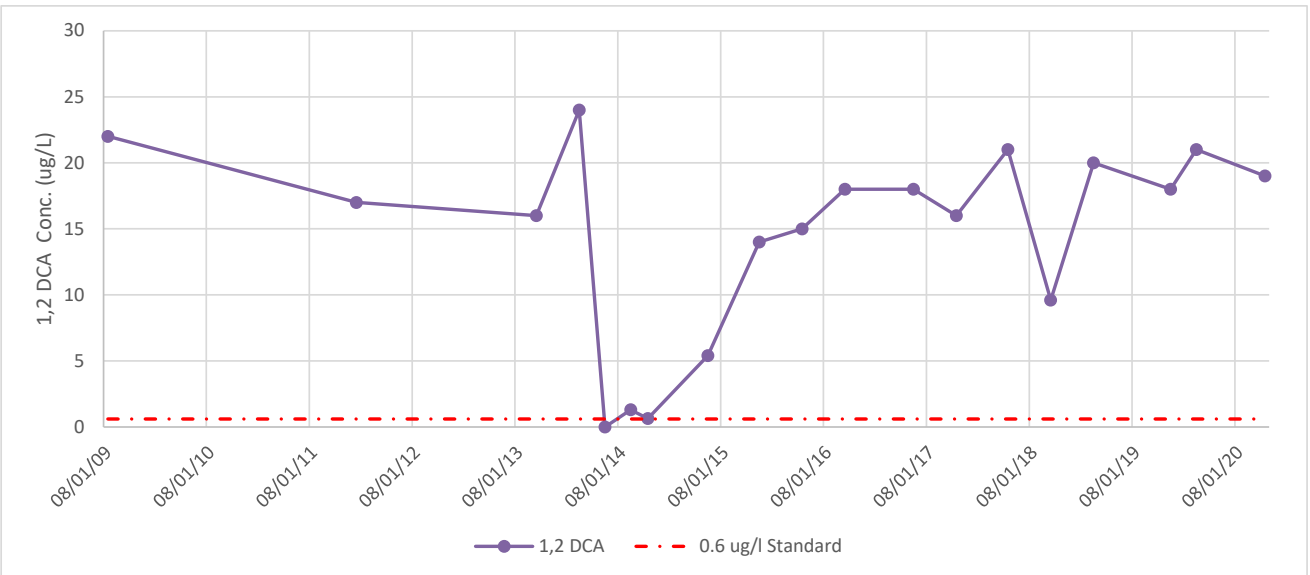
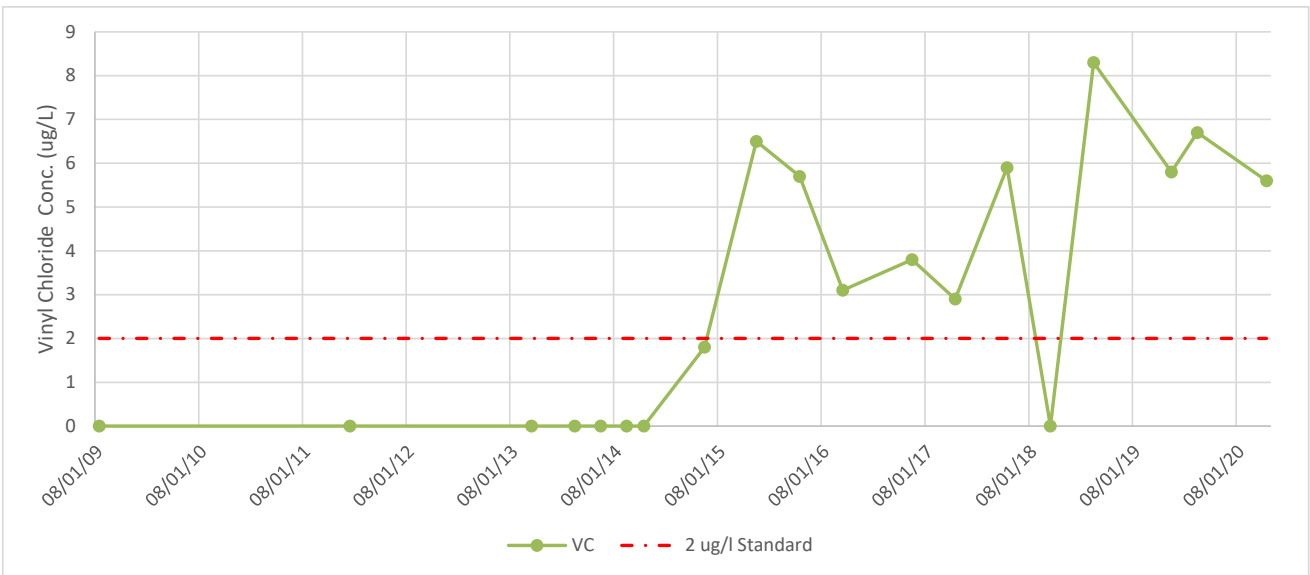
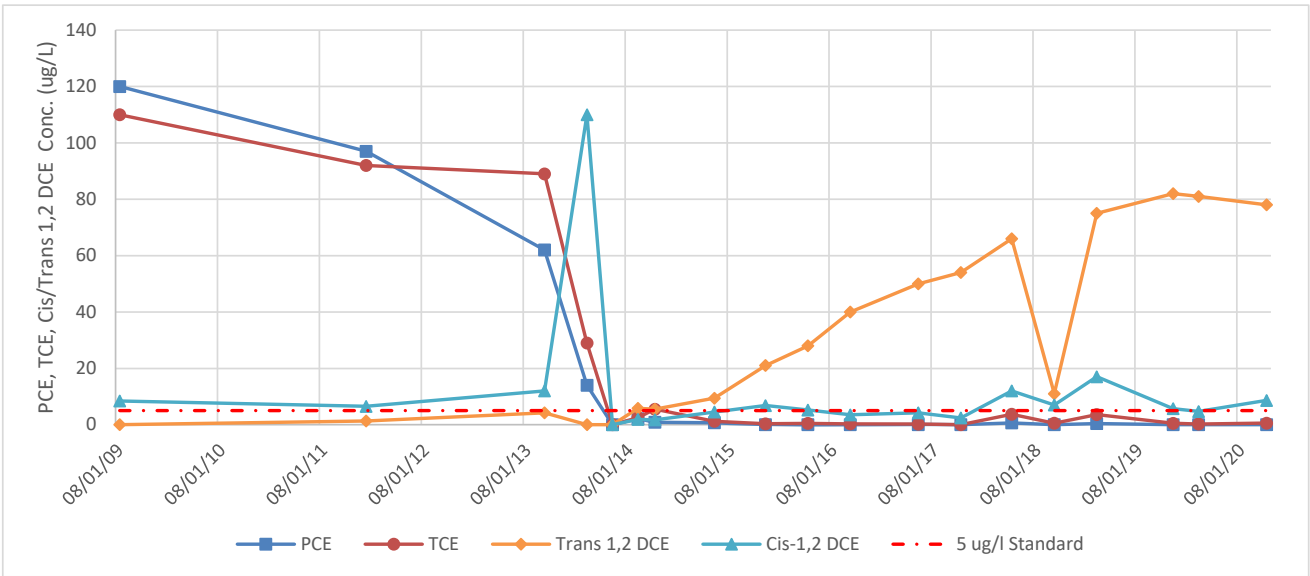
NS = Not Sampled.

DATA TREND GRAPHS

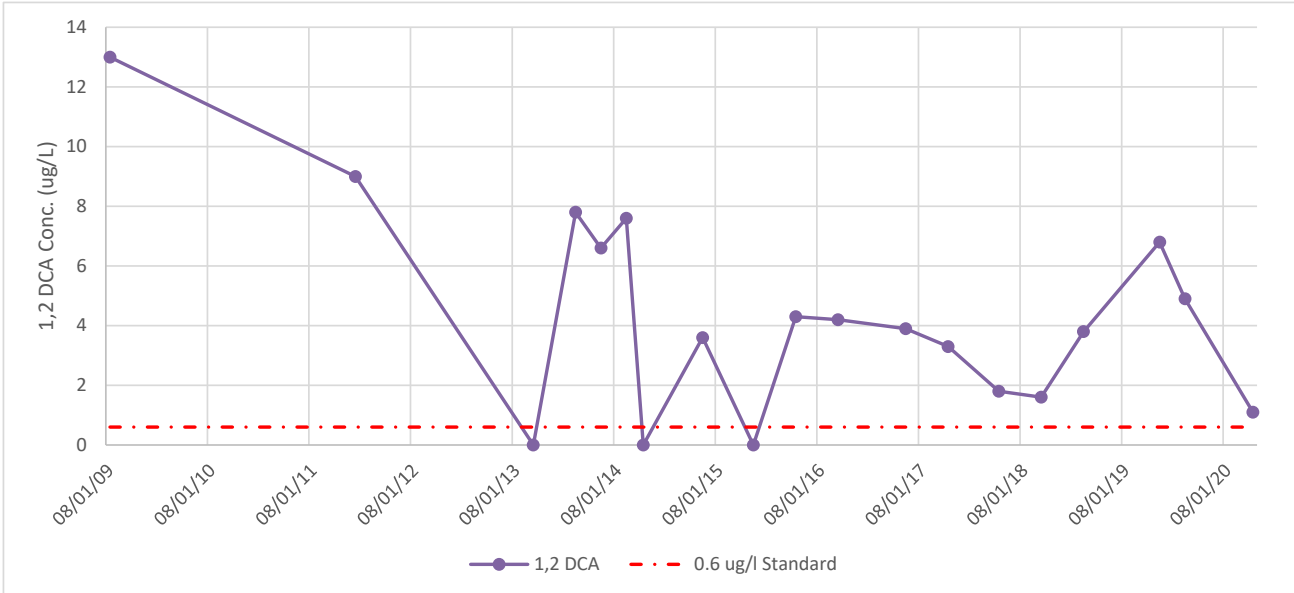
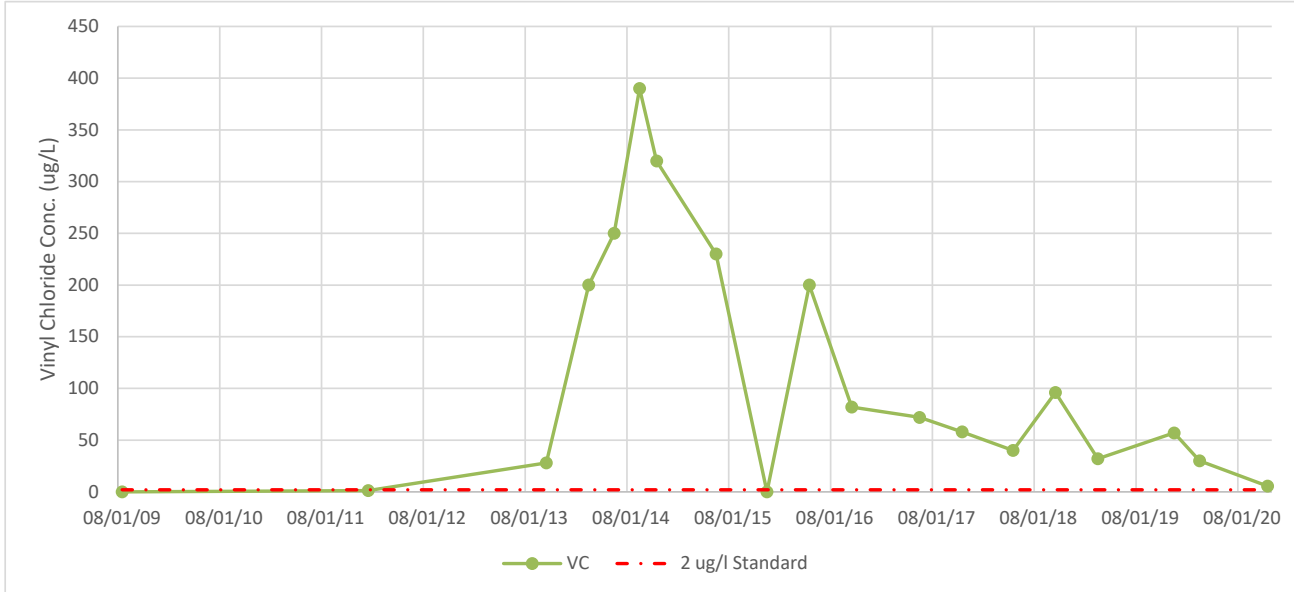
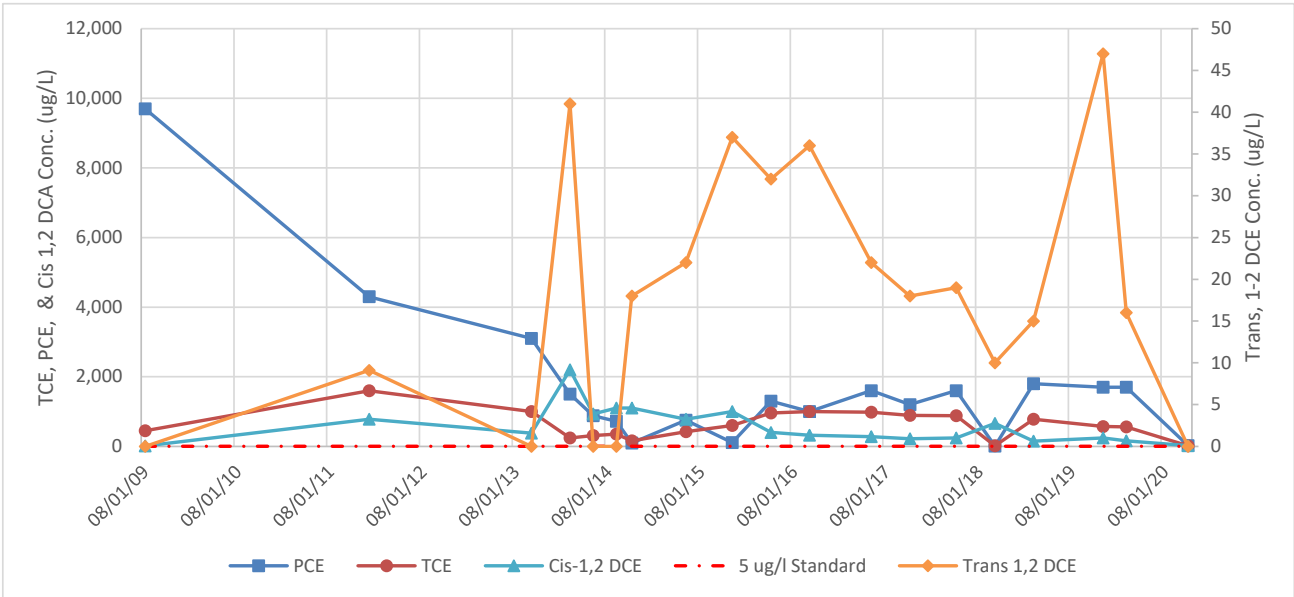
**Groundwater Quality Trends
Monitoring Well GZ-21D
441 and 442 Waverly Avenue**



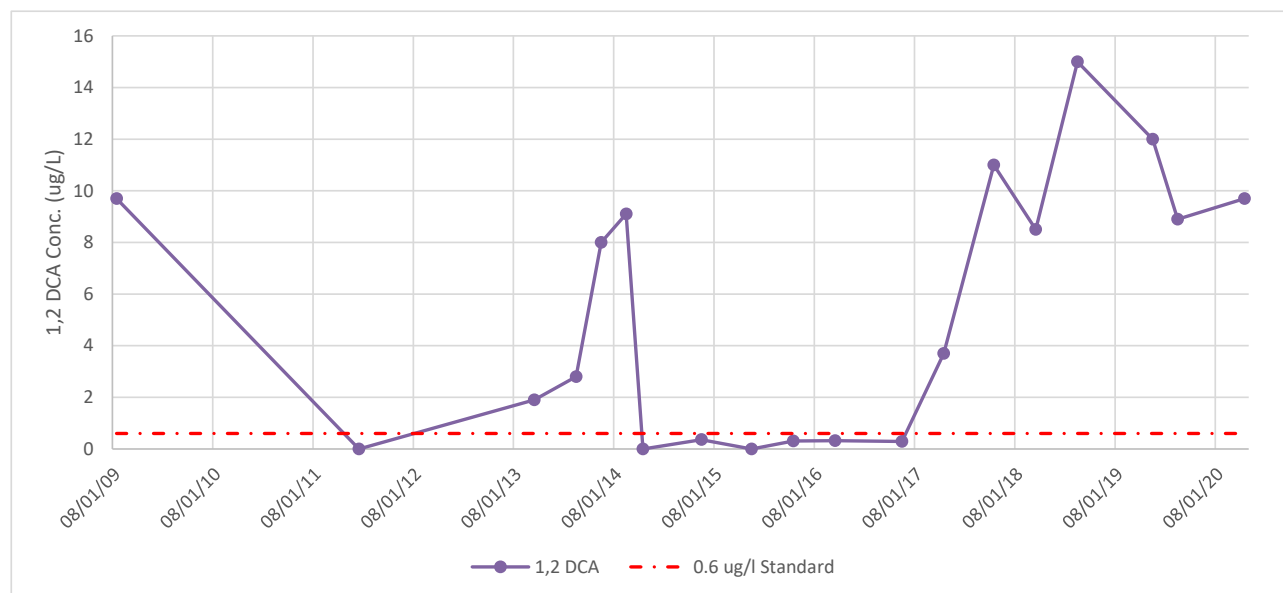
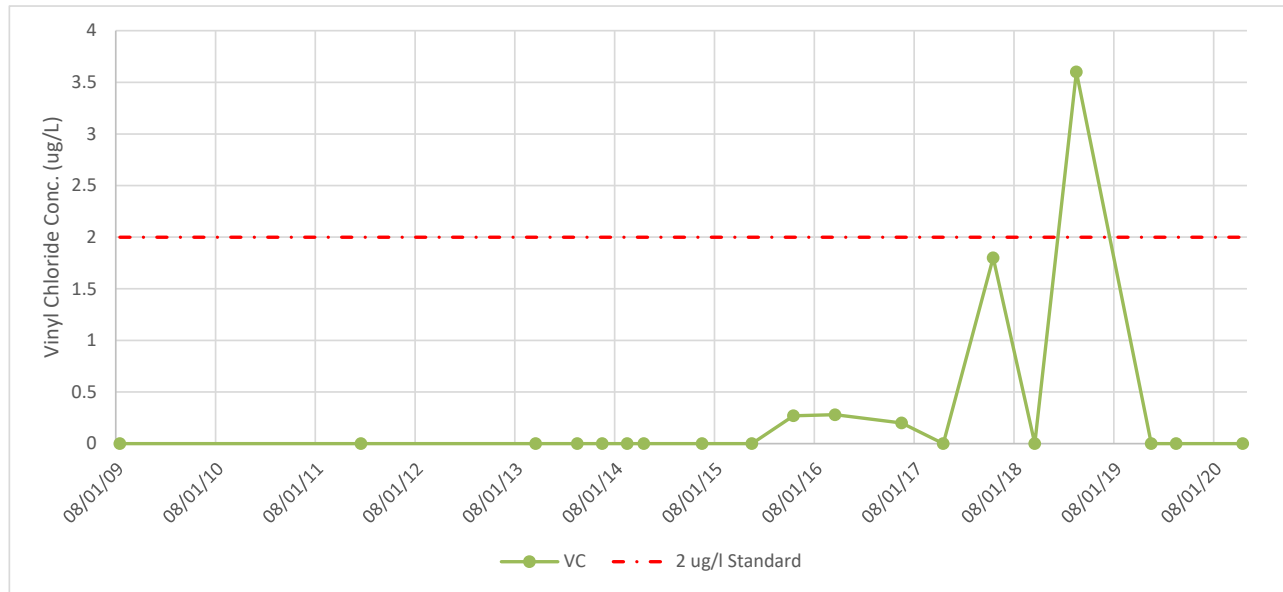
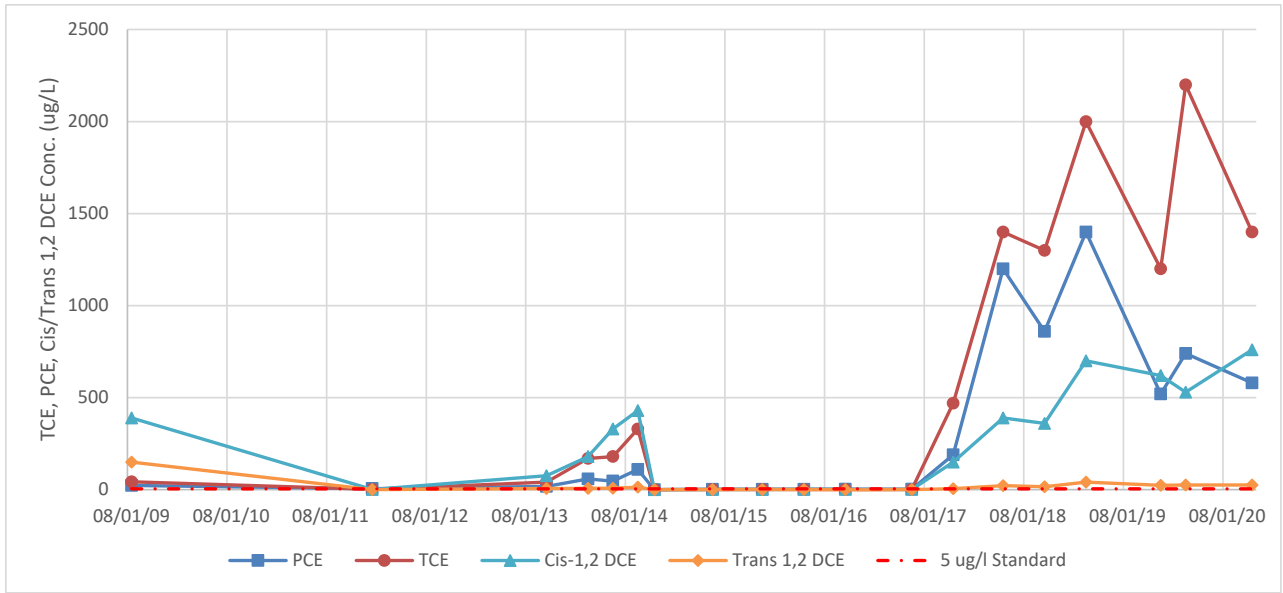
**Groundwater Quality Trends
Monitoring Well GZ-22D
441 and 442 Waverly Avenue**



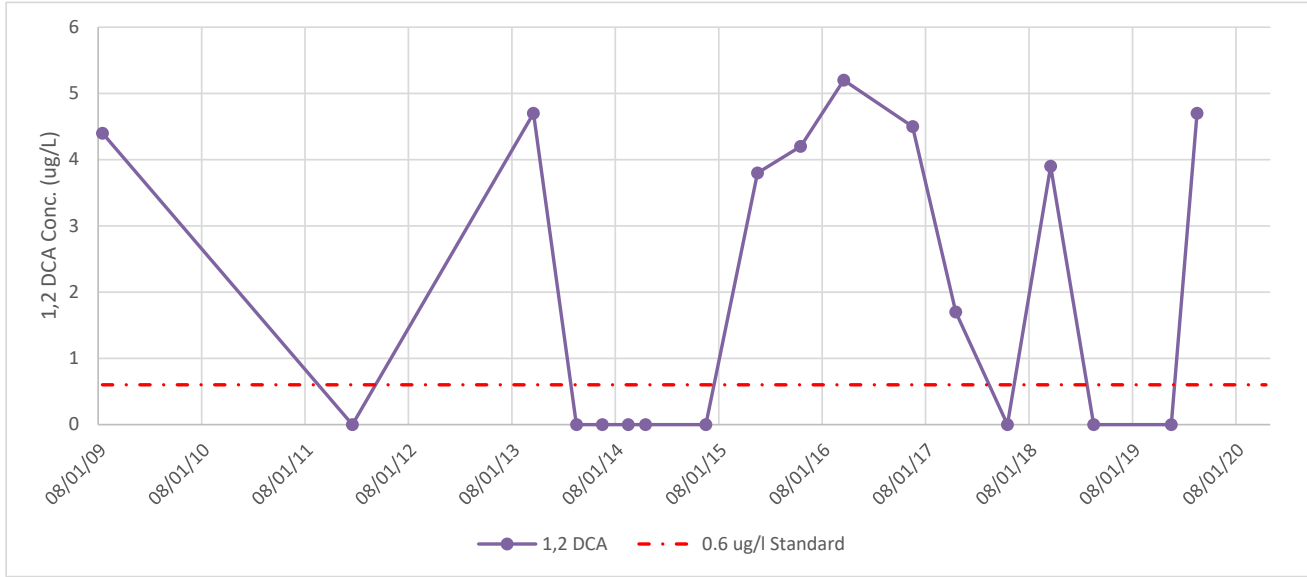
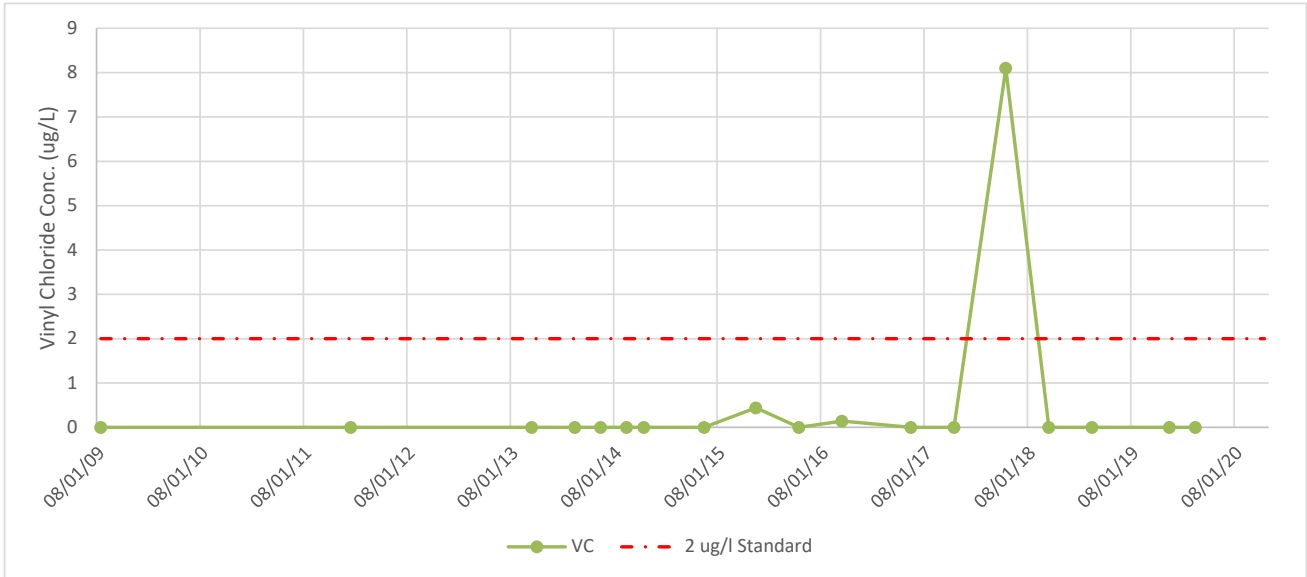
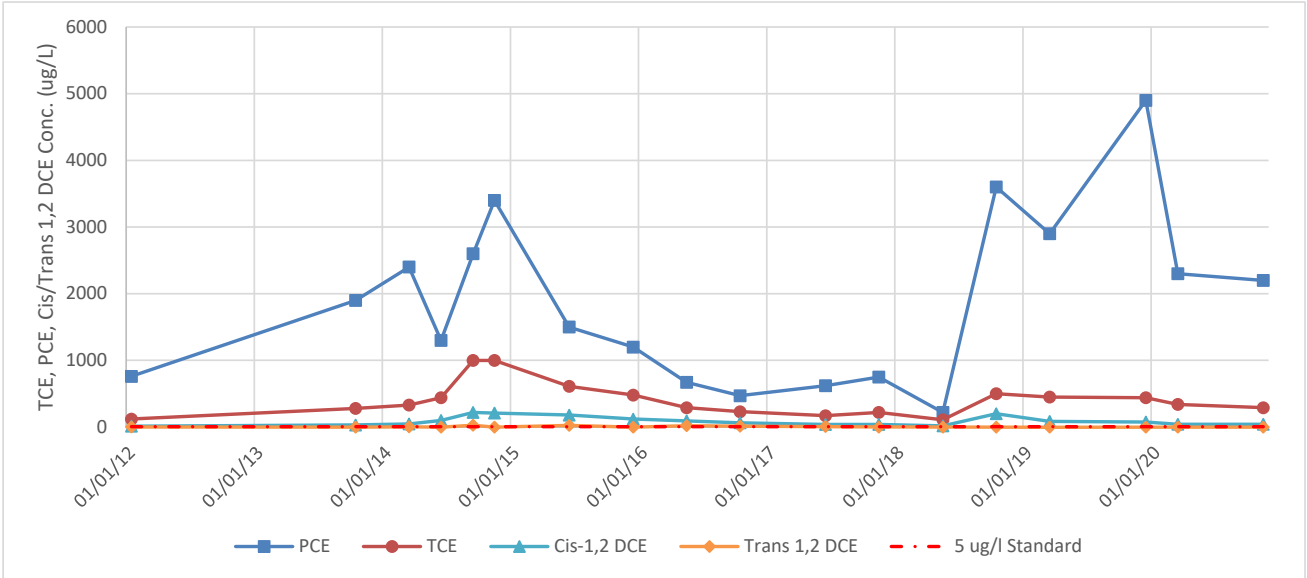
**Groundwater Quality Trends
Monitoring Well GZ-23D
441 and 442 Waverly Avenue**



