

February 3, 2025

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
December 2024 Groundwater Monitoring Report
STERLING File #28012 (Task 995)

Dear Mr. Lanners,

Sterling Environmental Engineering P.C. (STERLING) performed groundwater monitoring at the subject site on December 23, 2024. Groundwater monitoring was conducted 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, April 29, 2015, and September 9, 2021.

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 year after the injection was completed. Groundwater monitoring was reduced to semiannual in 2015 and to every nine months starting in 2021. This report presents the results of the December 2024 groundwater monitoring event, which included: groundwater gauging of eight groundwater monitoring wells, calculation of groundwater flow direction, and sampling of five groundwater monitoring wells for analysis of volatile organic compounds (VOC) by United States Environmental Protection Agency (USEPA) Method 8260.

Groundwater Flow Direction

The estimated groundwater flow in the deep overburden hydrogeologic unit is to the north-northeast (Figure 1), which is consistent with historical conditions. The deep overburden groundwater elevation decreased an average of 0.92 feet compared to groundwater elevation measurements collected in March 2024.

Groundwater Monitoring

Groundwater samples were collected from four onsite monitoring wells (GZ-21D, GZ-22D, GZ-23D, and B6-OWD) and one offsite monitoring well (OSMW-3). The locations of the groundwater monitoring wells are presented in Figure 2. All groundwater samples were analyzed for TCL VOCs via USEPA Method 8260. 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

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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. The laboratory analytical report is attached.

Chlorinated Volatile Organic Compounds (cVOC)

Since the HRC injections in June 2013, groundwater quality has improved in the wells closest to the injection. Concentrations of tetrachloroethylene (PCE) and trichloroethylene (TCE) have decreased and are remaining stable in monitoring wells GZ-21D, GZ-22D, and GZ-23D, while concentrations of degradation compounds have increased with some compounds remaining above standards. Concentrations of cVOCs have consistently remained above standards in upgradient offsite well OSMW-3, as well as onsite well B6-OWD. Graphs of concentrations versus time for each well are attached.

Other VOCs

Benzene was detected above the groundwater standard of 1.0 µg/L in GZ-22D (2.8 µg/L), GZ-23D (10 µg/L), and B6-OWD (7 µg/L). Methyl tert butyl ether (MTBE) was detected in GZ-21D (estimated 0.56 µg/L) and GZ-22D (estimated 0.6 µg/L), below the Guidance Value of 10 µg/L. Cyclohexane was detected in GZ-22D (estimated 2.0 µg/L), and GZ-23D (estimated 0.46 µg/L), though no groundwater standard or Guidance Value exists for this analyte. Methyl cyclohexane was detected in GZ-22D (estimated 1.2 µg/L), though no groundwater standard or Guidance Value exists for this analyte. O-Xylene was detected below the groundwater standard of 5.0 µg/L in GZ-23D (2.6 µg/L).

The following sections detail data trends in each deep zone monitoring well based on data summarized in Table 1 and shown on the attached graphs:

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). Total cVOCs decreased from the previous monitoring event in March 2024 and are lower than the highest levels in 2014. The concentrations of PCE and TCE remain below standards.

GZ-22D

PCE and TCE concentrations have decreased below standards since November 2014. 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. Total cVOCs have remained relatively stable since March 2019.

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 near or below groundwater standards since November 2020. 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 or at standards. The most recent VC concentration of 6.4 µg/L exceeds the groundwater standard of 2.0 µg/L. Cis-1,2-DCE concentrations are consistently detected above standards. Trans-1,2-DCE was not detected in this sampling event, and 1,2-DCA was detected at 1.3 µg/L, 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. Vinyl Chloride has remained above the groundwater standard of 2.0 µg/L since November 2021.

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. PCE has displayed a decrease in concentration since December 2019, though the concentration of 360 µg/L has slightly increased from the previous monitoring event in March 2024. Trans-1,2-DCE has been detected above the groundwater standard of 5 µg/L since August 2022. The concentration of VC remains below groundwater standards.

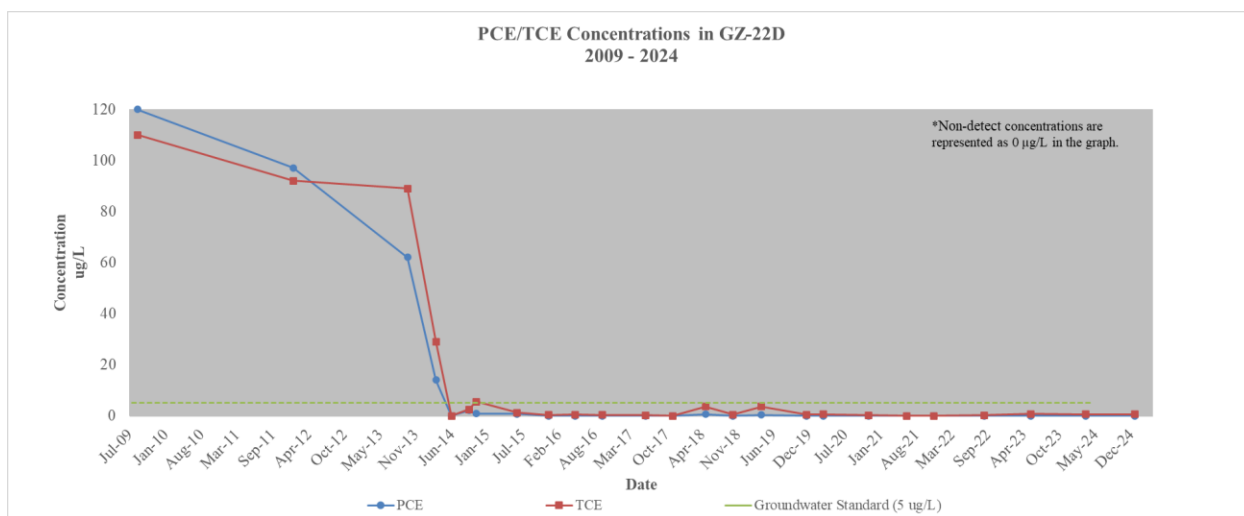
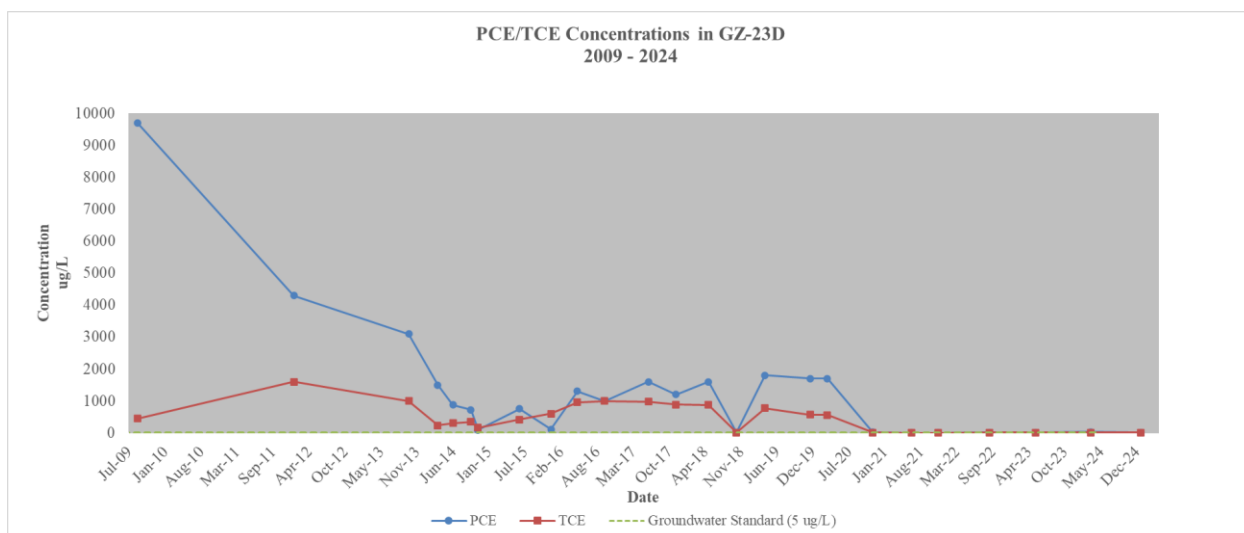
OSMW-4

All cVOCs have been below groundwater standards from March 2014 to June 2021. OSMW-4 has been removed from the monitoring program as documented in the September 9, 2021 modification letter from NYSDEC.

Monitoring Well Data Trends

The graphs below depict PCE and TCE concentrations in monitoring wells GZ-22D and GZ-23D over time (2009 - 2024). 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 concentrations levels over time for the cVOCs that have been consistently detected in these wells.



Conclusions and Recommendations

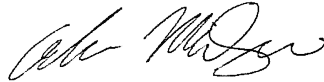
- Since the HRC injections in June 2013, groundwater quality has improved in the wells closest to the injection (i.e., GZ-22D and GZ-23D). Concentrations of PCE and TCE, the original two primary contaminants of concern, have decreased and are remaining stable in monitoring wells GZ-21D, GZ-22D, and GZ-23D, while concentrations of degradation compounds have increased with some compounds remaining above standards. In the remaining onsite monitoring well, B6-OWD, all cVOCs decreased to below standards from November 2014 through June 2017. Since November 2017, concentrations of PCE, TCE, 1,2-DCA, cis-1,2-DCE, trans-1,2-DCE, and VC have increased above standards. Similarly, in the upgradient offsite well OSMW-3, concentrations of PCE, TCE, 1,2-DCA, and cis-1,2-DCE have consistently remained above standards. NYSDEC has requested that additional remedial actions be evaluated for concentrations of cVOCs remaining above standards. If the source of the recent increases in onsite cVOC concentrations since November 2017 is from an upgradient source, the additional remedial action would be to target the upgradient offsite contamination. Under the COC and the Brownfield Agreement, the owner is not responsible for remediation of offsite contamination. In response to NYSDEC's request, STERLING is currently evaluating the data and will be submitting

a work plan under separate cover if it is determined that the increase in cVOC concentrations in B6-OWD is from an onsite source requiring remediation.

- The next sampling event is scheduled in or before September 2025.
- Emerging contaminants (i.e., PFAS compounds and 1,4-Dioxane) must be sampled every three years and were last sampled in May 2023; therefore, emerging contaminants will next be sampled during the June 2026 event.
- A Periodic Review Report (PRR) is due every two years. The last PRR period was submitted in February 2024 for a reporting period through January 22, 2024; therefore, the next PRR will be submitted in February 2026 for a reporting period through January 22, 2026.

Please contact me should you have any questions.

Very truly yours,
STERLING ENVIRONMENTAL ENGINEERING, P.C.



Andrew M. Millspaugh, P.E.
Vice President

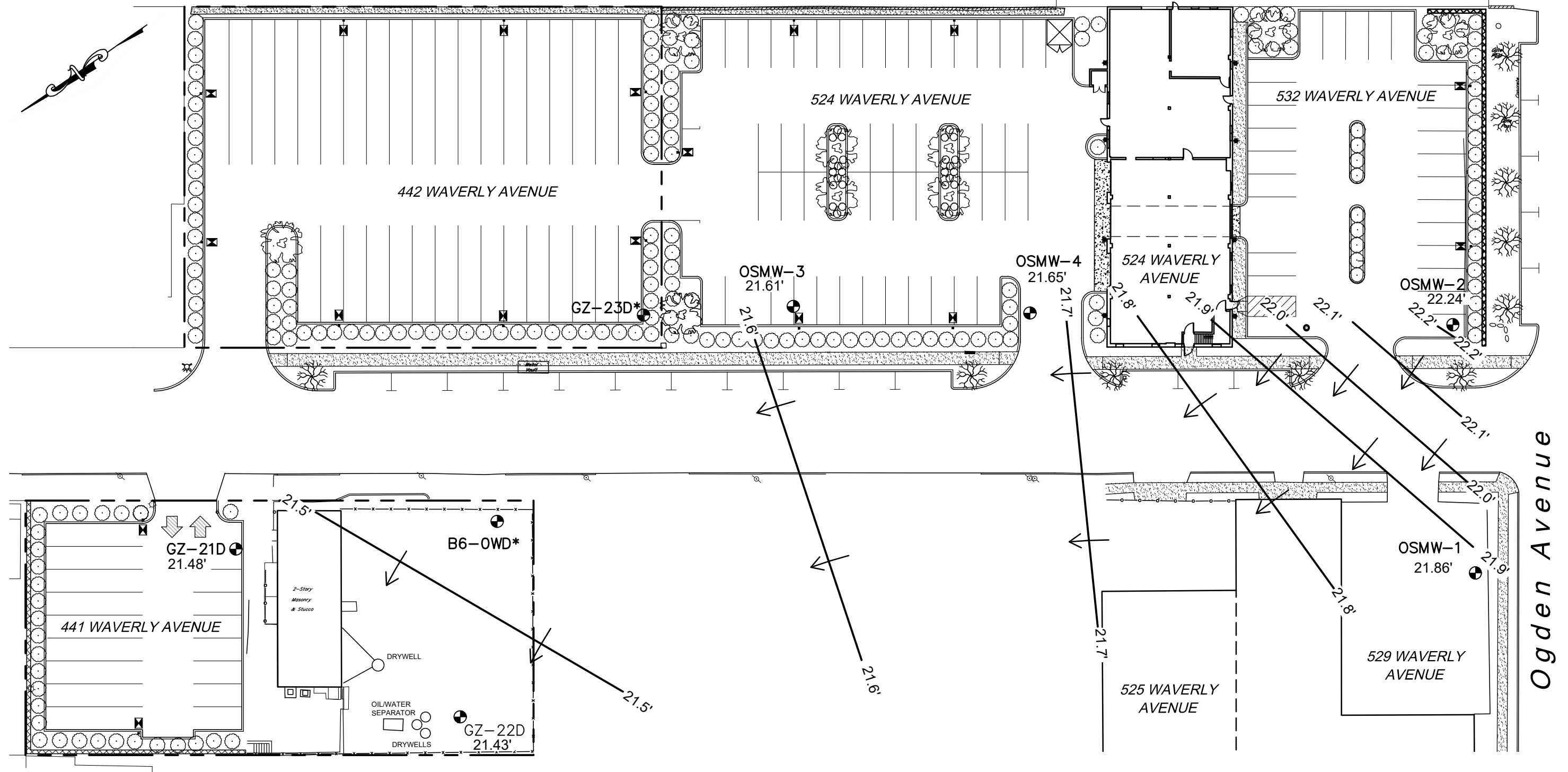
andrew.millspaugh@sterlingenvironmental.com

Email
Attachments

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

FIGURES

S:\Sterling\Projects\2008 Projects\Waverly Avenue (441 & 442) - 28012\Drawings-Maps-Figures\ACAD\28012125_F-1 - GW Elev 12-23-2024.dwg PAUL.SCHOLAR 1/21/2025 11:16 AM



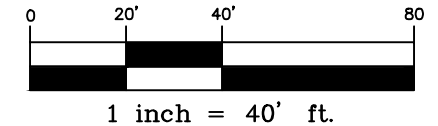
LEGEND:

- GZ-22D 21.43' MONITORING WELL WITH CORRESPONDING GROUNDWATER ELEVATION
- 21.8' GROUNDWATER CONTOUR
- ← 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	DECEMBER 2024
B6-OWD	615.70	3,805.0
GZ-21D	524.60	186.6
GZ-22D	260.40	86.8
GZ-23D	10,178.5	37.4
OSMW-3	900.10	467.1

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

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



STERLING

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

GROUNDWATER CONTOUR MAP
DECEMBER 23, 2024

SITE# C360108

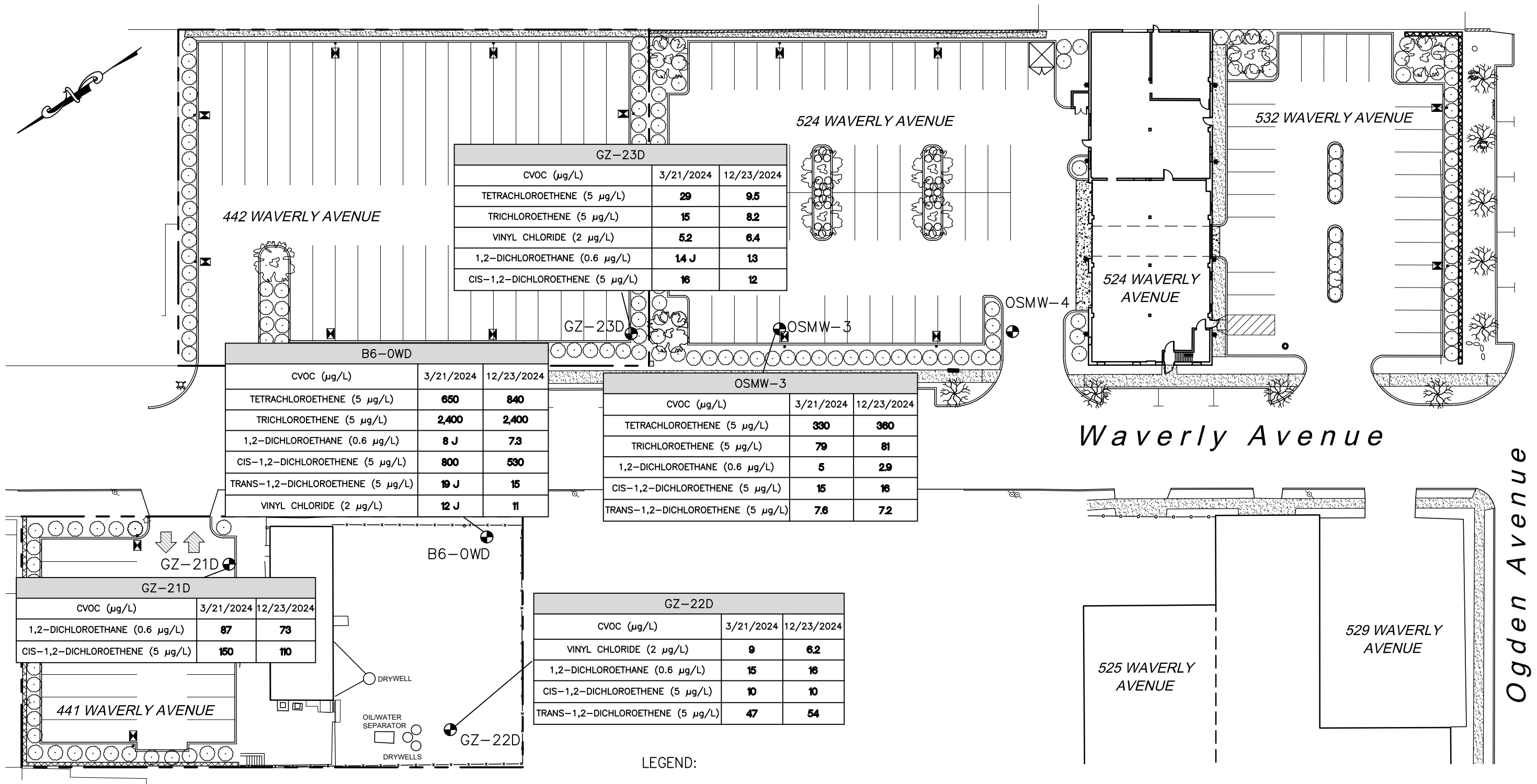
NEW WAVERLY AVENUE ASSOCIATES, LLC

V/T OF MAMARONECK

WESTCHESTER CO., N.Y.