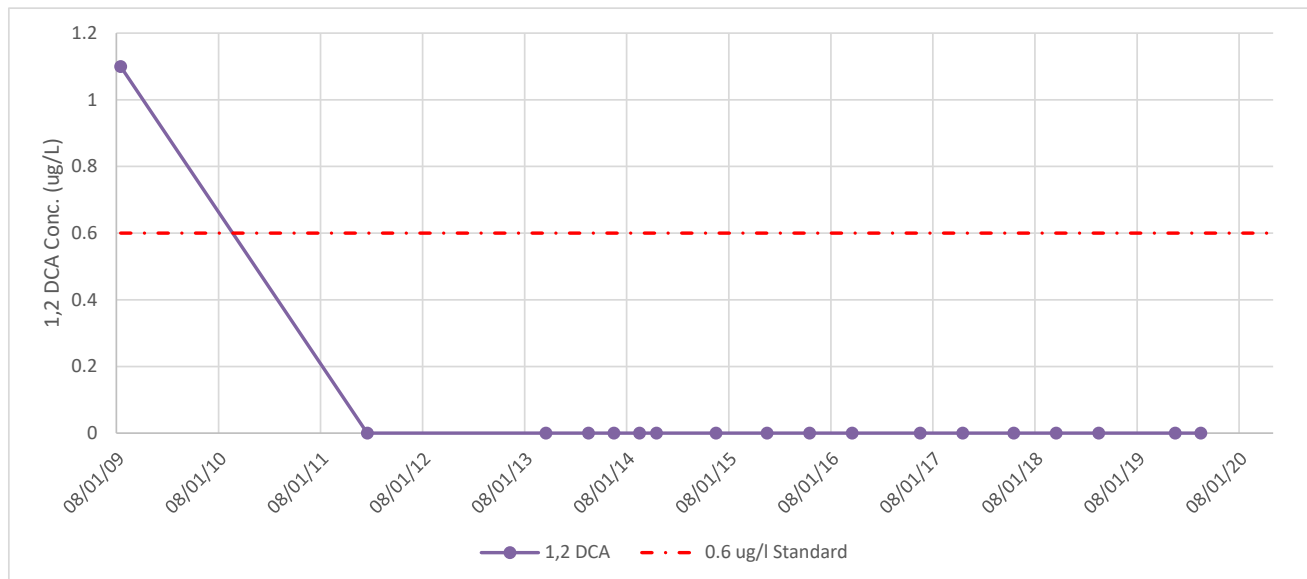
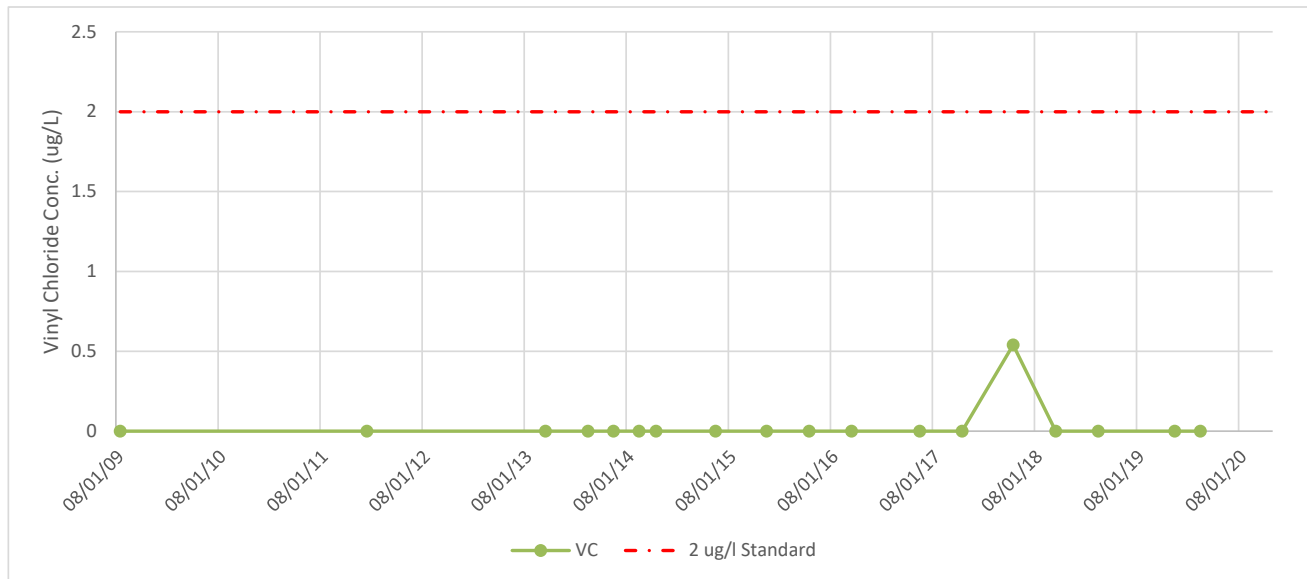
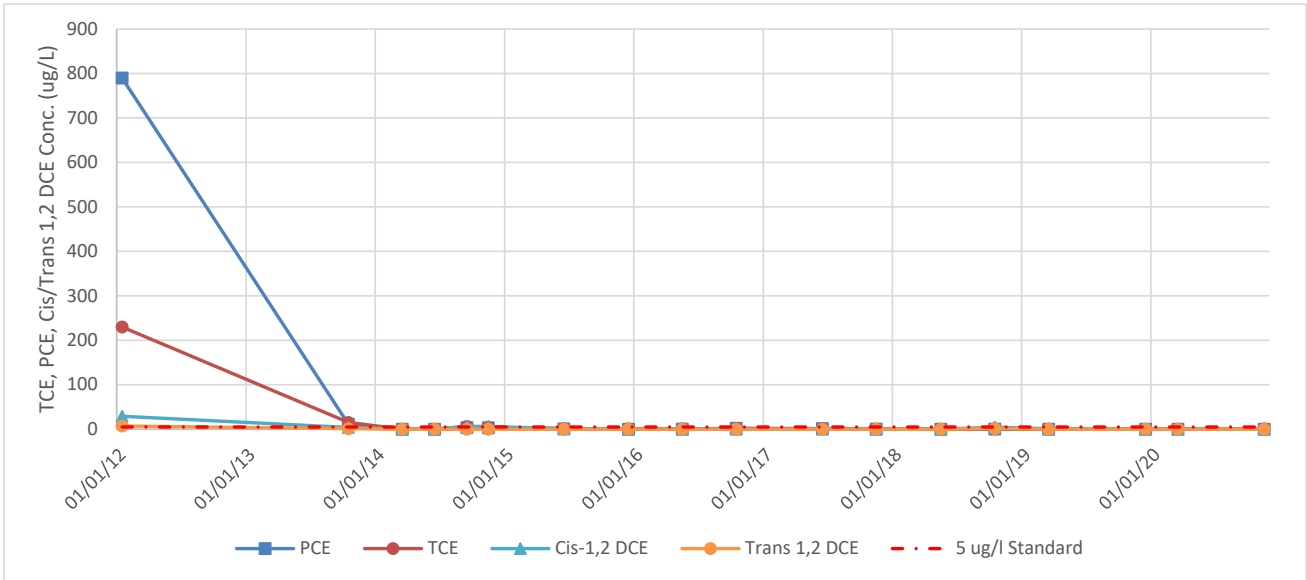
**Groundwater Quality Trends
Monitoring Well B6-OWD
441 and 442 Waverly Avenue**



**Groundwater Quality Trends
Monitoring Well OSMW-3
441 and 442 Waverly Avenue**



**Groundwater Quality Trends
Monitoring Well OSMW-4
441 and 442 Waverly Avenue**



DAILY FIELD REPORT

STERLING

Sterling Environmental Engineering, P.C.

DAILY FIELD REPORT

Project Name: 441 & 442 Waverly Avenue Project No: 28012
 Client Name: TJ Milo Date: 11/18/2020
 Location: Mamaroneck, NY Personnel: PWS - Paul Scheler
 Weather: 34°F Sunny

Work Description:930 - PWS onsite, Drop off Purge Drum (1 Filled, ~~1 empty~~)

940 - Collect Depth to Water at all Wells

1030 - Setup at OSMW-4

1110 - Sample OSMW-4

1125 - Collect EB1182020 (Equipment Blank) - Bladder, Rope, Bailor, Tubing

1220 - Sample A: GZ-22D

1235 - Sample GZ-22DMS

1230 - Sample GZ-22DMSD

1355 - Sample GZ-21D - Site Inspection of Building

1500 - Sample GZ-23D

1545 - Sample BZ-OSMW-3, Site Insp. Parking Lot

1625 - Sample B6-OWD, Site Insp. Parking Lot

1630 - Site Cleanup - Mark Drums (1 Filled; 1 = 10 gallons)

1715 - PWS offsite

1945 - Samples Relinquished to Alpha Albany NY

Signature: 

441/442 Waverly Avenue –Semiannual Groundwater Sampling Event

Name: Paul Scholar

Date: 11/18/2020

Event: 1st / 2nd

| Well I.D. | Total Well Depth (feet below measuring point) | Measuring Point Elevation (to inner riser mark from datum) | Depth to Water (feet below measuring point) | Ground Water Elevation | Color | Odor | Sheen |
|------------------|---|--|---|-------------------------------|-------------------|--------------|--------------|
| OSMW-4 | 35.62 | 31.27 | 9.28 | 21.99 | Light Gray | Sweet | None |
| GZ-21D | 44.21 | 29.79 | 8.06 | 21.73 | Clear | None | None |
| GZ-22D | 46.04 | 30.87 | 9.25 | 21.62 | Clear | None | None |
| B6-OWD | 35.30 | 30.15 | 8.62 | 21.53 | Clear | None | None |
| OSMW-3 | 39.40 | 30.88 | 9.00 | 21.88 | Light Gray | None | None |
| GZ-23D* | 44.86 | 31.41 | 9.98 | 21.74 | Clear | Sweet | None |
| OSMW-1 | 36.24 | 31.05 | 8.92 | 22.13 | NA | NA | NA |
| OSMW-2 | 40.84 | 31.29 | 9.18 | 22.11 | NA | NA | NA |

*Adjusted +0.31 to Ground Water Elevation at Well GZ-23 to account for 30° bend in monitoring well.

PURGING/SAMPLING DATA SHEETS

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 11-18-2020
 Sampling Personnel: PWS
 Sampling Device: Bailer
 Static Water Level: 9.28
 Measuring Point: Top of PVC
 Total Volume Purged: 3 gallons

Well No.: OSMW-4
 Sample Time: 1110
 Well Depth: 35.62'
 Well Diameter: 1"
 Screen Length: 10'
 Casing Type: Steel
 Tubing Type: -
 Other Info: -

| Time | Pump Rate (L/min.) | Depth to Water (ft.) | Drawdown (<1m) | pH (± 0.1) | Temp. (°C) (± 3%) | SC (mS/cm) (± 3%) | ORP (mV) (± 10) | DO (mg/L) (± 10%) | Turbidity (nTu)(± 10%) |
|------|--------------------|----------------------|----------------|------------|-------------------|-------------------|-----------------|-------------------|------------------------|
| 1055 | - | 9.28 | - | 6.76 | 14.8 | 1.301 | 1.8 | 5.10 | 209.19 |
| 1100 | - | - | - | 6.92 | 15.3 | 1.343 | -61.2 | 5.13 | 473.28 |
| 1110 | - | - | - | 7.00 | 15.0 | 1.310 | -73.7 | 4.83 | 254.08 |
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Notes: Lt Gray Color, Sweet Odor, No Sheen

Types of Samples Collected: VOCs

Sampled at 1110

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., Vol_{cyl} = π r²h, 1 ft³ = 7.48 gal./28.31L

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 11-18-2020
 Sampling Personnel: PWS
 Sampling Device: Bladder Pump
 Static Water Level: 9.25
 Measuring Point: Top of PVC
 Total Volume Purged: _____

Well No.: GZ-22D
 Sample Time: 1220
 Well Depth: 46.0'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: Steel
 Tubing Type: HDPE
 Other Info: -

| Time | Pump Rate (L/min.) | Depth to Water (ft.) | Drawdown (<1m) | pH (± 0.1) | Temp. (°C) (± 3%) | SC (mS/cm) (± 3%) | ORP (mV) (± 10) | DO (mg/L) (± 10%) | Turbidity (nTu) (± 10%) |
|------|--------------------|----------------------|----------------|------------|-------------------|-------------------|-----------------|-------------------|-------------------------|
| 1155 | 0.200 | 9.25 | - | 7.09 | 12.1 | 0.820 | 22.5 | 4.77 | 22.67 |
| 1200 | 0.200 | 9.30 | 0.05 | 7.13 | 12.7 | 0.824 | -40.0 | 3.35 | 48.42 |
| 1205 | 0.200 | 9.30 | 0.00 | 7.16 | 12.9 | 0.844 | -80.4 | 2.23 | 86.38 |
| 1210 | 0.200 | 9.30 | 0.00 | 7.18 | 12.9 | 0.859 | -103.2 | 1.43 | 68.76 |
| 1215 | 0.200 | 9.30 | 0.00 | 7.19 | 12.9 | 0.863 | -105.7 | 1.30 | 63.86 |
| 1220 | 0.200 | 9.30 | 0.00 | 7.19 | 12.9 | 0.866 | -109.2 | 1.25 | 62.14 |
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Notes: Clear, No Odor, No Sleep
GZ-22D 1155 ~ 1225
GZ-22D 1257 ~ 1230
Duplicate 1220 ~

Types of Samples Collected: VOCs PFAS 1,4-Dioxane sampled at 1220

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., Vol_{cyl} = π r²h, 1 ft³ = 7.48 gal./28.31L

EB182020 at 1125

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 11-18-2020
 Sampling Personnel: PWS
 Sampling Device: Bladder Pump
 Static Water Level: 8.06
 Measuring Point: Top of PVC
 Total Volume Purged: _____

Well No.: GZ-21D
 Sample Time: 1355
 Well Depth: 44.21'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: Steel
 Tubing Type: HDPE
 Other Info: -

| Time | Pump Rate (L/min.) | Depth to Water (ft.) | Drawdown (<1m) | pH (± 0.1) | Temp. (°C) (± 3%) | SC (mS/cm) (± 3%) | ORP (mV) (± 10) | DO (mg/L) (± 10%) | Turbidity (nTu)(± 10%) |
|------|--------------------|----------------------|----------------|------------|-------------------|-------------------|-----------------|-------------------|------------------------|
| 1330 | 0.200 | 8.06 | - | 7.10 | 13.8 | 1.817 | -32.1 | 4.77 | 47.77 |
| 1335 | 0.200 | 8.29 | 0.23 | 7.14 | 14.5 | 1.993 | 17.3 | 1.97 | 54.62 |
| 1340 | 0.200 | 8.30 | 0.02 | 7.24 | 14.3 | 2.004 | 24.7 | 1.57 | 70.31 |
| 1345 | 0.200 | 8.30 | 0.00 | 7.15 | 14.5 | 2.001 | 32.2 | 1.27 | 69.22 |
| 1350 | 0.200 | 8.30 | 0.00 | 7.15 | 14.2 | 2.012 | 36.5 | 1.12 | 97.45 |
| 1355 | 0.200 | 8.30 | 0.00 | 7.15 | 14.2 | 2.014 | 37.5 | 1.06 | 91.83 |
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Notes: Clear, No Odors, No Sheen

Types of Samples Collected: VOCs

Sampled at 1355

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., Vol_{cyl} = π r²h, 1 ft³ = 7.48 gal./28.31L

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 11-18-2020
 Sampling Personnel: PWS
 Sampling Device: Waterra
 Static Water Level: 9.98
 Measuring Point: Top of PVC
 Total Volume Purged: _____

Well No.: GZ-23D
 Sample Time: 1500
 Well Depth: 44.86'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: Steel
 Tubing Type: HDPE
 Other Info: Bends in Well

| Time | Pump Rate (L/min.) | Depth to Water (ft.) | Drawdown (<1m) | pH (± 0.1) | Temp. (°C) (± 3%) | SC (mS/cm) (± 3%) | ORP (mV) (± 10) | DO (mg/L) (± 10%) | Turbidity (nTu)(± 10%) |
|------|--------------------|----------------------|----------------|------------|-------------------|-------------------|-----------------|-------------------|------------------------|
| 1430 | 0.200 | 9.98 | - | 6.59 | 16.2 | 0.634 | -39.7 | 0.86 | 553.05 |
| 1435 | 0.200 | 10.02 | 0.04 | 6.52 | 16.1 | 0.633 | -41.6 | 0.74 | 249.04 |
| 1440 | 0.200 | 10.03 | 0.01 | 6.50 | 15.9 | 0.633 | -35.9 | 0.69 | 176.87 |
| 1445 | 0.200 | 10.03 | 0.00 | 6.45 | 15.9 | 0.587 | -21.9 | 0.68 | 162.93 |
| 1450 | 0.200 | 10.03 | 0.00 | 6.47 | 15.8 | 0.623 | -25.4 | 0.76 | 126.17 |
| 1455 | 0.200 | 10.03 | 0.00 | 6.48 | 15.9 | 0.624 | -28.5 | 0.71 | 109.93 |
| 1500 | 0.200 | 10.03 | 0.00 | 6.48 | 15.9 | 0.626 | -28.4 | 0.69 | 78.87 |
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Notes: Clear, sweet smell, No ~~Other~~ Sheen

Types of Samples Collected: VOCs, 1,4 Dioxane, PFAS

Sampled at 1500

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., Vol_{cyl} = π r²h, 1 ft³ = 7.48 gal./28.31L

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 11-18-2020
 Sampling Personnel: PWS
 Sampling Device: Bailer
 Static Water Level: 9.00
 Measuring Point: Top of PVC
 Total Volume Purged: 4.8 gallons

Well No.: OSMW-3
 Sample Time: 1545
 Well Depth: 39.40'
 Well Diameter: 1"
 Screen Length: _____
 Casing Type: Steel
 Tubing Type: HDPE
 Other Info: -

| Time | Pump Rate (L/min.) | Depth to Water (ft.) | Drawdown (<1m) | pH (± 0.1) | Temp. (°C) (± 3%) | SC (mS/cm) (± 3%) | ORP (mV) (± 10) | DO (mg/L) (± 10%) | Turbidity (nTu) (± 10%) |
|------|--------------------|----------------------|----------------|------------|-------------------|-------------------|-----------------|-------------------|-------------------------|
| 1530 | - | 9.00 | - | 7.08 | 14.9 | 0.826 | -35.8 | 4.70 | 149.85 |
| 1538 | - | - | - | 7.08 | 14.8 | 0.827 | -34.6 | 5.91 | 129.72 |
| 1545 | - | - | - | 7.08 | 14.9 | 0.826 | -36.2 | 4.51 | 120.88 |
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Notes: Clear to Gray, No odor, No Sheen

Types of Samples Collected: VOCs, PFAS, 1,2,4-Dioxane

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., Vol_{cyl} = π r²h, 1 ft³ = 7.48 gal./28.31L

Sampled at 1545

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 11-18-2020
 Sampling Personnel: PWS
 Sampling Device: Peristaltic Pump
 Static Water Level: 8.62
 Measuring Point: Top of PVC
 Total Volume Purged: 6L

Well No.: B6-OWD
 Sample Time: 1625
 Well Depth: 36.05'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: ~~PVC~~ Steel
 Tubing Type: HDPE
 Other Info: -

| Time | Pump Rate (L/min.) | Depth to Water (ft.) | Drawdown (<1m) | pH (± 0.1) | Temp. (°C) (± 3%) | SC (mS/cm) (± 3%) | ORP (mV) (± 10) | DO (mg/L) (± 10%) | Turbidity (nTu) (± 10%) |
|------|--------------------|----------------------|-----------------|------------|-------------------|-------------------|-----------------|-------------------|-------------------------|
| 1600 | 0.200 | 8.62 | 0.35 | 7.46 | 12.2 | 1.507 | 74.0 | 6.82 | 11.12 |
| 1605 | 0.200 | 9.01 | 0.37 | 7.11 | 14.3 | 1.673 | 67.8 | 1.78 | 22.11 |
| 1610 | 0.200 | 9.18 | 0.17 | 7.16 | 14.2 | 1.691 | 66.1 | 1.42 | 338.78 * |
| 1615 | 0.200 | 9.18 | 0.00 | 7.16 | 13.8 | 1.705 | 63.5 | 1.02 | 40.99 |
| 1620 | 0.200 | 9.18 | 0.00 | 7.17 | 13.6 | 1.713 | 62.6 | 0.99 | 51.89 |
| 1625 | 0.200 | 9.18 | 0.00 | 7.17 | 13.6 | 1.710 | 61.4 | 0.82 | 62.9P |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Notes: Clear, No Odor, No Shown
 * YSI Possible Error Shock YSI and turbidity > 50 nTu

Types of Samples Collected: VOCs Sampled at 1625

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., Vol_{cyl} = π r²h, 1 ft³ = 7.48 gal./28.31L

**LABORATORY ANALYSIS REPORT
AND
DATA USABILITY SUMMARY REPORT (DUSR)**



ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L2051463 |
| Client: | Sterling Environmental Engineering 24 Wade Road Latham, NY 12110 |
| ATTN: | Mark Williams |
| Phone: | (518) 456-4900 |
| Project Name: | FORMER M. ARGUESO |
| Project Number: | 28012 |
| Report Date: | 12/11/20 |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2051463-01 | OSMW-3 | WATER | MAMARONECK, NY | 11/18/20 15:45 | 11/18/20 |
| L2051463-02 | GZ-22D | WATER | MAMARONECK, NY | 11/18/20 12:20 | 11/18/20 |
| L2051463-03 | GZ-23D | WATER | MAMARONECK, NY | 11/18/20 15:00 | 11/18/20 |
| L2051463-04 | DUP1182020 | WATER | MAMARONECK, NY | 11/18/20 00:00 | 11/18/20 |
| L2051463-05 | EB11182020 | WATER | MAMARONECK, NY | 11/18/20 11:25 | 11/18/20 |
| L2051463-06 | B6-OWD | WATER | MAMARONECK, NY | 11/18/20 16:25 | 11/18/20 |
| L2051463-07 | GZ-21D | WATER | MAMARONECK, NY | 11/18/20 13:55 | 11/18/20 |
| L2051463-08 | OSMW-4 | WATER | MAMARONECK, NY | 11/18/20 11:10 | 11/18/20 |
| L2051463-09 | TB11182020 | WATER | MAMARONECK, NY | 11/18/20 00:00 | 11/18/20 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Case Narrative (continued)

Report Submission

December 11, 2020: This final report includes the results of all requested analyses.

November 30, 2020: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2051463-01 through -04 and WG1440357-6/-7: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

WG1440357-6: The Extracted Internal Standard recovery is below the acceptance criteria for Perfluoro[13C8]Octanesulfonamide (M8FOSA) (less than 10%); however, all associated target analytes are within criteria; therefore, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Tiffani Morrissey

Title: Technical Director/Representative

Date: 12/11/20

ORGANICS

VOLATILES

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-01 D
 Client ID: OSMW-3
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:45
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/23/20 23:13
 Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 50 | 14. | 20 |
| 1,1-Dichloroethane | ND | | ug/l | 50 | 14. | 20 |
| Chloroform | ND | | ug/l | 50 | 14. | 20 |
| Carbon tetrachloride | ND | | ug/l | 10 | 2.7 | 20 |
| 1,2-Dichloropropane | ND | | ug/l | 20 | 2.7 | 20 |
| Dibromochloromethane | ND | | ug/l | 10 | 3.0 | 20 |
| 1,1,2-Trichloroethane | ND | | ug/l | 30 | 10. | 20 |
| Tetrachloroethene | 2200 | | ug/l | 10 | 3.6 | 20 |
| Chlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| Trichlorofluoromethane | ND | | ug/l | 50 | 14. | 20 |
| 1,2-Dichloroethane | 4.7 | J | ug/l | 10 | 2.6 | 20 |
| 1,1,1-Trichloroethane | ND | | ug/l | 50 | 14. | 20 |
| Bromodichloromethane | ND | | ug/l | 10 | 3.8 | 20 |
| trans-1,3-Dichloropropene | ND | | ug/l | 10 | 3.3 | 20 |
| cis-1,3-Dichloropropene | ND | | ug/l | 10 | 2.9 | 20 |
| Bromoform | ND | | ug/l | 40 | 13. | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 10 | 3.3 | 20 |
| Benzene | ND | | ug/l | 10 | 3.2 | 20 |
| Toluene | ND | | ug/l | 50 | 14. | 20 |
| Ethylbenzene | ND | | ug/l | 50 | 14. | 20 |
| Chloromethane | ND | | ug/l | 50 | 14. | 20 |
| Bromomethane | ND | | ug/l | 50 | 14. | 20 |
| Vinyl chloride | ND | | ug/l | 20 | 1.4 | 20 |
| Chloroethane | ND | | ug/l | 50 | 14. | 20 |
| 1,1-Dichloroethene | ND | | ug/l | 10 | 3.4 | 20 |
| trans-1,2-Dichloroethene | ND | | ug/l | 50 | 14. | 20 |
| Trichloroethene | 290 | | ug/l | 10 | 3.5 | 20 |
| 1,2-Dichlorobenzene | ND | | ug/l | 50 | 14. | 20 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-01 D
 Client ID: OSMW-3
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:45
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,4-Dichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| Methyl tert butyl ether | ND | | ug/l | 50 | 14. | 20 |
| p/m-Xylene | ND | | ug/l | 50 | 14. | 20 |
| o-Xylene | ND | | ug/l | 50 | 14. | 20 |
| cis-1,2-Dichloroethene | 42 | J | ug/l | 50 | 14. | 20 |
| Styrene | ND | | ug/l | 50 | 14. | 20 |
| Dichlorodifluoromethane | ND | | ug/l | 100 | 20. | 20 |
| Acetone | ND | | ug/l | 100 | 29. | 20 |
| Carbon disulfide | ND | | ug/l | 100 | 20. | 20 |
| 2-Butanone | ND | | ug/l | 100 | 39. | 20 |
| 4-Methyl-2-pentanone | ND | | ug/l | 100 | 20. | 20 |
| 2-Hexanone | ND | | ug/l | 100 | 20. | 20 |
| Bromochloromethane | ND | | ug/l | 50 | 14. | 20 |
| 1,2-Dibromoethane | ND | | ug/l | 40 | 13. | 20 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 50 | 14. | 20 |
| Isopropylbenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 50 | 14. | 20 |
| Methyl Acetate | ND | | ug/l | 40 | 4.7 | 20 |
| Cyclohexane | ND | | ug/l | 200 | 5.4 | 20 |
| 1,4-Dioxane | ND | | ug/l | 5000 | 1200 | 20 |
| Freon-113 | ND | | ug/l | 50 | 14. | 20 |
| Methyl cyclohexane | ND | | ug/l | 200 | 7.9 | 20 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 105 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-02
 Client ID: GZ-22D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 12:20
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/24/20 18:27
 Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | 19 | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 2.7 | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | 5.6 | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | 78 | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.56 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-02
 Client ID: GZ-22D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 12:20
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 1.8 | J | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 8.6 | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | 2.0 | J | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | 1.0 | J | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 95 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-03
 Client ID: GZ-23D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:00
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/24/20 19:16
 Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | 19 | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | 1.1 | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 5.3 | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | 5.6 | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | 0.18 | J | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 15 | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-03
Client ID: GZ-23D
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:00
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | 1.2 | J | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 23 | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 97 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 106 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-04
 Client ID: DUP1182020
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 00:00
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/24/20 18:52
 Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | 19 | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 2.7 | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | 5.7 | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | 78 | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.48 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-04
Client ID: DUP1182020
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 00:00
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 1.6 | J | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 7.9 | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | 1.8 | J | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | 1.0 | J | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 96 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 70-130 |
| Dibromofluoromethane | 100 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-06 D
 Client ID: B6-OWD
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 16:25
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/24/20 02:02
 Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 25 | 7.0 | 10 |
| 1,1-Dichloroethane | ND | | ug/l | 25 | 7.0 | 10 |
| Chloroform | ND | | ug/l | 25 | 7.0 | 10 |
| Carbon tetrachloride | ND | | ug/l | 5.0 | 1.3 | 10 |
| 1,2-Dichloropropane | ND | | ug/l | 10 | 1.4 | 10 |
| Dibromochloromethane | ND | | ug/l | 5.0 | 1.5 | 10 |
| 1,1,2-Trichloroethane | ND | | ug/l | 15 | 5.0 | 10 |
| Tetrachloroethene | 580 | | ug/l | 5.0 | 1.8 | 10 |
| Chlorobenzene | ND | | ug/l | 25 | 7.0 | 10 |
| Trichlorofluoromethane | ND | | ug/l | 25 | 7.0 | 10 |
| 1,2-Dichloroethane | 9.7 | | ug/l | 5.0 | 1.3 | 10 |
| 1,1,1-Trichloroethane | ND | | ug/l | 25 | 7.0 | 10 |
| Bromodichloromethane | ND | | ug/l | 5.0 | 1.9 | 10 |
| trans-1,3-Dichloropropene | ND | | ug/l | 5.0 | 1.6 | 10 |
| cis-1,3-Dichloropropene | ND | | ug/l | 5.0 | 1.4 | 10 |
| Bromoform | ND | | ug/l | 20 | 6.5 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 5.0 | 1.7 | 10 |
| Benzene | ND | | ug/l | 5.0 | 1.6 | 10 |
| Toluene | ND | | ug/l | 25 | 7.0 | 10 |
| Ethylbenzene | ND | | ug/l | 25 | 7.0 | 10 |
| Chloromethane | ND | | ug/l | 25 | 7.0 | 10 |
| Bromomethane | ND | | ug/l | 25 | 7.0 | 10 |
| Vinyl chloride | ND | | ug/l | 10 | 0.71 | 10 |
| Chloroethane | ND | | ug/l | 25 | 7.0 | 10 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 1.7 | 10 |
| trans-1,2-Dichloroethene | 26 | | ug/l | 25 | 7.0 | 10 |
| Trichloroethene | 1400 | | ug/l | 5.0 | 1.8 | 10 |
| 1,2-Dichlorobenzene | ND | | ug/l | 25 | 7.0 | 10 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-06 D
 Client ID: B6-OWD
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 16:25
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 25 | 7.0 | 10 |
| 1,4-Dichlorobenzene | ND | | ug/l | 25 | 7.0 | 10 |
| Methyl tert butyl ether | ND | | ug/l | 25 | 7.0 | 10 |
| p/m-Xylene | ND | | ug/l | 25 | 7.0 | 10 |
| o-Xylene | ND | | ug/l | 25 | 7.0 | 10 |
| cis-1,2-Dichloroethene | 760 | | ug/l | 25 | 7.0 | 10 |
| Styrene | ND | | ug/l | 25 | 7.0 | 10 |
| Dichlorodifluoromethane | ND | | ug/l | 50 | 10. | 10 |
| Acetone | ND | | ug/l | 50 | 15. | 10 |
| Carbon disulfide | ND | | ug/l | 50 | 10. | 10 |
| 2-Butanone | ND | | ug/l | 50 | 19. | 10 |
| 4-Methyl-2-pentanone | ND | | ug/l | 50 | 10. | 10 |
| 2-Hexanone | ND | | ug/l | 50 | 10. | 10 |
| Bromochloromethane | ND | | ug/l | 25 | 7.0 | 10 |
| 1,2-Dibromoethane | ND | | ug/l | 20 | 6.5 | 10 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 25 | 7.0 | 10 |
| Isopropylbenzene | ND | | ug/l | 25 | 7.0 | 10 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 25 | 7.0 | 10 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 25 | 7.0 | 10 |
| Methyl Acetate | ND | | ug/l | 20 | 2.3 | 10 |
| Cyclohexane | ND | | ug/l | 100 | 2.7 | 10 |
| 1,4-Dioxane | ND | | ug/l | 2500 | 610 | 10 |
| Freon-113 | ND | | ug/l | 25 | 7.0 | 10 |
| Methyl cyclohexane | ND | | ug/l | 100 | 4.0 | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 101 | | 70-130 |
| Dibromofluoromethane | 95 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-07
 Client ID: GZ-21D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 13:55
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/24/20 01:41
 Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | 110 | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | 0.27 | J | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | 2.1 | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | 1.9 | J | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-07
Client ID: GZ-21D
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 13:55
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | 0.74 | J | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | 140 | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| Dibromofluoromethane | 96 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-08
 Client ID: OSMW-4
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 11:10
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/24/20 01:20
 Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | 0.39 | J | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-08
Client ID: OSMW-4
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 11:10
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | 4.1 | J | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | 1.3 | J | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 98 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| Dibromofluoromethane | 95 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-09
 Client ID: TB11182020
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 00:00
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/24/20 17:13
 Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 | 1 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 | 1 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 | 1 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 | 1 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 | 1 |
| Benzene | ND | | ug/l | 0.50 | 0.16 | 1 |
| Toluene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 | 1 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-09
Client ID: TB11182020
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 00:00
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 | 1 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Styrene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 | 1 |
| Acetone | ND | | ug/l | 5.0 | 1.5 | 1 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 | 1 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 | 1 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 | 1 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. | 1 |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 | 1 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 95 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 70-130 |
| Dibromofluoromethane | 99 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/23/20 18:56
Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,06-08 Batch: WG1438001-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/23/20 18:56
Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,06-08 Batch: WG1438001-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/23/20 18:56
Analyst: AJK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,06-08 Batch: WG1438001-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 70-130 |
| Dibromofluoromethane | 96 | | 70-130 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/24/20 11:03
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-04,09 Batch: WG1438122-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Chloroform | ND | | ug/l | 2.5 | 0.70 |
| Carbon tetrachloride | ND | | ug/l | 0.50 | 0.13 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | 0.14 |
| Dibromochloromethane | ND | | ug/l | 0.50 | 0.15 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.5 | 0.50 |
| Tetrachloroethene | ND | | ug/l | 0.50 | 0.18 |
| Chlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Trichlorofluoromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dichloroethane | ND | | ug/l | 0.50 | 0.13 |
| 1,1,1-Trichloroethane | ND | | ug/l | 2.5 | 0.70 |
| Bromodichloromethane | ND | | ug/l | 0.50 | 0.19 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.16 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | 0.14 |
| Bromoform | ND | | ug/l | 2.0 | 0.65 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 0.50 | 0.17 |
| Benzene | ND | | ug/l | 0.50 | 0.16 |
| Toluene | ND | | ug/l | 2.5 | 0.70 |
| Ethylbenzene | ND | | ug/l | 2.5 | 0.70 |
| Chloromethane | ND | | ug/l | 2.5 | 0.70 |
| Bromomethane | ND | | ug/l | 2.5 | 0.70 |
| Vinyl chloride | ND | | ug/l | 1.0 | 0.07 |
| Chloroethane | ND | | ug/l | 2.5 | 0.70 |
| 1,1-Dichloroethene | ND | | ug/l | 0.50 | 0.17 |
| trans-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Trichloroethene | ND | | ug/l | 0.50 | 0.18 |
| 1,2-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,3-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/24/20 11:03
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-04,09 Batch: WG1438122-5 | | | | | |
| 1,4-Dichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl tert butyl ether | ND | | ug/l | 2.5 | 0.70 |
| p/m-Xylene | ND | | ug/l | 2.5 | 0.70 |
| o-Xylene | ND | | ug/l | 2.5 | 0.70 |
| cis-1,2-Dichloroethene | ND | | ug/l | 2.5 | 0.70 |
| Styrene | ND | | ug/l | 2.5 | 0.70 |
| Dichlorodifluoromethane | ND | | ug/l | 5.0 | 1.0 |
| Acetone | ND | | ug/l | 5.0 | 1.5 |
| Carbon disulfide | ND | | ug/l | 5.0 | 1.0 |
| 2-Butanone | ND | | ug/l | 5.0 | 1.9 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | 1.0 |
| 2-Hexanone | ND | | ug/l | 5.0 | 1.0 |
| Bromochloromethane | ND | | ug/l | 2.5 | 0.70 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.5 | 0.70 |
| Isopropylbenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.5 | 0.70 |
| Methyl Acetate | ND | | ug/l | 2.0 | 0.23 |
| Cyclohexane | ND | | ug/l | 10 | 0.27 |
| 1,4-Dioxane | ND | | ug/l | 250 | 61. |
| Freon-113 | ND | | ug/l | 2.5 | 0.70 |
| Methyl cyclohexane | ND | | ug/l | 10 | 0.40 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/24/20 11:03
Analyst: PD

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-04,09 Batch: WG1438122-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98 | | 70-130 |
| Toluene-d8 | 97 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 70-130 |
| Dibromofluoromethane | 101 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,06-08 Batch: WG1438001-3 WG1438001-4 | | | | | | | | |
| Methylene chloride | 97 | | 89 | | 70-130 | 9 | | 20 |
| 1,1-Dichloroethane | 100 | | 90 | | 70-130 | 11 | | 20 |
| Chloroform | 100 | | 88 | | 70-130 | 13 | | 20 |
| Carbon tetrachloride | 100 | | 87 | | 63-132 | 14 | | 20 |
| 1,2-Dichloropropane | 97 | | 87 | | 70-130 | 11 | | 20 |
| Dibromochloromethane | 90 | | 88 | | 63-130 | 2 | | 20 |
| 1,1,2-Trichloroethane | 96 | | 92 | | 70-130 | 4 | | 20 |
| Tetrachloroethene | 110 | | 90 | | 70-130 | 20 | | 20 |
| Chlorobenzene | 100 | | 92 | | 75-130 | 8 | | 20 |
| Trichlorofluoromethane | 110 | | 93 | | 62-150 | 17 | | 20 |
| 1,2-Dichloroethane | 93 | | 89 | | 70-130 | 4 | | 20 |
| 1,1,1-Trichloroethane | 100 | | 89 | | 67-130 | 12 | | 20 |
| Bromodichloromethane | 93 | | 90 | | 67-130 | 3 | | 20 |
| trans-1,3-Dichloropropene | 91 | | 85 | | 70-130 | 7 | | 20 |
| cis-1,3-Dichloropropene | 90 | | 82 | | 70-130 | 9 | | 20 |
| Bromoform | 91 | | 88 | | 54-136 | 3 | | 20 |
| 1,1,2,2-Tetrachloroethane | 92 | | 90 | | 67-130 | 2 | | 20 |
| Benzene | 100 | | 89 | | 70-130 | 12 | | 20 |
| Toluene | 100 | | 91 | | 70-130 | 9 | | 20 |
| Ethylbenzene | 110 | | 94 | | 70-130 | 16 | | 20 |
| Chloromethane | 100 | | 84 | | 64-130 | 17 | | 20 |
| Bromomethane | 93 | | 79 | | 39-139 | 16 | | 20 |
| Vinyl chloride | 110 | | 86 | | 55-140 | 24 | Q | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,06-08 Batch: WG1438001-3 WG1438001-4 | | | | | | | | |
| Chloroethane | 120 | | 89 | | 55-138 | 30 | Q | 20 |
| 1,1-Dichloroethene | 100 | | 84 | | 61-145 | 17 | | 20 |
| trans-1,2-Dichloroethene | 100 | | 92 | | 70-130 | 8 | | 20 |
| Trichloroethene | 100 | | 88 | | 70-130 | 13 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 95 | | 70-130 | 5 | | 20 |
| 1,3-Dichlorobenzene | 110 | | 95 | | 70-130 | 15 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 92 | | 70-130 | 8 | | 20 |
| Methyl tert butyl ether | 90 | | 92 | | 63-130 | 2 | | 20 |
| p/m-Xylene | 115 | | 100 | | 70-130 | 14 | | 20 |
| o-Xylene | 110 | | 100 | | 70-130 | 10 | | 20 |
| cis-1,2-Dichloroethene | 94 | | 83 | | 70-130 | 12 | | 20 |
| Styrene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Dichlorodifluoromethane | 110 | | 95 | | 36-147 | 15 | | 20 |
| Acetone | 78 | | 79 | | 58-148 | 1 | | 20 |
| Carbon disulfide | 100 | | 89 | | 51-130 | 12 | | 20 |
| 2-Butanone | 80 | | 94 | | 63-138 | 16 | | 20 |
| 4-Methyl-2-pentanone | 80 | | 84 | | 59-130 | 5 | | 20 |
| 2-Hexanone | 72 | | 76 | | 57-130 | 5 | | 20 |
| Bromochloromethane | 92 | | 87 | | 70-130 | 6 | | 20 |
| 1,2-Dibromoethane | 90 | | 86 | | 70-130 | 5 | | 20 |
| 1,2-Dibromo-3-chloropropane | 67 | | 75 | | 41-144 | 11 | | 20 |
| Isopropylbenzene | 120 | | 99 | | 70-130 | 19 | | 20 |
| 1,2,3-Trichlorobenzene | 74 | | 70 | | 70-130 | 6 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Project Number: 28012

Lab Number: L2051463

Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,06-08 Batch: WG1438001-3 WG1438001-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 83 | | 78 | | 70-130 | 6 | | 20 |
| Methyl Acetate | 74 | | 79 | | 70-130 | 7 | | 20 |
| Cyclohexane | 120 | | 92 | | 70-130 | 26 | Q | 20 |
| 1,4-Dioxane | 88 | | 84 | | 56-162 | 5 | | 20 |
| Freon-113 | 120 | | 100 | | 70-130 | 18 | | 20 |
| Methyl cyclohexane | 120 | | 98 | | 70-130 | 20 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 95 | | 100 | | 70-130 |
| Toluene-d8 | 100 | | 99 | | 70-130 |
| 4-Bromofluorobenzene | 104 | | 105 | | 70-130 |
| Dibromofluoromethane | 92 | | 98 | | 70-130 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04,09 Batch: WG1438122-3 WG1438122-4 | | | | | | | | |
| Methylene chloride | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,1-Dichloroethane | 110 | | 100 | | 70-130 | 10 | | 20 |
| Chloroform | 110 | | 100 | | 70-130 | 10 | | 20 |
| Carbon tetrachloride | 120 | | 110 | | 63-132 | 9 | | 20 |
| 1,2-Dichloropropane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 100 | | 100 | | 63-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 96 | | 98 | | 70-130 | 2 | | 20 |
| Tetrachloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 100 | | 100 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | 110 | | 110 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 100 | | 98 | | 70-130 | 2 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 100 | | 67-130 | 10 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 100 | | 98 | | 70-130 | 2 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Bromoform | 100 | | 100 | | 54-136 | 0 | | 20 |
| 1,1,2,2-Tetrachloroethane | 91 | | 94 | | 67-130 | 3 | | 20 |
| Benzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Toluene | 97 | | 100 | | 70-130 | 3 | | 20 |
| Ethylbenzene | 99 | | 100 | | 70-130 | 1 | | 20 |
| Chloromethane | 120 | | 100 | | 64-130 | 18 | | 20 |
| Bromomethane | 76 | | 76 | | 39-139 | 0 | | 20 |
| Vinyl chloride | 110 | | 99 | | 55-140 | 11 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04,09 Batch: WG1438122-3 WG1438122-4 | | | | | | | | |
| Chloroethane | 110 | | 100 | | 55-138 | 10 | | 20 |
| 1,1-Dichloroethene | 110 | | 110 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Trichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 95 | | 98 | | 70-130 | 3 | | 20 |
| 1,3-Dichlorobenzene | 97 | | 98 | | 70-130 | 1 | | 20 |
| 1,4-Dichlorobenzene | 96 | | 98 | | 70-130 | 2 | | 20 |
| Methyl tert butyl ether | 100 | | 100 | | 63-130 | 0 | | 20 |
| p/m-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 |
| o-Xylene | 100 | | 100 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Styrene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 100 | | 98 | | 36-147 | 2 | | 20 |
| Acetone | 120 | | 83 | | 58-148 | 36 | Q | 20 |
| Carbon disulfide | 110 | | 100 | | 51-130 | 10 | | 20 |
| 2-Butanone | 110 | | 96 | | 63-138 | 14 | | 20 |
| 4-Methyl-2-pentanone | 96 | | 96 | | 59-130 | 0 | | 20 |
| 2-Hexanone | 95 | | 90 | | 57-130 | 5 | | 20 |
| Bromochloromethane | 120 | | 110 | | 70-130 | 9 | | 20 |
| 1,2-Dibromoethane | 96 | | 99 | | 70-130 | 3 | | 20 |
| 1,2-Dibromo-3-chloropropane | 96 | | 93 | | 41-144 | 3 | | 20 |
| Isopropylbenzene | 93 | | 99 | | 70-130 | 6 | | 20 |
| 1,2,3-Trichlorobenzene | 95 | | 100 | | 70-130 | 5 | | 20 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04,09 Batch: WG1438122-3 WG1438122-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 94 | | 96 | | 70-130 | 2 | | 20 |
| Methyl Acetate | 100 | | 97 | | 70-130 | 3 | | 20 |
| Cyclohexane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | 114 | | 96 | | 56-162 | 17 | | 20 |
| Freon-113 | 100 | | 100 | | 70-130 | 0 | | 20 |
| Methyl cyclohexane | 100 | | 100 | | 70-130 | 0 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 106 | | 95 | | 70-130 |
| Toluene-d8 | 99 | | 101 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 98 | | 70-130 |
| Dibromofluoromethane | 106 | | 99 | | 70-130 |

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> |
|---|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04,09 QC Batch ID: WG1438122-6 WG1438122-7 QC Sample: L2051463-02 Client ID: GZ-22D | | | | | | | | | | | | |
| Methylene chloride | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| 1,1-Dichloroethane | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Chloroform | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | ND | 10 | 12 | 120 | | 12 | 120 | | 63-132 | 0 | | 20 |
| 1,2-Dichloropropane | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | ND | 10 | 9.8 | 98 | | 10 | 100 | | 63-130 | 2 | | 20 |
| 1,1,2-Trichloroethane | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Tetrachloroethene | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Chlorobenzene | ND | 10 | 10 | 100 | | 10 | 100 | | 75-130 | 0 | | 20 |
| Trichlorofluoromethane | ND | 10 | 12 | 120 | | 12 | 120 | | 62-150 | 0 | | 20 |
| 1,2-Dichloroethane | 19 | 10 | 28 | 90 | | 28 | 90 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | ND | 10 | 11 | 110 | | 11 | 110 | | 67-130 | 0 | | 20 |
| Bromodichloromethane | ND | 10 | 10 | 100 | | 10 | 100 | | 67-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | ND | 10 | 9.2 | 92 | | 9.1 | 91 | | 70-130 | 1 | | 20 |
| cis-1,3-Dichloropropene | ND | 10 | 9.9 | 99 | | 9.8 | 98 | | 70-130 | 1 | | 20 |
| Bromoform | ND | 10 | 9.7 | 97 | | 9.9 | 99 | | 54-136 | 2 | | 20 |
| 1,1,2,2-Tetrachloroethane | ND | 10 | 9.4 | 94 | | 9.8 | 98 | | 67-130 | 4 | | 20 |
| Benzene | 2.7 | 10 | 14 | 113 | | 13 | 103 | | 70-130 | 7 | | 20 |
| Toluene | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Chloromethane | ND | 10 | 11 | 110 | | 11 | 110 | | 64-130 | 0 | | 20 |
| Bromomethane | ND | 10 | 5.4 | 54 | | 5.9 | 59 | | 39-139 | 9 | | 20 |
| Vinyl chloride | 5.6 | 10 | 17 | 114 | | 17 | 114 | | 55-140 | 0 | | 20 |

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04,09 QC Batch ID: WG1438122-6 WG1438122-7 QC Sample: L2051463-02 Client ID: GZ-22D | | | | | | | | | | | | |
| Chloroethane | ND | 10 | 12 | 120 | | 12 | 120 | | 55-138 | 0 | | 20 |
| 1,1-Dichloroethene | ND | 10 | 12 | 120 | | 12 | 120 | | 61-145 | 0 | | 20 |
| trans-1,2-Dichloroethene | 78 | 10 | 89 | 110 | | 88 | 100 | | 70-130 | 1 | | 20 |
| Trichloroethene | 0.56 | 10 | 12 | 114 | | 11 | 104 | | 70-130 | 9 | | 20 |
| 1,2-Dichlorobenzene | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | ND | 10 | 9.7 | 97 | | 9.4 | 94 | | 70-130 | 3 | | 20 |
| 1,4-Dichlorobenzene | ND | 10 | 10 | 100 | | 10 | 100 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 1.8J | 10 | 12 | 120 | | 12 | 120 | | 63-130 | 0 | | 20 |
| p/m-Xylene | ND | 20 | 21 | 105 | | 20 | 100 | | 70-130 | 5 | | 20 |
| o-Xylene | ND | 20 | 20 | 100 | | 20 | 100 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 8.6 | 10 | 21 | 124 | | 20 | 114 | | 70-130 | 5 | | 20 |
| Styrene | ND | 20 | 21 | 105 | | 20 | 100 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | ND | 10 | 11 | 110 | | 11 | 110 | | 36-147 | 0 | | 20 |
| Acetone | ND | 10 | 9.9 | 99 | | 12 | 120 | | 58-148 | 19 | | 20 |
| Carbon disulfide | ND | 10 | 12 | 120 | | 11 | 110 | | 51-130 | 9 | | 20 |
| 2-Butanone | ND | 10 | 11 | 110 | | 11 | 110 | | 63-138 | 0 | | 20 |
| 4-Methyl-2-pentanone | ND | 10 | 9.3 | 93 | | 9.8 | 98 | | 59-130 | 5 | | 20 |
| 2-Hexanone | ND | 10 | 8.8 | 88 | | 9.1 | 91 | | 57-130 | 3 | | 20 |
| Bromochloromethane | ND | 10 | 12 | 120 | | 12 | 120 | | 70-130 | 0 | | 20 |
| 1,2-Dibromoethane | ND | 10 | 9.8 | 98 | | 10 | 100 | | 70-130 | 2 | | 20 |
| 1,2-Dibromo-3-chloropropane | ND | 10 | 9.3 | 93 | | 9.9 | 99 | | 41-144 | 6 | | 20 |
| Isopropylbenzene | ND | 10 | 10 | 100 | | 9.7 | 97 | | 70-130 | 3 | | 20 |
| 1,2,3-Trichlorobenzene | ND | 10 | 9.7 | 97 | | 10 | 100 | | 70-130 | 3 | | 20 |

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04,09 QC Batch ID: WG1438122-6 WG1438122-7 QC Sample: L2051463-02 Client ID: GZ-22D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 10 | 9.5 | 95 | | 9.8 | 98 | | 70-130 | 3 | | 20 |
| Methyl Acetate | ND | 10 | 8.8 | 88 | | 9.0 | 90 | | 70-130 | 2 | | 20 |
| Cyclohexane | 2.0J | 10 | 13 | 130 | | 12 | 120 | | 70-130 | 8 | | 20 |
| 1,4-Dioxane | ND | 500 | 530 | 106 | | 600 | 120 | | 56-162 | 12 | | 20 |
| Freon-113 | ND | 10 | 11 | 110 | | 11 | 110 | | 70-130 | 0 | | 20 |
| Methyl cyclohexane | 1.0J | 10 | 12 | 120 | | 11 | 110 | | 70-130 | 9 | | 20 |

| Surrogate | MS | | MSD | | Acceptance Criteria |
|-----------------------|-------------------|------------------|-------------------|------------------|----------------------------|
| | % Recovery | Qualifier | % Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 | 96 | | 96 | | 70-130 |
| 4-Bromofluorobenzene | 96 | | 98 | | 70-130 |
| Dibromofluoromethane | 100 | | 102 | | 70-130 |
| Toluene-d8 | 95 | | 96 | | 70-130 |

SEMIVOLATILES

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-01
 Client ID: OSMW-3
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:45
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 11/24/20 00:13
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 11/20/20 22:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 2590 | | ng/l | 150 | 33.9 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 44 | | 15-110 | |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-01
Client ID: OSMW-3
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:45
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/04/20 01:24
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 12/02/20 18:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 5.32 | | ng/l | 1.88 | 0.383 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 7.57 | | ng/l | 1.88 | 0.372 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.97 | | ng/l | 1.88 | 0.223 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 4.04 | | ng/l | 1.88 | 0.308 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 2.72 | | ng/l | 1.88 | 0.211 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 3.54 | | ng/l | 1.88 | 0.353 | 1 |
| Perfluorooctanoic Acid (PFOA) | 8.30 | F | ng/l | 1.88 | 0.222 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.88 | 1.25 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.88 | 0.646 | 1 |
| Perfluorononanoic Acid (PFNA) | 0.747 | J | ng/l | 1.88 | 0.293 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 6.90 | F | ng/l | 1.88 | 0.473 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.88 | 0.285 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.88 | 1.14 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.88 | 0.608 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.88 | 0.244 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.88 | 0.920 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.88 | 0.544 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.88 | 0.755 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.88 | 0.349 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.88 | 0.307 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.88 | 0.233 | 1 |
| PFOA/PFOS, Total | 15.2 | | ng/l | 1.88 | 0.222 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-01
 Client ID: OSMW-3
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:45
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 95 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 105 | | 16-173 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 101 | | 31-159 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 88 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 101 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 116 | | 47-153 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 96 | | 36-149 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 298 | Q | 1-244 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 98 | | 34-146 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 97 | | 42-146 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 88 | | 38-144 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 266 | Q | 7-170 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 89 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 90 | | 40-144 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 14 | | 1-87 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 74 | | 23-146 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 84 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 62 | | 33-143 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-02
 Client ID: GZ-22D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 12:20
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 11/24/20 11:04
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 11/20/20 22:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 3180 | | ng/l | 150 | 33.9 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 43 | | 15-110 | |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-02
Client ID: GZ-22D
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 12:20
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/04/20 01:41
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 12/02/20 18:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 3.80 | | ng/l | 1.90 | 0.388 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 4.33 | | ng/l | 1.90 | 0.376 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.89 | J | ng/l | 1.90 | 0.226 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 2.57 | F | ng/l | 1.90 | 0.312 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 1.78 | J | ng/l | 1.90 | 0.214 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 9.63 | | ng/l | 1.90 | 0.358 | 1 |
| Perfluorooctanoic Acid (PFOA) | 6.26 | F | ng/l | 1.90 | 0.224 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.90 | 1.27 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.90 | 0.654 | 1 |
| Perfluorononanoic Acid (PFNA) | 0.570 | J | ng/l | 1.90 | 0.297 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 8.68 | F | ng/l | 1.90 | 0.479 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.90 | 0.289 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.90 | 1.15 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.90 | 0.616 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.90 | 0.247 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.90 | 0.932 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.90 | 0.551 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.90 | 0.764 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.90 | 0.354 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.90 | 0.311 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.90 | 0.236 | 1 |
| PFOA/PFOS, Total | 14.9 | | ng/l | 1.90 | 0.224 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-02
 Client ID: GZ-22D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 12:20
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 89 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 97 | | 16-173 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 100 | | 31-159 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 82 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 99 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 114 | | 47-153 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 92 | | 36-149 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 241 | | 1-244 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 91 | | 34-146 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 89 | | 42-146 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 80 | | 38-144 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 181 | Q | 7-170 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 70 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 86 | | 40-144 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 12 | | 1-87 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 63 | | 23-146 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 83 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 57 | | 33-143 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-03
 Client ID: GZ-23D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:00
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 11/24/20 01:49
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 11/20/20 22:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 407. | | ng/l | 139 | 31.4 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 37 | | 15-110 | |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-03
Client ID: GZ-23D
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:00
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/04/20 02:31
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 12/02/20 18:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 10.0 | | ng/l | 1.84 | 0.374 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 33.0 | | ng/l | 1.84 | 0.363 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 3.09 | | ng/l | 1.84 | 0.218 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 18.2 | | ng/l | 1.84 | 0.301 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 6.82 | | ng/l | 1.84 | 0.207 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 2.86 | | ng/l | 1.84 | 0.345 | 1 |
| Perfluorooctanoic Acid (PFOA) | 8.18 | F | ng/l | 1.84 | 0.216 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.84 | 1.22 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.84 | 0.631 | 1 |
| Perfluorononanoic Acid (PFNA) | 1.63 | J | ng/l | 1.84 | 0.286 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 29.7 | F | ng/l | 1.84 | 0.462 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.84 | 0.279 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.84 | 1.11 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.84 | 0.595 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.84 | 0.238 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.84 | 0.899 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.84 | 0.532 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.84 | 0.738 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.84 | 0.341 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.84 | 0.300 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.84 | 0.228 | 1 |
| PFOA/PFOS, Total | 37.9 | | ng/l | 1.84 | 0.216 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-03
 Client ID: GZ-23D
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 15:00
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 89 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 76 | | 16-173 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 89 | | 31-159 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 72 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 90 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 103 | | 47-153 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 88 | | 36-149 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 477 | Q | 1-244 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 91 | | 34-146 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 83 | | 42-146 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 76 | | 38-144 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 431 | Q | 7-170 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 152 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 83 | | 40-144 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 28 | | 1-87 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 102 | | 23-146 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 82 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 59 | | 33-143 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-04
 Client ID: DUP1182020
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 00:00
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 11/24/20 02:13
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 11/20/20 22:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 3270 | | ng/l | 150 | 33.9 | 1 |
| Surrogate | | | % Recovery | Qualifier | Acceptance Criteria | |
| 1,4-Dioxane-d8 | | | 38 | | 15-110 | |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-04
Client ID: DUP1182020
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 00:00
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/04/20 02:47
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 12/02/20 18:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 3.65 | | ng/l | 1.80 | 0.368 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 3.90 | | ng/l | 1.80 | 0.357 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.77 | J | ng/l | 1.80 | 0.214 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 2.46 | | ng/l | 1.80 | 0.296 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 1.70 | J | ng/l | 1.80 | 0.203 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 9.42 | | ng/l | 1.80 | 0.339 | 1 |
| Perfluorooctanoic Acid (PFOA) | 6.31 | F | ng/l | 1.80 | 0.213 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.80 | 1.20 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.80 | 0.620 | 1 |
| Perfluorononanoic Acid (PFNA) | 0.479 | J | ng/l | 1.80 | 0.281 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 8.93 | F | ng/l | 1.80 | 0.454 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.80 | 0.274 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.80 | 1.09 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.80 | 0.584 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.80 | 0.234 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.80 | 0.883 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.80 | 0.523 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.80 | 0.725 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.80 | 0.335 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.80 | 0.295 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.80 | 0.224 | 1 |
| PFOA/PFOS, Total | 15.2 | | ng/l | 1.80 | 0.213 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-04
 Client ID: DUP1182020
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 00:00
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 97 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 104 | | 16-173 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 108 | | 31-159 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 90 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 107 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 121 | | 47-153 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 97 | | 36-149 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 265 | Q | 1-244 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 96 | | 34-146 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 86 | | 42-146 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 81 | | 38-144 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 173 | Q | 7-170 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 68 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 82 | | 40-144 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 11 | | 1-87 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 65 | | 23-146 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 83 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 57 | | 33-143 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-05
Client ID: EB11182020
Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 11:25
Date Received: 11/18/20
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/04/20 03:20
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 12/02/20 18:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 1.80 | 0.368 | 1 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 1.80 | 0.357 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 1.80 | 0.214 | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 1.80 | 0.296 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 1.80 | 0.203 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 1.80 | 0.339 | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 1.80 | 0.213 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 1.80 | 1.20 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 1.80 | 0.620 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 1.80 | 0.281 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 1.80 | 0.454 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 1.80 | 0.274 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 1.80 | 1.09 | 1 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 1.80 | 0.584 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 1.80 | 0.234 | 1 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 1.80 | 0.883 | 1 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 1.80 | 0.523 | 1 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 1.80 | 0.725 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 1.80 | 0.335 | 1 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 1.80 | 0.295 | 1 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 1.80 | 0.224 | 1 |
| PFOA/PFOS, Total | ND | | ng/l | 1.80 | 0.213 | 1 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

SAMPLE RESULTS

Lab ID: L2051463-05
 Client ID: EB11182020
 Sample Location: MAMARONECK, NY

Date Collected: 11/18/20 11:25
 Date Received: 11/18/20
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 101 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 137 | | 16-173 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 109 | | 31-159 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 106 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 112 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 119 | | 47-153 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 101 | | 36-149 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 149 | | 1-244 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 106 | | 34-146 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 102 | | 42-146 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 97 | | 38-144 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 167 | | 7-170 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 84 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 105 | | 40-144 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 35 | | 1-87 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 83 | | 23-146 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 103 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 67 | | 33-143 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/23/20 21:01
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 11/20/20 22:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|-----|------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-04 Batch: WG1436803-1 | | | | | |
| 1,4-Dioxane | ND | | ng/l | 150 | 33.9 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 46 | | 15-110 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/03/20 22:22
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 12/02/20 18:30

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1440357-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.408 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.396 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.238 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.328 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.225 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.376 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | 0.236 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 1.33 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.688 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.312 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | 0.504 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.304 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 1.21 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | | ng/l | 2.00 | 0.648 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.260 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | | ng/l | 2.00 | 0.980 |
| Perfluorooctanesulfonamide (FOSA) | ND | | ng/l | 2.00 | 0.580 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | | ng/l | 2.00 | 0.804 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.372 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | | ng/l | 2.00 | 0.327 |
| Perfluorotetradecanoic Acid (PFTA) | ND | | ng/l | 2.00 | 0.248 |
| PFOA/PFOS, Total | ND | | ng/l | 2.00 | 0.236 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 12/03/20 22:22
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 12/02/20 18:30

| Parameter | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-05 Batch: WG1440357-1 | | | | | |

| Surrogate (Extracted Internal Standard) | %Recovery | Qualifier | Acceptance Criteria |
|--|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 99 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 129 | | 16-173 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 104 | | 31-159 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 100 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 107 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 116 | | 47-153 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 97 | | 36-149 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 121 | | 1-244 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 102 | | 34-146 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 101 | | 42-146 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 95 | | 38-144 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 139 | | 7-170 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 107 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 106 | | 40-144 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 29 | | 1-87 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 93 | | 23-146 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 108 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 72 | | 33-143 |

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG1436803-2 WG1436803-3 | | | | | | | | |
| 1,4-Dioxane | 113 | | 114 | | 40-140 | 1 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,4-Dioxane-d8 | 49 | | 45 | | 15-110 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1440357-2 WG1440357-3 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 108 | | 110 | | 67-148 | 2 | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 112 | | 114 | | 63-161 | 2 | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 111 | | 115 | | 65-157 | 4 | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 109 | | 113 | | 69-168 | 4 | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 104 | | 108 | | 58-159 | 4 | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 114 | | 111 | | 69-177 | 3 | | 30 |
| Perfluorooctanoic Acid (PFOA) | 106 | | 109 | | 63-159 | 3 | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 112 | | 122 | | 49-187 | 9 | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 114 | | 111 | | 61-179 | 3 | | 30 |
| Perfluorononanoic Acid (PFNA) | 106 | | 108 | | 68-171 | 2 | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 117 | | 118 | | 52-151 | 1 | | 30 |
| Perfluorodecanoic Acid (PFDA) | 108 | | 109 | | 63-171 | 1 | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 133 | | 122 | | 56-173 | 9 | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 88 | | 98 | | 60-166 | 11 | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 111 | | 112 | | 60-153 | 1 | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | 122 | | 115 | | 38-156 | 6 | | 30 |
| Perfluorooctanesulfonamide (FOSA) | 96 | | 106 | | 46-170 | 10 | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 113 | | 108 | | 45-170 | 5 | | 30 |
| Perfluorododecanoic Acid (PFDoA) | 109 | | 112 | | 67-153 | 3 | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | 108 | | 106 | | 48-158 | 2 | | 30 |
| Perfluorotetradecanoic Acid (PFTA) | 137 | | 136 | | 59-182 | 1 | | 30 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| Parameter | LCS | | LCSD | | %Recovery | | RPD | RPD | |
|---|-----------|------|-----------|------|-----------|------|-----|--------|--|
| | %Recovery | Qual | %Recovery | Qual | Limits | Qual | | Limits | |
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 Batch: WG1440357-2 WG1440357-3 | | | | | | | | | |

| Surrogate (Extracted Internal Standard) | LCS | | LCSD | | Acceptance Criteria |
|--|-----------|------|-----------|------|------------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 100 | | 99 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 129 | | 126 | | 16-173 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 107 | | 101 | | 31-159 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 102 | | 102 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 107 | | 107 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 113 | | 112 | | 47-153 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 100 | | 100 | | 36-149 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 139 | | 127 | | 1-244 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 103 | | 104 | | 34-146 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 100 | | 99 | | 42-146 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 95 | | 98 | | 38-144 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 148 | | 145 | | 7-170 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 110 | | 99 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 108 | | 106 | | 40-144 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 25 | | 32 | | 1-87 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 85 | | 90 | | 23-146 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 109 | | 112 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 73 | | 74 | | 33-143 |