PROJ. No.: 28012 | DATE: 01/21/2025 | SCALE: 1" = 40' | DWG. NO. 28012125 | FIGURE 1

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STERLING

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

MONITORING LOCATION MAP WITH EXCEEDANCES
DECEMBER 23, 2024

SITE# C360108

NEW WAVERLY AVENUE ASSOCIATES, LLC

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

PROJ. No.: 28012 | DATE: 1/21/2025 | SCALE: 1" = 40' | DWG. NO. 28012127 | FIGURE 2

TABLES

Table 1
Summary of Groundwater Analytical 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														
Unit	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
Chlorinated Volatile Organic Compounds:																
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
1,1,2,2-Tetrachloroethane	5.0	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
1,1,2-Trichloroethane	1.0	---	---	---	---	---	---	---	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<6.0	<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
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-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
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
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
1,2-Dichloropropane	1.0	---	---	---	---	---	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0
Bromochloromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	10
Bromodichloromethane	50	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<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
Chloroethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<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
Chloromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5
cis-1,3-Dichloropropene	0.4	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
Dibromochloromethane	50	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	1.7 J
Dichlorodifluoromethane	5.0	---	---	---	---	---	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0
Freon-113	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<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
Trichlorofluoromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<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
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
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
TOTAL CVOs		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

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
Summary of Groundwater Analytical 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-21 D cont.										DUP	DUP	DUP	DUP	DUP
Unit	µg/L	µg/L										µg/L	µg/L	µg/L	µg/L	µg/L
Sample Date		03/27/19	12/04/19	03/09/20	11/18/20	06/17/21	11/19/21	08/31/22	05/17/23	03/21/24	12/23/24	06/18/14	10/12/16	12/04/19	03/21/24	12/23/24
Chlorinated Volatile Organic Compounds:																
1,1,1-Trichloroethane	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 U	<4.0	<2.5	<2.5	<2.5	<2.5 U
1,1,2,2-Tetrachloroethane	5.0	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5 U	---	<0.5	<0.5	<0.5	<0.5 U
1,1,2-Trichloroethane	1.0	<3.8	<1.5	<1.5	<1.5	<1.5	<3	<3	<1.5	<1.5	<1.5 U	---	<1.5	<1.5	<1.5	<1.5 U
1,1-Dichloroethane	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 U	<4.0	<2.5	<2.5	<2.5	<2.5 U
1,1-Dichloroethene	5.0	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	0.41 J	<0.5	<0.5 U	<4.0	<0.50	<0.5	0.17 J	<0.5 U
1,2-Dichloroethane	0.6	110	74	77	110	5.1	110	130	99	87	73	190	56	74	87	75
cis-1,2-Dichloroethene	5.0	230	110	91	140	12	190	220	260 J	150	110	350	2.9	110	150	120
trans-1,2-Dichloroethene	5.0	2.6 J	1.9 J	1.6 J	1.9 J	<2.5	2.4 J	2.6 J	3.2	1.7 J	1.9 J	<4.0	0.75 J	1.7 J	1.9 J	1.8 J
1,2-Dichloropropane	1.0	<2.5	<1.0	<1.0	<1.0	<1	<2	<2	<1	<1	<1 U	---	<1.0	<1.0	<1	<1 U
Bromochloromethane	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 U	---	<2.5	<2.5	<2.5	<2.5 U
Bromodichloromethane	50	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5 U	---	<0.5	<0.5	<0.5	<0.5 U
Carbon Tetrachloride	5.0	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5 U	<4.0	<0.5	<0.5	<0.5	<0.5 U
Chloroethane	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	1.8 J	<2.5	<2.5	<2.5 U	---	<2.5	<2.5	<2.5	<2.5 U
Chloroform	7.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 U	<4.0	<2.5	<2.5	<2.5	<2.5 U
Chloromethane	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 UJ	---	<2.5	<2.5	<2.5	<2.5 UJ
cis-1,3-Dichloropropene	0.4	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5 U	---	<0.5	<0.5	<0.5	<0.5 U
Dibromochloromethane	50	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	<0.5	<0.5 U	---	<0.5	<0.5	<0.5	<0.5 U
Dichlorodifluoromethane	5.0	<12	<5	<5	<5	<5	<10	<10	<5	<5	<5 UJ	---	<5.0	<5	<5	<5 U
Freon-113	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 U	---	<2.5	<2.5	<2.5	<2.5 U
Methylene Chloride	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 U	<4.0	<2.5	<2.5	<2.5	<2.5 U
Trichlorofluoromethane	5.0	<6.2	<2.5	<2.5	<2.5	<2.5	<5	<5	<2.5	<2.5	<2.5 U	---	<2.5	<2.5	<2.5	<2.5 U
Tetrachloroethene	5.0	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	0.2 J	<0.5 U	2.9 J	<0.50	<0.5	0.19 J	0.23 J
Trichloroethene	5.0	<1.2	<0.5	<0.5	<0.5	<0.5	<1	<1	<0.5	0.18 J	<0.5 U	13	<0.50	<0.5	0.18 J	<0.5 U
Vinyl chloride	2.0	16	5	1.4	2.1 J	<1	6.7	5.7	14	4.4	1.7	<4.0	2.8	4.8	4.3	1.7
TOTAL CVOCS		358.6	190.9	171.0	254.0	17.1	309.1	360.1	376.6	243.5	186.6	555.9	62.45	190.5	243.74	198.73

Notes:

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Table 1
Summary of Groundwater Analytical 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														
Unit	µg/L	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
Chlorinated Volatile Organic Compounds:																
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
1,1,2,2-Tetrachloroethane	5.0	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<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	<1.5	<1.5
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
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
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
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
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
1,2-Dichloropropane	1.0	---	---	---	---	---	---	---	<1.0	<1.0	<1.0	<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	<2.5	<2.5
Bromodichloromethane	50	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<0.5	<0.5
Chloroethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<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	<2.5	<2.5
Chloromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<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	<0.5	<0.5
Dibromochloromethane	50	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<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	<0.5	<5.0
Freon-113	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
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
Trichlorofluoromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
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
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
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
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

Notes:

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Table 1
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441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

Sample ID	Water Quality Standard*	GZ-22D cont										DUP	DUP	DUP	DUP
Unit	µg/L	µg/L										ug/L	ug/L	ug/L	ug/L
Sample Date		03/27/19	12/04/19	03/09/20	11/18/20	06/17/21	11/19/21	08/31/22	05/17/23	03/21/24	12/23/24	11/19/21	11/18/20	03/24/14	03/09/20
Chlorinated Volatile Organic Compounds:															
1,1,1-Trichloroethane	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	<25	2.5
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 U	<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	<1.5	<1.5	<1.5 U	<1.5	<1.5	<1.5	---	<1.5
1,1-Dichloroethane	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	<25	2.5
1,1-Dichloroethene	5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 U	<0.5	<0.5	<0.5	<25	0.5
1,2-Dichloroethane	0.6	20	18	21	19	20	20	17	16	15	16	20	19	22 J	20
cis-1,2-Dichloroethene	5.0	17	5.7	4.7	8.6	8.4	10	8.8	13	10	10	9.7	7.9	100	4.3
trans-1,2-Dichloroethene	5.0	75	82	81	78	71	86	68	64	47	54	87	78	<25	77
1,2-Dichloropropane	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 U	<1	<1	---	<1
Bromochloromethane	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	---	2.5
Bromodichloromethane	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 U	<0.5	<0.5	<0.5	---	0.5
Carbon Tetrachloride	5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 U	<0.5	<0.5	<0.5	<25	0.5
Chloroethane	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	---	2.5
Chloroform	7.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	<25	2.5
Chloromethane	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 UJ	<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	<0.5	<0.5	<0.5 U	<0.5	<0.5	<0.5	---	<0.5
Dibromochloromethane	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 U	<0.5	<0.5	<0.5	---	0.5
Dichlorodifluoromethane	5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5 U	<5	<5	<5	---	<5
Freon-113	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	---	2.5
Methylene Chloride	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	<25	2.5
Trichlorofluoromethane	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5 U	<2.5	<2.5	<2.5	---	2.5
Tetrachloroethene	5.0	0.4 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 U	<0.5	<0.5	<0.5	21 J	0.5
Trichloroethene	5.0	3.6	0.5	0.23 J	0.56	<0.5	0.39 J	0.26 J	0.69	0.58	0.57	0.56	0.48 J	34	0.32 J
Vinyl chloride	2.0	8.3	5.8	6.7	5.6	8.5	7.9	8.5	7.9	9	6.2	7.9	5.7	<25	7.1
TOTAL CVOCs		124.3	112.0	113.63	111.76	107.9	124.3	102.6	101.6	81.6	86.8	125.2	111.1	177.0	108.72

Notes:

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441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

Sample ID	Water Quality Standard*	GZ-23D														
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
Chlorinated Volatile Organic Compounds:																
1,1,1-Trichloroethane	5.0	---	---	<100	<40	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12
1,1,2,2-Tetrachloroethane	5.0	---	---	---	---	---	---	---	<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5
1,1,2-Trichloroethane	1.0	---	---	---	---	---	---	---	<15	<30	<15	<38	<30	<30	<15	<7.5
1,1-Dichloroethane	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12
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
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
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
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
1,2-Dichloropropane	1.0	---	---	---	---	---	---	---	<10	<20	<10	<25	<20	<20	<10	<5.0
Bromochloromethane	5.0	---	---	---	---	---	---	---	<25	<50	<25	<62	<50	<50	<25	<12
Bromodichloromethane	50	---	---	---	---	---	---	---	<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5
Carbon Tetrachloride	5.0	---	---	<100	<40	<20	<20	<20	<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5
Chloroethane	5.0	---	---	---	---	---	---	---	<25	<50	<25	<62	<50	<50	<25	<12
Chloroform	7.0	---	---	<100	<40	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12
Chloromethane	5.0	---	---	---	---	---	---	---	<25	<50	<25	<62	<50	<50	<25	<12
cis-1,3-Dichloropropene	0.4	---	---	---	---	---	---	---	<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5
Dibromochloromethane	50	---	---	---	---	---	---	---	<5.0	<10	<5.0	<12	<10	<10	<5.0	<2.5
Dichlorodifluoromethane	5.0	---	---	---	---	---	---	---	<50	<100	<50	<120	<100	<100	<50	<25
Freon-113	5.0	---	---	---	---	---	---	---	<25	<50	<25	<62	<50	<50	<25	<12
Methylene Chloride	5.0	---	---	<100	<40	<20	<20	<20	<25	<50	<25	<62	<50	<50	<25	<12
Trichlorofluoromethane	5.0	---	---	---	---	---	---	---	<25	<50	<25	<62	<50	<50	<25	<12
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
Trichloroethene	5.0	450 D,J	1,600 D	1,000	240 D	310	350	160	420	600 j	960	1,000	980	890 D	880	16
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
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

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441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

Sample ID	Water Quality Standard*	GZ-23D cont.										DUP	DUP
Unit	µg/L	µg/L										µg/L	µg/L
Sample Date		03/28/19	12/04/19	03/09/20	11/18/20	06/17/21	11/19/21	08/31/22	05/17/23	03/21/24	12/23/24	06/13/17	05/17/23
Chlorinated Volatile Organic Compounds:													
1,1,1-Trichloroethane	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
1,1,2,2-Tetrachloroethane	5.0	<10	<10	<10	<0.5	<0.5	<0.5	<1	<1	<2	<0.5 U	<10	<1
1,1,2-Trichloroethane	1.0	<30	<30	<30	<1.5	<1.5	<1.5	<3	<3	<6	<1.5 U	<30	<3
1,1-Dichloroethane	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
1,1-Dichloroethene	5.0	<10	<10	<10	0.18 J	<0.5	<0.5	<1	<1	<2	<0.5 U	<10	<1
1,2-Dichloroethane	0.6	3.8 J	6.8 J	4.9 J	1.1	0.63	0.65	0.69 J	0.93 J	1.4 J	1.3	4.1 D,J	0.88 J
cis-1,2-Dichloroethene	5.0	150	240	160	23	5.2	5.7	14	14	16	12	290 D	14
trans-1,2-Dichloroethene	5.0	15 J	47 J	16 J	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	21 D,J	<5
1,2-Dichloropropane	1.0	<20	<20	<20	<1.0	<1	<1	<2	<2	<4	<1 U	<20	<2
Bromochloromethane	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
Bromodichloromethane	50	<10	<10	<10	<0.5	<0.5	<0.5	<1	<1	<2	<0.5 U	<10	<1
Carbon Tetrachloride	5.0	<10	<10	<10	<0.5	<0.5	<0.5	<1	<1	<2	<0.5 U	<10	<1
Chloroethane	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
Chloroform	7.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
Chloromethane	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 UJ	<50	<5
cis-1,3-Dichloropropene	0.4	<10	<10	<10	<0.5	<0.5	<0.5	<1	<1	<2	<0.5 U	<10	<1
Dibromochloromethane	50	<10	<10	<10	<0.5	<0.5	<0.5	<1	<1	<2	<0.5 U	<10	<1
Dichlorodifluoromethane	5.0	<100	<100	<100	<5.0	<5	<5	<10	<10	<20	<5 U	<100	<10
Freon-113	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
Methylene Chloride	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
Trichlorofluoromethane	5.0	<50	<50	<50	<2.5	<2.5	<2.5	<5	<5	<10	<2.5 U	<50	<5
Tetrachloroethene	5.0	1,800	1,700	1,700	19	<0.5	4.6	11	13	29	9.5	1,500 D	12
Trichloroethene	5.0	780	570	560	15	0.45 J	3.4	6.8	9.4	15	8.2	950 D	8.9
Vinyl chloride	2.0	32	57	30	5.6	4.8	2	5.7	5.9	5.2	6.4	71 D	5.8
TOTAL CVOCs		2,780.8	2,620.8	2,470.9	63.88	11.08	16.35	38.19	43.23	66.6	37.4	2,836.1	41.6

Notes:

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- 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.
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Table 1
Summary of Groundwater Analytical 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*	B6-OWD													
Unit	µg/L	µg/L													
Sample Date		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
Chlorinated Volatile Organic Compounds:															
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
1,1,2,2-Tetrachloroethane	5.0	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<1.0	<2.5	<10
1,1,2-Trichloroethane	1.0	---	---	---	---	---	---	---	<1.5	<1.5	<1.5	<1.5	<3.0	<7.5	<30
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
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
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
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
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	22 J
1,2-Dichloropropane	1.0	---	---	---	---	---	---	---	<1.0	<1.0	<1.0	<1.0	<2.0	<5.0	<20
Bromochloromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50
Bromodichloromethane	50	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<1.0	<2.5	<10
Carbon Tetrachloride	5.0	---	---	<5.0	---	<20	<4.0	<8.0	<0.5	<0.5	<0.5	<0.5	<1.0	<2.5	<10
Chloroethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50
Chloroform	7.0	---	---	<5.0	---	<20	4	<8.0	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50
Chloromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50
cis-1,3-Dichloropropene	0.4	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<1.0	<2.5	<10
Dibromochloromethane	50	---	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<1.0	<2.5	<10
Dichlorodifluoromethane	5.0	---	---	---	---	---	---	---	<5.0	<5.0	<5.0	<5.0	<10	<25	<100
Freon-113	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50
Methylene Chloride	5.0	---	---	<5.0	---	<20	<4.0	<8.0	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50
Trichlorofluoromethane	5.0	---	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<5.0	<12	<50
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
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
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
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

Notes:

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Table 1
Summary of Groundwater Analytical 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*	B6-OWD cont.												DUP	DUP	DUP	DUP	DUP
Unit	µg/L	µg/L												µg/L	µg/L	µg/L	µg/L	µg/L
Sample Date		10/18/18	03/27/19	12/04/19	03/09/20	11/18/20	06/17/21	11/19/21	08/31/22	05/17/23	03/21/24	12/23/24	12/16/15	05/16/18	10/18/18	10/18/18	06/17/21	
Chlorinated Volatile Organic Compounds:																		
1,1,1-Trichloroethane	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
1,1,2,2-Tetrachloroethane	5.0	<5.0	<10	<5.0	<10	<5.0	<10	<10	<10	<5	<10	<1.2 U	<0.5	<10	<5.0	<5.0	<10	
1,1,2-Trichloroethane	1.0	<15	<30	<15	<30	<15	<30	<30	<30	<15	<30	<3.8 U	<1.5	<30	<15	<15	<30	
1,1-Dichloroethane	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
1,1-Dichloroethene	5.0	<5.0	<10	<5.0	<10	<5.0	<10	<10	<10	<5	<10	1.7	<0.50	<10	<5.0	<5.0	<10	
1,2-Dichloroethane	0.6	8.5	15	12 J+	8.9 J	9.7	11	8.6 J	<10	4 J	8 J	7.3	<0.50	9.1 J	9.4	9.4	8 J	
cis-1,2-Dichloroethene	5.0	360	700	620	530	760	530	720	550	550	800	530	1.2 J	330	380	380	480	
trans-1,2-Dichloroethene	5.0	16 J	41 J	24 J+	26 J	26	30 J	34 J	26 J	12 J	19 J	15	<2.5	20 J	17 J	17 J	22 J	
1,2-Dichloropropane	1.0	<10	<20	<10	<20	<10	<20	<20	<20	<10	<20	<2.5 U	<1.0	<20	<10	<10	<20	
Bromochloromethane	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
Bromodichloromethane	50	<5.0	<10	<5.0	<10	<5.0	<10	<10	<10	<5	<10	<1.2 U	<0.5	<10	<5.0	<5.0	<10	
Carbon Tetrachloride	5.0	<5.0	<10	<5.0	<10	<5.0	<10	<10	<10	<5	<10	<1.2 U	<0.5	<10	<5.0	<5.0	<10	
Chloroethane	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
Chloroform	7.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
Chloromethane	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 UJ	<2.5	<50	<25	<25	<50	
cis-1,3-Dichloropropene	0.4	<5.0	<10	<5.0	<10	<5.0	<10	<10	<10	<5	<10	<1.2 U	<0.5	<10	<5.0	<5.0	<10	
Dibromochloromethane	50	<5.0	<10	<5.0	<10	<5.0	<10	<10	<10	<5	<10	<1.2 U	<0.5	<10	<5.0	<5.0	<10	
Dichlorodifluoromethane	5.0	<50	<100	<50	<100	<50	<100	<100	<100	<50	<100	<12 U	<5.0	<100	<50	<50	<100	
Freon-113	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
Methylene Chloride	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
Trichlorofluoromethane	5.0	<25	<50	<25	<50	<25	<50	<50	<50	<25	<50	<6.2 U	<2.5	<50	<25	<25	<50	
Tetrachloroethene	5.0	860	1400	520	740	580	1,100 J	910	1,100	420	650	840	2.2	1,100 J-	950	950	800 J	
Trichloroethene	5.0	1,300	2000	1,200	2,200	1,400	1,900	2,300	2,800	1,400	2,400	2,400	1.4	1,400	1,400	1400	1,700	
Vinyl chloride	2.0	<10	3.6 J	<10	<20	<10	1.6 J	2.6 J	3.4 J	3.7 J	12 J	11	<1.0	1.8 J	2.1 J	2.1 J	1.7 J	
TOTAL CVOCS		2,544.5	4,159.6	2,376.0	3,504.9	2,775.7	3,572.6	3,975.2	4,479.4	2,389.7	3,889	3,805	4.8	2,860.9	2,758.5	2,758.5	3,011.7	