Matrix Spike Analysis Batch Quality Control

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1436803-4 WG1436803-5 QC Sample: L2051463-02 Client ID: GZ-22D | | | | | | | | | | | | |
| 1,4-Dioxane | 3180 | 4630 | 8450 | 114 | | 8700 | 115 | | 40-140 | 3 | | 30 |

| Surrogate | MS % Recovery | Qualifier | MSD % Recovery | Qualifier | Acceptance Criteria |
|------------------|----------------------|------------------|-----------------------|------------------|----------------------------|
| 1,4-Dioxane-d8 | 42 | | 40 | | 15-110 |

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> |
|---|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1440357-6 WG1440357-7 QC Sample: L2051463-02 Client ID: GZ-22D | | | | | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 3.80 | 35.9 | 41.7 | 106 | | 42.7 | 106 | | 67-148 | 2 | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 4.33 | 35.9 | 44.5 | 112 | | 44.8 | 110 | | 63-161 | 1 | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.89J | 31.9 | 39.1 | 117 | | 38.0 | 111 | | 65-157 | 3 | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 2.57F | 35.9 | 42.3 | 111 | | 43.0 | 110 | | 69-168 | 2 | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 1.78J | 35.9 | 39.5 | 105 | | 40.3 | 105 | | 58-159 | 2 | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 9.63 | 32.8 | 45.4 | 109 | | 44.6 | 104 | | 69-177 | 2 | | 30 |
| Perfluorooctanoic Acid (PFOA) | 6.26F | 35.9 | 44.7F | 107 | | 45.5F | 107 | | 63-159 | 2 | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 34.2 | 42.9F | 126 | | 41.9F | 120 | | 49-187 | 2 | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | 34.2 | 41.3 | 121 | | 42.0 | 120 | | 61-179 | 2 | | 30 |
| Perfluorononanoic Acid (PFNA) | 0.570J | 35.9 | 37.4 | 103 | | 38.6 | 104 | | 68-171 | 3 | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 8.68F | 33.3 | 45.2F | 110 | | 47.2F | 113 | | 52-151 | 4 | | 30 |
| Perfluorodecanoic Acid (PFDA) | ND | 35.9 | 34.4 | 96 | | 37.7 | 103 | | 63-171 | 9 | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 34.4 | 37.8F | 110 | | 42.4F | 120 | | 56-173 | 11 | | 30 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 35.9 | 30.5F | 85 | | 34.3F | 94 | | 60-166 | 12 | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | ND | 35.9 | 33.8 | 94 | | 37.8 | 103 | | 60-153 | 11 | | 30 |
| Perfluorodecanesulfonic Acid (PFDS) | ND | 34.6 | 35.5 | 103 | | 37.9 | 107 | | 38-156 | 7 | | 30 |
| Perfluorooctanesulfonamide (FOSA) | ND | 35.9 | 32.2 | 90 | | 33.5F | 91 | | 46-170 | 4 | | 30 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 35.9 | 33.4 | 93 | | 37.5 | 102 | | 45-170 | 12 | | 30 |
| Perfluorododecanoic Acid (PFDoA) | ND | 35.9 | 34.2 | 95 | | 37.0 | 101 | | 67-153 | 8 | | 30 |
| Perfluorotridecanoic Acid (PFTrDA) | ND | 35.9 | 33.6 | 94 | | 37.8 | 103 | | 48-158 | 12 | | 30 |
| Perfluorotetradecanoic Acid (PFTTA) | ND | 35.9 | 43.2 | 120 | | 49.0 | 134 | | 59-182 | 13 | | 30 |

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER M. ARGUESO

Lab Number: L2051463

Project Number: 28012

Report Date: 12/11/20

| <i>Parameter</i> | <i>Native Sample</i> | <i>MS Added</i> | <i>MS Found</i> | <i>MS %Recovery</i> | <i>Qual</i> | <i>MSD Found</i> | <i>MSD %Recovery</i> | <i>Qual</i> | <i>Recovery Limits</i> | <i>RPD</i> | <i>Qual</i> | <i>RPD Limits</i> |
|--|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1440357-6 WG1440357-7 QC Sample: L2051463-02 | | | | | | | | | | | | |
| Client ID: GZ-22D | | | | | | | | | | | | |

| <i>Surrogate (Extracted Internal Standard)</i> | <i>MS</i> | | <i>MSD</i> | | <i>Acceptance Criteria</i> |
|--|-------------------|------------------|-------------------|------------------|----------------------------|
| | <i>% Recovery</i> | <i>Qualifier</i> | <i>% Recovery</i> | <i>Qualifier</i> | |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 175 | Q | 187 | Q | 7-170 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 241 | | 257 | Q | 1-244 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 67 | | 73 | | 23-146 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 73 | | 81 | | 1-181 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 89 | | 96 | | 40-144 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 85 | | 92 | | 38-144 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 85 | | 89 | | 21-145 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 101 | | 106 | | 30-139 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 115 | | 122 | | 47-153 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 83 | | 95 | | 24-161 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 60 | | 62 | | 33-143 |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 92 | | 97 | | 2-156 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 100 | | 105 | | 16-173 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 8 | | 10 | | 1-87 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 89 | | 94 | | 42-146 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 94 | | 99 | | 36-149 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 93 | | 98 | | 34-146 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 100 | | 105 | | 31-159 |

Project Name: FORMER M. ARGUESO**Lab Number:** L2051463**Project Number:** 28012**Report Date:** 12/11/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| Cooler | Custody Seal |
|---------------|---------------------|
| A | Absent |
| B | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|---------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|-----------------------|
| L2051463-01A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-01B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-01C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-01D | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-01E | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-01F | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-01G | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-02A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02A1 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02A2 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02B1 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02B2 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02C1 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02C2 | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-02D | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-02D1 | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-02D2 | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-02E | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-02E1 | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-02E2 | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |

Project Name: FORMER M. ARGUESO**Lab Number:** L2051463**Project Number:** 28012**Report Date:** 12/11/20**Container Information**

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|---------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|-----------------------|
| L2051463-02F | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-02F1 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-02F2 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-02G | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-02G1 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-02G2 | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-03A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-03B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-03C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-03D | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-03E | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-03F | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-03G | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-04A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-04B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-04C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-04D | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-04E | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-04F | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-04G | Amber 250ml unpreserved | A | 7 | 7 | 4.5 | Y | Absent | | A2-1,4-DIOXANE-SIM(7) |
| L2051463-05A | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-05B | Plastic 250ml unpreserved | B | NA | | 2.4 | Y | Absent | | A2-NY-537-ISOTOPE(14) |
| L2051463-06A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-06B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-06C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-07A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-07B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-07C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Serial_No:12112014:36
Lab Number: L2051463
Report Date: 12/11/20

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L2051463-08A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-08B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-08C | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-09A | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |
| L2051463-09B | Vial HCl preserved | A | NA | | 4.5 | Y | Absent | | NYTCL-8260-R2(14) |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Serial_No:12112014:36
Lab Number: L2051463
Report Date: 12/11/20

PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|---|--------------|-------------|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs) | | |
| Perfluorooctadecanoic Acid | PFODA | 16517-11-6 |
| Perfluorohexadecanoic Acid | PFHxDA | 67905-19-5 |
| Perfluorotetradecanoic Acid | PFTA | 376-06-7 |
| Perfluorotridecanoic Acid | PFTrDA | 72629-94-8 |
| Perfluorododecanoic Acid | PFDoA | 307-55-1 |
| Perfluoroundecanoic Acid | PFUnA | 2058-94-8 |
| Perfluorodecanoic Acid | PFDA | 335-76-2 |
| Perfluorononanoic Acid | PFNA | 375-95-1 |
| Perfluorooctanoic Acid | PFOA | 335-67-1 |
| Perfluoroheptanoic Acid | PFHpA | 375-85-9 |
| Perfluorohexanoic Acid | PFHxA | 307-24-4 |
| Perfluoropentanoic Acid | PFPeA | 2706-90-3 |
| Perfluorobutanoic Acid | PFBA | 375-22-4 |
| PERFLUOROALKYL SULFONIC ACIDS (PFSAs) | | |
| Perfluorododecanesulfonic Acid | PFDoDS | 79780-39-5 |
| Perfluorodecanesulfonic Acid | PFDS | 335-77-3 |
| Perfluorononanesulfonic Acid | PFNS | 68259-12-1 |
| Perfluorooctanesulfonic Acid | PFOS | 1763-23-1 |
| Perfluoroheptanesulfonic Acid | PFHpS | 375-92-8 |
| Perfluorohexanesulfonic Acid | PFHxS | 355-46-4 |
| Perfluoropentanesulfonic Acid | PFPeS | 2706-91-4 |
| Perfluorobutanesulfonic Acid | PFBS | 375-73-5 |
| FLUOROTELOMERS | | |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid | 10:2FTS | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid | 8:2FTS | 39108-34-4 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid | 6:2FTS | 27619-97-2 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid | 4:2FTS | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs) | | |
| Perfluorooctanesulfonamide | FOSA | 754-91-6 |
| N-Ethyl Perfluorooctane Sulfonamide | NEtFOSA | 4151-50-2 |
| N-Methyl Perfluorooctane Sulfonamide | NMeFOSA | 31506-32-8 |
| PERFLUOROALKANE SULFONYL SUBSTANCES | | |
| N-Ethyl Perfluorooctanesulfonamido Ethanol | NEtFOSE | 1691-99-2 |
| N-Methyl Perfluorooctanesulfonamido Ethanol | NMeFOSE | 24448-09-7 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid | NEtFOSAA | 2991-50-6 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid | NMeFOSAA | 2355-31-9 |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS | | |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA | 13252-13-6 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid | ADONA | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS | | |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid | 9Cl-PF3ONS | 756426-58-1 |
| PERFLUOROETHER SULFONIC ACIDS (PFESAs) | | |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid | PFEEESA | 113507-82-7 |
| PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs) | | |
| Perfluoro-3-Methoxypropanoic Acid | PFMPA | 377-73-1 |
| Perfluoro-4-Methoxybutanoic Acid | PFMBA | 863090-89-5 |
| Nonafluoro-3,6-Dioxaheptanoic Acid | NFDHA | 151772-58-6 |

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

GLOSSARY

Acronyms

| | |
|----------|--|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: FORMER M. ARGUESO
Project Number: 28012

Lab Number: L2051463
Report Date: 12/11/20

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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of 2

Date Rec'd in Lab 11/19/20

ALPHA Job # L2051463

Client Information

Client: Sterling Environmental Engineer
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email:

Project Information

Project Name: Weavert Ave Former M. Argueso
Project Location: Mamaroneck, NY

Project # 28012

(Use Project name as Project #)

Project Manager: Jennifer Dicerbo

ALPHAQuote #:

Turn-Around Time

Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables

ASP-A ASP-B
 EQuIS (1 File) EQuIS (4 File)
 Other

Billing Information

Same as Client Info
PO #

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

NJ NY
 Other: NA

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

jennifer.dicerbo@sterlingenvironmental.com
mark.williams@sterlingenvironmental.com

Please specify Metals or TAL.

* FPA 537.1 isotop di. lichen

ANALYSIS

| NY-537-ISOTOPE | 1,4-DIOXANE-SIM | USEPA 8260C | VOCs | | | | | | | |
|----------------|-----------------|-------------|------|--|--|--|--|--|--|--|
| X | X | X | X | | | | | | | |

Sample Filtration

Done
 Lab to do
 Preservation
 Lab to do

(Please Specify below)

Sample Specific Comments

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | NY-537-ISOTOPE | 1,4-DIOXANE-SIM | USEPA 8260C | VOCs | | | | | | | | | | | |
|-----------------------------|--------------------|------------|------|---------------|--------------------|----------------|-----------------|-------------|------|--|--|--|--|--|--|--|--|--|--|---|
| | | Date | Time | | | | | | | | | | | | | | | | | |
| 61463-01 | OSMW-3 | 11-18-2020 | 1545 | GW | PWS | X | X | X | X | | | | | | | | | | | 7 |
| 02 | GZ-22D | | 1220 | | | X | X | X | X | | | | | | | | | | | 7 |
| 02 | GZ-22D MS | | 1225 | | | X | X | X | X | | | | | | | | | | | 7 |
| 02 | GZ-22D MSD | | 1230 | | | X | X | X | X | | | | | | | | | | | 7 |
| 03 | GZ-23D | | 1500 | | | X | X | X | X | | | | | | | | | | | 7 |
| 04 | DUP 11182020 | | - | | | X | X | X | X | | | | | | | | | | | 2 |
| 05 | EB 11182020 | | 1125 | LW | | X | X | X | X | | | | | | | | | | | 3 |
| 06 | FIELD BLANK B6-0WD | | 1625 | GW | | X | X | X | X | | | | | | | | | | | 3 |
| 07 | GZ-21D | | 1355 | | | X | X | X | X | | | | | | | | | | | 3 |
| 08 | OSMW-4 | | 1110 | | | X | X | X | X | | | | | | | | | | | 3 |

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: P A V
Preservative: A A B

| Relinquished By: | Date/Time | Received By: | Date/Time |
|------------------|-----------------|--------------|----------------|
| [Signature] | 11-18-2020 1945 | [Signature] | 11/18/20 21:30 |
| [Signature] | 11/18/20 21:30 | [Signature] | 11/19/20 00:20 |
| [Signature] | 11/19/20 09:00 | [Signature] | 11/19/20 06:25 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3
of 2

Date Rec'd in Lab **11/19/20**

ALPHA Job # **L2051463**

Client Information

Client: Sterling Environmental Engineering
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email:

Project Information

Project Name: **Wade Ave Former M. Argueso**
Project Location: **Wade Ave Mamaroneck, NY**
Project #: 28012

(Use Project name as Project #)
Project Manager: **Jennifer Dicerbo**
ALPHAQuote #:

Turn-Around Time
Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables

ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information

Same as Client Info
PO #

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other: NA

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

jennifer.dicerbo@sterlingenvironmental.com
mack.williams@sterlingenvironmental.com
Please specify Metals or TAL.

ANALYSIS

| | | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|
| VOCs 8260 | | | | | | | | | |
| | | | | | | | | | |
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Sample Filtration

Done
 Lab to do
 Preservation
 Lab to do
(Please Specify below)

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials |
|-----------------------------|------------------------------|-------------------|----------|---------------|--------------------|
| | | Date | Time | | |
| | GZ-21D PWS | | | | |
| | GZ-22D PWS | | | | |
| | GZ-22D MS PWS | | | | |
| | GZ-22D MSD PWS | | | | |
| | OSMWA PWS | | | | |
| | OSMWA PWS | | | | |
| | B6-BWD PWS | | | | |
| | GZ-23D PWS | | | | |
| | DUP PWS | | | | |
| | TRIP BLANK TB11182020 | 11-18-2020 | - | LW | PWS |

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type **V**
Preservative **B**

| Relinquished By: | Date/Time | Received By: | Date/Time |
|--------------------|-----------------------|--------------------|-----------------------|
| <i>[Signature]</i> | 11/18/20 14:45 | <i>[Signature]</i> | 11/18/20 21:30 |
| <i>[Signature]</i> | 11/18/20 21:30 | <i>[Signature]</i> | 11/19/20 00:20 |
| <i>[Signature]</i> | 11/19/20 01:00 | <i>[Signature]</i> | 11/19/20 05:05 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



Geology

Hydrology

Remediation

Water Supply

December 18, 2020

Mr. Paul W. Scholar
Senior Geologist
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Re: Data Validation Report
441 and 442 Waverly Avenue (#28012)
November Ground Water Samples

Dear Mr. Scholar:

The data usability summary report (DUSR) and QA/QC reviews are attached to this letter for the above referenced project sampling event. The data for Alpha Analytical, SDG number: L2051463 are mostly acceptable with some issues identified and discussed in the DUSR and validation summaries. There are volatile data that are qualified as rejected, unusable (R) in the data pack. The reasons for rejecting the data are outlined in the DUSR and QA/QC review. The data is rejected based solely on the validation guidance criteria. The rejected data may be determined to be acceptable to the user based on additional information that is not contained in the data validation criteria.

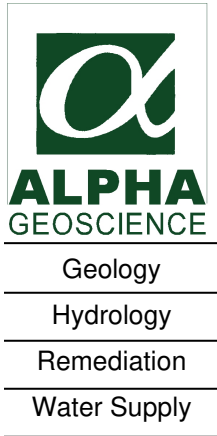
A list of common data validation acronyms is attached to this letter to assist you in interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Sterling Environmental Engineering, P.C.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA:dca
attachments

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**Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L2051463**

**6 Ground Water Samples, 1 Field Duplicate,
1 Equipment Blank, and 1 Trip Blank
Collected November 18, 2020**

Prepared by: Donald Anné
December 18, 2020

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained volatile results for 6 ground water samples, 1 field duplicate, and 1 trip blank; 1,4-dioxane results for 3 ground water samples and 1 field duplicate; and PFAS results for 3 ground water samples, 1 field duplicate, and 2 equipment blank.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive volatile result for vinyl chloride was qualified as estimated (J) in sample GZ-21D because the relative percent difference for vinyl chloride was above allowable maximum in the associated aqueous LCS/LCSD.
- The positive volatile result for cyclohexane was qualified as estimated (J) in sample OSMW-4 because the relative percent difference for cyclohexane was above allowable maximum in the associated aqueous LCS/LCSD.
- The “not detected” volatile results for 1,4-dioxane were qualified as “rejected, unusable” (R) in samples OSMW-3, OSMW-4, GZ-21D, and B6-OWD because the RRF for 1,4-dioxane was below the allowable minimum in the associated continuing calibration.
- The “not detected” PFAS results for NMeFOSAA qualified as “estimated” (UJ) in samples OSMW-3, GZ-22D, GZ-23D, and DUP11182020 because percent recovery for br-NMeFOSAA (part of the total) was below QC limits, but not below 10% in the associated continuing calibration.

DUSR
Lab Number: L2051463

All data that are not qualified rejected, unusable (R) are considered usable with estimated (UJ or J) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.



**QA/QC Review of Method 8260C Volatiles Data
for Alpha Analytical, SDG Number: L2051463**

**6 Ground Water Samples, 1 Field Duplicate,
and 1 Trip Blank
Collected November 18, 2020**

Prepared by: Donald Anné
December 18, 2020

Geology

Hydrology

Remediation

Water Supply

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for bromomethane, chloroethane, acetone, 2-butanone, trichloroethene, and 4-methyl-2-pentanone were below the method minimums, but not below 0.010 for ELAINE on 09-29-20. The average RRFs for acetone, 2-butanone, and 4-methyl-2-pentanone were below the method minimums, but not below 0.010 for VOA122 on 11-18-20. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for bromomethane, acetone, methyl acetate, 2-butanone, trichloroethene, 4-methyl-2-pentanone, 2-hexanone, and 1,2-dibromo-3-chloropropane were below the method minimums, but not below 0.010 on 11-23-20 (VE201123N01). The RRFs for bromomethane, acetone, 2-butanone, and 4-methyl-2-pentanone were below the method minimums, but not below 0.010 on 11-24-20 (V22201124A01). The %Ds for freon 113, acetone, methyl acetate, methyl cyclohexane, 2-hexanone, and 1,2-dibromo-3-chloropropane were above the method maximum on 11-23-20 (VE201123N01). The %Ds for bromomethane and acetone were above the method maximum on 11-24-20 (V22201124A01). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRF for 1,4-dioxane was below the allowable minimums (0.001) on 11-23-20 (VE201123N01). Positive results for 1,4-dioxane should be considered estimated, biased low (J-) and “not detected” results rejected, unusable (R) in associated samples.

The %Ds for methyl acetate, 2-hexanone, 1,2-dibromo-3-chloropropane, and 1,2,3-trichlorobenzene were above the allowable maximum (25%) on 11-23-20 (VE201123N01). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method and trip blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples and trip blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target compounds were below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample GZ-22D.

Laboratory Control Sample: The percent recoveries (%Rs) for target compounds were within QC limits, but the relative percent differences (RPDs) for vinyl chloride, chloroethane, and cyclohexane were above the allowable maximum for aqueous samples WG1438001-3/4. The %Rs for target compounds were within QC limits, but the RPD for acetone was above the allowable maximum for aqueous samples WG1438001-3/4. Positive results for these compounds should be considered estimated (J) in associated aqueous samples.

Field Duplicates: The relative percent differences for applicable compounds were below the allowable maximum (20%) for aqueous field duplicate pair GZ-22D/DUP11182020 (attached table), as required.

Compound ID: Checked compounds and surrogates were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.



**QA/QC Review of Method 8270D SIM 1,4-Dioxane
Data for Alpha Analytical, SDG Number: L2051463**

**3 Ground Water Samples and 1 Field Duplicate
Collected November 18, 2020**

Geology

Hydrology

Remediation

Water Supply

Prepared by: Donald Anné
December 18, 2020

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

Initial Calibration: The average RRF for 1,4-dioxane was above the allowable minimum (0.010) and the %RSD was below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for 1,4-dioxane were above the allowable minimum (0.010) and the %Ds were below the allowable maximum (25%), as required.

Blanks: The analysis of the method blank reported 1,4-dioxane as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples and equipment blank.

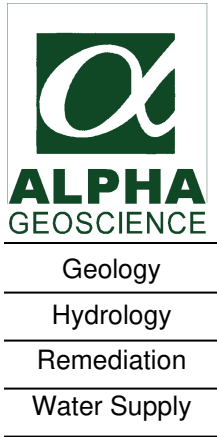
Matrix Spike/Matrix Spike Duplicate: The relative percent difference for 1,4-dioxane was below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample GZ-22D.

Laboratory Control Sample: The relative percent difference for 1,4-dioxane was below the allowable maximum and the percent recoveries were within QC limits for aqueous samples WG1436803-2/3.

Field Duplicates: The relative percent difference for 1,4-dioxane was below the allowable maximum for aqueous field duplicate pair GZ-22D/DUP11182020 (attached table), as required.

Compound ID: Checked 1,4-dioxane results were within quantitation limits.

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**QA/QC Review of Method 537 (Modified) PFAS Data
for Alpha Analytical Labs SDG Number: L2051463**

**3 Ground Water Samples, 1 Field Duplicate,
1 Field Blank, and 1 Equipment Blank
Collected November 18, 2020**

Prepared by: Donald Anné
December 18, 2020

Holding Times: Samples were extracted and analyzed within USEPA holding time.

Initial Calibration: The %RSDs for applicable PFASs were below the method maximum (20%) or the R or R squared were above the method minimums, as required.

Continuing Calibration: The percent recovery for br-NMeFOSAA was below QC limits, but not below 10% on 12-03-20 (WG1440658-3). Positive and “not detected” results for NMeFOSAA should be considered estimated (J, UJ) in associated samples.

The percent recoveries for 8:2FTS and PFTA were above QC limits on 12-04-20 (WG1440658-4). Positive results for 8:2FTS and PFTA should be considered estimated (J) in associated samples.

Blanks: The analyses of method and equipment blanks reported target PFAS as not detected.

Surrogate Recovery: Two of eighteen (S8, S12) surrogate recoveries for samples OSMW-3, GZ-23D, and DUP11182020 were above QC limits. One of eighteen (S12) surrogate recoveries for sample GZ-22D was above QC limits. Positive results associated with surrogates outside QC limits should be considered estimated (J) in these samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target PFAS were below the allowable maximum and the percent recoveries within QC limits for aqueous MS/MSD sample GZ-22D.

Laboratory Control Sample: The relative percent differences for target PFAS were below the allowable maximum and the percent recoveries were within QC limits for aqueous samples WG1440357-2/3.

Method 537 (Modified) PFAS Data
Lab Number: L2051463

Field Duplicates: The relative percent differences for applicable PFAS were below the allowable maximum (20%) for aqueous field duplicate pair GZ-22D/DUP11182020 (attached table), as required.

Compound ID: Checked compound and surrogate results were within LC quantitation limits.

Volatiles Data

Calculations for Field Duplicate Relative Percent Difference (RPD) SDG No. L2051463

S1= GZ-22D

S2= DUP11182020

| <u>Analyte</u> | <u>S1</u> | <u>S2</u> | <u>RPD (%)</u> |
|--------------------------|-------------|-------------|----------------|
| 1,2-Dichloroethane | 19 | 19 | 0% |
| Benzene | 2.7 | 2.7 | 0% |
| Vinyl chloride | 5.6 | 5.7 | 2% |
| trans-1,2-Dichloroethene | 78 | 78 | 0% |
| Trichloroethene | 0.56 | 0.48 | NC |
| Methyl tert butyl ether | 1.8 | 1.6 | NC |
| cis-1,2-Dichloroethene | 8.6 | 7.9 | 8% |
| Cyclohexane | 2.0 | 1.8 | NC |
| Methyl cyclohexane | 1.0 | 1.0 | NC |

* RPD is above the allowable maximum (20%)

Results are in units of ug/L.

Bold numbers were values that are below the CRQL or above the high standard.

ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

1,4-Dioxane (SIM) Data

Calculations for Field Duplicate Relative Percent Difference (RPD) SDG No. L2051463

S1= GZ-22D

S2= DUP11182020

| <u>Analyte</u> | <u>S1</u> | <u>S2</u> | <u>RPD (%)</u> |
|----------------|-----------|-----------|----------------|
| 1,4-Dioxane | 3180 | 3270 | 3% |

* RPD is above the allowable maximum (20%)

Results are in units of ng/L.

Bold numbers were values that are below the CRQL.

ND - Not detected.

NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

EPA Method 537 PFC Data

Calculations for Field Duplicate Relative Percent Difference (RPD) SDG No. L2051463

S1= GZ-22D

S2= DUP11182020

| <u>Analyte</u> | <u>S1</u> | <u>S2</u> | <u>RPD (%)</u> |
|--------------------------------------|--------------|--------------|----------------|
| Perfluorobutanoic acid (PFBA) | 3.8 | 3.65 | 4% |
| Perfluoropentanoic acid (PFPeA) | 4.33 | 3.90 | 10% |
| Perfluorobutanesulfonic Acid (PFBS) | 1.89 | 1.77 | NC |
| Perfluorohexanoic Acid (PFHxA) | 2.57 | 2.46 | 4% |
| Perfluoroheptanoic acid (PFHpA) | 1.78 | 1.70 | NC |
| Perfluorohexanesulfonic Acid (PFHxS) | 9.63 | 9.42 | 2% |
| Perfluorooctanoic Acid (PFOA) | 6.26 | 6.31 | 1% |
| Perfluorononanoic Acid (PFNA) | 0.570 | 0.479 | NC |
| Perfluorooctanesulfonic Acid (PFOS) | 8.68 | 8.93 | 3% |
| PFOA/PFOS, Total | 14.9 | 15.2 | 2% |

* RPD is above the allowable maximum (20%)

All results are in ng/L.

Bold numbers were values that are below the CRQL or above the high standard.

ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-01D | Date Collected | : 11/18/20 15:45 |
| Client ID | : OSMW-3 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/23/20 23:13 |
| Sample Matrix | : WATER | Dilution Factor | : 20 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N16 | Instrument ID | : ELAINE |
| Sample Amount | : 0.5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|----|-----|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 50 | 14. | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 50 | 14. | U |
| 67-66-3 | Chloroform | ND | 50 | 14. | U |
| 56-23-5 | Carbon tetrachloride | ND | 10 | 2.7 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | 2.7 | U |
| 124-48-1 | Dibromochloromethane | ND | 10 | 3.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 30 | 10. | U |
| 127-18-4 | Tetrachloroethene | 2200 | 10 | 3.6 | |
| 108-90-7 | Chlorobenzene | ND | 50 | 14. | U |
| 75-69-4 | Trichlorofluoromethane | ND | 50 | 14. | U |
| 107-06-2 | 1,2-Dichloroethane | 4.7 | 10 | 2.6 | J |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 50 | 14. | U |
| 75-27-4 | Bromodichloromethane | ND | 10 | 3.8 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10 | 3.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10 | 2.9 | U |
| 75-25-2 | Bromoform | ND | 40 | 13. | U |
| 79-34-5 | 1,1,1,2-Tetrachloroethane | ND | 10 | 3.3 | U |
| 71-43-2 | Benzene | ND | 10 | 3.2 | U |
| 108-88-3 | Toluene | ND | 50 | 14. | U |
| 100-41-4 | Ethylbenzene | ND | 50 | 14. | U |
| 74-87-3 | Chloromethane | ND | 50 | 14. | U |
| 74-83-9 | Bromomethane | ND | 50 | 14. | U |
| 75-01-4 | Vinyl chloride | ND | 20 | 1.4 | U |
| 75-00-3 | Chloroethane | ND | 50 | 14. | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 10 | 3.4 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Lab ID : L2051463-01D
 Client ID : OSMW-3
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : VE201123N16
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2051463
 Project Number : 28012
 Date Collected : 11/18/20 15:45
 Date Received : 11/18/20
 Date Analyzed : 11/23/20 23:13
 Dilution Factor : 20
 Analyst : PD
 Instrument ID : ELAINE
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 50 | 14. | U |
| 79-01-6 | Trichloroethene | 290 | 10 | 3.5 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 50 | 14. | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 50 | 14. | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 50 | 14. | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 50 | 14. | U |
| 179601-23-1 | p/m-Xylene | ND | 50 | 14. | U |
| 95-47-6 | o-Xylene | ND | 50 | 14. | U |
| 156-59-2 | cis-1,2-Dichloroethene | 42 | 50 | 14. | J |
| 100-42-5 | Styrene | ND | 50 | 14. | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 100 | 20. | U |
| 67-64-1 | Acetone | ND | 100 | 29. | U |
| 75-15-0 | Carbon disulfide | ND | 100 | 20. | U |
| 78-93-3 | 2-Butanone | ND | 100 | 39. | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 100 | 20. | U |
| 591-78-6 | 2-Hexanone | ND | 100 | 20. | U |
| 74-97-5 | Bromochloromethane | ND | 50 | 14. | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 40 | 13. | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 14. | U |
| 98-82-8 | Isopropylbenzene | ND | 50 | 14. | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 50 | 14. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 50 | 14. | U |
| 79-20-9 | Methyl Acetate | ND | 40 | 4.7 | U |
| 110-82-7 | Cyclohexane | ND | 200 | 5.4 | U |
| 123-91-1 | 1,4-Dioxane | ND | 5000 | 1200 | U R |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-01D | Date Collected | : 11/18/20 15:45 |
| Client ID | : OSMW-3 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/23/20 23:13 |
| Sample Matrix | : WATER | Dilution Factor | : 20 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N16 | Instrument ID | : ELAINE |
| Sample Amount | : 0.5 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|-----|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 50 | 14. | U |
| 108-87-2 | Methyl cyclohexane | ND | 200 | 7.9 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | |
|---|---------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Lab ID : L2051463-02 | Date Collected : 11/18/20 12:20 |
| Client ID : GZ-22D | Date Received : 11/18/20 |
| Sample Location : MAMARONECK, NY | Date Analyzed : 11/24/20 18:27 |
| Sample Matrix : WATER | Dilution Factor : 1 |
| Analytical Method : 1,8260C | Analyst : AJK |
| Lab File ID : V22201124A23 | Instrument ID : VOA122 |
| Sample Amount : 10 ml | GC Column : RTX-502.2 |
| Level : LOW | %Solids : N/A |
| Extract Volume (MeOH) : N/A | Injection Volume : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | 19 | 0.50 | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | 2.7 | 0.50 | 0.16 | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | 5.6 | 1.0 | 0.07 | |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-02 | Date Collected | : 11/18/20 12:20 |
| Client ID | : GZ-22D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 18:27 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A23 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | 78 | 2.5 | 0.70 | |
| 79-01-6 | Trichloroethene | 0.56 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | 1.8 | 2.5 | 0.70 | J |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 8.6 | 2.5 | 0.70 | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | 2.0 | 10 | 0.27 | J |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-02 | Date Collected | : 11/18/20 12:20 |
| Client ID | : GZ-22D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 18:27 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A23 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 2.5 | 0.70 | U |
| 108-87-2 | Methyl cyclohexane | 1.0 | 10 | 0.40 | J |



Results Summary
Form 1
Volatile Organics by GC/MS

| | |
|---|---------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Lab ID : L2051463-03 | Date Collected : 11/18/20 15:00 |
| Client ID : GZ-23D | Date Received : 11/18/20 |
| Sample Location : MAMARONECK, NY | Date Analyzed : 11/24/20 19:16 |
| Sample Matrix : WATER | Dilution Factor : 1 |
| Analytical Method : 1,8260C | Analyst : AJK |
| Lab File ID : V22201124A25 | Instrument ID : VOA122 |
| Sample Amount : 10 ml | GC Column : RTX-502.2 |
| Level : LOW | %Solids : N/A |
| Extract Volume (MeOH) : N/A | Injection Volume : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 19 | 0.50 | 0.18 | |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | 0.50 | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | 5.3 | 0.50 | 0.16 | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | 5.6 | 1.0 | 0.07 | |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.18 | 0.50 | 0.17 | J |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-03 | Date Collected | : 11/18/20 15:00 |
| Client ID | : GZ-23D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 19:16 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A25 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 15 | 0.50 | 0.18 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | 1.2 | 2.5 | 0.70 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 23 | 2.5 | 0.70 | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | ND | 10 | 0.27 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-03 | Date Collected | : 11/18/20 15:00 |
| Client ID | : GZ-23D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 19:16 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A25 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 2.5 | 0.70 | U |
| 108-87-2 | Methyl cyclohexane | ND | 10 | 0.40 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-04 | Date Collected | : 11/18/20 00:00 |
| Client ID | : DUP11182020 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 18:52 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A24 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | 19 | 0.50 | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | 2.7 | 0.50 | 0.16 | |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | 5.7 | 1.0 | 0.07 | |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-04 | Date Collected | : 11/18/20 00:00 |
| Client ID | : DUP11182020 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 18:52 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A24 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | 78 | 2.5 | 0.70 | |
| 79-01-6 | Trichloroethene | 0.48 | 0.50 | 0.18 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | 1.6 | 2.5 | 0.70 | J |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7.9 | 2.5 | 0.70 | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | 1.8 | 10 | 0.27 | J |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-04 | Date Collected | : 11/18/20 00:00 |
| Client ID | : DUP11182020 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 18:52 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A24 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 2.5 | 0.70 | U |
| 108-87-2 | Methyl cyclohexane | 1.0 | 10 | 0.40 | J |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-06D | Date Collected | : 11/18/20 16:25 |
| Client ID | : B6-OWD | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 02:02 |
| Sample Matrix | : WATER | Dilution Factor | : 10 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N24 | Instrument ID | : ELAINE |
| Sample Amount | : 1 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 25 | 7.0 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 25 | 7.0 | U |
| 67-66-3 | Chloroform | ND | 25 | 7.0 | U |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 1.3 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 10 | 1.4 | U |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 15 | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 580 | 5.0 | 1.8 | |
| 108-90-7 | Chlorobenzene | ND | 25 | 7.0 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 25 | 7.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 9.7 | 5.0 | 1.3 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25 | 7.0 | U |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.9 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 1.6 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.4 | U |
| 75-25-2 | Bromoform | ND | 20 | 6.5 | U |
| 79-34-5 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 1.7 | U |
| 71-43-2 | Benzene | ND | 5.0 | 1.6 | U |
| 108-88-3 | Toluene | ND | 25 | 7.0 | U |
| 100-41-4 | Ethylbenzene | ND | 25 | 7.0 | U |
| 74-87-3 | Chloromethane | ND | 25 | 7.0 | U |
| 74-83-9 | Bromomethane | ND | 25 | 7.0 | U |
| 75-01-4 | Vinyl chloride | ND | 10 | 0.71 | U |
| 75-00-3 | Chloroethane | ND | 25 | 7.0 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 1.7 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Lab ID : L2051463-06D
 Client ID : B6-OWD
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : VE201123N24
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2051463
 Project Number : 28012
 Date Collected : 11/18/20 16:25
 Date Received : 11/18/20
 Date Analyzed : 11/24/20 02:02
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : ELAINE
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|-----|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | 26 | 25 | 7.0 | |
| 79-01-6 | Trichloroethene | 1400 | 5.0 | 1.8 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25 | 7.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25 | 7.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25 | 7.0 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 25 | 7.0 | U |
| 179601-23-1 | p/m-Xylene | ND | 25 | 7.0 | U |
| 95-47-6 | o-Xylene | ND | 25 | 7.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 760 | 25 | 7.0 | |
| 100-42-5 | Styrene | ND | 25 | 7.0 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 50 | 10. | U |
| 67-64-1 | Acetone | ND | 50 | 15. | U |
| 75-15-0 | Carbon disulfide | ND | 50 | 10. | U |
| 78-93-3 | 2-Butanone | ND | 50 | 19. | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 50 | 10. | U |
| 591-78-6 | 2-Hexanone | ND | 50 | 10. | U |
| 74-97-5 | Bromochloromethane | ND | 25 | 7.0 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | 6.5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 25 | 7.0 | U |
| 98-82-8 | Isopropylbenzene | ND | 25 | 7.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 25 | 7.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 7.0 | U |
| 79-20-9 | Methyl Acetate | ND | 20 | 2.3 | U |
| 110-82-7 | Cyclohexane | ND | 100 | 2.7 | U |
| 123-91-1 | 1,4-Dioxane | ND | 2500 | 610 | U R |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-06D | Date Collected | : 11/18/20 16:25 |
| Client ID | : B6-OWD | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 02:02 |
| Sample Matrix | : WATER | Dilution Factor | : 10 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N24 | Instrument ID | : ELAINE |
| Sample Amount | : 1 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|-----|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 25 | 7.0 | U |
| 108-87-2 | Methyl cyclohexane | ND | 100 | 4.0 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-07 | Date Collected | : 11/18/20 13:55 |
| Client ID | : GZ-21D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 01:41 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N23 | Instrument ID | : ELAINE |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | 110 | 0.50 | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | 0.27 | 0.50 | 0.16 | J |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | 2.1 | 1.0 | 0.07 | J |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-07 | Date Collected | : 11/18/20 13:55 |
| Client ID | : GZ-21D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 01:41 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N23 | Instrument ID | : ELAINE |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | 1.9 | 2.5 | 0.70 | J |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | 0.74 | 2.5 | 0.70 | J |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 140 | 2.5 | 0.70 | |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | ND | 10 | 0.27 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U R |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-07 | Date Collected | : 11/18/20 13:55 |
| Client ID | : GZ-21D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 01:41 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N23 | Instrument ID | : ELAINE |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 2.5 | 0.70 | U |
| 108-87-2 | Methyl cyclohexane | ND | 10 | 0.40 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-08 | Date Collected | : 11/18/20 11:10 |
| Client ID | : OSMW-4 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 01:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N22 | Instrument ID | : ELAINE |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-08 | Date Collected | : 11/18/20 11:10 |
| Client ID | : OSMW-4 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 01:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N22 | Instrument ID | : ELAINE |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | 0.39 | 0.50 | 0.18 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | 4.1 | 10 | 0.27 | J J |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U R |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-08 | Date Collected | : 11/18/20 11:10 |
| Client ID | : OSMW-4 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 01:20 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : PD |
| Lab File ID | : VE201123N22 | Instrument ID | : ELAINE |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 2.5 | 0.70 | U |
| 108-87-2 | Methyl cyclohexane | 1.3 | 10 | 0.40 | J |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-09 | Date Collected | : 11/18/20 00:00 |
| Client ID | : TB11182020 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 17:13 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A20 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 75-09-2 | Methylene chloride | ND | 2.5 | 0.70 | U |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.5 | 0.70 | U |
| 67-66-3 | Chloroform | ND | 2.5 | 0.70 | U |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.13 | U |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.14 | U |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.5 | 0.50 | U |
| 127-18-4 | Tetrachloroethene | ND | 0.50 | 0.18 | U |
| 108-90-7 | Chlorobenzene | ND | 2.5 | 0.70 | U |
| 75-69-4 | Trichlorofluoromethane | ND | 2.5 | 0.70 | U |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.5 | 0.70 | U |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.19 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.14 | U |
| 75-25-2 | Bromoform | ND | 2.0 | 0.65 | U |
| 79-34-5 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.17 | U |
| 71-43-2 | Benzene | ND | 0.50 | 0.16 | U |
| 108-88-3 | Toluene | ND | 2.5 | 0.70 | U |
| 100-41-4 | Ethylbenzene | ND | 2.5 | 0.70 | U |
| 74-87-3 | Chloromethane | ND | 2.5 | 0.70 | U |
| 74-83-9 | Bromomethane | ND | 2.5 | 0.70 | U |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.07 | U |
| 75-00-3 | Chloroethane | ND | 2.5 | 0.70 | U |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.50 | 0.17 | U |



Results Summary

Form 1

Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-09 | Date Collected | : 11/18/20 00:00 |
| Client ID | : TB11182020 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 17:13 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A20 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
| | | Results | RL | MDL | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 79-01-6 | Trichloroethene | ND | 0.50 | 0.18 | U |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.5 | 0.70 | U |
| 1634-04-4 | Methyl tert butyl ether | ND | 2.5 | 0.70 | U |
| 179601-23-1 | p/m-Xylene | ND | 2.5 | 0.70 | U |
| 95-47-6 | o-Xylene | ND | 2.5 | 0.70 | U |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.5 | 0.70 | U |
| 100-42-5 | Styrene | ND | 2.5 | 0.70 | U |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | U |
| 67-64-1 | Acetone | ND | 5.0 | 1.5 | U |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 1.0 | U |
| 78-93-3 | 2-Butanone | ND | 5.0 | 1.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 1.0 | U |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 1.0 | U |
| 74-97-5 | Bromochloromethane | ND | 2.5 | 0.70 | U |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.65 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.5 | 0.70 | U |
| 98-82-8 | Isopropylbenzene | ND | 2.5 | 0.70 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.5 | 0.70 | U |
| 79-20-9 | Methyl Acetate | ND | 2.0 | 0.23 | U |
| 110-82-7 | Cyclohexane | ND | 10 | 0.27 | U |
| 123-91-1 | 1,4-Dioxane | ND | 250 | 61. | U |



Results Summary
Form 1
Volatile Organics by GC/MS

| | | | |
|-----------------------|--------------------------------------|------------------|------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-09 | Date Collected | : 11/18/20 00:00 |
| Client ID | : TB11182020 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 11/24/20 17:13 |
| Sample Matrix | : WATER | Dilution Factor | : 1 |
| Analytical Method | : 1,8260C | Analyst | : AJK |
| Lab File ID | : V22201124A20 | Instrument ID | : VOA122 |
| Sample Amount | : 10 ml | GC Column | : RTX-502.2 |
| Level | : LOW | %Solids | : N/A |
| Extract Volume (MeOH) | : N/A | Injection Volume | : N/A |

| CAS NO. | Parameter | ug/L | | | Qualifier |
|----------|--------------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 76-13-1 | Freon-113 | ND | 2.5 | 0.70 | U |
| 108-87-2 | Methyl cyclohexane | ND | 10 | 0.40 | U |



Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

| | |
|--|--|
| Client : Sterling Environmental Engineering Project Name : FORMER M. ARGUESO Lab ID : L2051463-01 Client ID : OSMW-3 Sample Location : MAMARONECK, NY Sample Matrix : WATER Analytical Method : 1,8270D-SIM Lab File ID : F2211232037 Sample Amount : 250 ml Extraction Method : EPA 3510C Extract Volume : 2500 uL GPC Cleanup : N | Lab Number : L2051463 Project Number : 28012 Date Collected : 11/18/20 15:45 Date Received : 11/18/20 Date Analyzed : 11/24/20 00:13 Date Extracted : 11/20/20 Dilution Factor : 1 Analyst : PS Instrument ID : PAH22 GC Column : RTX-5 %Solids : N/A Injection Volume : 1 uL |
|--|--|

| CAS NO. | Parameter | ng/l | | | Qualifier |
|----------|-------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 123-91-1 | 1,4-Dioxane | 2590 | 150 | 33.9 | |



Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

| | |
|--|--|
| Client : Sterling Environmental Engineering Project Name : FORMER M. ARGUESO Lab ID : L2051463-02 Client ID : GZ-22D Sample Location : MAMARONECK, NY Sample Matrix : WATER Analytical Method : 1,8270D-SIM Lab File ID : F2211242006 Sample Amount : 250 ml Extraction Method : EPA 3510C Extract Volume : 2500 uL GPC Cleanup : N | Lab Number : L2051463 Project Number : 28012 Date Collected : 11/18/20 12:20 Date Received : 11/18/20 Date Analyzed : 11/24/20 11:04 Date Extracted : 11/20/20 Dilution Factor : 1 Analyst : PS Instrument ID : PAH22 GC Column : RTX-5 %Solids : N/A Injection Volume : 1 uL |
|--|--|

| CAS NO. | Parameter | ng/l | | | Qualifier |
|----------|-------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 123-91-1 | 1,4-Dioxane | 3180 | 150 | 33.9 | |



Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

| | |
|--|--|
| Client : Sterling Environmental Engineering Project Name : FORMER M. ARGUESO Lab ID : L2051463-03 Client ID : GZ-23D Sample Location : MAMARONECK, NY Sample Matrix : WATER Analytical Method : 1,8270D-SIM Lab File ID : F2211232041 Sample Amount : 270 ml Extraction Method : EPA 3510C Extract Volume : 2500 uL GPC Cleanup : N | Lab Number : L2051463 Project Number : 28012 Date Collected : 11/18/20 15:00 Date Received : 11/18/20 Date Analyzed : 11/24/20 01:49 Date Extracted : 11/20/20 Dilution Factor : 1 Analyst : PS Instrument ID : PAH22 GC Column : RTX-5 %Solids : N/A Injection Volume : 1 uL |
|--|--|

| CAS NO. | Parameter | ng/l | | | Qualifier |
|----------|-------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 123-91-1 | 1,4-Dioxane | 407. | 139 | 31.4 | |



Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

| | |
|---|---|
| <p>Client : Sterling Environmental Engineering Project Name : FORMER M. ARGUESO Lab ID : L2051463-04 Client ID : DUP11182020 Sample Location : MAMARONECK, NY Sample Matrix : WATER Analytical Method : 1,8270D-SIM Lab File ID : F2211232042 Sample Amount : 250 ml Extraction Method : EPA 3510C Extract Volume : 2500 uL GPC Cleanup : N</p> | <p>Lab Number : L2051463 Project Number : 28012 Date Collected : 11/18/20 00:00 Date Received : 11/18/20 Date Analyzed : 11/24/20 02:13 Date Extracted : 11/20/20 Dilution Factor : 1 Analyst : PS Instrument ID : PAH22 GC Column : RTX-5 %Solids : N/A Injection Volume : 1 uL</p> |
|---|---|

| CAS NO. | Parameter | ng/l | | | Qualifier |
|----------|-------------|---------|-----|------|-----------|
| | | Results | RL | MDL | |
| 123-91-1 | 1,4-Dioxane | 3270 | 150 | 33.9 | |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

| | |
|---|----------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Lab ID : L2051463-01 | Date Collected : 11/18/20 15:45 |
| Client ID : OSMW-3 | Date Received : 11/18/20 |
| Sample Location : MAMARONECK, NY | Date Analyzed : 12/04/20 01:24 |
| Sample Matrix : WATER | Date Extracted : 12/02/20 |
| Analytical Method : 134,LCMSMS-ID | Dilution Factor : 1 |
| Lab File ID : I33385 | Analyst : JW |
| Sample Amount : 266.26 g | Instrument ID : LCMS02 |
| Extraction Method : ALPHA 23528 | GC Column : Acquity UPLC BEH C18 |
| Extract Volume : 1000 uL | %Solids : N/A |
| GPC Cleanup : N | Injection Volume : 3 uL |

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|---|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 375-22-4 | Perfluorobutanoic Acid (PFBA) | 5.32 | 1.88 | 0.383 | |
| 2706-90-3 | Perfluoropentanoic Acid (PFPeA) | 7.57 | 1.88 | 0.372 | |
| 375-73-5 | Perfluorobutanesulfonic Acid (PFBS) | 1.97 | 1.88 | 0.223 | |
| 307-24-4 | Perfluorohexanoic Acid (PFHxA) | 4.04 | 1.88 | 0.308 | |
| 375-85-9 | Perfluoroheptanoic Acid (PFHpA) | 2.72 | 1.88 | 0.211 | |
| 355-46-4 | Perfluorohexanesulfonic Acid (PFHxS) | 3.54 | 1.88 | 0.353 | |
| 335-67-1 | Perfluorooctanoic Acid (PFOA) | 8.30 | 1.88 | 0.222 | F |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 1.88 | 1.25 | U |
| 375-92-8 | Perfluoroheptanesulfonic Acid (PFHpS) | ND | 1.88 | 0.646 | U |
| 375-95-1 | Perfluorononanoic Acid (PFNA) | 0.747 | 1.88 | 0.293 | J |
| 1763-23-1 | Perfluorooctanesulfonic Acid (PFOS) | 6.90 | 1.88 | 0.473 | F |
| 335-76-2 | Perfluorodecanoic Acid (PFDA) | ND | 1.88 | 0.285 | U |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 1.88 | 1.14 | U |
| 2355-31-9 | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 1.88 | 0.608 | U UJ |
| 2058-94-8 | Perfluoroundecanoic Acid (PFUnA) | ND | 1.88 | 0.244 | U |
| 335-77-3 | Perfluorodecanesulfonic Acid (PFDS) | ND | 1.88 | 0.920 | U |
| 754-91-6 | Perfluorooctanesulfonamide (FOSA) | ND | 1.88 | 0.544 | U |
| 2991-50-6 | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 1.88 | 0.755 | U |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Lab ID : L2051463-01
 Client ID : OSMW-3
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I33385
 Sample Amount : 266.26 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2051463
 Project Number : 28012
 Date Collected : 11/18/20 15:45
 Date Received : 11/18/20
 Date Analyzed : 12/04/20 01:24
 Date Extracted : 12/02/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 307-55-1 | Perfluorododecanoic Acid (PFDoA) | ND | 1.88 | 0.349 | U |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND | 1.88 | 0.307 | U |
| 376-06-7 | Perfluorotetradecanoic Acid (PFTA) | ND | 1.88 | 0.233 | U |
| NONE | PFOA/PFOS, Total | 15.2 | 1.88 | 0.222 | |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

| | |
|---|----------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Lab ID : L2051463-02 | Date Collected : 11/18/20 12:20 |
| Client ID : GZ-22D | Date Received : 11/18/20 |
| Sample Location : MAMARONECK, NY | Date Analyzed : 12/04/20 01:41 |
| Sample Matrix : WATER | Date Extracted : 12/02/20 |
| Analytical Method : 134,LCMSMS-ID | Dilution Factor : 1 |
| Lab File ID : I33386 | Analyst : JW |
| Sample Amount : 262.92 g | Instrument ID : LCMS02 |
| Extraction Method : ALPHA 23528 | GC Column : Acquity UPLC BEH C18 |
| Extract Volume : 1000 uL | %Solids : N/A |
| GPC Cleanup : N | Injection Volume : 3 uL |

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|---|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 375-22-4 | Perfluorobutanoic Acid (PFBA) | 3.80 | 1.90 | 0.388 | |
| 2706-90-3 | Perfluoropentanoic Acid (PFPeA) | 4.33 | 1.90 | 0.376 | |
| 375-73-5 | Perfluorobutanesulfonic Acid (PFBS) | 1.89 | 1.90 | 0.226 | J |
| 307-24-4 | Perfluorohexanoic Acid (PFHxA) | 2.57 | 1.90 | 0.312 | F |
| 375-85-9 | Perfluoroheptanoic Acid (PFHpA) | 1.78 | 1.90 | 0.214 | J |
| 355-46-4 | Perfluorohexanesulfonic Acid (PFHxS) | 9.63 | 1.90 | 0.358 | |
| 335-67-1 | Perfluorooctanoic Acid (PFOA) | 6.26 | 1.90 | 0.224 | F |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 1.90 | 1.27 | U |
| 375-92-8 | Perfluoroheptanesulfonic Acid (PFHpS) | ND | 1.90 | 0.654 | U |
| 375-95-1 | Perfluorononanoic Acid (PFNA) | 0.570 | 1.90 | 0.297 | J |
| 1763-23-1 | Perfluorooctanesulfonic Acid (PFOS) | 8.68 | 1.90 | 0.479 | F |
| 335-76-2 | Perfluorodecanoic Acid (PFDA) | ND | 1.90 | 0.289 | U |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 1.90 | 1.15 | U |
| 2355-31-9 | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 1.90 | 0.616 | U UJ |
| 2058-94-8 | Perfluoroundecanoic Acid (PFUnA) | ND | 1.90 | 0.247 | U |
| 335-77-3 | Perfluorodecanesulfonic Acid (PFDS) | ND | 1.90 | 0.932 | U |
| 754-91-6 | Perfluorooctanesulfonamide (FOSA) | ND | 1.90 | 0.551 | U |
| 2991-50-6 | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 1.90 | 0.764 | U |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Lab ID : L2051463-02
 Client ID : GZ-22D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I33386
 Sample Amount : 262.92 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2051463
 Project Number : 28012
 Date Collected : 11/18/20 12:20
 Date Received : 11/18/20
 Date Analyzed : 12/04/20 01:41
 Date Extracted : 12/02/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 307-55-1 | Perfluorododecanoic Acid (PFDoA) | ND | 1.90 | 0.354 | U |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND | 1.90 | 0.311 | U |
| 376-06-7 | Perfluorotetradecanoic Acid (PFTA) | ND | 1.90 | 0.236 | U |
| NONE | PFOA/PFOS, Total | 14.9 | 1.90 | 0.224 | |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

| | |
|---|----------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Lab ID : L2051463-03 | Date Collected : 11/18/20 15:00 |
| Client ID : GZ-23D | Date Received : 11/18/20 |
| Sample Location : MAMARONECK, NY | Date Analyzed : 12/04/20 02:31 |
| Sample Matrix : WATER | Date Extracted : 12/02/20 |
| Analytical Method : 134,LCMSMS-ID | Dilution Factor : 1 |
| Lab File ID : I33389 | Analyst : JW |
| Sample Amount : 272.45 g | Instrument ID : LCMS02 |
| Extraction Method : ALPHA 23528 | GC Column : Acquity UPLC BEH C18 |
| Extract Volume : 1000 uL | %Solids : N/A |
| GPC Cleanup : N | Injection Volume : 3 uL |

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|---|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 375-22-4 | Perfluorobutanoic Acid (PFBA) | 10.0 | 1.84 | 0.374 | |
| 2706-90-3 | Perfluoropentanoic Acid (PFPeA) | 33.0 | 1.84 | 0.363 | |
| 375-73-5 | Perfluorobutanesulfonic Acid (PFBS) | 3.09 | 1.84 | 0.218 | |
| 307-24-4 | Perfluorohexanoic Acid (PFHxA) | 18.2 | 1.84 | 0.301 | |
| 375-85-9 | Perfluoroheptanoic Acid (PFHpA) | 6.82 | 1.84 | 0.207 | |
| 355-46-4 | Perfluorohexanesulfonic Acid (PFHxS) | 2.86 | 1.84 | 0.345 | |
| 335-67-1 | Perfluorooctanoic Acid (PFOA) | 8.18 | 1.84 | 0.216 | F |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 1.84 | 1.22 | U |
| 375-92-8 | Perfluoroheptanesulfonic Acid (PFHpS) | ND | 1.84 | 0.631 | U |
| 375-95-1 | Perfluorononanoic Acid (PFNA) | 1.63 | 1.84 | 0.286 | J |
| 1763-23-1 | Perfluorooctanesulfonic Acid (PFOS) | 29.7 | 1.84 | 0.462 | F |
| 335-76-2 | Perfluorodecanoic Acid (PFDA) | ND | 1.84 | 0.279 | U |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 1.84 | 1.11 | U |
| 2355-31-9 | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 1.84 | 0.595 | U UJ |
| 2058-94-8 | Perfluoroundecanoic Acid (PFUnA) | ND | 1.84 | 0.238 | U |
| 335-77-3 | Perfluorodecanesulfonic Acid (PFDS) | ND | 1.84 | 0.899 | U |
| 754-91-6 | Perfluorooctanesulfonamide (FOSA) | ND | 1.84 | 0.532 | U |
| 2991-50-6 | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 1.84 | 0.738 | U |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

| | | | |
|--------------------------|--------------------------------------|-------------------------|------------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-03 | Date Collected | : 11/18/20 15:00 |
| Client ID | : GZ-23D | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 12/04/20 02:31 |
| Sample Matrix | : WATER | Date Extracted | : 12/02/20 |
| Analytical Method | : 134,LCMSMS-ID | Dilution Factor | : 1 |
| Lab File ID | : I33389 | Analyst | : JW |
| Sample Amount | : 272.45 g | Instrument ID | : LCMS02 |
| Extraction Method | : ALPHA 23528 | GC Column | : Acquity UPLC BEH C18 |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 3 uL |

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 307-55-1 | Perfluorododecanoic Acid (PFDoA) | ND | 1.84 | 0.341 | U |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND | 1.84 | 0.300 | U |
| 376-06-7 | Perfluorotetradecanoic Acid (PFTA) | ND | 1.84 | 0.228 | U |
| NONE | PFOA/PFOS, Total | 37.9 | 1.84 | 0.216 | |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

| | |
|---|----------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Lab ID : L2051463-04 | Date Collected : 11/18/20 00:00 |
| Client ID : DUP11182020 | Date Received : 11/18/20 |
| Sample Location : MAMARONECK, NY | Date Analyzed : 12/04/20 02:47 |
| Sample Matrix : WATER | Date Extracted : 12/02/20 |
| Analytical Method : 134,LCMSMS-ID | Dilution Factor : 1 |
| Lab File ID : I33390 | Analyst : JW |
| Sample Amount : 277.39 g | Instrument ID : LCMS02 |
| Extraction Method : ALPHA 23528 | GC Column : Acquity UPLC BEH C18 |
| Extract Volume : 1000 uL | %Solids : N/A |
| GPC Cleanup : N | Injection Volume : 3 uL |

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|---|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 375-22-4 | Perfluorobutanoic Acid (PFBA) | 3.65 | 1.80 | 0.368 | |
| 2706-90-3 | Perfluoropentanoic Acid (PFPeA) | 3.90 | 1.80 | 0.357 | |
| 375-73-5 | Perfluorobutanesulfonic Acid (PFBS) | 1.77 | 1.80 | 0.214 | J |
| 307-24-4 | Perfluorohexanoic Acid (PFHxA) | 2.46 | 1.80 | 0.296 | |
| 375-85-9 | Perfluoroheptanoic Acid (PFHpA) | 1.70 | 1.80 | 0.203 | J |
| 355-46-4 | Perfluorohexanesulfonic Acid (PFHxS) | 9.42 | 1.80 | 0.339 | |
| 335-67-1 | Perfluorooctanoic Acid (PFOA) | 6.31 | 1.80 | 0.213 | F |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 1.80 | 1.20 | U |
| 375-92-8 | Perfluoroheptanesulfonic Acid (PFHpS) | ND | 1.80 | 0.620 | U |
| 375-95-1 | Perfluorononanoic Acid (PFNA) | 0.479 | 1.80 | 0.281 | J |
| 1763-23-1 | Perfluorooctanesulfonic Acid (PFOS) | 8.93 | 1.80 | 0.454 | F |
| 335-76-2 | Perfluorodecanoic Acid (PFDA) | ND | 1.80 | 0.274 | U |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 1.80 | 1.09 | U |
| 2355-31-9 | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 1.80 | 0.584 | U UJ |
| 2058-94-8 | Perfluoroundecanoic Acid (PFUnA) | ND | 1.80 | 0.234 | U |
| 335-77-3 | Perfluorodecanesulfonic Acid (PFDS) | ND | 1.80 | 0.883 | U |
| 754-91-6 | Perfluorooctanesulfonamide (FOSA) | ND | 1.80 | 0.523 | U |
| 2991-50-6 | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 1.80 | 0.725 | U |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

| | | | |
|-------------------|--------------------------------------|------------------|------------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Lab ID | : L2051463-04 | Date Collected | : 11/18/20 00:00 |
| Client ID | : DUP11182020 | Date Received | : 11/18/20 |
| Sample Location | : MAMARONECK, NY | Date Analyzed | : 12/04/20 02:47 |
| Sample Matrix | : WATER | Date Extracted | : 12/02/20 |
| Analytical Method | : 134,LCMSMS-ID | Dilution Factor | : 1 |
| Lab File ID | : I33390 | Analyst | : JW |
| Sample Amount | : 277.39 g | Instrument ID | : LCMS02 |
| Extraction Method | : ALPHA 23528 | GC Column | : Acquity UPLC BEH C18 |
| Extract Volume | : 1000 uL | %Solids | : N/A |
| GPC Cleanup | : N | Injection Volume | : 3 uL |

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 307-55-1 | Perfluorododecanoic Acid (PFDoA) | ND | 1.80 | 0.335 | U |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND | 1.80 | 0.295 | U |
| 376-06-7 | Perfluorotetradecanoic Acid (PFTA) | ND | 1.80 | 0.224 | U |
| NONE | PFOA/PFOS, Total | 15.2 | 1.80 | 0.213 | |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

| | |
|---|----------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Lab ID : L2051463-05 | Date Collected : 11/18/20 11:25 |
| Client ID : EB11182020 | Date Received : 11/18/20 |
| Sample Location : MAMARONECK, NY | Date Analyzed : 12/04/20 03:20 |
| Sample Matrix : WATER | Date Extracted : 12/02/20 |
| Analytical Method : 134,LCMSMS-ID | Dilution Factor : 1 |
| Lab File ID : I33392 | Analyst : JW |
| Sample Amount : 277.39 g | Instrument ID : LCMS02 |
| Extraction Method : ALPHA 23528 | GC Column : Acquity UPLC BEH C18 |
| Extract Volume : 1000 uL | %Solids : N/A |
| GPC Cleanup : N | Injection Volume : 3 uL |

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|---|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 375-22-4 | Perfluorobutanoic Acid (PFBA) | ND | 1.80 | 0.368 | U |
| 2706-90-3 | Perfluoropentanoic Acid (PFPeA) | ND | 1.80 | 0.357 | U |
| 375-73-5 | Perfluorobutanesulfonic Acid (PFBS) | ND | 1.80 | 0.214 | U |
| 307-24-4 | Perfluorohexanoic Acid (PFHxA) | ND | 1.80 | 0.296 | U |
| 375-85-9 | Perfluoroheptanoic Acid (PFHpA) | ND | 1.80 | 0.203 | U |
| 355-46-4 | Perfluorohexanesulfonic Acid (PFHxS) | ND | 1.80 | 0.339 | U |
| 335-67-1 | Perfluorooctanoic Acid (PFOA) | ND | 1.80 | 0.213 | U |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 1.80 | 1.20 | U |
| 375-92-8 | Perfluoroheptanesulfonic Acid (PFHpS) | ND | 1.80 | 0.620 | U |
| 375-95-1 | Perfluorononanoic Acid (PFNA) | ND | 1.80 | 0.281 | U |
| 1763-23-1 | Perfluorooctanesulfonic Acid (PFOS) | ND | 1.80 | 0.454 | U |
| 335-76-2 | Perfluorodecanoic Acid (PFDA) | ND | 1.80 | 0.274 | U |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 1.80 | 1.09 | U |
| 2355-31-9 | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND | 1.80 | 0.584 | U |
| 2058-94-8 | Perfluoroundecanoic Acid (PFUnA) | ND | 1.80 | 0.234 | U |
| 335-77-3 | Perfluorodecanesulfonic Acid (PFDS) | ND | 1.80 | 0.883 | U |
| 754-91-6 | Perfluorooctanesulfonamide (FOSA) | ND | 1.80 | 0.523 | U |
| 2991-50-6 | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | ND | 1.80 | 0.725 | U |



Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Lab ID : L2051463-05
 Client ID : EB11182020
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I33392
 Sample Amount : 277.39 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2051463
 Project Number : 28012
 Date Collected : 11/18/20 11:25
 Date Received : 11/18/20
 Date Analyzed : 12/04/20 03:20
 Date Extracted : 12/02/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

| CAS NO. | Parameter | ng/l | | | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
| | | Results | RL | MDL | |
| 307-55-1 | Perfluorododecanoic Acid (PFDoA) | ND | 1.80 | 0.335 | U |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND | 1.80 | 0.295 | U |
| 376-06-7 | Perfluorotetradecanoic Acid (PFTA) | ND | 1.80 | 0.224 | U |
| NONE | PFOA/PFOS, Total | ND | 1.80 | 0.213 | U |



Surrogate (Extracted Internal Standard) Recovery Summary

Form 2

Semivolatiles

Client: Sterling Environmental Engineering
 Project Name: FORMER M. ARGUESO

Lab Number: L2051463
 Project Number: 28012
 Matrix: Water

| CLIENT ID (LAB SAMPLE NO.) | S1 () | S2 () | S3 () | S4 () | S5 () | S6 () | S7 () |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| OSMW-3 (L2051463-01) | 95 | 105 | 101 | 88 | 101 | 116 | 96 |
| GZ-22D (L2051463-02) | 89 | 97 | 100 | 82 | 99 | 114 | 92 |
| GZ-23D (L2051463-03) | 89 | 76 | 89 | 72 | 90 | 103 | 88 |
| DUP1182020 (L2051463-04) | 97 | 104 | 108 | 90 | 107 | 121 | 97 |
| EB11182020 (L2051463-05) | 101 | 137 | 109 | 106 | 112 | 119 | 101 |
| WG1440357-1BLANK | 99 | 129 | 104 | 100 | 107 | 116 | 97 |
| WG1440357-2LCS | 100 | 129 | 107 | 102 | 107 | 113 | 100 |
| WG1440357-3LCSD | 99 | 126 | 101 | 102 | 107 | 112 | 100 |
| GZ-22DMS | 92 | 100 | 100 | 85 | 101 | 115 | 94 |
| GZ-22DMSD | 97 | 105 | 105 | 89 | 106 | 122 | 99 |

QC LIMITS

- (2-156) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
- (16-173) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
- (31-159) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
- (21-145) S4 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
- (30-139) S5 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
- (47-153) S6 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)
- (47-153) S7 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)

* Values outside of QC limits

FORM II A2-NY-537-ISOTOPE



Surrogate (Extracted Internal Standard) Recovery Summary

Form 2

Semivolatiles

Client: Sterling Environmental Engineering
 Project Name: FORMER M. ARGUESO

Lab Number: L2051463
 Project Number: 28012
 Matrix: Water

| CLIENT ID (LAB SAMPLE NO.) | S8 () | S9 () | S10 () | S11 () | S12 () | S13 () | S14 () |
|---------------------------------|-------------|-----------|------------|------------|-------------|------------|------------|
| OSMW-3 (L2051463-01) | 298* | 98 | 97 | 88 | 266* | 89 | 90 |
| GZ-22D (L2051463-02) | 241 | 91 | 89 | 80 | 181* | 70 | 86 |
| GZ-23D (L2051463-03) | 477* | 91 | 83 | 76 | 431* | 152 | 83 |
| DUP1182020 (L2051463-04) | 265* | 96 | 86 | 81 | 173* | 68 | 82 |
| EB11182020 (L2051463-05) | 149 | 106 | 102 | 97 | 167 | 84 | 105 |
| WG1440357-1BLANK | 121 | 102 | 101 | 95 | 139 | 107 | 106 |
| WG1440357-2LCS | 139 | 103 | 100 | 95 | 148 | 110 | 108 |
| WG1440357-3LCSD | 127 | 104 | 99 | 98 | 145 | 99 | 106 |
| GZ-22DMS | 241 | 93 | 89 | 85 | 175* | 73 | 89 |
| GZ-22DMSD | 257* | 98 | 94 | 92 | 187* | 81 | 96 |

QC LIMITS

- (1-244) S8 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
- (34-146) S9 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
- (42-146) S10 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
- (38-144) S11 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
- (7-170) S12 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
- (1-181) S13 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)
- (1-181) S14 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)

* Values outside of QC limits

FORM II A2-NY-537-ISOTOPE (Continued)



Surrogate (Extracted Internal Standard) Recovery Summary

Form 2

Semivolatiles

Client: Sterling Environmental Engineering
 Project Name: FORMER M. ARGUESO

Lab Number: L2051463
 Project Number: 28012
 Matrix: Water

| CLIENT ID (LAB SAMPLE NO.) | S15 () | S16 () | S17 () | S18 () | S19 () | S20 () | S21 () | TOT OUT |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| OSMW-3 (L2051463-01) | 14 | 74 | 84 | 62 | -- | -- | -- | 2 |
| GZ-22D (L2051463-02) | 12 | 63 | 83 | 57 | -- | -- | -- | 1 |
| GZ-23D (L2051463-03) | 28 | 102 | 82 | 59 | -- | -- | -- | 2 |
| DUP1182020 (L2051463-04) | 11 | 65 | 83 | 57 | -- | -- | -- | 2 |
| EB11182020 (L2051463-05) | 35 | 83 | 103 | 67 | -- | -- | -- | 0 |
| WG1440357-1BLANK | 29 | 93 | 108 | 72 | -- | -- | -- | 0 |
| WG1440357-2LCS | 25 | 85 | 109 | 73 | -- | -- | -- | 0 |
| WG1440357-3LCSD | 32 | 90 | 112 | 74 | -- | -- | -- | 0 |
| GZ-22DMS | 8 | 67 | 83 | 60 | -- | -- | -- | 1 |
| GZ-22DMSD | 10 | 73 | 95 | 62 | -- | -- | -- | 2 |

QC LIMITS

- (1-87) S15 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)
- (23-146) S16 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)
- (24-161) S17 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)
- (33-143) S18 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)

* Values outside of QC limits

FORM II A2-NY-537-ISOTOPE (Continued)



Calibration Verification Summary

Form 7

Semivolatiles

| | |
|---|--|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Instrument ID : LCMS02 | Calibration Date : 12/03/20 22:06 |
| Lab File ID : I33373 | Init. Calib. Date(s) : 10/27/20 10/27/20 |
| Sample No : WG1440658-3 | Init. Calib. Times : 17:40 19:19 |
| Channel : | |

| Compound | Concentration (ng/ml) | True Value (ng/ml) | % Recovery | QC Limits |
|--|--------------------------|-----------------------|--------------|-----------|
| Perfluorobutanoic Acid (PFBA) | 0.444 | 0.500 | 88.7 | 50-150 |
| Perfluoropentanoic Acid (PFPeA) | 0.515 | 0.500 | 102.9 | 50-150 |
| Perfluorobutanesulfonic Acid (PFBS) | 0.415 | 0.440 | 93.7 | 50-150 |
| Perfluorohexanoic Acid (PFHxA) | 0.501 | 0.500 | 100.2 | 50-150 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 0.562 | 0.470 | 120.3 | 50-150 |
| Perfluoropentanesulfonic Acid (PFPeS) | 0.432 | 0.470 | 91.9 | 50-150 |
| Perfluoroheptanoic Acid (PFHpA) | 0.455 | 0.500 | 91.1 | 50-150 |
| Perfluorohexanesulfonic Acid-Branched (br-PFHxS) | 0.068 | 0.086 | 80.2 | 50-150 |
| Perfluorohexanesulfonic Acid-Linear (L-PFHxS) | 0.320 | 0.370 | 86.5 | 50-150 |
| Perfluorohexanesulfonic Acid (PFHxS) | 0.388 | 0.460 | - | 50-150 |
| Perfluorooctanoic Acid-Branched (br-PFOA) | | | - | 50-150 |
| Perfluorooctanoic Acid-Linear (L-PFOA) | 0.500 | | 99.9 | 50-150 |
| Perfluorooctanoic Acid (PFOA) | 0.500 | 0.500 | - | 50-150 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 0.391 | 0.480 | 82.4 | 50-150 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 0.387 | 0.480 | 81.5 | 50-150 |
| Perfluorononanoic Acid (PFNA) | 0.494 | 0.500 | 98.8 | 50-150 |
| Perfluorooctanesulfonic Acid-Branched (br-PFOS) | 0.085 | 0.098 | 85.4 | 50-150 |
| Perfluorooctanesulfonic Acid-Linear (L-PFOS) | 0.395 | 0.365 | 108.2 | 50-150 |
| Perfluorooctanesulfonic Acid (PFOS) | 0.480 | 0.460 | - | 50-150 |
| Perfluorodecanoic Acid (PFDA) | 0.447 | 0.500 | 89.4 | 50-150 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 0.274 | 0.480 | 57.2 | 50-150 |
| Perfluorononanesulfonic Acid (PFNS) | 0.482 | 0.480 | 100.5 | 50-150 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 0.298 | 0.500 | - | 50-150 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA) | 0.020 | | 16.5* | 50-150 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA) | 0.278 | 0.500 | 73.2 | 50-150 |
| Perfluoroundecanoic Acid (PFUnA) | 0.488 | 0.500 | 97.6 | 50-150 |
| Perfluorodecanesulfonic Acid (PFDS) | 0.496 | 0.480 | 102.8 | 50-150 |
| Perfluorooctanesulfonamide (FOSA) | 0.499 | 0.500 | 99.8 | 50-150 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 0.464 | 0.500 | - | 50-150 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA) | 0.090 | | 79.9 | 50-150 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA) | 0.374 | 0.500 | 96.6 | 50-150 |
| Perfluorododecanoic Acid (PFDoA) | 0.502 | 0.500 | 100.4 | 50-150 |
| Perfluorotridecanoic Acid (PFTrDA) | 0.498 | 0.500 | 99.7 | 50-150 |
| Perfluorotetradecanoic Acid (PFTA) | 0.601 | 0.500 | 120.3 | 50-150 |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 9.575 | 10.000 | 95.8 | 50-150 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 11.560 | 10.000 | 115.6 | 50-150 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 8.808 | 10.000 | 88.1 | 50-150 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 9.779 | 10.000 | 97.8 | 50-150 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 9.964 | 10.000 | 99.6 | 50-150 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 10.763 | 10.000 | 107.6 | 50-150 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 10.237 | 10.000 | 102.4 | 50-150 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 9.745 | 10.000 | 97.5 | 50-150 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 10.112 | 10.000 | 101.1 | 50-150 |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

| | |
|---|---|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Instrument ID : LCMS02 | Calibration Date : 12/03/20 22:06 |
| Lab File ID : I33373 | Init. Calib. Date(s) : 10/27/20 10/27/20 |
| Sample No : WG1440658-3 | Init. Calib. Times : 17:40 19:19 |
| Channel : | |

| Compound | Concentration (ng/ml) | True Value (ng/ml) | % Recovery | QC Limits |
|--|--------------------------|-----------------------|------------|-----------|
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 9.945 | 10.000 | 99.4 | 50-150 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 9.270 | 10.000 | 92.7 | 50-150 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 9.521 | 10.000 | 95.2 | 50-150 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 10.323 | 10.000 | 103.2 | 50-150 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 13.239 | 10.000 | 132.4 | 50-150 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 10.333 | 10.000 | 103.3 | 50-150 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 5.174 | 10.000 | 51.7 | 50-150 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 9.750 | 10.000 | 97.5 | 50-150 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 9.944 | 10.000 | 99.4 | 50-150 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 7.536 | 10.000 | 75.4 | 50-150 |
| M4PFOS | 12.580 | | 125.8 | |
| M2PFDA | 18.496 | | 185 | |
| M2PFOA | 15.760 | | 157.6 | |
| M3PFBA | 11.810 | | 118.1 | |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Instrument ID : LCMS02
 Lab File ID : I33391
 Sample No : WG1440658-4
 Channel :

Lab Number : L2051463
 Project Number : 28012
 Calibration Date : 12/04/20 03:04
 Init. Calib. Date(s) : 10/27/20 10/27/20
 Init. Calib. Times : 17:40 19:19

| Compound | Concentration (ng/ml) | True Value (ng/ml) | % Recovery | QC Limits |
|---|--------------------------|-----------------------|---------------|-----------|
| Perfluorobutanoic Acid (PFBA) | 10.681 | 10.000 | 106.8 | 70-130 |
| Perfluoropentanoic Acid (PFPeA) | 11.281 | 10.000 | 112.8 | 70-130 |
| Perfluorobutanesulfonic Acid (PFBS) | 10.162 | 8.850 | 114.8 | 70-130 |
| Perfluorohexanoic Acid (PFHxA) | 10.689 | 10.000 | 106.9 | 70-130 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 13.730 | 9.350 | 146.8* | 70-130 |
| Perfluoropentanesulfonic Acid (PFPeS) | 10.222 | 9.400 | 108.7 | 70-130 |
| Perfluoroheptanoic Acid (PFHpA) | 10.676 | 10.000 | 106.8 | 70-130 |
| Perfluorohexanesulfonic Acid-Branched (br-PFHxS) | 1.998 | 1.720 | 117.5 | 70-130 |
| Perfluorohexanesulfonic Acid-Linear (L-PFHxS) | 8.040 | 7.400 | 108.6 | 70-130 |
| Perfluorohexanesulfonic Acid (PFHxS) | 10.038 | 9.120 | - | 70-130 |
| Perfluorooctanoic Acid-Branched (br-PFOA) | | | - | 70-130 |
| Perfluorooctanoic Acid-Linear (L-PFOA) | 10.795 | 10.000 | 107.9 | 70-130 |
| Perfluorooctanoic Acid (PFOA) | 10.795 | 10.000 | - | 70-130 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 11.423 | 9.500 | 120.2 | 70-130 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 10.952 | 9.500 | 115.3 | 70-130 |
| Perfluorononanoic Acid (PFNA) | 10.574 | 10.000 | 105.7 | 70-130 |
| Perfluorooctanesulfonic Acid-Branched (br-PFOS) | 2.499 | 1.960 | 125 | 70-130 |
| Perfluorooctanesulfonic Acid-Linear (L-PFOS) | 8.355 | 7.300 | 114.4 | 70-130 |
| Perfluorooctanesulfonic Acid (PFOS) | 10.854 | 9.260 | - | 70-130 |
| Perfluorodecanoic Acid (PFDA) | 10.667 | 10.000 | 106.7 | 70-130 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 12.993 | 9.600 | 135.3* | 70-130 |
| Perfluorononanesulfonic Acid (PFNS) | 12.664 | 9.600 | 131.9* | 70-130 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 9.673 | 10.000 | - | 70-130 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA) | 2.061 | | 85.9 | 70-130 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA) | 7.612 | 10.000 | 100.2 | 70-130 |
| Perfluoroundecanoic Acid (PFUnA) | 11.333 | 10.000 | 113.3 | 70-130 |
| Perfluorodecanesulfonic Acid (PFDS) | 12.480 | 9.650 | 129.3 | 70-130 |
| Perfluorooctanesulfonamide (FOSA) | 10.446 | 10.000 | 104.5 | 70-130 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA) | 11.004 | 10.000 | - | 70-130 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA) | 2.324 | | 103.3 | 70-130 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA) | 8.680 | 10.000 | 112 | 70-130 |
| Perfluorododecanoic Acid (PFDoA) | 10.879 | 10.000 | 108.8 | 70-130 |
| Perfluorotridecanoic Acid (PFTrDA) | 10.984 | 10.000 | 109.8 | 70-130 |
| Perfluorotetradecanoic Acid (PFTA) | 13.506 | 10.000 | 135.1* | 70-130 |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 9.081 | 10.000 | 90.8 | 50-150 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 10.499 | 10.000 | 105 | 50-150 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 8.791 | 10.000 | 87.9 | 50-150 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 10.645 | 10.000 | 106.4 | 50-150 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 9.772 | 10.000 | 97.7 | 50-150 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 10.244 | 10.000 | 102.4 | 50-150 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 9.983 | 10.000 | 99.8 | 50-150 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 9.215 | 10.000 | 92.2 | 50-150 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 10.561 | 10.000 | 105.6 | 50-150 |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

| | |
|---|--|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Instrument ID : LCMS02 | Calibration Date : 12/04/20 03:04 |
| Lab File ID : I33391 | Init. Calib. Date(s) : 10/27/20 10/27/20 |
| Sample No : WG1440658-4 | Init. Calib. Times : 17:40 19:19 |
| Channel : | |

| Compound | Concentration (ng/ml) | True Value (ng/ml) | % Recovery | QC Limits |
|--|--------------------------|-----------------------|------------|-----------|
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 9.586 | 10.000 | 95.9 | 50-150 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 8.447 | 10.000 | 84.5 | 50-150 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 9.075 | 10.000 | 90.7 | 50-150 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 10.986 | 10.000 | 109.9 | 50-150 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 9.152 | 10.000 | 91.5 | 50-150 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 9.799 | 10.000 | 98 | 50-150 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA) | 5.805 | 10.000 | 58.1 | 50-150 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 7.768 | 10.000 | 77.7 | 50-150 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 9.572 | 10.000 | 95.7 | 50-150 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) | 7.102 | 10.000 | 71 | 50-150 |
| M4PFOS | 13.451 | | 134.5 | |
| M2PFDA | 19.494 | | 194.9 | |
| M2PFOA | 17.294 | | 172.9 | |
| M3PFBA | 14.637 | | 146.4 | |

* Value outside of QC limits.



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Sterling Environmental Engineering Lab Number : L2051463
 Project Name : FORMER M. ARGUESO Project Number : 28012
 Matrix : WATER
 LCS Sample ID : WG1438001-3 Analysis Date : 11/23/20 17:50 File ID : VE201123N01
 LCSD Sample ID : WG1438001-4 Analysis Date : 11/23/20 18:12 File ID : VE201123N02

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|--------------|-----|------------------------------|--------------|----|------|-----------------|-----------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | | | |
| Methylene chloride | 10 | 9.7 | 97 | 10 | 8.9 | 89 | 9 | 70-130 | 20 |
| 1,1-Dichloroethane | 10 | 10 | 100 | 10 | 9.0 | 90 | 11 | 70-130 | 20 |
| Chloroform | 10 | 10 | 100 | 10 | 8.8 | 88 | 13 | 70-130 | 20 |
| Carbon tetrachloride | 10 | 10 | 100 | 10 | 8.7 | 87 | 14 | 63-132 | 20 |
| 1,2-Dichloropropane | 10 | 9.7 | 97 | 10 | 8.7 | 87 | 11 | 70-130 | 20 |
| Dibromochloromethane | 10 | 9.0 | 90 | 10 | 8.8 | 88 | 2 | 63-130 | 20 |
| 1,1,2-Trichloroethane | 10 | 9.6 | 96 | 10 | 9.2 | 92 | 4 | 70-130 | 20 |
| Tetrachloroethene | 10 | 11 | 110 | 10 | 9.0 | 90 | 20 | 70-130 | 20 |
| Chlorobenzene | 10 | 10 | 100 | 10 | 9.2 | 92 | 8 | 75-130 | 20 |
| Trichlorofluoromethane | 10 | 11 | 110 | 10 | 9.3 | 93 | 17 | 62-150 | 20 |
| 1,2-Dichloroethane | 10 | 9.3 | 93 | 10 | 8.9 | 89 | 4 | 70-130 | 20 |
| 1,1,1-Trichloroethane | 10 | 10 | 100 | 10 | 8.9 | 89 | 12 | 67-130 | 20 |
| Bromodichloromethane | 10 | 9.3 | 93 | 10 | 9.0 | 90 | 3 | 67-130 | 20 |
| trans-1,3-Dichloropropene | 10 | 9.1 | 91 | 10 | 8.5 | 85 | 7 | 70-130 | 20 |
| cis-1,3-Dichloropropene | 10 | 9.0 | 90 | 10 | 8.2 | 82 | 9 | 70-130 | 20 |
| Bromoform | 10 | 9.1 | 91 | 10 | 8.8 | 88 | 3 | 54-136 | 20 |
| 1,1,2,2-Tetrachloroethane | 10 | 9.2 | 92 | 10 | 9.0 | 90 | 2 | 67-130 | 20 |
| Benzene | 10 | 10 | 100 | 10 | 8.9 | 89 | 12 | 70-130 | 20 |
| Toluene | 10 | 10 | 100 | 10 | 9.1 | 91 | 9 | 70-130 | 20 |
| Ethylbenzene | 10 | 11 | 110 | 10 | 9.4 | 94 | 16 | 70-130 | 20 |
| Chloromethane | 10 | 10 | 100 | 10 | 8.4 | 84 | 17 | 64-130 | 20 |
| Bromomethane | 10 | 9.3 | 93 | 10 | 7.9 | 79 | 16 | 39-139 | 20 |
| Vinyl chloride | 10 | 11 | 110 | 10 | 8.6 | 86 | 24 Q | 55-140 | 20 |
| Chloroethane | 10 | 12 | 120 | 10 | 8.9 | 89 | 30 Q | 55-138 | 20 |
| 1,1-Dichloroethene | 10 | 10 | 100 | 10 | 8.4 | 84 | 17 | 61-145 | 20 |
| trans-1,2-Dichloroethene | 10 | 10 | 100 | 10 | 9.2 | 92 | 8 | 70-130 | 20 |



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Sterling Environmental Engineering Lab Number : L2051463
 Project Name : FORMER M. ARGUESO Project Number : 28012
 Matrix : WATER
 LCS Sample ID : WG1438001-3 Analysis Date : 11/23/20 17:50 File ID : VE201123N01
 LCSD Sample ID : WG1438001-4 Analysis Date : 11/23/20 18:12 File ID : VE201123N02

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|--------------|-----|------------------------------|--------------|-----|-------------|-----------------|-----------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | | | |
| Trichloroethene | 10 | 10 | 100 | 10 | 8.8 | 88 | 13 | 70-130 | 20 |
| 1,2-Dichlorobenzene | 10 | 10 | 100 | 10 | 9.5 | 95 | 5 | 70-130 | 20 |
| 1,3-Dichlorobenzene | 10 | 11 | 110 | 10 | 9.5 | 95 | 15 | 70-130 | 20 |
| 1,4-Dichlorobenzene | 10 | 10 | 100 | 10 | 9.2 | 92 | 8 | 70-130 | 20 |
| Methyl tert butyl ether | 10 | 9.0 | 90 | 10 | 9.2 | 92 | 2 | 63-130 | 20 |
| p/m-Xylene | 20 | 23 | 115 | 20 | 20 | 100 | 14 | 70-130 | 20 |
| o-Xylene | 20 | 22 | 110 | 20 | 20 | 100 | 10 | 70-130 | 20 |
| cis-1,2-Dichloroethene | 10 | 9.4 | 94 | 10 | 8.3 | 83 | 12 | 70-130 | 20 |
| Styrene | 20 | 22 | 110 | 20 | 20 | 100 | 10 | 70-130 | 20 |
| Dichlorodifluoromethane | 10 | 11 | 110 | 10 | 9.5 | 95 | 15 | 36-147 | 20 |
| Acetone | 10 | 7.8 | 78 | 10 | 7.9 | 79 | 1 | 58-148 | 20 |
| Carbon disulfide | 10 | 10 | 100 | 10 | 8.9 | 89 | 12 | 51-130 | 20 |
| 2-Butanone | 10 | 8.0 | 80 | 10 | 9.4 | 94 | 16 | 63-138 | 20 |
| 4-Methyl-2-pentanone | 10 | 8.0 | 80 | 10 | 8.4 | 84 | 5 | 59-130 | 20 |
| 2-Hexanone | 10 | 7.2 | 72 | 10 | 7.6 | 76 | 5 | 57-130 | 20 |
| Bromochloromethane | 10 | 9.2 | 92 | 10 | 8.7 | 87 | 6 | 70-130 | 20 |
| 1,2-Dibromoethane | 10 | 9.0 | 90 | 10 | 8.6 | 86 | 5 | 70-130 | 20 |
| 1,2-Dibromo-3-chloropropane | 10 | 6.7 | 67 | 10 | 7.5 | 75 | 11 | 41-144 | 20 |
| Isopropylbenzene | 10 | 12 | 120 | 10 | 9.9 | 99 | 19 | 70-130 | 20 |
| 1,2,3-Trichlorobenzene | 10 | 7.4 | 74 | 10 | 7.0 | 70 | 6 | 70-130 | 20 |
| 1,2,4-Trichlorobenzene | 10 | 8.3 | 83 | 10 | 7.8 | 78 | 6 | 70-130 | 20 |
| Methyl Acetate | 10 | 7.4 | 74 | 10 | 7.9 | 79 | 7 | 70-130 | 20 |
| Cyclohexane | 10 | 12 | 120 | 10 | 9.2 | 92 | 26 Q | 70-130 | 20 |
| 1,4-Dioxane | 500 | 440 | 88 | 500 | 420 | 84 | 5 | 56-162 | 20 |
| Freon-113 | 10 | 12 | 120 | 10 | 10 | 100 | 18 | 70-130 | 20 |
| Methyl cyclohexane | 10 | 12 | 120 | 10 | 9.8 | 98 | 20 | 70-130 | 20 |



Laboratory Control Sample Summary
Form 3
Volatiles

Client : Sterling Environmental Engineering Lab Number : L2051463
 Project Name : FORMER M. ARGUESO Project Number : 28012
 Matrix : WATER
 LCS Sample ID : WG1438122-3 Analysis Date : 11/24/20 09:25 File ID : V22201124A01
 LCSD Sample ID : WG1438122-4 Analysis Date : 11/24/20 09:49 File ID : V22201124A02