Notes:

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Table 1
Summary of Groundwater Analytical 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*	OSMW-3													
Unit	µg/L	µg/L													
Sample Date		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
Chlorinated Volatile Organic Compounds:															
1,1,1-Trichloroethane	5.0	---	<80	---	<20	---	<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62
1,1,2,2-Tetrachloroethane	5.0	---	---	---	---	---	---	<10	<20	<2.5	<5.0	<0.5	<5.0	<1.0	<12
1,1,2-Trichloroethane	1.0	---	---	---	---	---	---	<30	<60	<7.5	<15	<1.5	<15	<3.0	<38
1,1-Dichloroethane	5.0	<5.0	<80	<1.0	<20	<20	<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62
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
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
cis-1,2-Dichloroethene	5.0	14	31 J	46	100	220	210	180	120 j	92	63	40	39 D	17	200
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
1,2-Dichloropropane	1.0	---	---	---	---	---	---	<20	<40	<5.0	<10	<1.0	<10	<2.0	<25
Bromochloromethane	5.0	---	---	---	---	---	---	<50	<100	<12	<25	<2.5	<25	<5.0	<62
Bromodichloromethane	50	---	---	---	---	---	---	<10	<20	<2.5	<5.0	<0.5	<5.0	<1.0	<12
Carbon Tetrachloride	5.0	---	<80	---	<20	---	<50	<10	<20	<2.5	<5.0	<0.5	<5.0	<1.0	<12
Chloroethane	5.0	---	---	---	---	---	---	<50	<100	<12	<25	<2.5	<25	<5.0	<62
Chloroform	7.0	---	<80	---	<20	---	<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62
Chloromethane	5.0	---	---	---	---	---	---	<50	<100	<12	<25	<2.5	<25	<5.0	<62
cis-1,3-Dichloropropene	0.4	---	---	---	---	---	---	<10	<20	<2.5	<5.0	<0.5	<5.0	<1.0	<12
Dibromochloromethane	50	---	---	---	---	---	---	<10	<20	<2.5	<5.0	<0.5	<5.0	<1.0	<12
Dichlorodifluoromethane	5.0	---	---	---	---	---	---	<100	<200	<25	<50	<5.0	<50	<10	<120
Freon-113	5.0	---	---	---	---	---	---	<50	<100	<12	<25	<2.5	<25	<5.0	<62
Methylene Chloride	5.0	---	<80	---	<20	---	<50	<50	<100	<12	<25	<2.5	<25	<5.0	<62
Trichlorofluoromethane	5.0	---	---	---	---	---	---	<50	<100	<12	<25	<2.5	<25	<5.0	<62
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
Trichloroethene	5.0	120	280	330 D	440	1,000	1,000	610	480 j	290	230	170 D	220 D	110	500
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
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

Notes:

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441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

Sample ID	Water Quality Standard*	OSMW-3 cont.										DUP	DUP	DUP
Unit	µg/L	µg/L										µg/L	µg/L	µg/L
Sample Date		03/28/19	12/04/19	03/09/20	11/18/20	06/17/21	11/19/21	08/31/22	05/17/23	03/21/24	12/23/24	11/05/14	11/14/17	08/31/22
Chlorinated Volatile Organic Compounds:														
1,1,1-Trichloroethane	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	<1.0	---	<6.2
1,1,2,2-Tetrachloroethane	5.0	<12	<25	<12	<10	<5	<5	<1.2	<1	<1.2	<1.2 U	---	---	<1.2
1,1,2-Trichloroethane	1.0	<38	<75	<38	<30	<15	<15	<3.8	<3	<3.8	<3.8 U	---	---	<3.8
1,1-Dichloroethane	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	<1.0	<25	<6.2
1,1-Dichloroethene	5.0	<12	<25	<12	<10	<5	<5	<1.2	0.37 J	<1.2	<1.2 U	1.4	<5.0	<1.2
1,2-Dichloroethane	0.6	3.9 J	<25	<12	4.7 J	4.8 J	5.1	6	5.1	5	2.9	3.5	4.3 J,D	6.2
cis-1,2-Dichloroethene	5.0	85	75 J	42 J+	42 J	32	33	18	16	15	16	210 D	39 D	16
trans-1,2-Dichloroethene	5.0	<62	<120	<62	<50	<25	<25	9.2	10	7.6	7.2	26	7.1 J,D	9.1
1,2-Dichloropropane	1.0	<25	<50	<25	<20	<10	<10	<2.5	<2	<2.5	<2.5 U	---	---	<2.5
Bromochloromethane	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	---	---	<6.2
Bromodichloromethane	50	<12	<25	<12	<10	<5	<5	<1.2	<1	<1.2	<1.2 U	---	---	<1.2
Carbon Tetrachloride	5.0	<12	<25	<12	<10	<5	<5	<1.2	<1	<1.2	<1.2 U	<1.0	---	<1.2
Chloroethane	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	---	---	<6.2
Chloroform	7.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	<1.0	---	<6.2
Chloromethane	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	---	---	<6.2
cis-1,3-Dichloropropene	0.4	<12	<25	<12	<10	<5	<5	<1.2	<1	<1.2	<1.2 U	---	---	<1.2
Dibromochloromethane	50	<12	<25	<12	<10	<5	<5	<1.2	<1	<1.2	<1.2 U	---	---	<1.2
Dichlorodifluoromethane	5.0	<120	<250	<120	<100	<50	<50	<12	<10	<12	<12 U	---	---	<12
Freon-113	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	---	---	<6.2
Methylene Chloride	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	<1.0	---	<6.2
Trichlorofluoromethane	5.0	<62	<120	<62	<50	<25	<25	<6.2	<5	<6.2	<6.2 U	---	---	<6.2
Tetrachloroethene	5.0	2,900	4,900	2,300	2,200	1,300	1,200	320	170	330	360	2,900 D	760 D	290
Trichloroethene	5.0	450	440	340	290	190	200	76	55	79	81	900 D	220 D	68
Vinyl chloride	2.0	<25	<50	<25	<20	<10	<10	<2.5	<2	<2.5	<2.5 U	<1.0	<10	<2.5
TOTAL CVOCS		3,438.9	5,415.0	2,682.0	2,536.7	1,526.8	1,438.1	429.2	256.5	436.6	467.1	4,041	1,030	389

Notes:

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Table 1
Summary of Groundwater Analytical 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*	OSMW-4													
Unit	µg/L	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
Chlorinated Volatile Organic Compounds:															
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
1,1,2,2-Tetrachloroethane	5.0	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5
1,1,2-Trichloroethane	1.0	---	---	---	---	---	---	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3.0	<1.5
1,1-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
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
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
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
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
1,2-Dichloropropane	1.0	---	---	---	---	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Bromochloromethane	5.0	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5
Bromodichloromethane	50	---	---	---	---	---	---	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<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
Chloroethane	5.0	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<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
Chloromethane	5.0	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5
cis-1,3-Dichloropropene	0.4	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5
Dibromochloromethane	50	---	---	---	---	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5
Dichlorodifluoromethane	5.0	---	---	---	---	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0
Freon-113	5.0	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<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
Trichlorofluoromethane	5.0	---	---	---	---	---	---	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<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
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
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
TOTAL CVOs		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

Notes:

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Table 1
Summary of Groundwater Analytical 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*	OSMW-4 cont.					DUP	DUP	DUP	DUP
Unit	µg/L	µg/L					µg/L	µg/L	µg/L	µg/L
Sample Date		03/27/19	12/04/19	03/09/20	11/18/20	06/17/21	01/10/12	09/24/14	06/24/15	05/12/16
Chlorinated Volatile Organic Compounds:										
1,1,1-Trichloroethane	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	<1.0	<2.5	<2.5
1,1,2,2-Tetrachloroethane	5.0	<0.5	<0.5	<0.5	0.5 U	<0.5	---	---	<0.5	<0.5
1,1,2-Trichloroethane	1.0	<1.5	<1.5	<1.5	1.5 U	<1.5	---	---	<1.5	<1.5
1,1-Dichloroethane	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	<5.0	<1.0	<2.5	<2.5
1,1-Dichloroethene	5.0	<0.5	<0.5	<0.5	0.5 U	<0.5	<5.0	<1.0	<0.50	<0.50
1,2-Dichloroethane	0.6	<0.5	<0.5	<0.5	0.5 U	<0.5	1.1 J	<1.0	<0.50	<0.50
cis-1,2-Dichloroethene	5.0	0.72 J	<2.5	<2.5	2.5 U	<2.5	29	5.2	1.2 J	<2.5
trans-1,2-Dichloroethene	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	7.2	<1.0	<2.5	<2.5
1,2-Dichloropropane	1.0	<1	<1	<1	1 U	<1	---	---	<1.0	<1.0
Bromochloromethane	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	---	<2.5	<2.5
Bromodichloromethane	50	<0.5	<0.5	<0.5	0.5 U	<0.5	---	---	<0.5	<0.5
Carbon Tetrachloride	5.0	<0.5	<0.5	<0.5	0.5 U	<0.5	---	<1.0	<0.5	<0.5
Chloroethane	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	---	<2.5	<2.5
Chloroform	7.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	<1.0	<2.5	<2.5
Chloromethane	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	---	<2.5	<2.5
cis-1,3-Dichloropropene	0.4	<0.5	<0.5	<0.5	0.5 U	<0.5	---	---	<0.5	<0.5
Dibromochloromethane	50	<0.5	<0.5	<0.5	0.5 U	<0.5	---	---	<0.5	<0.5
Dichlorodifluoromethane	5.0	<5	<5	<5	5 U	<5	---	---	<5.0	<5.0
Freon-113	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	---	<2.5	<2.5
Methylene Chloride	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	<1.0	<2.5	<2.5
Trichlorofluoromethane	5.0	<2.5	<2.5	<2.5	2.5 U	<2.5	---	---	<2.5	<2.5
Tetrachloroethene	5.0	<0.5	<0.5	<0.5	0.5 U	<0.5	730 D	3.4	0.48 J	0.19 J,j
Trichloroethene	5.0	<0.5	<0.5	<0.5	0.39 J	<0.5	220 D	5.5	1.1	0.58
Vinyl chloride	2.0	<1	<1	<1	1 U	<1	<5.0	<1.0	<1.0 j	<1.0
TOTAL CVOCs		0.72	ND	ND	0.39	ND	987	14.1	2.78	0.77

Notes:

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441 and 442 Waverly Avenue
Chlorinated Volatile Organic Compounds
Site #C360108

Sample ID	Water Quality Standard*	OSMW-1		OSMW-2		DUP
Unit	µg/L	µg/L		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	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	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:

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Laboratory Qualifiers:

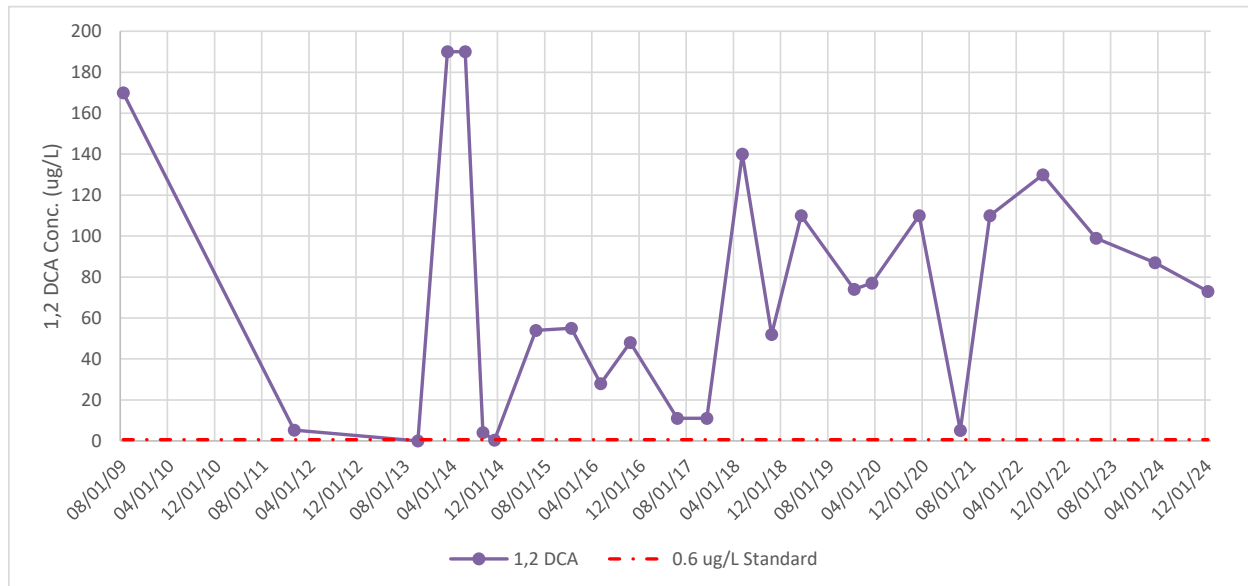
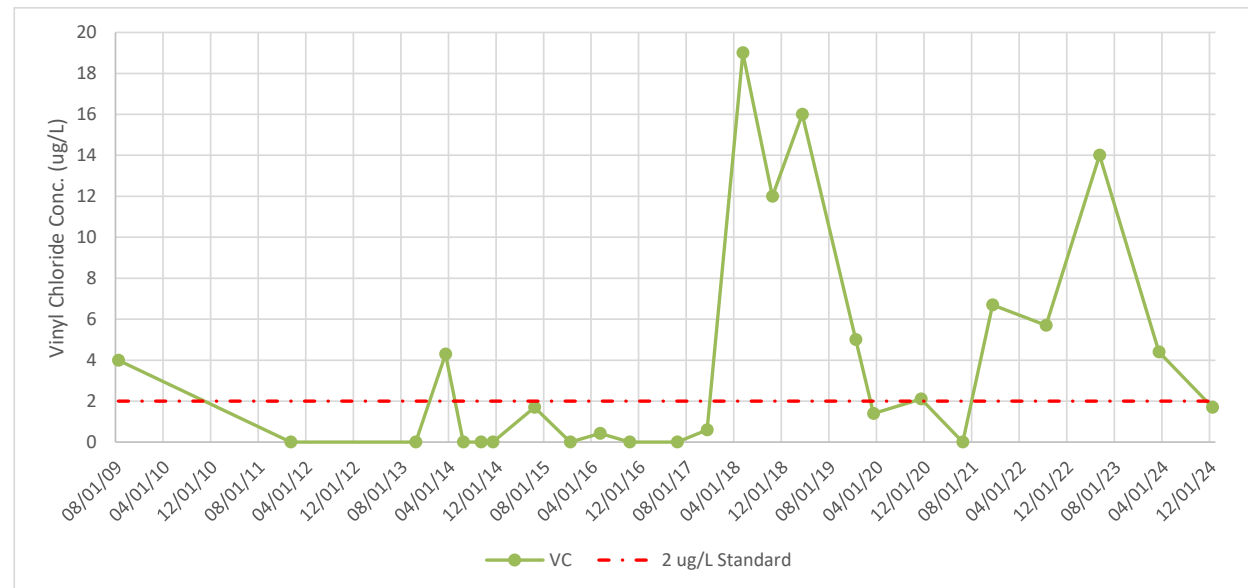
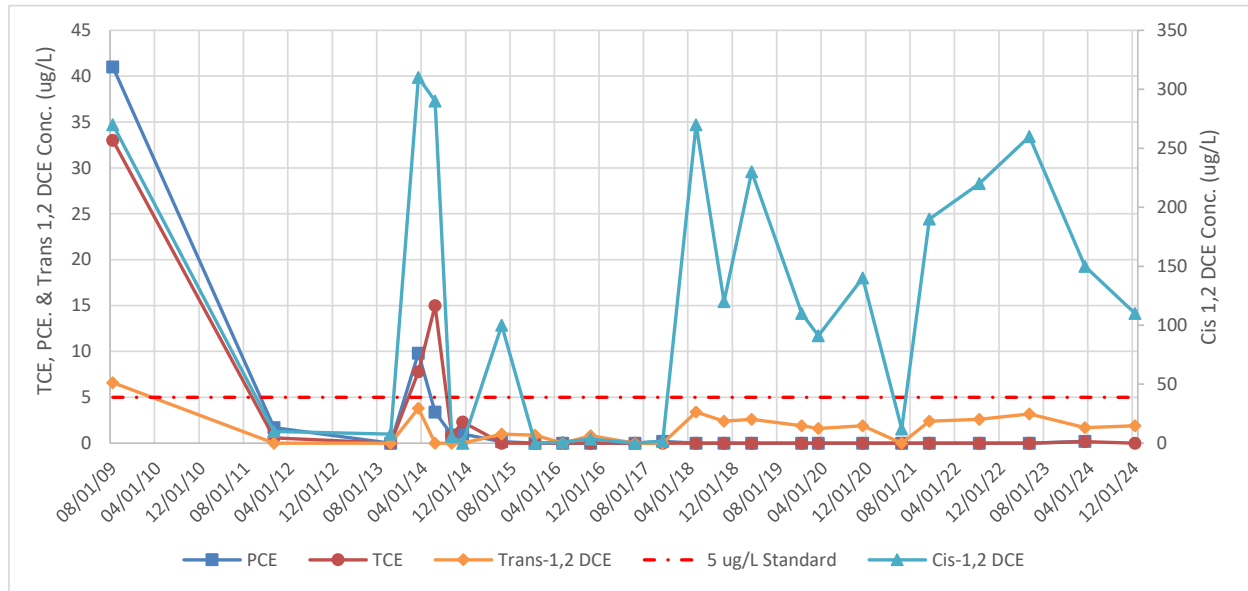
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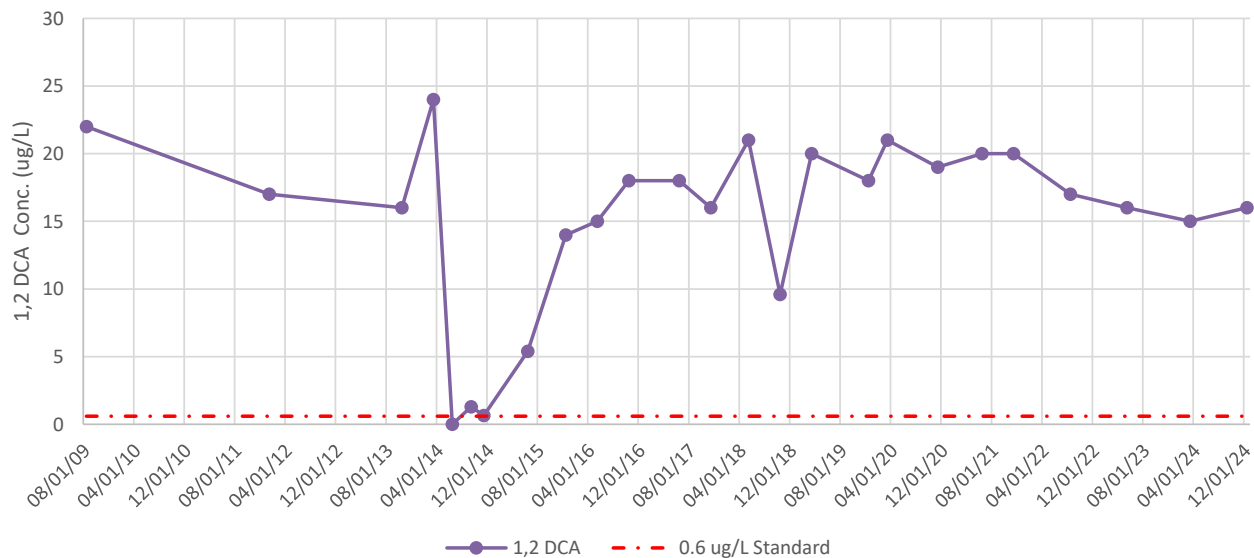
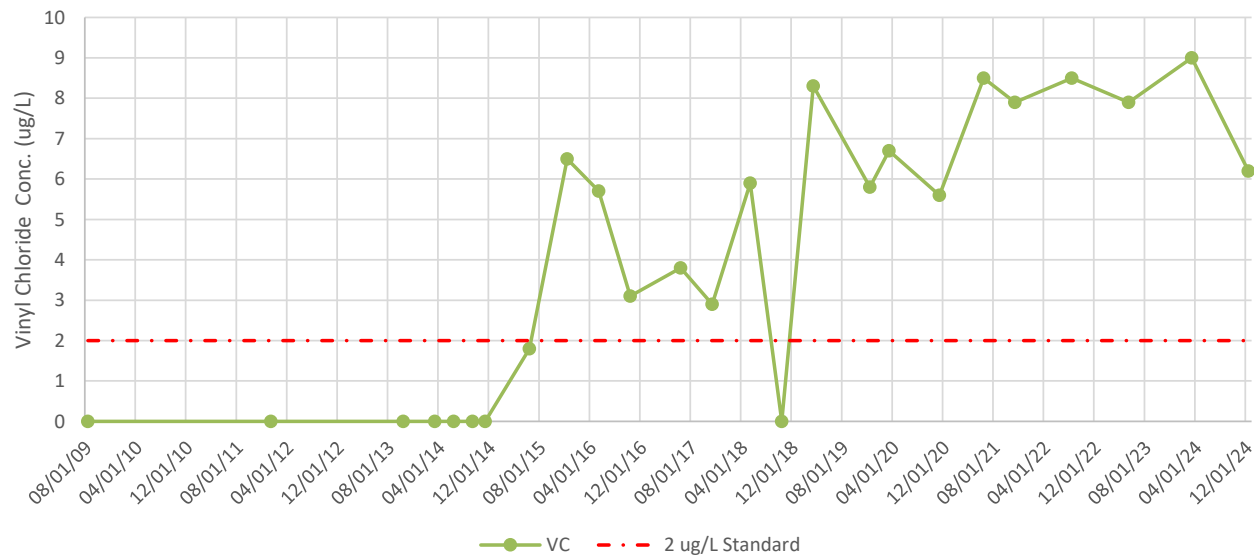
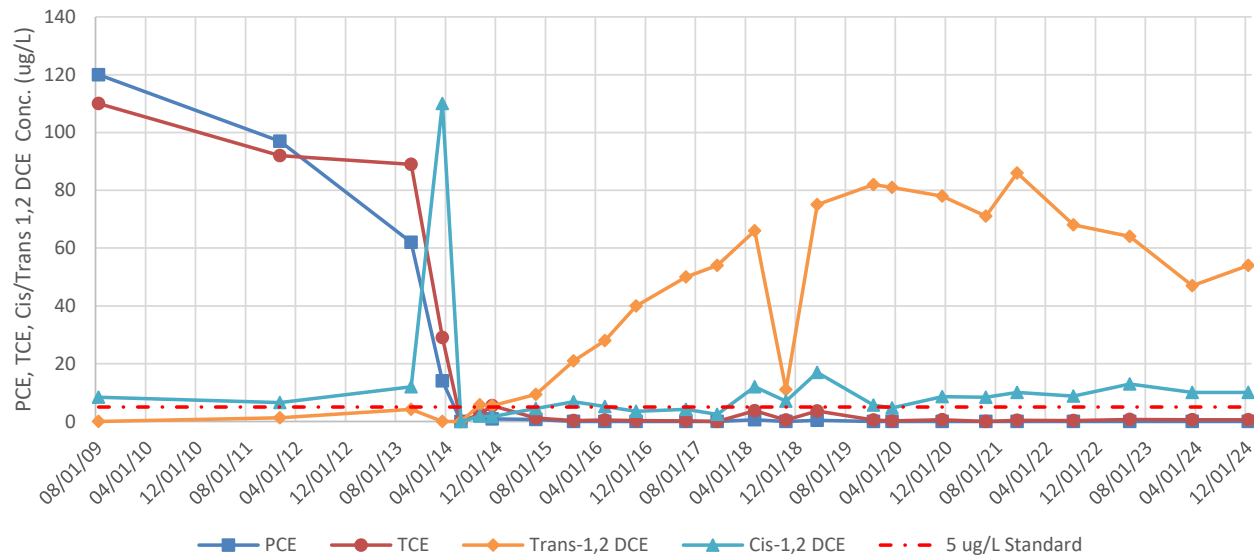
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DATA TREND GRAPHS