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|--------------|-----|------------------------------|--------------|-----|-----|-----------------|-----------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | | | |
| Methylene chloride | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| 1,1-Dichloroethane | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| Chloroform | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| Carbon tetrachloride | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 63-132 | 20 |
| 1,2-Dichloropropane | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Dibromochloromethane | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 63-130 | 20 |
| 1,1,2-Trichloroethane | 10 | 9.6 | 96 | 10 | 9.8 | 98 | 2 | 70-130 | 20 |
| Tetrachloroethene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Chlorobenzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 75-130 | 20 |
| Trichlorofluoromethane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 62-150 | 20 |
| 1,2-Dichloroethane | 10 | 10 | 100 | 10 | 9.8 | 98 | 2 | 70-130 | 20 |
| 1,1,1-Trichloroethane | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 67-130 | 20 |
| Bromodichloromethane | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 67-130 | 20 |
| trans-1,3-Dichloropropene | 10 | 10 | 100 | 10 | 9.8 | 98 | 2 | 70-130 | 20 |
| cis-1,3-Dichloropropene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Bromoform | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 54-136 | 20 |
| 1,1,2,2-Tetrachloroethane | 10 | 9.1 | 91 | 10 | 9.4 | 94 | 3 | 67-130 | 20 |
| Benzene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Toluene | 10 | 9.7 | 97 | 10 | 10 | 100 | 3 | 70-130 | 20 |
| Ethylbenzene | 10 | 9.9 | 99 | 10 | 10 | 100 | 1 | 70-130 | 20 |
| Chloromethane | 10 | 12 | 120 | 10 | 10 | 100 | 18 | 64-130 | 20 |
| Bromomethane | 10 | 7.6 | 76 | 10 | 7.6 | 76 | 0 | 39-139 | 20 |
| Vinyl chloride | 10 | 11 | 110 | 10 | 9.9 | 99 | 11 | 55-140 | 20 |
| Chloroethane | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 55-138 | 20 |
| 1,1-Dichloroethene | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 61-145 | 20 |
| trans-1,2-Dichloroethene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Sterling Environmental Engineering Lab Number : L2051463
 Project Name : FORMER M. ARGUESO Project Number : 28012
 Matrix : WATER
 LCS Sample ID : WG1438122-3 Analysis Date : 11/24/20 09:25 File ID : V22201124A01
 LCSD Sample ID : WG1438122-4 Analysis Date : 11/24/20 09:49 File ID : V22201124A02

| Parameter | Laboratory Control Sample | | | Laboratory Control Duplicate | | | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|--------------|-----|------------------------------|--------------|-----|------|-----------------|-----------|
| | True (ug/l) | Found (ug/l) | %R | True (ug/l) | Found (ug/l) | %R | | | |
| Trichloroethene | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| 1,2-Dichlorobenzene | 10 | 9.5 | 95 | 10 | 9.8 | 98 | 3 | 70-130 | 20 |
| 1,3-Dichlorobenzene | 10 | 9.7 | 97 | 10 | 9.8 | 98 | 1 | 70-130 | 20 |
| 1,4-Dichlorobenzene | 10 | 9.6 | 96 | 10 | 9.8 | 98 | 2 | 70-130 | 20 |
| Methyl tert butyl ether | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 63-130 | 20 |
| p/m-Xylene | 20 | 20 | 100 | 20 | 20 | 100 | 0 | 70-130 | 20 |
| o-Xylene | 20 | 20 | 100 | 20 | 20 | 100 | 0 | 70-130 | 20 |
| cis-1,2-Dichloroethene | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 70-130 | 20 |
| Styrene | 20 | 20 | 100 | 20 | 20 | 100 | 0 | 70-130 | 20 |
| Dichlorodifluoromethane | 10 | 10 | 100 | 10 | 9.8 | 98 | 2 | 36-147 | 20 |
| Acetone | 10 | 12 | 120 | 10 | 8.3 | 83 | 36 Q | 58-148 | 20 |
| Carbon disulfide | 10 | 11 | 110 | 10 | 10 | 100 | 10 | 51-130 | 20 |
| 2-Butanone | 10 | 11 | 110 | 10 | 9.6 | 96 | 14 | 63-138 | 20 |
| 4-Methyl-2-pentanone | 10 | 9.6 | 96 | 10 | 9.6 | 96 | 0 | 59-130 | 20 |
| 2-Hexanone | 10 | 9.5 | 95 | 10 | 9.0 | 90 | 5 | 57-130 | 20 |
| Bromochloromethane | 10 | 12 | 120 | 10 | 11 | 110 | 9 | 70-130 | 20 |
| 1,2-Dibromoethane | 10 | 9.6 | 96 | 10 | 9.9 | 99 | 3 | 70-130 | 20 |
| 1,2-Dibromo-3-chloropropane | 10 | 9.6 | 96 | 10 | 9.3 | 93 | 3 | 41-144 | 20 |
| Isopropylbenzene | 10 | 9.3 | 93 | 10 | 9.9 | 99 | 6 | 70-130 | 20 |
| 1,2,3-Trichlorobenzene | 10 | 9.5 | 95 | 10 | 10 | 100 | 5 | 70-130 | 20 |
| 1,2,4-Trichlorobenzene | 10 | 9.4 | 94 | 10 | 9.6 | 96 | 2 | 70-130 | 20 |
| Methyl Acetate | 10 | 10 | 100 | 10 | 9.7 | 97 | 3 | 70-130 | 20 |
| Cyclohexane | 10 | 11 | 110 | 10 | 11 | 110 | 0 | 70-130 | 20 |
| 1,4-Dioxane | 500 | 570 | 114 | 500 | 480 | 96 | 17 | 56-162 | 20 |
| Freon-113 | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |
| Methyl cyclohexane | 10 | 10 | 100 | 10 | 10 | 100 | 0 | 70-130 | 20 |



Initial Calibration Summary

Form 6

Volatiles

Client : Sterling Environmental Engineering
Project Name : FORMER M. ARGUESO
Instrument ID : ELAINE
Calibration dates : 09/29/20 17:13 09/30/20 14:50

Lab Number : L2051463
Project Number : 28012
Ical Ref : ICAL17184

Calibration Files

L11 =VE200930B02.D L1 =VE200930B03.D L2 =VE200930B04.D L3 =VE200929N09.D L4 =VE200929N10.D
 L6 =VE200929N11.D L8 =VE200929N12.D L10 =VE200929N13.D

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|--------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 1) I Fluorobenzene | -----ISTD----- | | | | | | | | | |
| 2) TP Dichlorodifluo | | 0.127 | 0.166 | 0.131 | 0.159 | 0.156 | 0.162 | 0.163 | 0.152 | 10.65 |
| 3) TP Chloromethane | | 0.221 | 0.250 | 0.203 | 0.230 | 0.213 | 0.228 | 0.235 | 0.226 | 6.83 |
| 4) TC Vinyl chloride | 0.184 | 0.183 | 0.224 | 0.178 | 0.211 | 0.205 | 0.220 | 0.217 | 0.203 | 9.02 |
| 5) TP Bromomethane | | 0.069 | 0.073 | 0.057 | 0.074 | 0.076 | 0.094 | 0.102 | 0.078# | 19.50 |
| 6) TP Chloroethane | | 0.090 | 0.108 | 0.093 | 0.106 | 0.095 | 0.100 | 0.098 | 0.099# | 6.92 |
| 7) TP Trichlorofluor | | 0.217 | 0.265 | 0.214 | 0.249 | 0.240 | 0.252 | 0.254 | 0.241 | 7.93 |
| 8) TP Ethyl ether | | 0.089 | 0.088 | 0.073 | 0.088 | 0.086 | 0.088 | 0.090 | 0.086 | 7.03 |
| 10) TC 1,1-Dichloroet | | 0.141 | 0.157 | 0.126 | 0.149 | 0.145 | 0.157 | 0.160 | 0.148 | 8.05 |
| 11) TP Carbon disulfide | | 0.277 | 0.334 | 0.258 | 0.296 | 0.285 | 0.305 | 0.314 | 0.296 | 8.48 |
| 12) TP Freon-113 | | 0.125 | 0.156 | 0.134 | 0.157 | 0.155 | 0.165 | 0.168 | 0.151 | 10.54 |
| 14) TP Acrolein | | | 0.019 | 0.018 | 0.021 | 0.023 | 0.022 | 0.022 | 0.021# | 9.94 |
| 15) TP Methylene chlo | | 0.175 | 0.179 | 0.144 | 0.168 | 0.154 | 0.166 | 0.168 | 0.165 | 7.25 |
| 17) TP Acetone | | | 0.049 | 0.032 | 0.037 | 0.033 | 0.032 | 0.032 | 0.036# | 19.48 |
| 18) TP trans-1,2-Dich | | 0.154 | 0.165 | 0.132 | 0.158 | 0.148 | 0.161 | 0.161 | 0.154 | 7.35 |
| 19) TP Methyl acetate | | 0.112 | 0.107 | 0.094 | 0.105 | 0.107 | 0.108 | 0.107 | 0.106 | 5.21 |
| 20) TP Methyl tert butyl ether | | 0.348 | 0.356 | 0.329 | 0.394 | 0.388 | 0.404 | 0.407 | 0.375 | 8.17 |
| 21) TP tert-Butyl alc | | 0.008 | 0.011 | 0.009 | 0.011 | 0.011 | 0.011 | 0.011 | 0.010# | 11.12 |
| 22) TP Diisopropyl ether | | 0.658 | 0.694 | 0.631 | 0.764 | 0.719 | 0.763 | 0.766 | 0.714 | 7.68 |
| 23) TP 1,1-Dichloroet | | 0.336 | 0.357 | 0.297 | 0.350 | 0.323 | 0.348 | 0.350 | 0.337 | 6.19 |
| 24) TP Halothane | | 0.123 | 0.140 | 0.120 | 0.141 | 0.135 | 0.144 | 0.146 | 0.136 | 7.56 |
| 25) TP Acrylonitrile | | 0.037 | 0.044 | 0.040 | 0.047 | 0.047 | 0.046 | 0.046 | 0.044# | 9.12 |
| 26) TP Ethyl tert-but | | 0.487 | 0.500 | 0.466 | 0.578 | 0.564 | 0.600 | 0.608 | 0.543 | 10.66 |
| 27) TP Vinyl acetate | | 0.321 | 0.352 | 0.327 | 0.411 | 0.409 | 0.425 | 0.428 | 0.382 | 12.29 |
| 28) TP cis-1,2-Dichlo | | 0.186 | 0.199 | 0.174 | 0.198 | 0.185 | 0.197 | 0.198 | 0.191 | 5.01 |
| 29) TP 2,2-Dichloropr | | 0.228 | 0.242 | 0.203 | 0.225 | 0.215 | 0.233 | 0.248 | 0.228 | 6.73 |
| 30) TP Bromochloromet | | 0.074 | 0.087 | 0.078 | 0.088 | 0.082 | 0.082 | 0.075 | 0.081 | 6.94 |
| 31) TP Cyclohexane | | 0.256 | 0.301 | 0.288 | 0.366 | 0.360 | 0.384 | 0.395 | 0.336 | 15.94 |
| 32) TC Chloroform | | 0.316 | 0.326 | 0.258 | 0.308 | 0.282 | 0.302 | 0.306 | 0.300 | 7.60 |
| 33) TP Ethyl acetate | | 0.134 | 0.131 | 0.118 | 0.141 | 0.140 | 0.144 | 0.140 | 0.135 | 6.54 |
| 34) TP Carbon tetrachloride | | 0.215 | 0.226 | 0.192 | 0.232 | 0.225 | 0.241 | 0.244 | 0.225 | 7.91 |
| 35) TP Tetrahydrofuran | | | 0.035 | 0.035 | 0.039 | 0.039 | 0.038 | 0.038 | 0.037# | 4.71 |
| 36) S Dibromofluoromethane | 0.250 | 0.256 | 0.257 | 0.245 | 0.246 | 0.240 | 0.250 | 0.237 | 0.248 | 2.91 |
| 37) TP 1,1,1-Trichlor | | 0.243 | 0.265 | 0.222 | 0.261 | 0.253 | 0.273 | 0.277 | 0.256 | 7.48 |
| 39) TP 2-Butanone | | 0.040 | 0.064 | 0.055 | 0.058 | 0.061 | 0.060 | 0.059 | 0.057# | 13.73 |
| 40) TP 1,1-Dichloropr | | 0.196 | 0.225 | 0.196 | 0.234 | 0.228 | 0.246 | 0.254 | 0.226 | 10.03 |



Initial Calibration Summary

Form 6

Volatiles

Client : Sterling Environmental Engineering **Lab Number** : L2051463
Project Name : FORMER M. ARGUESO **Project Number** : 28012
Instrument ID : ELAINE **Ical Ref** : ICAL17184
Calibration dates : 09/29/20 17:13 09/30/20 14:50

Calibration Files

L11 =VE200930B02.D L1 =VE200930B03.D L2 =VE200930B04.D L3 =VE200929N09.D L4 =VE200929N10.D
 L6 =VE200929N11.D L8 =VE200929N12.D L10 =VE200929N13.D

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|-----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|
| 41) TP Benzene | 0.777 | 0.703 | 0.755 | 0.639 | 0.738 | 0.690 | 0.748 | 0.746 | 0.725 | 6.11 |
| 42) TP Tertiary-Amyl Methyl Ether | | 0.284 | 0.367 | 0.339 | 0.420 | 0.420 | 0.447 | 0.453 | 0.390 | 15.94 |
| 43) S 1,2-Dichloroethane-d4 | 0.268 | 0.278 | 0.271 | 0.255 | 0.253 | 0.262 | 0.260 | 0.261 | 0.264 | 3.12 |
| 44) TP 1,2-Dichloroet | | 0.235 | 0.227 | 0.190 | 0.219 | 0.206 | 0.214 | 0.212 | 0.215 | 6.79 |
| 47) TP Methyl cyclohe | | 0.201 | 0.238 | 0.237 | 0.294 | 0.294 | 0.313 | 0.321 | 0.271 | 16.78 |
| 48) TP Trichloroethene | 0.216 | 0.148 | 0.184 | 0.159 | 0.175 | 0.170 | 0.181 | 0.184 | 0.177# | 11.45 |
| 50) TP Dibromomethane | | 0.075 | 0.085 | 0.076 | 0.087 | 0.083 | 0.085 | 0.085 | 0.082 | 5.53 |
| 51) TC 1,2-Dichloropr | | 0.198 | 0.194 | 0.172 | 0.200 | 0.186 | 0.199 | 0.201 | 0.193 | 5.53 |
| 53) TP 2-Chloroethyl | | 0.062 | 0.068 | 0.071 | 0.089 | 0.088 | 0.090 | 0.092 | 0.080 | 15.73 |
| 54) TP Bromodichlorom | | 0.209 | 0.206 | 0.190 | 0.224 | 0.212 | 0.228 | 0.231 | 0.214 | 6.63 |
| 57) TP 1,4-Dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 8.71 |
| 58) TP cis-1,3-Dichlo | | 0.223 | 0.244 | 0.224 | 0.280 | 0.271 | 0.288 | 0.291 | 0.260 | 11.30 |
| 59) I Chlorobenzene-d5 | -----ISTD----- | | | | | | | | | |
| 60) S Toluene-d8 | 1.219 | 1.237 | 1.242 | 1.271 | 1.267 | 1.252 | 1.283 | 1.292 | 1.258 | 1.96 |
| 61) TC Toluene | | 0.578 | 0.591 | 0.524 | 0.597 | 0.564 | 0.605 | 0.613 | 0.582 | 5.20 |
| 62) TP 4-Methyl-2-pen | | | 0.044 | 0.050 | 0.062 | 0.066 | 0.068 | 0.068 | 0.060# | 17.16 |
| 63) TP Tetrachloroethene | | 0.242 | 0.287 | 0.245 | 0.289 | 0.265 | 0.283 | 0.283 | 0.271 | 7.32 |
| 65) TP trans-1,3-Dich | | 0.258 | 0.261 | 0.243 | 0.298 | 0.299 | 0.321 | 0.327 | 0.286 | 11.48 |
| 67) TP Ethyl methacry | | | 0.152 | 0.158 | 0.214 | 0.225 | 0.236 | 0.242 | 0.204 | 19.36 |
| 68) TP 1,1,2-Trichlor | | 0.132 | 0.155 | 0.127 | 0.148 | 0.141 | 0.147 | 0.146 | 0.142 | 6.77 |
| 69) TP Chlorodibromom | | 0.176 | 0.190 | 0.171 | 0.208 | 0.203 | 0.213 | 0.213 | 0.196 | 8.94 |
| 70) TP 1,3-Dichloropr | | 0.303 | 0.307 | 0.270 | 0.312 | 0.299 | 0.312 | 0.312 | 0.302 | 5.00 |
| 71) TP 1,2-Dibromoethane | | 0.145 | 0.161 | 0.140 | 0.170 | 0.164 | 0.170 | 0.170 | 0.160 | 7.88 |
| 72) TP 2-Hexanone | | 0.114 | 0.095 | 0.089 | 0.118 | 0.122 | 0.125 | 0.123 | 0.112 | 12.79 |
| 73) TP Chlorobenzene | | 0.630 | 0.671 | 0.575 | 0.674 | 0.621 | 0.660 | 0.655 | 0.641 | 5.48 |
| 74) TC Ethylbenzene | | 0.897 | 0.960 | 0.931 | 1.122 | 1.051 | 1.111 | 1.087 | 1.023 | 9.00 |
| 75) TP 1,1,1,2-Tetrac | | 0.234 | 0.233 | 0.202 | 0.238 | 0.226 | 0.244 | 0.244 | 0.231 | 6.29 |
| 76) TP p/m Xylene | | 0.325 | 0.377 | 0.380 | 0.451 | 0.422 | 0.447 | 0.435 | 0.405 | 11.45 |
| 77) TP o Xylene | | 0.311 | 0.367 | 0.346 | 0.415 | 0.384 | 0.411 | 0.397 | 0.376 | 9.96 |
| 78) TP Styrene | | 0.440 | 0.563 | 0.581 | 0.698 | 0.649 | 0.672 | 0.628 | 0.604 | 14.38 |
| 79) I 1,4-Dichlorobenzene-d4 | -----ISTD----- | | | | | | | | | |
| 80) TP Bromoform | | 0.207 | 0.218 | 0.198 | 0.248 | 0.244 | 0.253 | 0.247 | 0.231 | 9.73 |
| 82) TP Isopropylbenzene | | 1.590 | 1.780 | 1.810 | 2.186 | 2.058 | 2.170 | 2.106 | 1.957 | 11.76 |
| 83) S 4-Bromofluorobenzene | 0.824 | 0.853 | 0.831 | 0.861 | 0.868 | 0.870 | 0.885 | 0.900 | 0.861 | 2.95 |
| 84) TP Bromobenzene | | 0.526 | 0.545 | 0.458 | 0.558 | 0.514 | 0.544 | 0.537 | 0.526 | 6.30 |
| 85) TP n-Propylbenzene | | 1.785 | 1.962 | 2.006 | 2.436 | 2.288 | 2.403 | 2.288 | 2.167 | 11.47 |



Initial Calibration Summary

Form 6

Volatiles

| | |
|---|-------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Instrument ID : ELAINE | Ical Ref : ICAL17184 |
| Calibration dates : 09/29/20 17:13 09/30/20 14:50 | |

Calibration Files

L11 =VE200930B02.D L1 =VE200930B03.D L2 =VE200930B04.D L3 =VE200929N09.D L4 =VE200929N10.D
 L6 =VE200929N11.D L8 =VE200929N12.D L10 =VE200929N13.D

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 86) TP 1,4-Dichlorobu | 0.596 | 0.623 | 0.527 | 0.637 | 0.606 | 0.634 | 0.625 | 0.607 | 6.31 | |
| 87) TP 1,1,2,2-Tetrac | 0.340 | 0.365 | 0.308 | 0.366 | 0.356 | 0.364 | 0.359 | 0.351 | 5.99 | |
| 88) TP 4-Ethyltoluene | 1.588 | 1.671 | 1.654 | 2.061 | 1.920 | 2.036 | 1.982 | 1.845 | 10.85 | |
| 89) TP 2-Chlorotoluene | 1.389 | 1.495 | 1.389 | 1.678 | 1.567 | 1.671 | 1.658 | 1.550 | 8.23 | |
| 90) TP 1,3,5-Trimethy | 1.281 | 1.487 | 1.461 | 1.823 | 1.691 | 1.789 | 1.747 | 1.611 | 12.62 | |
| 91) TP 1,2,3-Trichlor | 0.299 | 0.294 | 0.269 | 0.312 | 0.298 | 0.302 | 0.299 | 0.296 | 4.49 | |
| 92) TP trans-1,4-Dich | 0.087 | 0.078 | 0.067 | 0.100 | 0.102 | 0.107 | 0.109 | 0.093 | 17.34 | |
| 93) TP 4-Chlorotoluene | 1.351 | 1.337 | 1.252 | 1.527 | 1.423 | 1.520 | 1.500 | 1.416 | 7.49 | |
| 94) TP tert-Butylbenzene | 1.281 | 1.442 | 1.521 | 1.775 | 1.675 | 1.768 | 1.722 | 1.598 | 11.78 | |
| 95) TP Pentachloroethane | 0.269 | 0.297 | 0.337 | 0.323 | 0.308 | 0.334 | 0.331 | 0.314 | 7.82 | |
| 97) TP 1,2,4-Trimethy | 1.304 | 1.431 | 1.456 | 1.796 | 1.675 | 1.787 | 1.741 | 1.599 | 12.41 | |
| 98) TP sec-Butylbenzene | 1.548 | 1.627 | 1.712 | 2.130 | 2.004 | 2.088 | 1.994 | 1.872 | 12.65 | |
| 99) TP p-Isopropyltol | 1.236 | 1.355 | 1.499 | 1.919 | 1.811 | 1.901 | 1.809 | 1.647 | 16.95 | |
| 100) TP 1,3-Dichlorobe | 0.951 | 1.029 | 0.873 | 1.057 | 0.969 | 1.014 | 1.000 | 0.985 | 6.15 | |
| 101) TP 1,4-Dichlorobe | 1.115 | 1.000 | 0.879 | 1.046 | 0.973 | 1.021 | 0.990 | 1.003 | 7.16 | |
| 102) TP p-Diethylbenzene | 0.696 | 0.721 | 0.838 | 1.089 | 1.045 | 1.105 | 1.092 | 0.941 | 19.49 | |
| 103) TP n-Butylbenzene | 1.072 | 1.175 | 1.267 | 1.596 | 1.521 | 1.603 | 1.564 | 1.400 | 15.89 | |
| 104) TP 1,2-Dichlorobe | 0.886 | 0.900 | 0.797 | 0.966 | 0.890 | 0.921 | 0.900 | 0.894 | 5.69 | |
| 105) TP 1,2,4,5-Tetram | | 1.106 | 1.237 | 1.692 | 1.632 | 1.700 | 1.659 | 1.504 | 17.44 | |
| 106) TP 1,2-Dibromo-3- | | 0.042 | 0.045 | 0.055 | 0.057 | 0.059 | 0.058 | 0.053 | 13.29 | |
| 107) TP 1,3,5-Trichlor | 0.612 | 0.638 | 0.591 | 0.721 | 0.677 | 0.709 | 0.696 | 0.663 | 7.60 | |
| 108) TP Hexachlorobuta | 0.192 | 0.195 | 0.200 | 0.244 | 0.239 | 0.252 | 0.256 | 0.225 | 12.65 | |
| 109) TP 1,2,4-Trichlor | 0.510 | 0.519 | 0.492 | 0.627 | 0.615 | 0.637 | 0.634 | 0.576 | 11.41 | |
| 110) TP Naphthalene | | 0.696 | 0.757 | 1.044 | 1.095 | 1.127 | 1.113 | 0.972 | 19.87 | |
| 111) TP 1,2,3-Trichlor | 0.476 | 0.448 | 0.419 | 0.536 | 0.532 | 0.550 | 0.541 | 0.500 | 10.45 | |



Initial Calibration Summary

Form 6

Volatiles

| | |
|--|-------------------------------|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Instrument ID : VOA122 | Ical Ref : ICAL17366 |
| Calibration dates : 11/18/20 17:28 11/18/20 21:34 | |

Calibration Files

L11 =V22201118N03.D L1 =V22201118N05.D L2 =V22201118N07.D L3 =V22201118N09.D L4 =V22201118N10.D
 L6 =V22201118N11.D L8 =V22201118N12.D L10 =V22201118N13.D

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|--------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 1) I Fluorobenzene | -----ISTD----- | | | | | | | | | |
| 2) TP Dichlorodifluo | | 0.125 | 0.179 | 0.214 | 0.227 | 0.222 | 0.215 | 0.215 | 0.200 | 18.22 |
| 3) TP Chloromethane | | 0.231 | 0.325 | 0.306 | 0.310 | 0.303 | 0.288 | 0.282 | 0.292 | 10.44 |
| 4) TC Vinyl chloride | 0.297 | 0.185 | 0.280 | 0.281 | 0.290 | 0.285 | 0.274 | 0.272 | 0.271 | 13.06 |
| 5) TP Bromomethane | | 0.091 | 0.082 | 0.079 | 0.087 | 0.111 | 0.120 | 0.130 | 0.100 | 19.90 |
| 6) TP Chloroethane | | 0.130 | 0.157 | 0.147 | 0.149 | 0.139 | 0.125 | 0.112 | 0.137 | 11.46 |
| 7) TP Trichlorofluor | | 0.174 | 0.263 | 0.311 | 0.327 | 0.323 | 0.315 | 0.317 | 0.290 | 19.10 |
| 8) TP Ethyl ether | | 0.077 | 0.093 | 0.097 | 0.097 | 0.096 | 0.091 | 0.092 | 0.092 | 7.36 |
| 10) TC 1,1-Dichloroet | | 0.116 | 0.173 | 0.183 | 0.187 | 0.186 | 0.181 | 0.180 | 0.172 | 14.56 |
| 11) TP Carbon disulfide | | 0.333 | 0.439 | 0.438 | 0.452 | 0.454 | 0.442 | 0.443 | 0.429 | 9.93 |
| 12) TP Freon-113 | | | 0.161 | 0.197 | 0.209 | 0.205 | 0.201 | 0.200 | 0.196 | 8.89 |
| 13) TP Iodomethane | | | 0.048 | 0.105 | 0.177 | 0.180 | 0.177 | 0.181 | *L | 0.9982 |
| 14) TP Acrolein | | 0.025 | 0.031 | 0.033 | 0.034 | 0.033 | 0.031 | 0.031 | 0.031# | 10.13 |
| 15) TP Methylene chlo | | 0.170 | 0.211 | 0.196 | 0.199 | 0.195 | 0.190 | 0.190 | 0.193 | 6.48 |
| 17) TP Acetone | | | 0.056 | 0.051 | 0.047 | 0.045 | 0.042 | 0.041 | 0.047# | 11.69 |
| 18) TP trans-1,2-Dich | | 0.151 | 0.217 | 0.206 | 0.212 | 0.211 | 0.204 | 0.203 | 0.200 | 11.11 |
| 19) TP Methyl acetate | | | 0.121 | 0.107 | 0.110 | 0.106 | 0.101 | 0.102 | 0.108 | 6.77 |
| 21) TP Methyl tert butyl ether | | 0.424 | 0.465 | 0.445 | 0.434 | 0.404 | 0.397 | 0.414 | 0.426 | 5.58 |
| 22) TP tert-Butyl alc | | 0.014 | 0.014 | 0.015 | 0.015 | 0.014 | 0.015 | 0.014 | 0.014# | 3.46 |
| 24) TP Diisopropyl ether | | 0.665 | 0.768 | 0.747 | 0.759 | 0.748 | 0.710 | 0.697 | 0.727 | 5.19 |
| 25) TP 1,1-Dichloroet | | 0.344 | 0.446 | 0.417 | 0.423 | 0.420 | 0.406 | 0.403 | 0.408 | 7.78 |
| 26) TP Halothane | | 0.122 | 0.159 | 0.162 | 0.169 | 0.172 | 0.167 | 0.168 | 0.160 | 10.85 |
| 27) TP Acrylonitrile | | | 0.054 | 0.063 | 0.065 | 0.062 | 0.059 | 0.059 | 0.060 | 6.47 |
| 28) TP Ethyl tert-but | | 0.658 | 0.707 | 0.686 | 0.690 | 0.651 | 0.628 | 0.632 | 0.665 | 4.61 |
| 29) TP Vinyl acetate | | | 0.412 | 0.391 | 0.428 | 0.402 | 0.385 | 0.380 | 0.400 | 4.51 |
| 30) TP cis-1,2-Dichlo | | 0.197 | 0.241 | 0.232 | 0.233 | 0.228 | 0.219 | 0.220 | 0.224 | 6.36 |
| 31) TP 2,2-Dichloropr | | 0.219 | 0.271 | 0.237 | 0.249 | 0.245 | 0.250 | 0.261 | 0.247 | 6.74 |
| 32) TP Bromochloromet | | 0.078 | 0.102 | 0.099 | 0.097 | 0.086 | 0.082 | 0.082 | 0.089 | 10.83 |
| 33) TP Cyclohexane | | | 0.378 | 0.456 | 0.485 | 0.481 | 0.465 | 0.465 | 0.455 | 8.67 |
| 34) TC Chloroform | | 0.292 | 0.375 | 0.361 | 0.356 | 0.355 | 0.344 | 0.346 | 0.347 | 7.53 |
| 35) TP Ethyl acetate | | | 0.167 | 0.167 | 0.165 | 0.160 | 0.151 | 0.153 | 0.160 | 4.35 |
| 36) TP Carbon tetrachloride | 0.243 | 0.182 | 0.257 | 0.280 | 0.293 | 0.297 | 0.292 | 0.294 | 0.267 | 14.90 |
| 37) TP Tetrahydrofuran | | | 0.059 | 0.059 | 0.056 | 0.054 | 0.052 | 0.051 | 0.055 | 6.26 |
| 38) S Dibromofluoromethane | 0.232 | 0.228 | 0.229 | 0.229 | 0.230 | 0.225 | 0.227 | 0.225 | 0.228 | 1.11 |
| 39) TP 1,1,1-Trichlor | | 0.230 | 0.332 | 0.328 | 0.337 | 0.337 | 0.327 | 0.330 | 0.317 | 12.14 |
| 41) TP 2-Butanone | | | 0.071 | 0.071 | 0.065 | 0.065 | 0.062 | 0.062 | 0.066# | 6.05 |



Initial Calibration Summary

Form 6

Volatiles

Client : Sterling Environmental Engineering **Lab Number** : L2051463
Project Name : FORMER M. ARGUESO **Project Number** : 28012
Instrument ID : VOA122 **Ical Ref** : ICAL17366
Calibration dates : 11/18/20 17:28 11/18/20 21:34

Calibration Files

L11 =V22201118N03.D L1 =V22201118N05.D L2 =V22201118N07.D L3 =V22201118N09.D L4 =V22201118N10.D
 L6 =V22201118N11.D L8 =V22201118N12.D L10 =V22201118N13.D

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 42) TP 1,1-Dichloropr | | 0.178 | 0.251 | 0.269 | 0.280 | 0.279 | 0.271 | 0.272 | 0.257 | 14.08 |
| 44) TP Benzene | 0.799 | 0.664 | 0.842 | 0.802 | 0.818 | 0.815 | 0.788 | 0.786 | 0.789 | 6.83 |
| 45) TP Tertiary-Amyl Methyl Ether | | 0.493 | 0.505 | 0.490 | 0.488 | 0.468 | 0.452 | 0.463 | 0.480 | 3.99 |
| 46) S 1,2-Dichloroethane-d4 | 0.245 | 0.246 | 0.243 | 0.241 | 0.246 | 0.243 | 0.238 | 0.246 | 0.244 | 1.14 |
| 47) T 1,2-Dichloroet | | 0.248 | 0.258 | 0.254 | 0.252 | 0.271 | 0.241 | 0.260 | 0.255 | 3.82 |
| 50) TP Methyl cyclohe | | | 0.282 | 0.353 | 0.372 | 0.377 | 0.368 | 0.373 | 0.354 | 10.25 |
| 51) TP Trichloroethene | 0.241 | 0.153 | 0.231 | 0.220 | 0.224 | 0.232 | 0.226 | 0.228 | 0.219 | 12.53 |
| 53) TP Dibromomethane | | 0.085 | 0.118 | 0.111 | 0.113 | 0.111 | 0.107 | 0.108 | 0.108 | 9.83 |
| 54) TC 1,2-Dichloropr | | 0.203 | 0.232 | 0.225 | 0.234 | 0.234 | 0.225 | 0.226 | 0.226 | 4.76 |
| 57) TP Bromodichlorom | | 0.218 | 0.265 | 0.260 | 0.270 | 0.273 | 0.264 | 0.270 | 0.260 | 7.30 |
| 60) TP 1,4-Dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 19.25 |
| 61) TP cis-1,3-Dichlo | | 0.280 | 0.312 | 0.307 | 0.317 | 0.317 | 0.309 | 0.312 | 0.308 | 4.19 |
| 62) I Chlorobenzene-d5 | | | | | | | | | | |
| 63) S Toluene-d8 | 1.302 | 1.319 | 1.319 | 1.318 | 1.331 | 1.308 | 1.309 | 1.346 | 1.319 | 1.07 |
| 64) TC Toluene | | 0.404 | 0.492 | 0.426 | 0.436 | 0.430 | 0.424 | 0.420 | 0.433 | 6.38 |
| 65) TP 4-Methyl-2-pen | | 0.049 | 0.088 | 0.088 | 0.092 | 0.089 | 0.088 | 0.090 | 0.083# | 18.35 |
| 66) TP Tetrachloroethene | | 0.222 | 0.324 | 0.324 | 0.334 | 0.331 | 0.332 | 0.332 | 0.314 | 13.03 |
| 68) TP trans-1,3-Dich | | 0.333 | 0.382 | 0.371 | 0.388 | 0.380 | 0.381 | 0.385 | 0.374 | 5.04 |
| 70) TP Ethyl methacry | | 0.252 | 0.288 | 0.286 | 0.293 | 0.286 | 0.283 | 0.288 | 0.282 | 4.87 |
| 71) TP 1,1,2-Trichlor | | 0.166 | 0.195 | 0.187 | 0.190 | 0.187 | 0.185 | 0.187 | 0.185 | 4.97 |
| 72) TP Chlorodibromom | | 0.213 | 0.249 | 0.255 | 0.271 | 0.272 | 0.274 | 0.277 | 0.259 | 8.72 |
| 73) TP 1,3-Dichloropr | | 0.338 | 0.371 | 0.372 | 0.375 | 0.367 | 0.362 | 0.367 | 0.365 | 3.43 |
| 74) TP 1,2-Dibromoethane | | 0.194 | 0.218 | 0.230 | 0.230 | 0.225 | 0.220 | 0.224 | 0.220 | 5.70 |
| 76) TP 2-Hexanone | | 0.117 | 0.134 | 0.143 | 0.145 | 0.141 | 0.137 | 0.138 | 0.137 | 6.76 |
| 77) TP Chlorobenzene | | 0.683 | 0.855 | 0.805 | 0.824 | 0.806 | 0.799 | 0.795 | 0.795 | 6.72 |
| 78) TC Ethylbenzene | | 1.116 | 1.517 | 1.428 | 1.469 | 1.436 | 1.424 | 1.403 | 1.399 | 9.30 |
| 79) TP 1,1,1,2-Tetrac | | 0.221 | 0.292 | 0.280 | 0.289 | 0.290 | 0.292 | 0.294 | 0.280 | 9.36 |
| 80) TP p/m Xylene | | 0.450 | 0.593 | 0.563 | 0.579 | 0.565 | 0.557 | 0.541 | 0.550 | 8.54 |
| 81) TP o Xylene | | 0.429 | 0.544 | 0.515 | 0.521 | 0.508 | 0.496 | 0.482 | 0.499 | 7.33 |
| 82) TP Styrene | | 0.678 | 0.882 | 0.847 | 0.868 | 0.836 | 0.816 | 0.791 | 0.817 | 8.37 |
| 83) I 1,4-Dichlorobenzene-d4 | | | | | | | | | | |
| 84) TP Bromoform | | 0.257 | 0.302 | 0.332 | 0.346 | 0.347 | 0.352 | 0.368 | 0.329 | 11.51 |
| 86) TP Isopropylbenzene | | 2.549 | 3.254 | 3.177 | 3.291 | 3.485 | 3.452 | 3.402 | 3.230 | 9.91 |
| 87) S 4-Bromofluorobenzene | 1.035 | 1.027 | 1.023 | 1.009 | 1.005 | 1.009 | 1.027 | 1.031 | 1.021 | 1.12 |
| 88) TP Bromobenzene | | 0.601 | 0.728 | 0.708 | 0.725 | 0.704 | 0.709 | 0.721 | 0.699 | 6.33 |
| 89) TP n-Propylbenzene | | 2.955 | 3.830 | 3.786 | 3.872 | 3.774 | 3.730 | 3.672 | 3.660 | 8.67 |



Initial Calibration Summary

Form 6

Volatiles

| | | | |
|--------------------------|--------------------------------------|-----------------------|-------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Instrument ID | : VOA122 | Ical Ref | : ICAL17366 |
| Calibration dates | : 11/18/20 17:28 11/18/20 21:34 | | |

Calibration Files

L11 =V22201118N03.D L1 =V22201118N05.D L2 =V22201118N07.D L3 =V22201118N09.D L4 =V22201118N10.D
 L6 =V22201118N11.D L8 =V22201118N12.D L10 =V22201118N13.D

| Compound | L11 | L1 | L2 | L3 | L4 | L6 | L8 | L10 | Avg | %RSD |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90) TP 1,4-Dichlorobu | 1.067 | 1.046 | 1.012 | 0.989 | 0.959 | 0.949 | 0.959 | 0.959 | 0.997 | 4.63 |
| 91) TP 1,1,2,2-Tetrac | 0.547 | 0.565 | 0.561 | 0.559 | 0.532 | 0.529 | 0.533 | 0.547 | | 2.83 |
| 92) TP 4-Ethyltoluene | 2.406 | 3.078 | 3.038 | 3.100 | 3.045 | 3.034 | 2.986 | 2.955 | | 8.29 |
| 93) TP 2-Chlorotoluene | 2.024 | 2.585 | 2.458 | 2.484 | 2.422 | 2.423 | 2.422 | 2.403 | | 7.35 |
| 94) TP 1,3,5-Trimethy | 2.115 | 2.685 | 2.559 | 2.627 | 2.577 | 2.557 | 2.534 | 2.522 | | 7.40 |
| 95) TP 1,2,3-Trichlor | 0.431 | 0.457 | 0.427 | 0.430 | 0.413 | 0.409 | 0.419 | 0.427 | | 3.72 |
| 96) TP trans-1,4-Dich | 0.158 | 0.184 | 0.170 | 0.177 | 0.174 | 0.176 | 0.182 | 0.174 | | 4.93 |
| 97) TP 4-Chlorotoluene | 1.954 | 2.334 | 2.219 | 2.240 | 2.202 | 2.199 | 2.195 | 2.192 | | 5.26 |
| 98) TP tert-Butylbenzene | 1.779 | 2.258 | 2.244 | 2.303 | 2.240 | 2.224 | 2.186 | 2.176 | | 8.21 |
| 101) TP 1,2,4-Trimethy | 2.106 | 2.577 | 2.507 | 2.542 | 2.507 | 2.472 | 2.449 | 2.452 | | 6.45 |
| 102) TP sec-Butylbenzene | 2.100 | 2.764 | 2.843 | 2.945 | 2.884 | 2.809 | 2.771 | 2.731 | | 10.45 |
| 103) TP p-Isopropyltol | 2.135 | 2.620 | 2.684 | 3.028 | 2.932 | 2.863 | 2.780 | 2.720 | | 10.80 |
| 104) TP 1,3-Dichlorobe | 1.368 | 1.713 | 1.407 | 1.422 | 1.365 | 1.490 | 1.267 | 1.433 | | 9.81 |
| 105) TP 1,4-Dichlorobe | 1.270 | 1.471 | 1.379 | 1.413 | 1.375 | 1.354 | 1.353 | 1.374 | | 4.47 |
| 106) TP p-Diethylbenzene | 1.170 | 1.503 | 1.505 | 1.561 | 1.531 | 1.507 | 1.488 | 1.466 | | 9.06 |
| 107) TP n-Butylbenzene | 1.625 | 2.233 | 2.222 | 2.304 | 2.231 | 2.206 | 2.181 | 2.143 | | 10.81 |
| 108) TP 1,2-Dichlorobe | 1.091 | 1.296 | 1.240 | 1.245 | 1.224 | 1.205 | 1.198 | 1.214 | | 5.21 |
| 109) TP 1,2,4,5-Tetram | 1.746 | 2.106 | 2.087 | 2.156 | 2.095 | 2.087 | 2.051 | 2.047 | | 6.66 |
| 110) TP 1,2-Dibromo-3- | 0.050 | 0.082 | 0.078 | 0.089 | 0.085 | 0.085 | 0.088 | 0.080 | | 16.85 |
| 111) TP 1,3,5-Trichlor | 0.610 | 0.771 | 0.741 | 0.763 | 0.745 | 0.748 | 0.745 | 0.732 | | 7.49 |
| 112) TP Hexachlorobuta | 0.161 | 0.236 | 0.238 | 0.250 | 0.255 | 0.261 | 0.261 | 0.237 | | 14.86 |
| 113) TP 1,2,4-Trichlor | 0.620 | 0.690 | 0.666 | 0.693 | 0.691 | 0.692 | 0.703 | 0.679 | | 4.21 |
| 114) TP Naphthalene | 1.667 | 1.758 | 1.722 | 1.754 | 1.709 | 1.681 | 1.706 | 1.714 | | 2.00 |
| 115) TP 1,2,3-Trichlor | 0.504 | 0.583 | 0.576 | 0.601 | 0.589 | 0.597 | 0.603 | 0.579 | | 5.98 |



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Instrument ID : ELAINE
 Lab File ID : VE201123N01
 Sample No : WG1438001-2
 Channel :

Lab Number : L2051463
 Project Number : 28012
 Calibration Date : 11/23/20 17:50
 Init. Calib. Date(s) : 09/29/20 09/30/20
 Init. Calib. Times : 17:13 14:50

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---------------------------|----------|---------------|---------|---------------|--------|-------|----------|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 80 | 0 |
| Dichlorodifluoromethane | 0.152 | 0.175 | - | -15.1 | 20 | 106 | .01 |
| Chloromethane | 0.226 | 0.233 | - | -3.1 | 20 | 91 | 0 |
| Vinyl chloride | 0.203 | 0.223 | - | -9.9 | 20 | 100 | .01 |
| Bromomethane | 0.078 | 0.073* | - | 6.4 | 20 | 101 | .01 |
| Chloroethane | 0.099 | 0.117 | - | -18.2 | 20 | 100 | .01 |
| Trichlorofluoromethane | 0.241 | 0.276 | - | -14.5 | 20 | 102 | .01 |
| Ethyl ether | 0.086 | 0.082 | - | 4.7 | 20 | 90 | 0 |
| 1,1-Dichloroethene | 0.148 | 0.151 | - | -2 | 20 | 95 | 0 |
| Carbon disulfide | 0.296 | 0.305 | - | -3 | 20 | 94 | 0 |
| Freon-113 | 0.151 | 0.188 | - | -24.5* | 20 | 112 | .01 |
| Acrolein | 0.021 | 0.021* | - | 0 | 20 | 94 | 0 |
| Methylene chloride | 0.165 | 0.159 | - | 3.6 | 20 | 88 | 0 |
| Acetone | 0.036 | 0.028* | - | 22.2* | 20 | 70 | 0 |
| trans-1,2-Dichloroethene | 0.154 | 0.161 | - | -4.5 | 20 | 98 | 0 |
| Methyl acetate | 0.106 | 0.078* | - | 26.4* | 20 | 66 | 0 |
| Methyl tert-butyl ether | 0.375 | 0.339 | - | 9.6 | 20 | 82 | 0 |
| tert-Butyl alcohol | 0.01038 | 0.00825* | - | 20.5* | 20 | 72 | 0 |
| Diisopropyl ether | 0.714 | 0.651 | - | 8.8 | 20 | 82 | 0 |
| 1,1-Dichloroethane | 0.337 | 0.346 | - | -2.7 | 20 | 93 | 0 |
| Halothane | 0.136 | 0.142 | - | -4.4 | 20 | 94 | 0 |
| Acrylonitrile | 0.044 | 0.038* | - | 13.6 | 20 | 75 | 0 |
| Ethyl tert-butyl ether | 0.543 | 0.503 | - | 7.4 | 20 | 86 | 0 |
| Vinyl acetate | 0.382 | 0.311 | - | 18.6 | 20 | 76 | 0 |
| cis-1,2-Dichloroethene | 0.191 | 0.179 | - | 6.3 | 20 | 82 | 0 |
| 2,2-Dichloropropane | 0.228 | 0.247 | - | -8.3 | 20 | 97 | 0 |
| Bromochloromethane | 0.081 | 0.075 | - | 7.4 | 20 | 76 | 0 |
| Cyclohexane | 0.336 | 0.389 | - | -15.8 | 20 | 107 | 0 |
| Chloroform | 0.3 | 0.299 | - | 0.3 | 20 | 92 | 0 |
| Ethyl acetate | 0.135 | 0.105 | - | 22.2* | 20 | 71 | 0 |
| Carbon tetrachloride | 0.225 | 0.228 | - | -1.3 | 20 | 95 | 0 |
| Tetrahydrofuran | 0.037 | 0.028* | - | 24.3* | 20 | 63 | 0 |
| Dibromofluoromethane | 0.248 | 0.228 | - | 8.1 | 20 | 74 | 0 |
| 1,1,1-Trichloroethane | 0.256 | 0.264 | - | -3.1 | 20 | 95 | 0 |
| 2-Butanone | 0.057 | 0.046* | - | 19.3 | 20 | 66 | 0 |
| 1,1-Dichloropropene | 0.226 | 0.233 | - | -3.1 | 20 | 95 | 0 |
| Benzene | 0.725 | 0.731 | - | -0.8 | 20 | 91 | 0 |
| tert-Amyl methyl ether | 0.39 | 0.356 | - | 8.7 | 20 | 84 | 0 |
| 1,2-Dichloroethane-d4 | 0.264 | 0.249 | - | 5.7 | 20 | 78 | 0 |
| 1,2-Dichloroethane | 0.215 | 0.199 | - | 7.4 | 20 | 83 | 0 |
| Methyl cyclohexane | 0.271 | 0.329 | - | -21.4* | 20 | 110 | 0 |
| Trichloroethene | 0.177 | 0.177* | - | 0 | 20 | 89 | 0 |
| Dibromomethane | 0.082 | 0.077 | - | 6.1 | 20 | 80 | 0 |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Instrument ID : ELAINE
 Lab File ID : VE201123N01
 Sample No : WG1438001-2
 Channel :

Lab Number : L2051463
 Project Number : 28012
 Calibration Date : 11/23/20 17:50
 Init. Calib. Date(s) : 09/29/20 09/30/20
 Init. Calib. Times : 17:13 14:50

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|----------|---------|--------|--------|-------|----------|
| 1,2-Dichloropropane | 0.193 | 0.187 | - | 3.1 | 20 | 87 | 0 |
| Bromodichloromethane | 0.214 | 0.2 | - | 6.5 | 20 | 84 | 0 |
| 1,4-Dioxane | 0.00096 | 0.00084* | - | 12.5 | 20 | 70 | 0 |
| cis-1,3-Dichloropropene | 0.26 | 0.234 | - | 10 | 20 | 83 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 77 | 0 |
| Toluene-d8 | 1.258 | 1.264 | - | -0.5 | 20 | 76 | 0 |
| Toluene | 0.582 | 0.612 | - | -5.2 | 20 | 89 | 0 |
| 4-Methyl-2-pentanone | 0.06 | 0.048* | - | 20 | 20 | 73 | 0 |
| Tetrachloroethene | 0.271 | 0.288 | - | -6.3 | 20 | 90 | 0 |
| trans-1,3-Dichloropropene | 0.286 | 0.261 | - | 8.7 | 20 | 82 | 0 |
| Ethyl methacrylate | 0.204 | 0.178 | - | 12.7 | 20 | 86 | 0 |
| 1,1,2-Trichloroethane | 0.142 | 0.137 | - | 3.5 | 20 | 82 | 0 |
| Chlorodibromomethane | 0.196 | 0.176 | - | 10.2 | 20 | 79 | 0 |
| 1,3-Dichloropropane | 0.302 | 0.286 | - | 5.3 | 20 | 81 | 0 |
| 1,2-Dibromoethane | 0.16 | 0.144 | - | 10 | 20 | 79 | 0 |
| 2-Hexanone | 0.112 | 0.081* | - | 27.7* | 20 | 70 | 0 |
| Chlorobenzene | 0.641 | 0.679 | - | -5.9 | 20 | 90 | 0 |
| Ethylbenzene | 1.023 | 1.139 | - | -11.3 | 20 | 94 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.231 | 0.223 | - | 3.5 | 20 | 85 | 0 |
| p/m Xylene | 0.405 | 0.463 | - | -14.3 | 20 | 93 | 0 |
| o Xylene | 0.376 | 0.424 | - | -12.8 | 20 | 94 | 0 |
| Styrene | 0.604 | 0.681 | - | -12.7 | 20 | 90 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 73 | 0 |
| Bromoform | 0.231 | 0.21 | - | 9.1 | 20 | 78 | 0 |
| Isopropylbenzene | 1.957 | 2.316 | - | -18.3 | 20 | 94 | 0 |
| 4-Bromofluorobenzene | 0.861 | 0.896 | - | -4.1 | 20 | 76 | 0 |
| Bromobenzene | 0.526 | 0.545 | - | -3.6 | 20 | 87 | 0 |
| n-Propylbenzene | 2.167 | 2.612 | - | -20.5* | 20 | 95 | 0 |
| 1,4-Dichlorobutane | 0.607 | 0.593 | - | 2.3 | 20 | 83 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.351 | 0.323 | - | 8 | 20 | 77 | 0 |
| 4-Ethyltoluene | 1.845 | 2.2 | - | -19.2 | 20 | 97 | 0 |
| 2-Chlorotoluene | 1.55 | 1.825 | - | -17.7 | 20 | 96 | 0 |
| 1,3,5-Trimethylbenzene | 1.611 | 1.927 | - | -19.6 | 20 | 97 | 0 |
| 1,2,3-Trichloropropane | 0.296 | 0.282 | - | 4.7 | 20 | 77 | 0 |
| trans-1,4-Dichloro-2-buten | 0.093 | 0.083 | - | 10.8 | 20 | 91 | 0 |
| 4-Chlorotoluene | 1.416 | 1.642 | - | -16 | 20 | 96 | 0 |
| tert-Butylbenzene | 1.598 | 1.633 | - | -2.2 | 20 | 79 | 0 |
| 1,2,4-Trimethylbenzene | 1.599 | 1.878 | - | -17.4 | 20 | 95 | 0 |
| sec-Butylbenzene | 1.872 | 2.163 | - | -15.5 | 20 | 93 | 0 |
| p-Isopropyltoluene | 1.647 | 1.945 | - | -18.1 | 20 | 95 | 0 |
| 1,3-Dichlorobenzene | 0.985 | 1.055 | - | -7.1 | 20 | 89 | 0 |
| 1,4-Dichlorobenzene | 1.003 | 1.036 | - | -3.3 | 20 | 86 | 0 |
| p-Diethylbenzene | 0.941 | 1.083 | - | -15.1 | 20 | 95 | 0 |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

| | | | |
|---------------|--------------------------------------|----------------------|--------------------------|
| Client | : Sterling Environmental Engineering | Lab Number | : L2051463 |
| Project Name | : FORMER M. ARGUESO | Project Number | : 28012 |
| Instrument ID | : ELAINE | Calibration Date | : 11/23/20 17:50 |
| Lab File ID | : VE201123N01 | Init. Calib. Date(s) | : 09/29/20 09/30/20 |
| Sample No | : WG1438001-2 | Init. Calib. Times | : 17:13 14:50 |
| Channel | : | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|-------|--------|-------|----------|
| n-Butylbenzene | 1.4 | 1.655 | - | -18.2 | 20 | 96 | 0 |
| 1,2-Dichlorobenzene | 0.894 | 0.914 | - | -2.2 | 20 | 84 | 0 |
| 1,2,4,5-Tetramethylbenzene | 1.504 | 1.542 | - | -2.5 | 20 | 91 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.053 | 0.035* | - | 34* | 20 | 57 | 0 |
| 1,3,5-Trichlorobenzene | 0.663 | 0.688 | - | -3.8 | 20 | 85 | 0 |
| Hexachlorobutadiene | 0.225 | 0.249 | - | -10.7 | 20 | 91 | 0 |
| 1,2,4-Trichlorobenzene | 0.576 | 0.477 | - | 17.2 | 20 | 71 | 0 |
| Naphthalene | 0.972 | 0.613 | - | 36.9* | 20 | 59 | 0 |
| 1,2,3-Trichlorobenzene | 0.5 | 0.368 | - | 26.4* | 20 | 64 | 0 |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Instrument ID : VOA122
 Lab File ID : V22201124A01
 Sample No : WG1438122-2
 Channel :

Lab Number : L2051463
 Project Number : 28012
 Calibration Date : 11/24/20 09:25
 Init. Calib. Date(s) : 11/18/20 11/18/20
 Init. Calib. Times : 17:28 21:34

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|--------------------------|----------|---------------|---------|---------------|--------|-------|----------|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 94 | 0 |
| Dichlorodifluoromethane | 0.2 | 0.208 | - | -4 | 20 | 91 | 0 |
| Chloromethane | 0.292 | 0.346 | - | -18.5 | 20 | 106 | 0 |
| Vinyl chloride | 0.271 | 0.291 | - | -7.4 | 20 | 97 | 0 |
| Bromomethane | 0.1 | 0.076* | - | 24* | 20 | 90 | 0 |
| Chloroethane | 0.137 | 0.149 | - | -8.8 | 20 | 94 | 0 |
| Trichlorofluoromethane | 0.29 | 0.333 | - | -14.8 | 20 | 100 | 0 |
| Ethyl ether | 0.092 | 0.094 | - | -2.2 | 20 | 91 | 0 |
| 1,1-Dichloroethene | 0.172 | 0.188 | - | -9.3 | 20 | 96 | 0 |
| Carbon disulfide | 0.429 | 0.469 | - | -9.3 | 20 | 100 | 0 |
| Freon-113 | 0.196 | 0.207 | - | -5.6 | 20 | 98 | 0 |
| Iodomethane | 10 | 7.248 | - | 27.5* | 20 | 87 | 0 |
| Acrolein | 0.031 | 0.035* | - | -12.9 | 20 | 100 | 0 |
| Methylene chloride | 0.193 | 0.211 | - | -9.3 | 20 | 101 | 0 |
| Acetone | 0.047 | 0.057* | - | -21.3* | 20 | 104 | 0 |
| trans-1,2-Dichloroethene | 0.2 | 0.218 | - | -9 | 20 | 99 | 0 |
| Methyl acetate | 0.108 | 0.113 | - | -4.6 | 20 | 99 | 0 |
| Methyl tert-butyl ether | 0.426 | 0.445 | - | -4.5 | 20 | 93 | 0 |
| tert-Butyl alcohol | 0.014 | 0.015* | - | -7.1 | 20 | 99 | 0 |
| Diisopropyl ether | 0.727 | 0.833 | - | -14.6 | 20 | 104 | 0 |
| 1,1-Dichloroethane | 0.408 | 0.453 | - | -11 | 20 | 102 | 0 |
| Halothane | 0.16 | 0.176 | - | -10 | 20 | 101 | 0 |
| Acrylonitrile | 0.06 | 0.066 | - | -10 | 20 | 97 | 0 |
| Ethyl tert-butyl ether | 0.665 | 0.715 | - | -7.5 | 20 | 97 | 0 |
| Vinyl acetate | 0.4 | 0.427 | - | -6.7 | 20 | 102 | 0 |
| cis-1,2-Dichloroethene | 0.224 | 0.244 | - | -8.9 | 20 | 98 | 0 |
| 2,2-Dichloropropane | 0.247 | 0.267 | - | -8.1 | 20 | 105 | 0 |
| Bromochloromethane | 0.089 | 0.106 | - | -19.1 | 20 | 100 | 0 |
| Cyclohexane | 0.455 | 0.515 | - | -13.2 | 20 | 106 | 0 |
| Chloroform | 0.347 | 0.377 | - | -8.6 | 20 | 98 | 0 |
| Ethyl acetate | 0.16 | 0.165 | - | -3.1 | 20 | 92 | 0 |
| Carbon tetrachloride | 0.267 | 0.313 | - | -17.2 | 20 | 105 | 0 |
| Tetrahydrofuran | 0.055 | 0.061 | - | -10.9 | 20 | 98 | 0 |
| Dibromofluoromethane | 0.228 | 0.242 | - | -6.1 | 20 | 99 | 0 |
| 1,1,1-Trichloroethane | 0.317 | 0.343 | - | -8.2 | 20 | 98 | 0 |
| 2-Butanone | 0.066 | 0.073* | - | -10.6 | 20 | 97 | 0 |
| 1,1-Dichloropropene | 0.257 | 0.28 | - | -8.9 | 20 | 97 | 0 |
| Benzene | 0.789 | 0.822 | - | -4.2 | 20 | 96 | 0 |
| tert-Amyl methyl ether | 0.48 | 0.479 | - | 0.2 | 20 | 91 | 0 |
| 1,2-Dichloroethane-d4 | 0.244 | 0.257 | - | -5.3 | 20 | 100 | 0 |
| 1,2-Dichloroethane | 0.255 | 0.267 | - | -4.7 | 20 | 98 | 0 |
| Methyl cyclohexane | 0.354 | 0.365 | - | -3.1 | 20 | 97 | 0 |
| Trichloroethene | 0.219 | 0.227 | - | -3.7 | 20 | 97 | 0 |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : FORMER M. ARGUESO
 Instrument ID : VOA122
 Lab File ID : V22201124A01
 Sample No : WG1438122-2
 Channel :

Lab Number : L2051463
 Project Number : 28012
 Calibration Date : 11/24/20 09:25
 Init. Calib. Date(s) : 11/18/20 11/18/20
 Init. Calib. Times : 17:28 21:34

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|----------|---------|-------|--------|-------|----------|
| Dibromomethane | 0.108 | 0.112 | - | -3.7 | 20 | 94 | 0 |
| 1,2-Dichloropropane | 0.226 | 0.236 | - | -4.4 | 20 | 98 | 0 |
| Bromodichloromethane | 0.26 | 0.268 | - | -3.1 | 20 | 96 | 0 |
| 1,4-Dioxane | 0.0013 | 0.00149* | - | -14.6 | 20 | 99 | 0 |
| cis-1,3-Dichloropropene | 0.308 | 0.317 | - | -2.9 | 20 | 96 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 96 | 0 |
| Toluene-d8 | 1.319 | 1.307 | - | 0.9 | 20 | 95 | 0 |
| Toluene | 0.433 | 0.421 | - | 2.8 | 20 | 95 | -.03 |
| 4-Methyl-2-pentanone | 0.083 | 0.08* | - | 3.6 | 20 | 87 | 0 |
| Tetrachloroethene | 0.314 | 0.319 | - | -1.6 | 20 | 94 | 0 |
| trans-1,3-Dichloropropene | 0.374 | 0.373 | - | 0.3 | 20 | 96 | 0 |
| Ethyl methacrylate | 0.282 | 0.257 | - | 8.9 | 20 | 86 | 0 |
| 1,1,2-Trichloroethane | 0.185 | 0.177 | - | 4.3 | 20 | 91 | 0 |
| Chlorodibromomethane | 0.259 | 0.261 | - | -0.8 | 20 | 98 | 0 |
| 1,3-Dichloropropane | 0.365 | 0.35 | - | 4.1 | 20 | 90 | 0 |
| 1,2-Dibromoethane | 0.22 | 0.212 | - | 3.6 | 20 | 88 | 0 |
| 2-Hexanone | 0.137 | 0.13 | - | 5.1 | 20 | 87 | 0 |
| Chlorobenzene | 0.795 | 0.797 | - | -0.3 | 20 | 95 | 0 |
| Ethylbenzene | 1.399 | 1.382 | - | 1.2 | 20 | 93 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.28 | 0.286 | - | -2.1 | 20 | 97 | 0 |
| p/m Xylene | 0.55 | 0.549 | - | 0.2 | 20 | 93 | 0 |
| o Xylene | 0.499 | 0.496 | - | 0.6 | 20 | 92 | 0 |
| Styrene | 0.817 | 0.811 | - | 0.7 | 20 | 92 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 98 | 0 |
| Bromoform | 0.329 | 0.329 | - | 0 | 20 | 97 | 0 |
| Isopropylbenzene | 3.23 | 3.005 | - | 7 | 20 | 92 | 0 |
| 4-Bromofluorobenzene | 1.021 | 0.988 | - | 3.2 | 20 | 95 | 0 |
| Bromobenzene | 0.699 | 0.679 | - | 2.9 | 20 | 93 | 0 |
| n-Propylbenzene | 3.66 | 3.544 | - | 3.2 | 20 | 91 | 0 |
| 1,4-Dichlorobutane | 0.997 | 0.928 | - | 6.9 | 20 | 89 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.547 | 0.5 | - | 8.6 | 20 | 87 | 0 |
| 4-Ethyltoluene | 2.955 | 2.848 | - | 3.6 | 20 | 91 | 0 |
| 2-Chlorotoluene | 2.403 | 2.281 | - | 5.1 | 20 | 90 | 0 |
| 1,3,5-Trimethylbenzene | 2.522 | 2.383 | - | 5.5 | 20 | 91 | 0 |
| 1,2,3-Trichloropropane | 0.427 | 0.382 | - | 10.5 | 20 | 87 | 0 |
| trans-1,4-Dichloro-2-buten | 0.174 | 0.161 | - | 7.5 | 20 | 92 | 0 |
| 4-Chlorotoluene | 2.192 | 2.084 | - | 4.9 | 20 | 92 | 0 |
| tert-Butylbenzene | 2.176 | 2.094 | - | 3.8 | 20 | 91 | 0 |
| 1,2,4-Trimethylbenzene | 2.452 | 2.323 | - | 5.3 | 20 | 90 | 0 |
| sec-Butylbenzene | 2.731 | 2.683 | - | 1.8 | 20 | 92 | 0 |
| p-Isopropyltoluene | 2.72 | 2.504 | - | 7.9 | 20 | 91 | 0 |
| 1,3-Dichlorobenzene | 1.433 | 1.392 | - | 2.9 | 20 | 96 | 0 |
| 1,4-Dichlorobenzene | 1.374 | 1.314 | - | 4.4 | 20 | 93 | 0 |

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

| | |
|---|---|
| Client : Sterling Environmental Engineering | Lab Number : L2051463 |
| Project Name : FORMER M. ARGUESO | Project Number : 28012 |
| Instrument ID : VOA122 | Calibration Date : 11/24/20 09:25 |
| Lab File ID : V22201124A01 | Init. Calib. Date(s) : 11/18/20 11/18/20 |
| Sample No : WG1438122-2 | Init. Calib. Times : 17:28 21:34 |
| Channel : | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|------|--------|-------|----------|
| p-Diethylbenzene | 1.466 | 1.392 | - | 5 | 20 | 90 | 0 |
| n-Butylbenzene | 2.143 | 2.105 | - | 1.8 | 20 | 92 | 0 |
| 1,2-Dichlorobenzene | 1.214 | 1.158 | - | 4.6 | 20 | 91 | 0 |
| 1,2,4,5-Tetramethylbenzene | 2.047 | 1.942 | - | 5.1 | 20 | 91 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.08 | 0.077 | - | 3.8 | 20 | 95 | 0 |
| 1,3,5-Trichlorobenzene | 0.732 | 0.695 | - | 5.1 | 20 | 91 | 0 |
| Hexachlorobutadiene | 0.237 | 0.23 | - | 3 | 20 | 95 | 0 |
| 1,2,4-Trichlorobenzene | 0.679 | 0.637 | - | 6.2 | 20 | 93 | 0 |
| Naphthalene | 1.714 | 1.537 | - | 10.3 | 20 | 87 | 0 |
| 1,2,3-Trichlorobenzene | 0.579 | 0.551 | - | 4.8 | 20 | 93 | 0 |

* Value outside of QC limits.