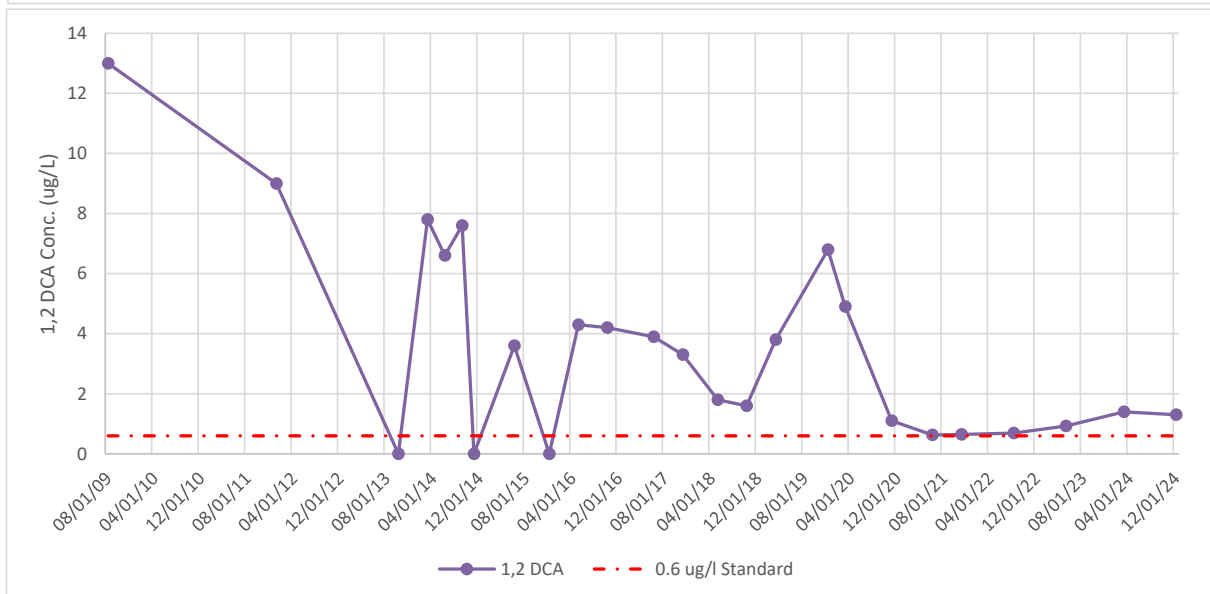
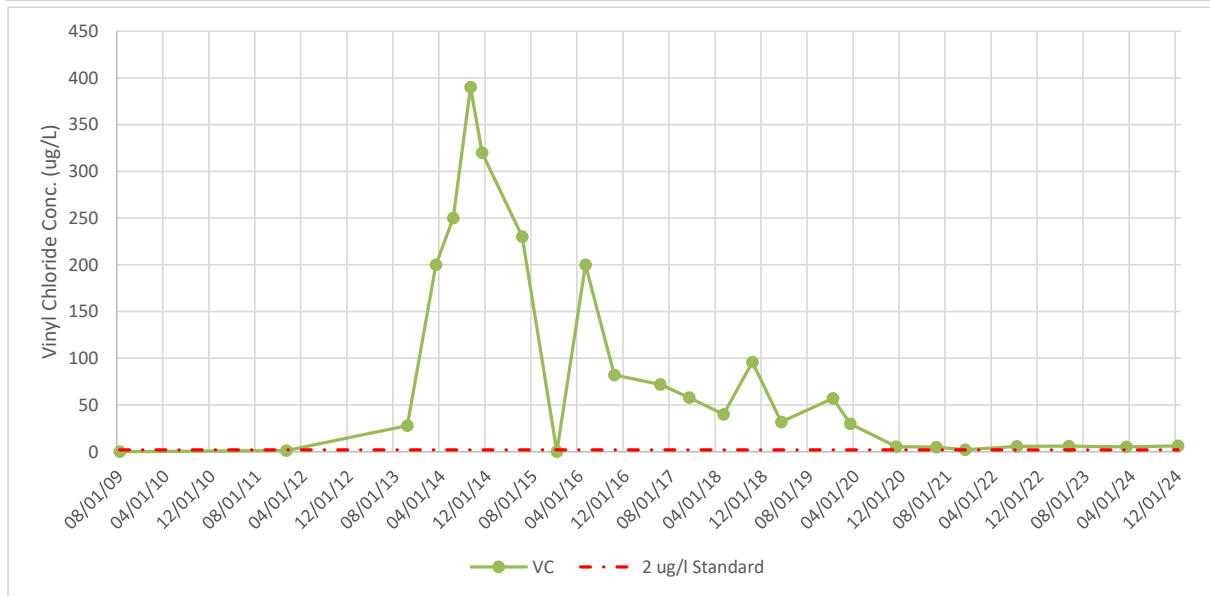
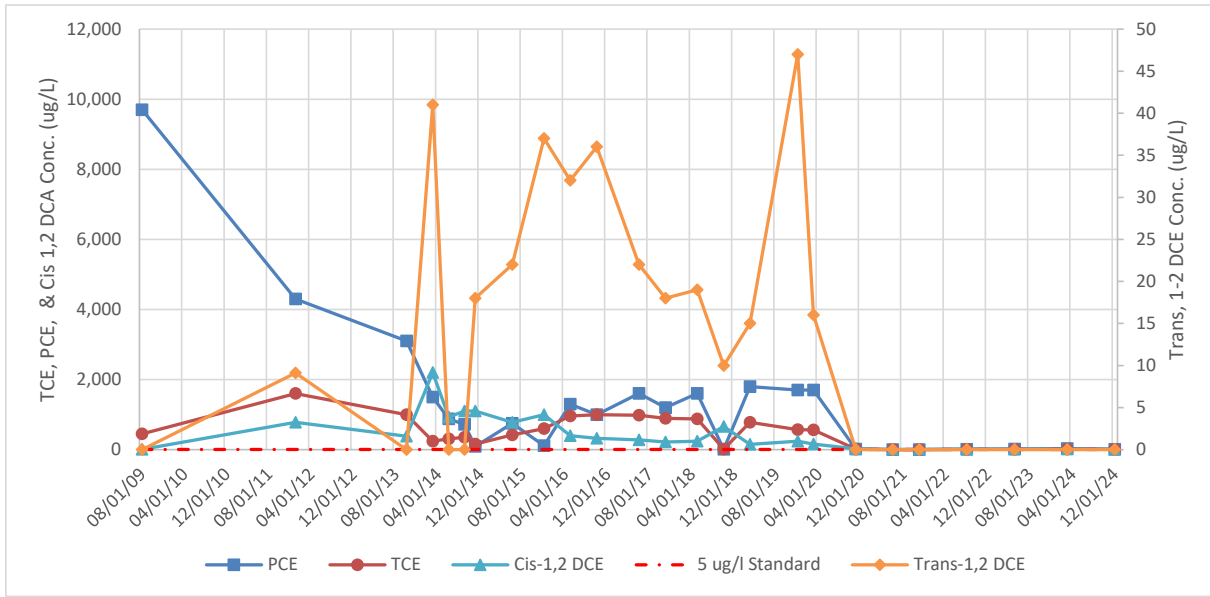
**Groundwater Quality Trends
Monitoring Well GZ-21D
441 and 442 Waverly Avenue**



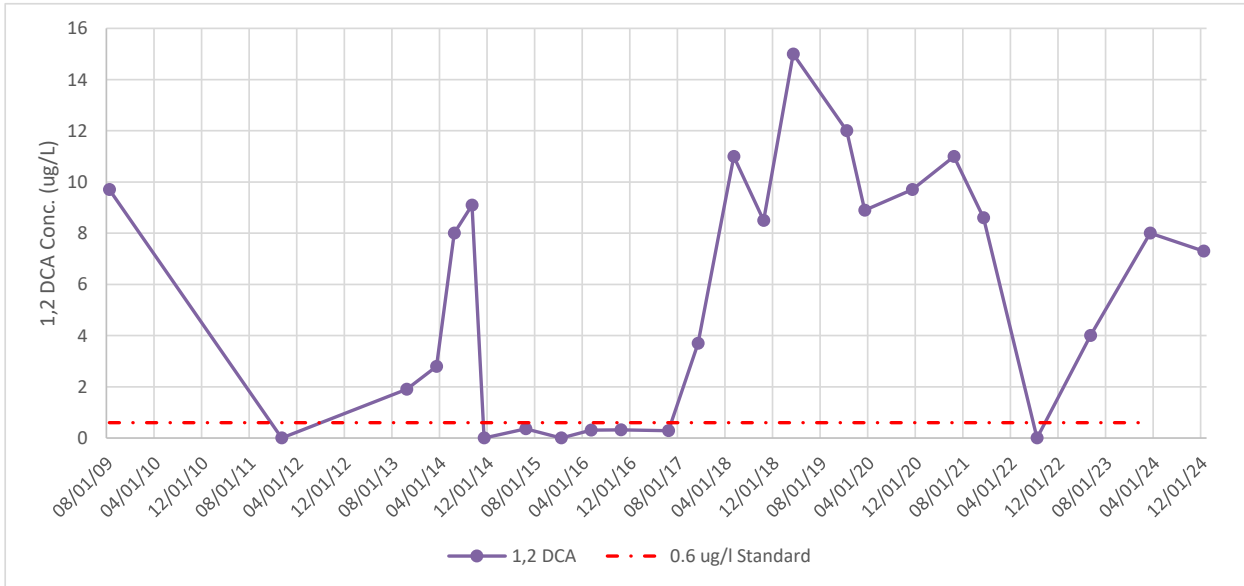
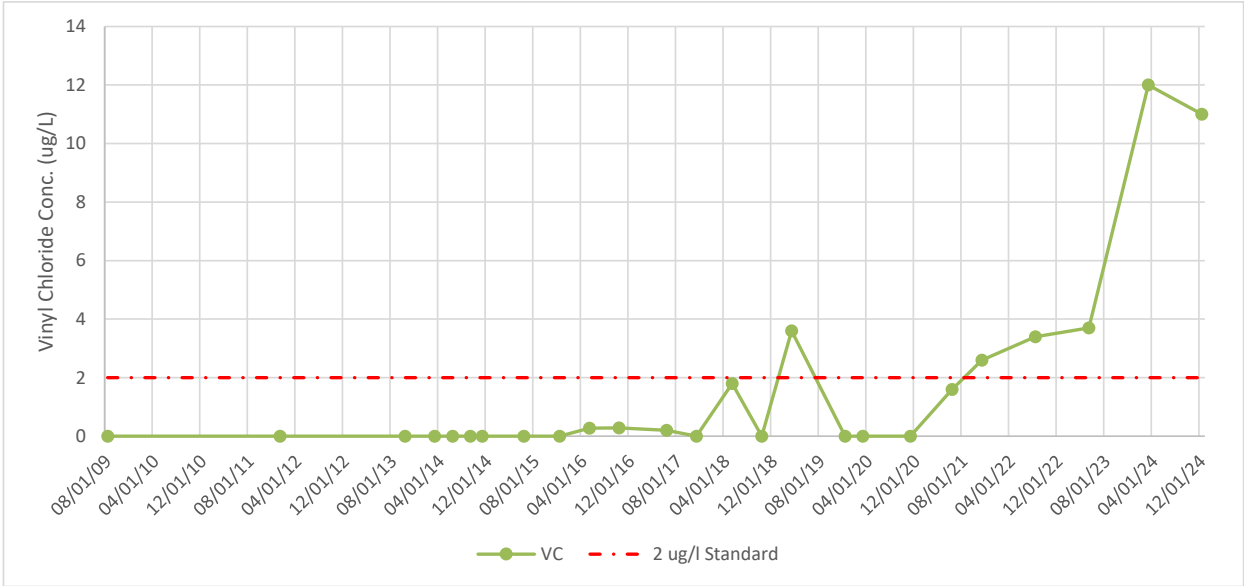
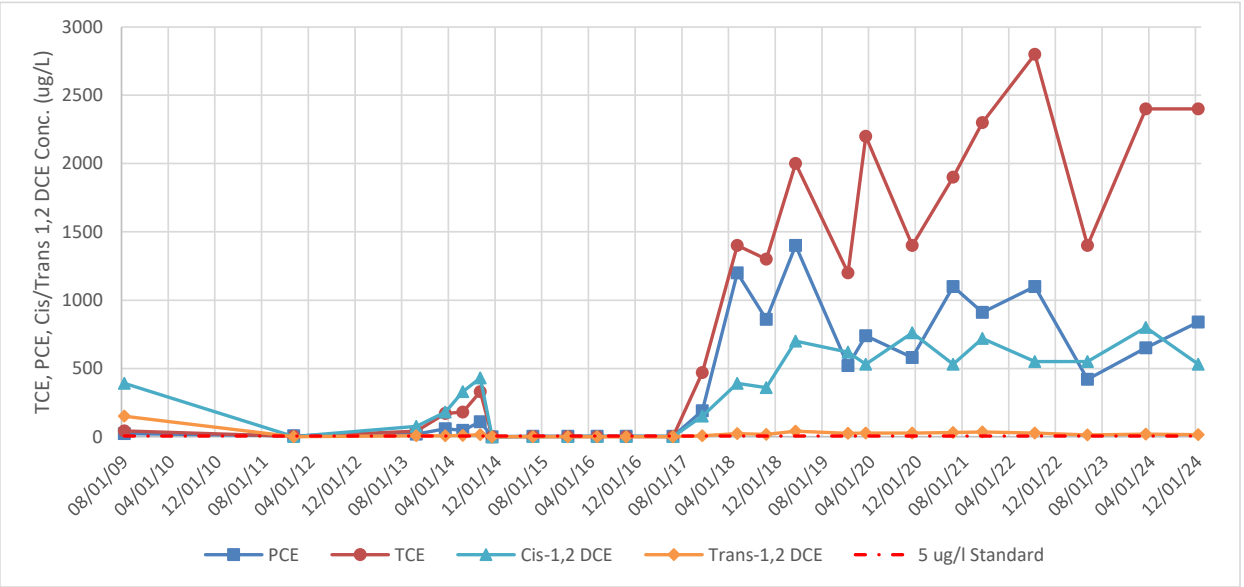
Groundwater Quality Trends
Monitoring Well GZ-22D
441 and 442 Waverly Avenue



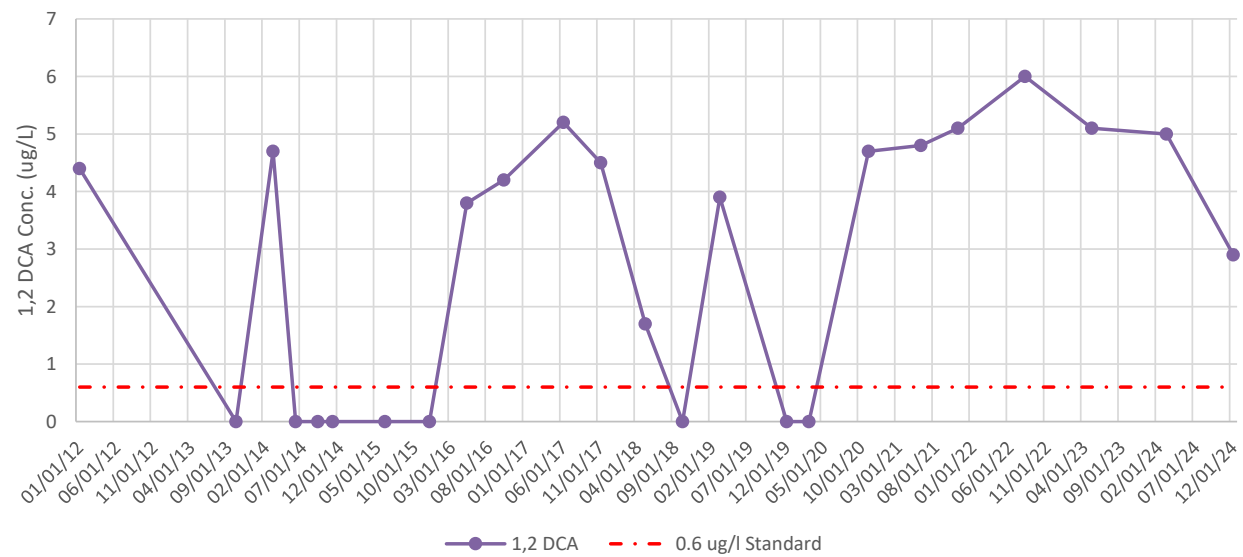
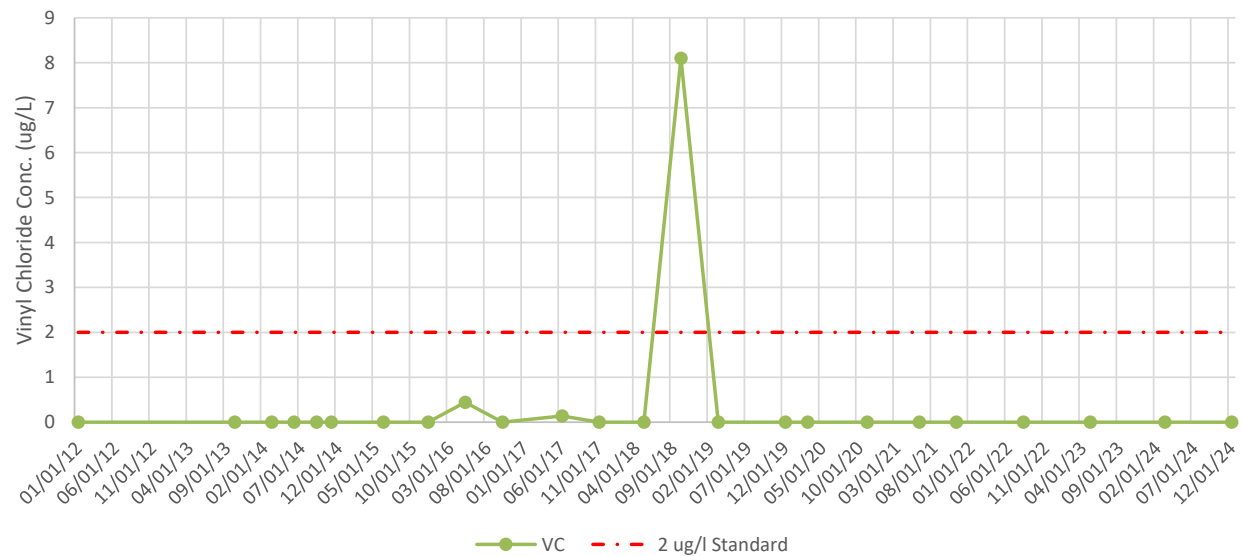
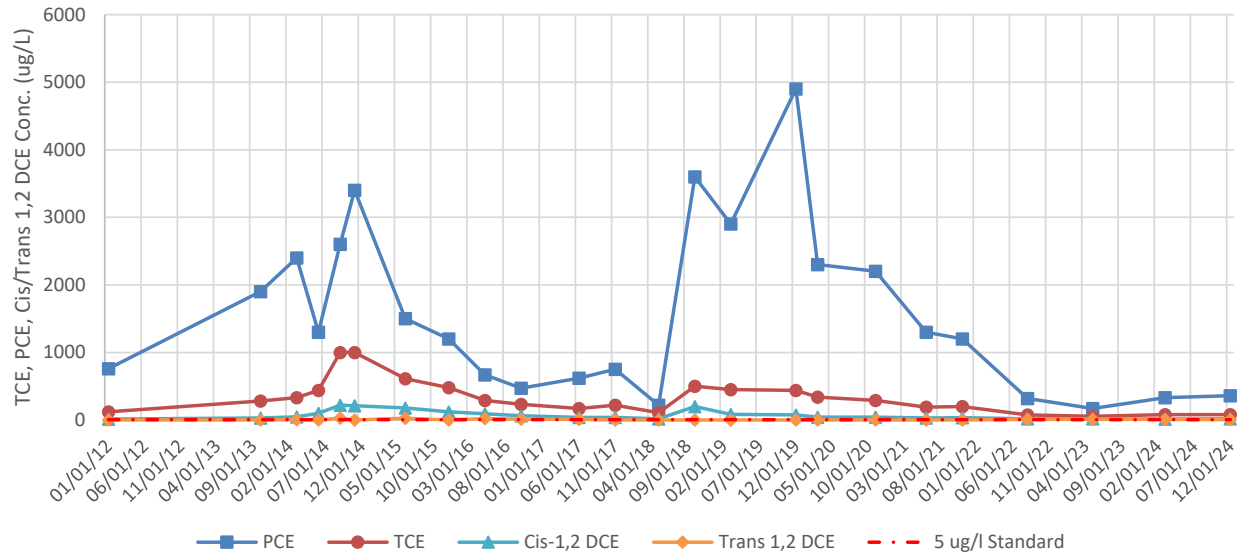
Groundwater Quality Trends
Monitoring Well GZ-23D
441 and 442 Waverly Avenue



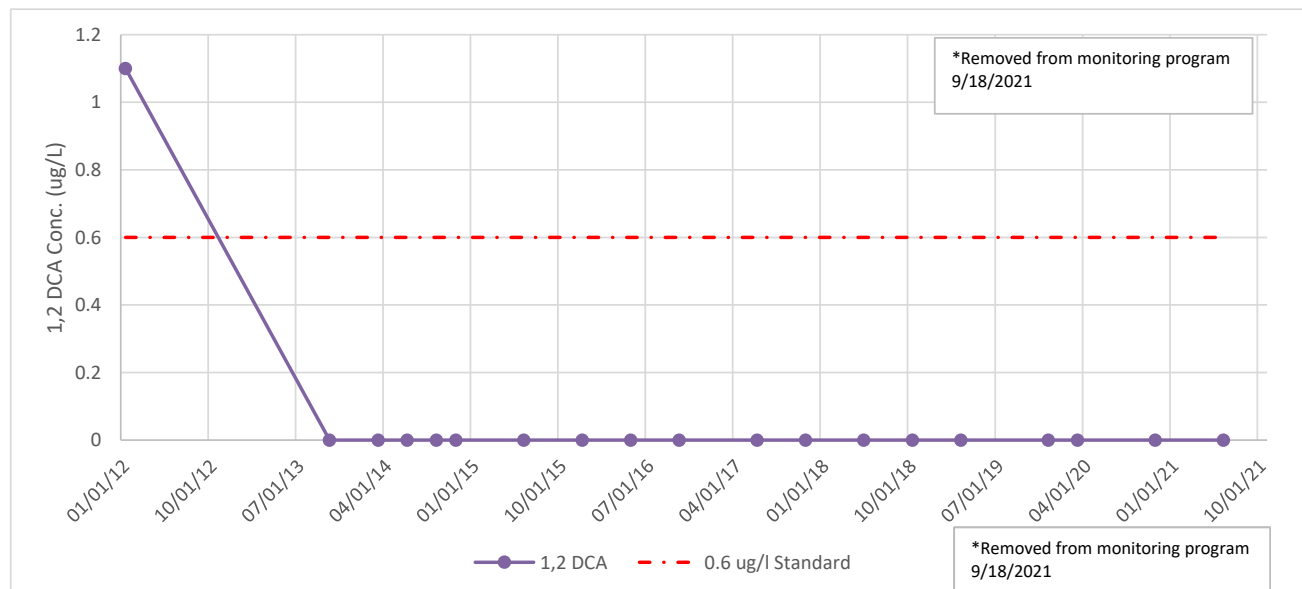
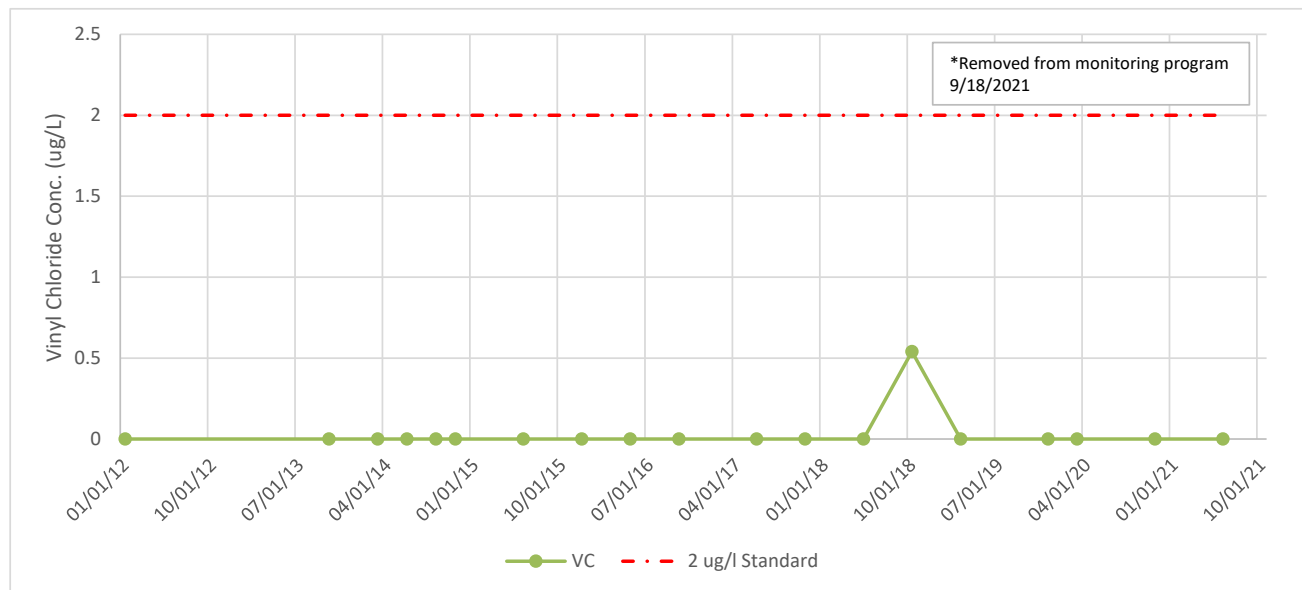
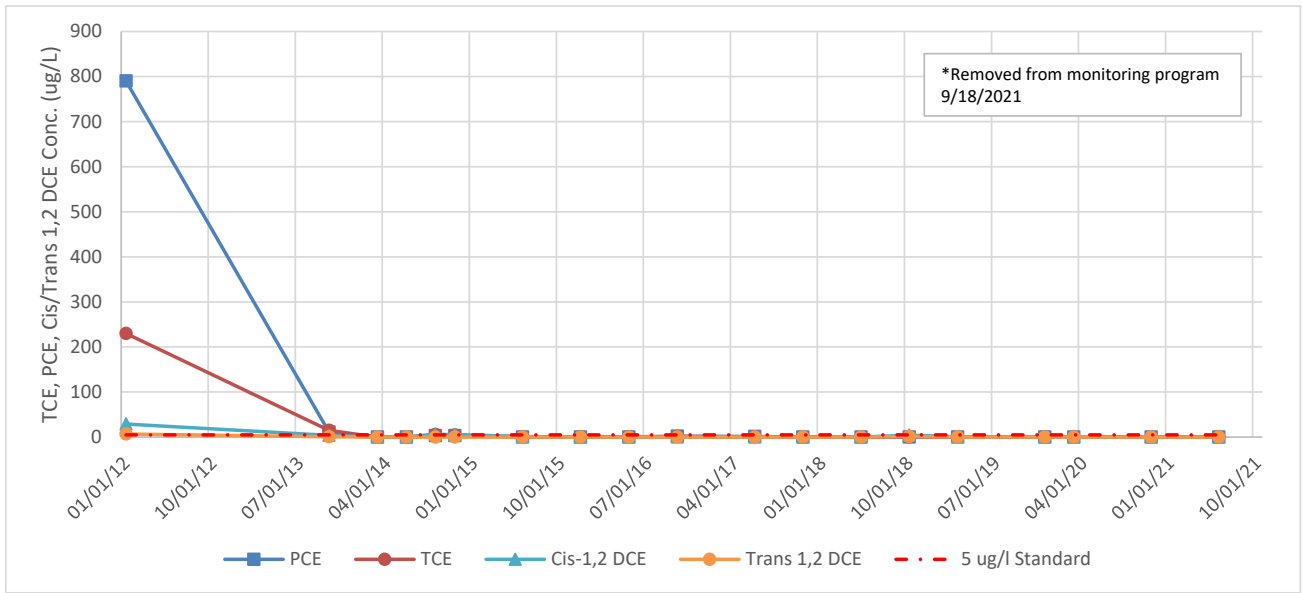
Groundwater Quality Trends
Monitoring Well B6-OWD
441 and 442 Waverly Avenue



**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: 12-23-2024

Location: Mamaroneck, NY

Personnel: PWS- Paul Schuler

Weather:

25° F Sunny

Work Description:

1015 - PWS onsite, check water levels in offsite wells
 1100 - Set up at GZ-22D (Low flow bladder)
 1120 - Collect GZ-22D sample for VOCs; Decon
 Equipment; Relocate to GZ-21D
 1220 - Collect GZ-22D sample for VOCs, GZ-22D MS
 @ 1225 and GZ-22D MSD at 1230. DUP 12232024
 additionally collected at GZ-22D Decon equipment.
 1325 - Collected GZ-23D sample for VOCs, decon,
 relocate to OSMW-3
 1410 - Sample OSMW-3. Perform cover inspection
 of 442 Waverly Ave.
 1425 - Set up at B6-OWD; Perform cover inspection
 of 441 Waverly including onsite building. cover
 system in acceptable condition. Minor cracks
 in concrete and asphalt. Generally the same as
 prior event.
 1505 - Sample B6-OWD, clean up site and
 equipment
 1535 - PWS offsite

Signature:



24 Wade Road
Latham, N.Y. 12110

Project Name:

Project No. 28012

Location Mamaroneck, NY

Weather: 25°C F Sunny

Field Personnel: PWS

Measuring Device: Depth to Water Meter

[illegible]

SITE-WIDE INSPECTION FORM
SITE #C360108
441/442 WAVERLY AVENUE

Date: 12/23/2024
 Inspected By: Paul Scholer

Site Property Item	Condition		Remarks
	Acceptable	Not Acceptable	
1. Asphalt Cover	✓		Same, minor cracks
2. Light Pole Islands / Soil Cover	✓		Good
3. Stormwater Catch Basins	✓		Good
4. Entrance/Exit Ramps	✓		Good
5. Retaining Walls	✓		Good
6. Fences and Gates	✓		Good, minor damages.

441/442 WAVERLY AVENUE, MAMARONECK, NEW YORK
SITE #C360108

ASPHALT AND SOIL COVER SYSTEM INSPECTION FORM

Inspector: Paul Schuler Date: 12/23/2024

1. Describe cover system condition and list needed repairs (note location and photograph*).

a. Asphalt – Inspect for cracks, potholes, and other penetrations:

Good minor cracks, no change

b. Curbed lighting areas, retaining walls, and other miscellaneous areas – Inspect for signs of erosion

Good, NO Issues

2. Indicate corrective actions to be taken for any and all above noted deficiencies. Note who completed the repair and date completed:

None continue to monitor protective asphalt and concrete
cover system.

*Attach photographs for cover systems inspection to this report with a description of each photograph taken and date.

NA

NA

PURGING/SAMPLING DATA SHEETS



Sterling Environmental Engineering, P.C.

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 12-23-2024
 Sampling Personnel: PWS
 Sampling Device: Bladder Pump
 Static Water Level: 8.84
 Measuring Point: Top of PVC
 Total Volume Purged: 5L

Well No.: GZ-22D
 Sample Time: 1120
 Well Depth: 46.0'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: Steel
 Tubing Type: 1/4" HDPE
 Other Info: NA

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%)
1100	0.200	8.48	NA	7.25	14.1	0.882	-119.0	1.29	8.14
1105	↓	8.48	0.00	7.25	14.1	0.874	-123.0	1.30	4.84
1110	↓	8.48	0.00	7.24	14.2	0.861	-133.1	1.16	8.78
1115	↓	8.48	0.00	7.24	14.5	0.861	-134.7	1.11	9.73
1120	↓	8.48	0.00	7.24	14.3	0.849	-135.3	1.08	11.21

Notes: Clear, No Odor, No Slack

Types of Samples Collected: Vol's

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., $Vol_{cyl} = \pi r^2 h$, 1 ft³ = 7.48 gal./28.31L

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 12/23/2024
 Sampling Personnel: PWS
 Sampling Device: Bladder Pump
 Static Water Level: 8.31
 Measuring Point: Top of PVC
 Total Volume Purged: 5L

Well No.: GZ-21D
 Sample Time: 1220
 Well Depth: 44.21'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: Steel
 Tubing Type: 1/4 HDPE
 Other Info: DUP, MS, MSD e GZ-21D

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%)
1200	0.200	8.31	NA	6.88	15.5	1.288	244.9	7.92	14.45
1205	↓	8.32	0.01	6.93	15.6	1.590	237.3	7.08	15.16
1210	↓	8.33	0.01	7.06	15.4	1.782	227.9	3.45	8.40
1215	↓	8.33	0.00	7.07	15.3	1.833	226.0	2.78	10.46
1220	↓	8.33	0.00	7.07	15.3	1.854	224.6	2.51	9.86

Notes: Clear, sulfur odor, No sheen

Types of Samples Collected: VOCs

DUP 12230024
 GZ-21D MS e 1225
 GZ-21D MSD e 1230

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

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 12/23/2024
 Sampling Personnel: PWS
 Sampling Device: Waterra
 Static Water Level: 10.28
 Measuring Point: Top of PVC
 Total Volume Purged: 6L

Well No.: GZ-23D
 Sample Time: 1325
 Well Depth: 44.86'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: Steel
 Tubing Type: 1/4" 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%)
1300	0.200	10.28	NA	6.75	18.3	0.796	41.0	7.96	417.79
1305	↓	10.31	0.03	6.58	18.2	0.545	-18.5	6.58	111.74
1310	↓	10.32	0.01	6.55	15.8	0.542	-34.4	6.15	38.61
1315	↓	10.34	0.01	6.55	15.8	0.542	-33.4	5.03	43.89
1320	↓	10.35	0.01	6.55	15.7	0.542	-34.0	5.00	29.32
1325	↓	10.35	0.00	6.55	15.8	0.542	-34.5	4.98	30.42

Notes: Clear, Sweet odor, No sheen

Types of Samples Collected: VOCs

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., $Vol_{cyl} = \pi r^2 h$, 1 ft³ = 7.48 gal./28.31L

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 12/23/2024
 Sampling Personnel: RWS
 Sampling Device: Peristaltic Pump
 Static Water Level: 9.27
 Measuring Point: Top of PVC
 Total Volume Purged: 6L

Well No.: OSMW-3
 Sample Time: 1410
 Well Depth: 39.40'
 Well Diameter: 1"
 Screen Length: NA
 Casing Type: Steel
 Tubing Type: 1/4" HDPE
 Other Info: N/A

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%)
1345	0.200	9.35	NA	6.89	14.8	0.871	-15.38	7.56	29.15
1350	↓	9.40	0.05	6.96	15.4	0.909	-15.80	4.80	3.46
1355	↓	9.41	0.01	6.99	15.4	0.908	-23.4	2.82	4.20
1400	↓	9.40	-0.01	7.02	15.4	0.918	-25.9	2.25	3.08
1405	↓	9.40	0.00	7.02	15.4	0.922	-27.8	2.00	3.21
1410	↓	9.40	0.00	7.02	15.4	0.924	-28.1	1.99	3.14

Notes: Clear, No odor, no swan

Types of Samples Collected:

VOCs

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., $Vol_{cyl} = \pi r^2 h$, 1 ft³ = 7.48 gal./28.31L

Well Sampling Data Sheet

Project: 441 & 442 Waverly Avenue
 Site: Mamaroneck, NY
 Date: 12/23/2024
 Sampling Personnel: JWS
 Sampling Device: Peristaltic Pump
 Static Water Level: 8.89
 Measuring Point: Top of PVC
 Total Volume Purged: 8L

Well No.: B6-OWD
 Sample Time: 1505
 Well Depth: 36.05'
 Well Diameter: 2"
 Screen Length: 5'
 Casing Type: PVC
 Tubing Type: 1/4" HOPE
 Other Info: N/A

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	8.89	N/A	7.11	15.0	1.254	-1.8	4.72	17.83
1435		8.91	0.01	7.04	15.8	1.459	21.8	3.98	110.89
1440		8.92	0.01	7.07	15.7	1.608	68.7	3.07	11.84
1445		8.93	0.01	7.14	15.5	1.693	-58.1	2.67	28.61
1450		8.93	0.00	7.23	15.6	1.752	-68.9	1.90	26.32
1455		8.93	0.00	7.23	15.5	1.768	-82.6	1.63	30.54
1500		8.92	-0.01	7.23	15.4	1.767	-84.6	1.57	21.86
1505	↓	8.93	0.01	7.22	15.4	1.766	-85.9	1.52	22.72

Notes: Clear, No Odor, No Seen

Types of Samples Collected: VOCs

Information: 2 in. = 617 ml/ft., 4 in. = 2,470 ml/ft., $Vol_{cyl} = \pi r^2 h$, 1 ft³ = 7.48 gal./28.31L

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



Geology

Hydrology

Remediation

Water Supply

January 24, 2025

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
December 2024 Ground Water Samples

Dear Mr. Scholar:

The data usability summary report (DUSR) and QA/QC review are attached to this letter for the 441 and 442 Waverly Avenue project sampling event. The data for Alpha Analytical, SDG number: L2475849 are mostly acceptable with some issues identified and discussed in the DUSR and validation summaries. There are data that are qualified as rejected, unusable (R) in the data pack. 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

z:\projects\2009\09600 - 09620\09619-waverly ave\temp-review\waverly ave-251.ltr.docx

Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlorophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

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.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



**Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L2475849**

**5 Ground Water Samples, 1 Field Duplicate,
and 1 Trip Blank
Collected December 23, 2024**

Prepared by: Donald Anné
January 24, 2025

Geology
Hydrology
Remediation
Water Supply

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 5 ground water samples, 1 field duplicate, and 1 trip blank.

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

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

- The positive volatile result for 1,2-dichloroethane was qualified as “estimated” (J) for sample OSMW-3 because %D for 1,2-dichloroethane was above the allowable maximum in the associated continuing calibration verification sample.
- The volatile result for tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene in sample B6-OWD were quantitated using data that was extrapolated beyond the highest calibration standard and flagged “E” by the laboratory. The results for tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene marked “E” in the undiluted sample were qualified as estimated (J).
- The “not detected” volatile results for chloromethane were qualified as “estimated” (UJ) for samples GZ-22D, GZ-23D, B6-OWD, DUP12232024, and TB12232024 because 1 of 2 percent recoveries for chloromethane was below QC limits, but not below 30% in the associated aqueous LCS/LCSD.
- The “not detected” volatile results for chloromethane and dichlorodifluoromethane were qualified as “estimated” (UJ) for sample GZ-21D because 2 of 2 percent recoveries for chloromethane and dichlorodifluoromethane were below QC limits, but not below 30% in the aqueous MS/MSD sample.

DUSR

Lab Number: L2475849

- The “not detected” volatile result for 1,4-dioxane was qualified as rejected, unusable (R) for sample OSMW-3 because the RRF for 1,4-dioxane was below the allowable minimum in the associated continuing calibration verification sample.

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

Qualified Data Section

Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Lab ID : L2475849-01
 Client ID : GZ-21D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A12
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 12:20
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 13:07
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 GC Column : RTX-502.2
 %Solids : 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	73	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	0.37	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 UJ
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	1.7	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
 Project Name : WAVERLY
 Lab ID : L2475849-01
 Client ID : GZ-21D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A12
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 12:20
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 13:07
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 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	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	0.56	2.5	0.17	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	110	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U JJ
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	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Lab ID	: L2475849-01	Date Collected	: 12/23/24 12:20
Client ID	: GZ-21D	Date Received	: 12/23/24
Sample Location	: MAMARONECK, NY	Date Analyzed	: 12/28/24 13:07
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: VG241228A12	Instrument ID	: GONZO
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
 Project Name : WAVERLY
 Lab ID : L2475849-02
 Client ID : GZ-22D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A11
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 11:20
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 12:42
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 GC Column : RTX-502.2
 %Solids : 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	16	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	2.8	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 UJ
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	6.2	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
 Project Name : WAVERLY
 Lab ID : L2475849-02
 Client ID : GZ-22D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A11
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 11:20
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 12:42
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 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	54	2.5	0.70	
79-01-6	Trichloroethene	0.57	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	0.60	2.5	0.17	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	10	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	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Lab ID	: L2475849-02	Date Collected	: 12/23/24 11:20
Client ID	: GZ-22D	Date Received	: 12/23/24
Sample Location	: MAMARONECK, NY	Date Analyzed	: 12/28/24 12:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: VG241228A11	Instrument ID	: GONZO
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	1.2	10	0.40	J



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Lab ID : L2475849-03
 Client ID : GZ-23D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A14
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 13:25
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 13:55
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 GC Column : RTX-502.2
 %Solids : 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	9.5	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	1.3	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	10	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 UJ
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	6.4	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
 Project Name : WAVERLY
 Lab ID : L2475849-03
 Client ID : GZ-23D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A14
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 13:25
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 13:55
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 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	2.5	0.70	U
79-01-6	Trichloroethene	8.2	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	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	2.6	2.5	0.70	
156-59-2	cis-1,2-Dichloroethene	12	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	0.46	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
 Project Name : WAVERLY
 Lab ID : L2475849-03
 Client ID : GZ-23D
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A14
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 13:25
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 13:55
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 GC Column : RTX-502.2
 %Solids : 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
 Project Name : WAVERLY
 Lab ID : L2475849-04D
 Client ID : B6-OWD
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A16
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 15:05
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 14:43
 Dilution Factor : 2.5
 Analyst : PID
 Instrument ID : GONZO
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.2	1.8	U
75-34-3	1,1-Dichloroethane	ND	6.2	1.8	U
67-66-3	Chloroform	ND	6.2	1.8	U
56-23-5	Carbon tetrachloride	ND	1.2	0.34	U
78-87-5	1,2-Dichloropropane	ND	2.5	0.34	U
124-48-1	Dibromochloromethane	ND	1.2	0.37	U
79-00-5	1,1,2-Trichloroethane	ND	3.8	1.2	U
127-18-4	Tetrachloroethene	910	1.2	0.45	E J
108-90-7	Chlorobenzene	ND	6.2	1.8	U
75-69-4	Trichlorofluoromethane	ND	6.2	1.8	U
107-06-2	1,2-Dichloroethane	7.3	1.2	0.33	
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.8	U
75-27-4	Bromodichloromethane	ND	1.2	0.48	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.36	U
75-25-2	Bromoform	ND	5.0	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.42	U
71-43-2	Benzene	7.0	1.2	0.40	
108-88-3	Toluene	ND	6.2	1.8	U
100-41-4	Ethylbenzene	ND	6.2	1.8	U
74-87-3	Chloromethane	ND	6.2	1.8	U UJ
74-83-9	Bromomethane	ND	6.2	1.8	U
75-01-4	Vinyl chloride	11	2.5	0.18	
75-00-3	Chloroethane	ND	6.2	1.8	U
75-35-4	1,1-Dichloroethene	1.7	1.2	0.42	



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Lab ID : L2475849-04D
 Client ID : B6-OWD
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A16
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 15:05
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 14:43
 Dilution Factor : 2.5
 Analyst : PID
 Instrument ID : GONZO
 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	15	6.2	1.8		
79-01-6	Trichloroethene	2800	1.2	0.44	E	J
95-50-1	1,2-Dichlorobenzene	ND	6.2	1.8	U	
541-73-1	1,3-Dichlorobenzene	ND	6.2	1.8	U	
106-46-7	1,4-Dichlorobenzene	ND	6.2	1.8	U	
1634-04-4	Methyl tert butyl ether	ND	6.2	0.42	U	
179601-23-1	p/m-Xylene	ND	6.2	1.8	U	
95-47-6	o-Xylene	ND	6.2	1.8	U	
156-59-2	cis-1,2-Dichloroethene	550	6.2	1.8	E	J
100-42-5	Styrene	ND	6.2	1.8	U	
75-71-8	Dichlorodifluoromethane	ND	12	2.5	U	
67-64-1	Acetone	ND	12	3.6	U	
75-15-0	Carbon disulfide	ND	12	2.5	U	
78-93-3	2-Butanone	ND	12	4.8	U	
108-10-1	4-Methyl-2-pentanone	ND	12	2.5	U	
591-78-6	2-Hexanone	ND	12	2.5	U	
74-97-5	Bromochloromethane	ND	6.2	1.8	U	
106-93-4	1,2-Dibromoethane	ND	5.0	1.6	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	1.8	U	
98-82-8	Isopropylbenzene	ND	6.2	1.8	U	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	1.8	U	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	1.8	U	
79-20-9	Methyl Acetate	ND	5.0	0.58	U	
110-82-7	Cyclohexane	ND	25	0.68	U	
123-91-1	1,4-Dioxane	ND	620	150	U	



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Sterling Environmental Engineering	Lab Number	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Lab ID	: L2475849-04D	Date Collected	: 12/23/24 15:05
Client ID	: B6-OWD	Date Received	: 12/23/24
Sample Location	: MAMARONECK, NY	Date Analyzed	: 12/28/24 14:43
Sample Matrix	: WATER	Dilution Factor	: 2.5
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: VG241228A16	Instrument ID	: GONZO
Sample Amount	: 4 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	6.2	1.8	U
108-87-2	Methyl cyclohexane	ND	25	0.99	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Sterling Environmental Engineering	Lab Number	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Lab ID	: L2475849-04D2	Date Collected	: 12/23/24 15:05
Client ID	: B6-OWD	Date Received	: 12/23/24
Sample Location	: MAMARONECK, NY	Date Analyzed	: 12/31/24 10:07
Sample Matrix	: WATER	Dilution Factor	: 50
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V08241231A10	Instrument ID	: VOA108
Sample Amount	: 0.2 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	
127-18-4	Tetrachloroethene	840	25	9.0	
79-01-6	Trichloroethene	2400	25	8.8	
156-59-2	cis-1,2-Dichloroethene	530	120	35.	



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Lab ID : L2475849-05D
 Client ID : OSMW-3
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08241231A09
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 14:10
 Date Received : 12/23/24
 Date Analyzed : 12/31/24 09:45
 Dilution Factor : 2.5
 Analyst : PID
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.2	1.8	U
75-34-3	1,1-Dichloroethane	ND	6.2	1.8	U
67-66-3	Chloroform	ND	6.2	1.8	U
56-23-5	Carbon tetrachloride	ND	1.2	0.34	U
78-87-5	1,2-Dichloropropane	ND	2.5	0.34	U
124-48-1	Dibromochloromethane	ND	1.2	0.37	U
79-00-5	1,1,2-Trichloroethane	ND	3.8	1.2	U
127-18-4	Tetrachloroethene	360	1.2	0.45	
108-90-7	Chlorobenzene	ND	6.2	1.8	U
75-69-4	Trichlorofluoromethane	ND	6.2	1.8	U
107-06-2	1,2-Dichloroethane	2.9	1.2	0.33	J
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.8	U
75-27-4	Bromodichloromethane	ND	1.2	0.48	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.36	U
75-25-2	Bromoform	ND	5.0	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.42	U
71-43-2	Benzene	ND	1.2	0.40	U
108-88-3	Toluene	ND	6.2	1.8	U
100-41-4	Ethylbenzene	ND	6.2	1.8	U
74-87-3	Chloromethane	ND	6.2	1.8	U
74-83-9	Bromomethane	ND	6.2	1.8	U
75-01-4	Vinyl chloride	ND	2.5	0.18	U
75-00-3	Chloroethane	ND	6.2	1.8	U
75-35-4	1,1-Dichloroethene	ND	1.2	0.42	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Lab ID : L2475849-05D
 Client ID : OSMW-3
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08241231A09
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 14:10
 Date Received : 12/23/24
 Date Analyzed : 12/31/24 09:45
 Dilution Factor : 2.5
 Analyst : PID
 Instrument ID : VOA108
 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	7.2	6.2	1.8	
79-01-6	Trichloroethene	81	1.2	0.44	
95-50-1	1,2-Dichlorobenzene	ND	6.2	1.8	U
541-73-1	1,3-Dichlorobenzene	ND	6.2	1.8	U
106-46-7	1,4-Dichlorobenzene	ND	6.2	1.8	U
1634-04-4	Methyl tert butyl ether	ND	6.2	0.42	U
179601-23-1	p/m-Xylene	ND	6.2	1.8	U
95-47-6	o-Xylene	ND	6.2	1.8	U
156-59-2	cis-1,2-Dichloroethene	16	6.2	1.8	
100-42-5	Styrene	ND	6.2	1.8	U
75-71-8	Dichlorodifluoromethane	ND	12	2.5	U
67-64-1	Acetone	ND	12	3.6	U
75-15-0	Carbon disulfide	ND	12	2.5	U
78-93-3	2-Butanone	ND	12	4.8	U
108-10-1	4-Methyl-2-pentanone	ND	12	2.5	U
591-78-6	2-Hexanone	ND	12	2.5	U
74-97-5	Bromochloromethane	ND	6.2	1.8	U
106-93-4	1,2-Dibromoethane	ND	5.0	1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	1.8	U
98-82-8	Isopropylbenzene	ND	6.2	1.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	1.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	1.8	U
79-20-9	Methyl Acetate	ND	5.0	0.58	U
110-82-7	Cyclohexane	ND	25	0.68	U
123-91-1	1,4-Dioxane	ND	620	150	U R



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Sterling Environmental Engineering	Lab Number	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Lab ID	: L2475849-05D	Date Collected	: 12/23/24 14:10
Client ID	: OSMW-3	Date Received	: 12/23/24
Sample Location	: MAMARONECK, NY	Date Analyzed	: 12/31/24 09:45
Sample Matrix	: WATER	Dilution Factor	: 2.5
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V08241231A09	Instrument ID	: VOA108
Sample Amount	: 4 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	6.2	1.8	U
108-87-2	Methyl cyclohexane	ND	25	0.99	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Lab ID : L2475849-06
 Client ID : DUP12232024
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A15
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 00:00
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 14:19
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 GC Column : RTX-502.2
 %Solids : 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	0.23	0.50	0.18	J
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	75	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	0.36	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 UJ
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	1.7	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
 Project Name : WAVERLY
 Lab ID : L2475849-06
 Client ID : DUP12232024
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A15
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 00:00
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 14:19
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 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	1.8	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	0.60	2.5	0.17	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	120	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	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Lab ID	: L2475849-06	Date Collected	: 12/23/24 00:00
Client ID	: DUP12232024	Date Received	: 12/23/24
Sample Location	: MAMARONECK, NY	Date Analyzed	: 12/28/24 14:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: VG241228A15	Instrument ID	: GONZO
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
 Project Name : WAVERLY
 Lab ID : L2475849-07
 Client ID : TB12232024
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 00:00
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 13:31
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 GC Column : RTX-502.2
 %Solids : 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	1,1,2,2-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 UJ
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
 Project Name : WAVERLY
 Lab ID : L2475849-07
 Client ID : TB12232024
 Sample Location : MAMARONECK, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : VG241228A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2475849
 Project Number : 28012
 Date Collected : 12/23/24 00:00
 Date Received : 12/23/24
 Date Analyzed : 12/28/24 13:31
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : GONZO
 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	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	0.17	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

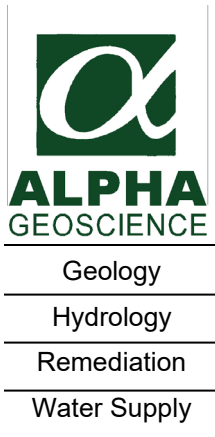
Volatile Organics by GC/MS

Client	: Sterling Environmental Engineering	Lab Number	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Lab ID	: L2475849-07	Date Collected	: 12/23/24 00:00
Client ID	: TB12232024	Date Received	: 12/23/24
Sample Location	: MAMARONECK, NY	Date Analyzed	: 12/28/24 13:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: VG241228A13	Instrument ID	: GONZO
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



VOC Data Section



**QA/QC Review of Method 8260C Volatiles Data
for Alpha Analytical, SDG Number: L2475849**

**5 Ground Water Samples, 1 Field Duplicate,
and 1 Trip Blank
Collected December 23, 2024**

Prepared by: Donald Anné
January 24, 2025

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 applicable compounds were above the method minimums, as required.

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 RRF for 1,1,2-trichloroethane was below the method minimum, but not below 0.010 on 12-28-24 (VG241228A01). The %Ds for 8 compounds (highlighted yellow on attached Form 7) were above the method maximum on 12-28-24 (VG241228A01). The %Ds for 9 compounds (highlighted yellow on attached Form 7) were above the method maximum on 12-31-24 (V08241231A02). 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 minimum (0.001) on 12-31-24 (V08241231A02). Positive results for 1,4-dioxane should be considered estimated (J) and “not detected” results rejected, unusable (R) in associated samples.

The %Ds for 8 compounds (highlighted yellow on attached Form 7) were above the allowable maximum (20%) on 12-28-24 (VG241228A01). The %Ds for 9 compounds (highlighted yellow on attached Form 7) and 1,4-dioxane were above the allowable maximum (20%) on 12-31-24 (V08241231A02). 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, but 2 of 2 percent recoveries for chloromethane and dichlorodifluoromethane were below QC limits, but not below 30% for aqueous MS/MSD sample GZ-21D. The “not detected” results for chloromethane and dichlorodifluoromethane should be considered estimated (UJ) in sample GZ-21D.

Laboratory Control Sample: The relative percent differences (RPDs) for target compounds were below the allowable maximum and the percent recoveries (%Rs) were within QC limits for aqueous samples WG2015263-3/4.

The RPDs for target compounds were below the allowable maximum, but 1 of 2 %Rs for chloromethane was below QC limits, but not below 30% for aqueous samples WG2014860-3/4. Positive results for chloromethane should be considered estimated, biased low (J-) and “not detected” results estimated (UJ) 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-21D/DUP12232024 (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.

The results for tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene in sample B6-OWD were quantitated by extrapolating data above the highest calibration standard and marked ‘E’ by the laboratory. The sample was diluted by the laboratory and re-analyzed; therefore, the results that are flagged as ‘E’ in the undiluted sample should be considered estimated (J). The use of the diluted results for tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene is recommended for sample B6-OWD. It is recommended that the undiluted results be used for all other compounds.

Laboratory Control Sample Summary

Form 3

Volatiles

Client : Sterling Environmental Engineering Lab Number : L2475849
 Project Name : WAVERLY Project Number : 28012
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : **WG2014860-3** Analysis Date : 12/28/24 08:41 File ID : VG241228A01
 LCSD Sample ID : **WG2014860-4** Analysis Date : 12/28/24 09:05 File ID : VG241228A02

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	9.2	92	10	9.1	91	1	70-130	20
1,1-Dichloroethane	10	10	100	10	9.8	98	2	70-130	20
Chloroform	10	10	100	10	9.9	99	1	70-130	20
Carbon tetrachloride	10	10	100	10	9.4	94	6	63-132	20
1,2-Dichloropropane	10	9.9	99	10	9.8	98	1	70-130	20
Dibromochloromethane	10	9.0	90	10	9.2	92	2	63-130	20
1,1,2-Trichloroethane	10	8.7	87	10	9.1	91	4	70-130	20
Tetrachloroethene	10	11	110	10	10	100	10	70-130	20
Chlorobenzene	10	10	100	10	10	100	0	75-130	20
Trichlorofluoromethane	10	10	100	10	9.6	96	4	62-150	20
1,2-Dichloroethane	10	9.4	94	10	9.6	96	2	70-130	20
1,1,1-Trichloroethane	10	9.7	97	10	9.4	94	3	67-130	20
Bromodichloromethane	10	9.6	96	10	9.7	97	1	67-130	20
trans-1,3-Dichloropropene	10	9.1	91	10	9.6	96	5	70-130	20
cis-1,3-Dichloropropene	10	9.9	99	10	9.6	96	3	70-130	20
Bromoform	10	8.3	83	10	8.8	88	6	54-136	20
1,1,2,2-Tetrachloroethane	10	7.8	78	10	8.4	84	7	67-130	20
Benzene	10	9.9	99	10	9.5	95	4	70-130	20
Toluene	10	9.7	97	10	9.8	98	1	70-130	20
Ethylbenzene	10	9.8	98	10	9.8	98	0	70-130	20
Chloromethane	10	6.4	64	10	5.6	56 Q	13	64-130	20
Bromomethane	10	11	110	10	12	120	9	39-139	20
Vinyl chloride	10	8.5	85	10	7.8	78	9	55-140	20
Chloroethane	10	12	120	10	11	110	9	55-138	20
1,1-Dichloroethene	10	9.5	95	10	9.1	91	4	61-145	20
trans-1,2-Dichloroethene	10	10	100	10	9.7	97	3	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Sterling Environmental Engineering Lab Number : L2475849
 Project Name : WAVERLY Project Number : 28012
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : **WG2014860-3** Analysis Date : 12/28/24 08:41 File ID : VG241228A01
 LCSD Sample ID : **WG2014860-4** Analysis Date : 12/28/24 09:05 File ID : VG241228A02

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	9.4	94	10	8.8	88	7	70-130	20
1,2-Dichlorobenzene	10	9.6	96	10	9.8	98	2	70-130	20
1,3-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,4-Dichlorobenzene	10	9.6	96	10	9.8	98	2	70-130	20
Methyl tert butyl ether	10	8.9	89	10	9.6	96	8	63-130	20
p/m-Xylene	20	19	95	20	19	95	0	70-130	20
o-Xylene	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	10	9.7	97	10	9.6	96	1	70-130	20
Styrene	20	20	100	20	20	100	0	70-130	20
Dichlorodifluoromethane	10	4.7	47	10	4.1	41	14	36-147	20
Acetone	10	7.1	71	10	8.6	86	19	58-148	20
Carbon disulfide	10	9.6	96	10	9.1	91	5	51-130	20
2-Butanone	10	8.3	83	10	8.8	88	6	63-138	20
4-Methyl-2-pentanone	10	7.8	78	10	8.8	88	12	59-130	20
2-Hexanone	10	7.9	79	10	8.9	89	12	57-130	20
Bromochloromethane	10	8.8	88	10	8.9	89	1	70-130	20
1,2-Dibromoethane	10	9.1	91	10	9.6	96	5	70-130	20
1,2-Dibromo-3-chloropropane	10	7.8	78	10	8.4	84	7	41-144	20
Isopropylbenzene	10	9.4	94	10	9.1	91	3	70-130	20
1,2,3-Trichlorobenzene	10	8.7	87	10	9.6	96	10	70-130	20
1,2,4-Trichlorobenzene	10	9.3	93	10	9.8	98	5	70-130	20
Methyl Acetate	10	7.3	73	10	8.2	82	12	70-130	20
Cyclohexane	10	9.9	99	10	9.1	91	8	70-130	20
1,4-Dioxane	500	450	90	500	510	102	13	56-162	20
Freon-113	10	10	100	10	9.6	96	4	70-130	20
Methyl cyclohexane	10	11	110	10	9.1	91	19	70-130	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client	: Sterling Environmental Engineering	Lab Number	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Client Sample ID	: GZ-21D	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2475849-01	Analysis Date	: 12/28/24 13:07
Matrix Spike	: WG2014860-8	MS Analysis Date	: 12/28/24 19:09
Matrix Spike Dup	: WG2014860-9	MSD Analysis Date	: 12/28/24 19:33

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Methylene chloride	ND	10	9.7	97	10	9.4	94	3	70-130	20
1,1-Dichloroethane	ND	10	11	110	10	11	110	0	70-130	20
Chloroform	ND	10	11	110	10	11	110	0	70-130	20
Carbon tetrachloride	ND	10	11	110	10	10	100	10	63-132	20
1,2-Dichloropropane	ND	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	ND	10	9.2	92	10	9.1	91	1	63-130	20
1,1,2-Trichloroethane	ND	10	9.3	93	10	9.2	92	1	70-130	20
Tetrachloroethene	ND	10	11	110	10	11	110	0	70-130	20
Chlorobenzene	ND	10	10	100	10	10	100	0	75-130	20
Trichlorofluoromethane	ND	10	11	110	10	10	100	10	62-150	20
1,2-Dichloroethane	73	10	84	110	10	83	100	1	70-130	20
1,1,1-Trichloroethane	ND	10	11	110	10	11	110	0	67-130	20
Bromodichloromethane	ND	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.2	92	10	9.2	92	0	70-130	20
cis-1,3-Dichloropropene	ND	10	9.5	95	10	9.2	92	3	70-130	20
Bromoform	ND	10	8.5	85	10	8.3	83	2	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	8.0	80	10	8.1	81	1	67-130	20
Benzene	0.37J	10	11	110	10	10	100	10	70-130	20
Toluene	ND	10	10	100	10	10	100	0	70-130	20
Ethylbenzene	ND	10	10	100	10	9.9	99	1	70-130	20
Chloromethane	ND	10	6.1	61 Q	10	6.0	60 Q	2	64-130	20
Bromomethane	ND	10	12	120	10	11	110	9	39-139	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Client Sample ID : GZ-21D
 Lab Sample ID : L2475849-01
 Matrix Spike : WG2014860-8
 Matrix Spike Dup : WG2014860-9

Lab Number : L2475849
 Project Number : 28012
 Matrix (Level) : WATER (LOW)
 Analysis Date : 12/28/24 13:07
 MS Analysis Date : 12/28/24 19:09
 MSD Analysis Date : 12/28/24 19:33

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Vinyl chloride	1.7	10	10	83	10	10	83	0	55-140	20
Chloroethane	ND	10	13	130	10	13	130	0	55-138	20
1,1-Dichloroethene	ND	10	10	100	10	9.9	99	1	61-145	20
trans-1,2-Dichloroethene	1.9J	10	12	120	10	12	120	0	70-130	20
Trichloroethene	ND	10	9.5	95	10	9.6	96	1	70-130	20
1,2-Dichlorobenzene	ND	10	9.8	98	10	9.6	96	2	70-130	20
1,3-Dichlorobenzene	ND	10	10	100	10	9.7	97	3	70-130	20
1,4-Dichlorobenzene	ND	10	10	100	10	9.8	98	2	70-130	20
Methyl tert butyl ether	0.56J	10	10	100	10	10	100	0	63-130	20
p/m-Xylene	ND	20	21	105	20	20	100	5	70-130	20
o-Xylene	ND	20	21	105	20	20	100	5	70-130	20
cis-1,2-Dichloroethene	110	10	120	100	10	120	100	0	70-130	20
Styrene	ND	20	20	100	20	20	100	0	70-130	20
Dichlorodifluoromethane	ND	10	3.5J	35 Q	10	3.4J	34 Q	3	36-147	20
Acetone	ND	10	8.0	80	10	9.5	95	17	58-148	20
Carbon disulfide	ND	10	10	100	10	9.8	98	2	51-130	20
2-Butanone	ND	10	8.8	88	10	8.8	88	0	63-138	20
4-Methyl-2-pentanone	ND	10	8.6	86	10	8.9	89	3	59-130	20
2-Hexanone	ND	10	8.6	86	10	8.8	88	2	57-130	20
Bromochloromethane	ND	10	9.8	98	10	9.6	96	2	70-130	20
1,2-Dibromoethane	ND	10	9.4	94	10	9.5	95	1	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	7.3	73	10	7.9	79	8	41-144	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client	: Sterling Environmental Engineering	Lab Number	: L2475849
Project Name	: WAVERLY	Project Number	: 28012
Client Sample ID	: GZ-21D	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2475849-01	Analysis Date	: 12/28/24 13:07
Matrix Spike	: WG2014860-8	MS Analysis Date	: 12/28/24 19:09
Matrix Spike Dup	: WG2014860-9	MSD Analysis Date	: 12/28/24 19:33

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Isopropylbenzene	ND	10	9.6	96	10	9.0	90	6	70-130	20
1,2,3-Trichlorobenzene	ND	10	9.2	92	10	8.7	87	6	70-130	20
1,2,4-Trichlorobenzene	ND	10	9.5	95	10	9.2	92	3	70-130	20
Methyl Acetate	ND	10	7.4	74	10	7.3	73	1	70-130	20
Cyclohexane	ND	10	10	100	10	9.8J	98	2	70-130	20
1,4-Dioxane	ND	500	500	100	500	520	104	4	56-162	20
Freon-113	ND	10	10	100	10	9.9	99	1	70-130	20
Methyl cyclohexane	ND	10	10	100	10	9.1J	91	9	70-130	20



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Instrument ID : GONZO
 Lab File ID : VG241228A01
 Sample No : WG2014860-2
 Channel :

Lab Number : L2475849
 Project Number : 28012
 Calibration Date : 12/28/24 08:41
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 05:32 09:34

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	118	0
Dichlorodifluoromethane	0.265	0.124	-	53.2*	20	48	0
Chloromethane	0.267	0.17	-	36.3*	20	74	0
Vinyl chloride	0.263	0.224	-	14.8	20	85	0
Bromomethane	0.106	0.12	-	-13.2	20	126	0
Chloroethane	0.133	0.155	-	-16.5	20	121	0
Trichlorofluoromethane	0.339	0.352	-	-3.8	20	103	0
1,1-Dichloroethene	0.203	0.193	-	4.9	20	101	0
Carbon disulfide	0.595	0.571	-	4	20	105	0
Freon-113	0.199	0.207	-	-4	20	106	0
Methylene chloride	0.262	0.241	-	8	20	100	0
Acetone	0.073	0.052	-	28.8*	20	78	0
trans-1,2-Dichloroethene	0.218	0.224	-	-2.8	20	109	0
Methyl acetate	0.151	0.11	-	27.2*	20	83	0
Methyl tert-butyl ether	0.692	0.619	-	10.5	20	99	0
1,1-Dichloroethane	0.421	0.429	-	-1.9	20	106	0
cis-1,2-Dichloroethene	0.255	0.248	-	2.7	20	109	0
Bromochloromethane	0.121	0.106	-	12.4	20	96	0
Cyclohexane	0.408	0.405	-	0.7	20	100	0
Chloroform	0.429	0.433	-	-0.9	20	108	0
Carbon tetrachloride	0.33	0.332	-	-0.6	20	100	0
Dibromofluoromethane	0.261	0.288	-	-10.3	20	115	0
1,1,1-Trichloroethane	0.385	0.374	-	2.9	20	101	0
2-Butanone	0.119	0.099	-	16.8	20	96	0
Benzene	1.003	0.99	-	1.3	20	101	0
1,2-Dichloroethane-d4	0.303	0.328	-	-8.3	20	116	0
1,2-Dichloroethane	0.319	0.3	-	6	20	105	0
Methyl cyclohexane	0.341	0.363	-	-6.5	20	110	0
Trichloroethene	0.256	0.24	-	6.3	20	106	0
1,2-Dichloropropane	0.248	0.247	-	0.4	20	104	0
Bromodichloromethane	0.351	0.336	-	4.3	20	103	0
1,4-Dioxane	0.00243	0.00217*	-	10.7	20	99	0
cis-1,3-Dichloropropene	0.424	0.421	-	0.7	20	103	0
Chlorobenzene-d5	1	1	-	0	20	114	0
Toluene-d8	1.34	1.335	-	0.4	20	114	0
Toluene	0.718	0.699	-	2.6	20	106	0
4-Methyl-2-pentanone	0.105	0.082	-	21.9*	20	89	0
Tetrachloroethene	0.313	0.335	-	-7	20	113	0
trans-1,3-Dichloropropene	0.446	0.407	-	8.7	20	101	0
1,1,2-Trichloroethane	0.228	0.198*	-	13.2	20	102	0
Chlorodibromomethane	0.324	0.292	-	9.9	20	101	0
1,2-Dibromoethane	0.272	0.247	-	9.2	20	101	0
2-Hexanone	0.196	0.155	-	20.9*	20	86	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Instrument ID : GONZO
 Lab File ID : VG241228A01
 Sample No : WG2014860-2
 Channel :

Lab Number : L2475849
 Project Number : 28012
 Calibration Date : 12/28/24 08:41
 Init. Calib. Date(s) : 12/20/24 12/20/24
 Init. Calib. Times : 05:32 09:34

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Chlorobenzene	0.789	0.788	-	0.1	20	110	0
Ethylbenzene	1.379	1.356	-	1.7	20	109	0
p/m Xylene	0.518	0.496	-	4.2	20	105	0
o Xylene	0.519	0.519	-	0	20	106	0
Styrene	0.856	0.855	-	0.1	20	107	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	119	0
Bromoform	0.391	0.324	-	17.1	20	103	0
Isopropylbenzene	2.345	2.201	-	6.1	20	107	0
4-Bromofluorobenzene	0.863	0.77	-	10.8	20	115	0
n-Propylbenzene	2.583	2.4	-	7.1	20	109	0
1,1,2,2-Tetrachloroethane	0.564	0.438	-	22.3*	20	104	0
1,3,5-Trimethylbenzene	1.93	1.693	-	12.3	20	107	0
tert-Butylbenzene	1.58	1.484	-	6.1	20	106	0
1,2,4-Trimethylbenzene	1.93	1.819	-	5.8	20	108	0
sec-Butylbenzene	2.196	2.134	-	2.8	20	110	0
p-Isopropyltoluene	1.913	1.855	-	3	20	108	0
1,3-Dichlorobenzene	1.119	1.118	-	0.1	20	114	0
1,4-Dichlorobenzene	1.127	1.087	-	3.5	20	114	0
n-Butylbenzene	1.481	1.47	-	0.7	20	113	0
1,2-Dichlorobenzene	1.094	1.055	-	3.6	20	110	0
1,2-Dibromo-3-chloropropan	0.11	0.087	-	20.9*	20	96	0
1,2,4-Trichlorobenzene	0.645	0.601	-	6.8	20	109	0
Naphthalene	1.438	0.992	-	31*	20	87	0
1,2,3-Trichlorobenzene	0.545	0.472	-	13.4	20	100	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Instrument ID : VOA108
 Lab File ID : V08241231A02
 Sample No : WG2015263-2
 Channel :

Lab Number : L2475849
 Project Number : 28012
 Calibration Date : 12/31/24 07:08
 Init. Calib. Date(s) : 11/26/24 11/26/24
 Init. Calib. Times : 04:51 08:34

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	91	0
Dichlorodifluoromethane	0.318	0.191	-	39.9*	20	49	0
Chloromethane	0.39	0.268	-	31.3*	20	58	0
Vinyl chloride	0.341	0.275	-	19.4	20	69	0
Bromomethane	10	10.887	-	-8.9	20	113	0
Chloroethane	0.188	0.185	-	1.6	20	84	0
Trichlorofluoromethane	0.431	0.357	-	17.2	20	68	0
Ethyl ether	0.113	0.105	-	7.1	20	82	0
1,1-Dichloroethene	0.212	0.196	-	7.5	20	81	0
Carbon disulfide	0.757	0.648	-	14.4	20	75	0
Freon-113	0.218	0.194	-	11	20	74	0
Methylene chloride	0.269	0.234	-	13	20	77	0
Acetone	0.068	0.049	-	27.9*	20	63	0
trans-1,2-Dichloroethene	0.237	0.224	-	5.5	20	80	0
Methyl acetate	0.168	0.129	-	23.2*	20	66	0
Methyl tert-butyl ether	0.688	0.548	-	20.3*	20	70	0
tert-Butyl alcohol	0.021	0.016	-	23.8*	20	65	0
Diisopropyl ether	1.092	0.849	-	22.3*	20	65	0
1,1-Dichloroethane	0.581	0.472	-	18.8	20	69	0
Halothane	0.179	0.173	-	3.4	20	82	0
Acrylonitrile	0.085	0.065	-	23.5*	20	62	0
Ethyl tert-butyl ether	0.997	0.784	-	21.4*	20	69	0
Vinyl acetate	0.602	0.494	-	17.9	20	66	0
cis-1,2-Dichloroethene	0.269	0.251	-	6.7	20	81	0
2,2-Dichloropropane	0.407	0.348	-	14.5	20	72	0
Bromochloromethane	0.13	0.128	-	1.5	20	85	0
Cyclohexane	0.532	0.409	-	23.1*	20	62	0
Chloroform	0.497	0.43	-	13.5	20	74	0
Ethyl acetate	0.241	0.174	-	27.8*	20	62	0
Carbon tetrachloride	0.4	0.334	-	16.5	20	68	0
Tetrahydrofuran	0.069	0.051	-	26.1*	20	61	0
Dibromofluoromethane	0.29	0.284	-	2.1	20	88	-.01
1,1,1-Trichloroethane	0.439	0.365	-	16.9	20	70	0
2-Butanone	0.102	0.084	-	17.6	20	71	0
1,1-Dichloropropene	0.35	0.285	-	18.6	20	69	0
Benzene	1.01	0.87	-	13.9	20	74	0
tert-Amyl methyl ether	0.677	0.553	-	18.3	20	72	0
1,2-Dichloroethane-d4	0.384	0.332	-	13.5	20	76	0
1,2-Dichloroethane	0.436	0.332	-	23.9*	20	65	0
Methyl cyclohexane	0.378	0.326	-	13.8	20	74	0
Trichloroethene	0.268	0.246	-	8.2	20	79	0
Dibromomethane	0.15	0.131	-	12.7	20	75	0
1,2-Dichloropropane	0.32	0.258	-	19.4	20	70	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering
 Project Name : WAVERLY
 Instrument ID : VOA108
 Lab File ID : V08241231A02
 Sample No : WG2015263-2
 Channel :

Lab Number : L2475849
 Project Number : 28012
 Calibration Date : 12/31/24 07:08
 Init. Calib. Date(s) : 11/26/24 11/26/24
 Init. Calib. Times : 04:51 08:34

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.39	0.323	-	17.2	20	72	0
1,4-Dioxane	0.00154	0.00097*	-	37*	20	55	0
cis-1,3-Dichloropropene	0.398	0.335	-	15.8	20	73	0
Chlorobenzene-d5	1	1	-	0	20	89	0
Toluene-d8	1.308	1.345	-	-2.8	20	90	0
Toluene	0.822	0.766	-	6.8	20	78	-.01
4-Methyl-2-pentanone	0.116	0.082	-	29.3*	20	63	0
Tetrachloroethene	0.372	0.367	-	1.3	20	82	0
trans-1,3-Dichloropropene	0.463	0.393	-	15.1	20	73	0
Ethyl methacrylate	0.334	0.257	-	23.1*	20	72	0
1,1,2-Trichloroethane	0.22	0.205	-	6.8	20	77	0
Chlorodibromomethane	0.348	0.321	-	7.8	20	80	0
1,3-Dichloropropane	0.477	0.409	-	14.3	20	73	0
1,2-Dibromoethane	0.258	0.238	-	7.8	20	79	0
2-Hexanone	0.185	0.127	-	31.4*	20	64	0
Chlorobenzene	0.94	0.907	-	3.5	20	83	0
Ethylbenzene	1.583	1.446	-	8.7	20	76	0
1,1,1,2-Tetrachloroethane	0.36	0.339	-	5.8	20	81	0
p/m Xylene	0.615	0.59	-	4.1	20	79	0
o Xylene	0.594	0.564	-	5.1	20	79	0
Styrene	0.979	0.944	-	3.6	20	79	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	91	0
Bromoform	0.37	0.32	-	13.5	20	79	0
Isopropylbenzene	2.64	2.323	-	12	20	76	0
4-Bromofluorobenzene	0.836	0.828	-	1	20	93	0
Bromobenzene	0.718	0.675	-	6	20	85	0
n-Propylbenzene	3.084	2.75	-	10.8	20	78	0
1,4-Dichlorobutane	0.951	0.791	-	16.8	20	72	0
1,1,2,2-Tetrachloroethane	0.523	0.476	-	9	20	82	0
4-Ethyltoluene	2.627	2.343	-	10.8	20	78	0
2-Chlorotoluene	1.886	1.702	-	9.8	20	80	0
1,3,5-Trimethylbenzene	2.337	2.075	-	11.2	20	77	0
1,2,3-Trichloropropane	0.452	0.384	-	15	20	76	0
trans-1,4-Dichloro-2-buten	0.172	0.142	-	17.4	20	71	0
4-Chlorotoluene	1.972	1.755	-	11	20	79	0
tert-Butylbenzene	1.944	1.803	-	7.3	20	80	0
1,2,4-Trimethylbenzene	2.306	2.063	-	10.5	20	78	0
sec-Butylbenzene	2.83	2.557	-	9.6	20	77	0
p-Isopropyltoluene	2.453	2.324	-	5.3	20	81	0
1,3-Dichlorobenzene	1.343	1.303	-	3	20	86	0
1,4-Dichlorobenzene	1.39	1.321	-	5	20	85	0
p-Diethylbenzene	1.465	1.376	-	6.1	20	82	0
n-Butylbenzene	2.135	1.954	-	8.5	20	78	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Sterling Environmental Engineering Project Name : WAVERLY Instrument ID : VOA108 Lab File ID : V08241231A02 Sample No : WG2015263-2 Channel :	Lab Number : L2475849 Project Number : 28012 Calibration Date : 12/31/24 07:08 Init. Calib. Date(s) : 11/26/24 11/26/24 Init. Calib. Times : 04:51 08:34
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Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichlorobenzene	1.271	1.212	-	4.6	20	86	0
1,2,4,5-Tetramethylbenzene	2.393	2.123	-	11.3	20	79	0
1,2-Dibromo-3-chloropropan	10	8.75	-	12.5	20	85	0
1,3,5-Trichlorobenzene	1.126	1.058	-	6	20	84	0
Hexachlorobutadiene	0.574	0.495	-	13.8	20	76	0
1,2,4-Trichlorobenzene	0.974	0.876	-	10.1	20	81	0
Naphthalene	1.537	1.303	-	15.2	20	78	0
1,2,3-Trichlorobenzene	0.83	0.741	-	10.7	20	81	0

* Value outside of QC limits.



Field Duplicate Calculation Section

Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)

SDG No. L2475849

S1= GZ-21D

S2= DUP12232024

<u>Analyte</u>	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
Tetrachloroethene	ND	0.23	NC
1,2-Dichloroethane	73	75	3%
Benzene	0.37	0.36	NC
Vinyl chloride	1.7	1.7	0%
trans-1,2-Dichloroethene	1.9	1.8	NC
Methyl tert butyl ether	0.56	0.6	NC
cis-1,2-Dichloroethene	110	120	9%

* 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.



ANALYTICAL REPORT

Lab Number:	L2475849
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	WAVERLY
Project Number:	28012
Report Date:	12/31/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: WAVERLY
Project Number: 28012

Lab Number: L2475849
Report Date: 12/31/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2475849-01	GZ-21D	WATER	MAMARONECK, NY	12/23/24 12:20	12/23/24
L2475849-02	GZ-22D	WATER	MAMARONECK, NY	12/23/24 11:20	12/23/24
L2475849-03	GZ-23D	WATER	MAMARONECK, NY	12/23/24 13:25	12/23/24
L2475849-04	B6-OWD	WATER	MAMARONECK, NY	12/23/24 15:05	12/23/24
L2475849-05	OSMW-3	WATER	MAMARONECK, NY	12/23/24 14:10	12/23/24
L2475849-06	DUP12232024	WATER	MAMARONECK, NY	12/23/24 00:00	12/23/24
L2475849-07	TB12232024	WATER	MAMARONECK, NY	12/23/24 00:00	12/23/24

Project Name: WAVERLY
Project Number: 28012

Lab Number: L2475849
Report Date: 12/31/24

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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: WAVERLY
Project Number: 28012

Lab Number: L2475849
Report Date: 12/31/24

Case Narrative (continued)

Report Submission

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

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:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 12/31/24

ORGANICS

VOLATILES

Project Name: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-01
 Client ID: GZ-21D
 Sample Location: MAMARONECK, NY

Date Collected: 12/23/24 12:20
 Date Received: 12/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/28/24 13:07
 Analyst: PID

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	73		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	0.37	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	1.7		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	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: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-01

Date Collected: 12/23/24 12:20

Client ID: GZ-21D

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

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	0.56	J	ug/l	2.5	0.17	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	110		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	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	119		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**SAMPLE RESULTS**

Lab ID: L2475849-02
 Client ID: GZ-22D
 Sample Location: MAMARONECK, NY

Date Collected: 12/23/24 11:20
 Date Received: 12/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/28/24 12:42
 Analyst: PID

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	16		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	2.8		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	6.2		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	54		ug/l	2.5	0.70	1
Trichloroethene	0.57		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-02

Date Collected: 12/23/24 11:20

Client ID: GZ-22D

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

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	0.60	J	ug/l	2.5	0.17	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	10		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	1.2	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	116		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**SAMPLE RESULTS**

Lab ID: L2475849-03
 Client ID: GZ-23D
 Sample Location: MAMARONECK, NY

Date Collected: 12/23/24 13:25
 Date Received: 12/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/28/24 13:55
 Analyst: PID

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	9.5		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	1.3		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	10		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	6.4		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	8.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-03

Date Collected: 12/23/24 13:25

Client ID: GZ-23D

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

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	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	2.6		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	12		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	0.46	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	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	109		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**SAMPLE RESULTS**

Lab ID: L2475849-04 D2

Date Collected: 12/23/24 15:05

Client ID: B6-OWD

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/31/24 10:07

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	840		ug/l	25	9.0	50
Trichloroethene	2400		ug/l	25	8.8	50
cis-1,2-Dichloroethene	530		ug/l	120	35.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**SAMPLE RESULTS**

Lab ID: L2475849-04 D

Date Collected: 12/23/24 15:05

Client ID: B6-OWD

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/28/24 14:43

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	910	E	ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	7.3		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	7.0		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	11		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	1.7		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	15		ug/l	6.2	1.8	2.5
Trichloroethene	2800	E	ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-04 D

Date Collected: 12/23/24 15:05

Client ID: B6-OWD

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

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	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	0.42	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	550	E	ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl Acetate	ND		ug/l	5.0	0.58	2.5
Cyclohexane	ND		ug/l	25	0.68	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
Methyl cyclohexane	ND		ug/l	25	0.99	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	112		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**SAMPLE RESULTS**

Lab ID: L2475849-05 D

Date Collected: 12/23/24 14:10

Client ID: OSMW-3

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/31/24 09:45

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	360		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	2.9		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	7.2		ug/l	6.2	1.8	2.5
Trichloroethene	81		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5



Project Name: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-05 D

Date Collected: 12/23/24 14:10

Client ID: OSMW-3

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

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	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	0.42	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	16		ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl Acetate	ND		ug/l	5.0	0.58	2.5
Cyclohexane	ND		ug/l	25	0.68	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
Methyl cyclohexane	ND		ug/l	25	0.99	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**SAMPLE RESULTS**

Lab ID: L2475849-06
 Client ID: DUP12232024
 Sample Location: MAMARONECK, NY

Date Collected: 12/23/24 00:00
 Date Received: 12/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/28/24 14:19
 Analyst: PID

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	0.23	J	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	75		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	0.36	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	1.7		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	1.8	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: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-06
 Client ID: DUP12232024
 Sample Location: MAMARONECK, NY

Date Collected: 12/23/24 00:00
 Date Received: 12/23/24
 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	0.60	J	ug/l	2.5	0.17	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	120		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	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	120		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**SAMPLE RESULTS**

Lab ID: L2475849-07
 Client ID: TB12232024
 Sample Location: MAMARONECK, NY

Date Collected: 12/23/24 00:00
 Date Received: 12/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/28/24 13:31
 Analyst: PID

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: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

SAMPLE RESULTS

Lab ID: L2475849-07

Date Collected: 12/23/24 00:00

Client ID: TB12232024

Date Received: 12/23/24

Sample Location: MAMARONECK, NY

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	0.17	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	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	115		70-130

Project Name: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/28/24 10:17
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-07 Batch: WG2014860-5					
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
1,1,1,2-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: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/28/24 10:17
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-07 Batch: WG2014860-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
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: WAVERLY**Project Number:** 28012**Lab Number:** L2475849**Report Date:** 12/31/24**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260D

Analytical Date: 12/28/24 10:17

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,06-07 Batch: WG2014860-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	114		70-130

Project Name: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/31/24 08:15
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG2015263-5					
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
1,1,1,2-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: WAVERLY

Lab Number: L2475849

Project Number: 28012

Report Date: 12/31/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/31/24 08:15
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG2015263-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
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: WAVERLY**Project Number:** 28012**Lab Number:** L2475849**Report Date:** 12/31/24**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260D

Analytical Date: 12/31/24 08:15

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG2015263-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG2014860-3 WG2014860-4								
Methylene chloride	92		91		70-130	1		20
1,1-Dichloroethane	100		98		70-130	2		20
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	100		94		63-132	6		20
1,2-Dichloropropane	99		98		70-130	1		20
Dibromochloromethane	90		92		63-130	2		20
1,1,2-Trichloroethane	87		91		70-130	4		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		96		62-150	4		20
1,2-Dichloroethane	94		96		70-130	2		20
1,1,1-Trichloroethane	97		94		67-130	3		20
Bromodichloromethane	96		97		67-130	1		20
trans-1,3-Dichloropropene	91		96		70-130	5		20
cis-1,3-Dichloropropene	99		96		70-130	3		20
Bromoform	83		88		54-136	6		20
1,1,2,2-Tetrachloroethane	78		84		67-130	7		20
Benzene	99		95		70-130	4		20
Toluene	97		98		70-130	1		20
Ethylbenzene	98		98		70-130	0		20
Chloromethane	64		56	Q	64-130	13		20
Bromomethane	110		120		39-139	9		20
Vinyl chloride	85		78		55-140	9		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG2014860-3 WG2014860-4								
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	95		91		61-145	4		20
trans-1,2-Dichloroethene	100		97		70-130	3		20
Trichloroethene	94		88		70-130	7		20
1,2-Dichlorobenzene	96		98		70-130	2		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	96		98		70-130	2		20
Methyl tert butyl ether	89		96		63-130	8		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	97		96		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	47		41		36-147	14		20
Acetone	71		86		58-148	19		20
Carbon disulfide	96		91		51-130	5		20
2-Butanone	83		88		63-138	6		20
4-Methyl-2-pentanone	78		88		59-130	12		20
2-Hexanone	79		89		57-130	12		20
Bromochloromethane	88		89		70-130	1		20
1,2-Dibromoethane	91		96		70-130	5		20
1,2-Dibromo-3-chloropropane	78		84		41-144	7		20
Isopropylbenzene	94		91		70-130	3		20
1,2,3-Trichlorobenzene	87		96		70-130	10		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG2014860-3 WG2014860-4								
1,2,4-Trichlorobenzene	93		98		70-130	5		20
Methyl Acetate	73		82		70-130	12		20
Cyclohexane	99		91		70-130	8		20
1,4-Dioxane	90		102		56-162	13		20
Freon-113	100		96		70-130	4		20
Methyl cyclohexane	110		91		70-130	19		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		112		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	89		90		70-130
Dibromofluoromethane	111		109		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG2015263-3 WG2015263-4								
Methylene chloride	87		87		70-130	0		20
1,1-Dichloroethane	81		80		70-130	1		20
Chloroform	86		85		70-130	1		20
Carbon tetrachloride	83		81		63-132	2		20
1,2-Dichloropropane	81		80		70-130	1		20
Dibromochloromethane	92		93		63-130	1		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	98		99		70-130	1		20
Chlorobenzene	96		97		75-130	1		20
Trichlorofluoromethane	83		81		62-150	2		20
1,2-Dichloroethane	76		77		70-130	1		20
1,1,1-Trichloroethane	83		81		67-130	2		20
Bromodichloromethane	83		82		67-130	1		20
trans-1,3-Dichloropropene	85		86		70-130	1		20
cis-1,3-Dichloropropene	84		83		70-130	1		20
Bromoform	86		90		54-136	5		20
1,1,2,2-Tetrachloroethane	91		96		67-130	5		20
Benzene	86		85		70-130	1		20
Toluene	93		94		70-130	1		20
Ethylbenzene	91		92		70-130	1		20
Chloromethane	69		69		64-130	0		20
Bromomethane	110		110		39-139	0		20
Vinyl chloride	80		80		55-140	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG2015263-3 WG2015263-4								
Chloroethane	98		96		55-138	2		20
1,1-Dichloroethene	92		92		61-145	0		20
trans-1,2-Dichloroethene	94		93		70-130	1		20
Trichloroethene	92		89		70-130	3		20
1,2-Dichlorobenzene	95		100		70-130	5		20
1,3-Dichlorobenzene	97		100		70-130	3		20
1,4-Dichlorobenzene	95		99		70-130	4		20
Methyl tert butyl ether	80		80		63-130	0		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	93		93		70-130	0		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	60		58		36-147	3		20
Acetone	73		75		58-148	3		20
Carbon disulfide	86		83		51-130	4		20
2-Butanone	83		87		63-138	5		20
4-Methyl-2-pentanone	71		75		59-130	5		20
2-Hexanone	69		72		57-130	4		20
Bromochloromethane	99		97		70-130	2		20
1,2-Dibromoethane	92		94		70-130	2		20
1,2-Dibromo-3-chloropropane	88		90		41-144	2		20
Isopropylbenzene	88		92		70-130	4		20
1,2,3-Trichlorobenzene	89		92		70-130	3		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG2015263-3 WG2015263-4								
1,2,4-Trichlorobenzene	90		92		70-130	2		20
Methyl Acetate	77		73		70-130	5		20
Cyclohexane	77		76		70-130	1		20
1,4-Dioxane	64		66		56-162	3		20
Freon-113	89		89		70-130	0		20
Methyl cyclohexane	86		86		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		86		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	98		97		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

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): 01-04,06-07 QC Batch ID: WG2014860-8 WG2014860-9 QC Sample: L2475849-01 Client ID: GZ-21D												
Methylene chloride	ND	10	9.7	97		9.4	94		70-130	3		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	11	110		10	100		63-132	10		20
1,2-Dichloropropane	ND	10	10	100		10	100		70-130	0		20
Dibromochloromethane	ND	10	9.2	92		9.1	91		63-130	1		20
1,1,2-Trichloroethane	ND	10	9.3	93		9.2	92		70-130	1		20
Tetrachloroethene	ND	10	11	110		11	110		70-130	0		20
Chlorobenzene	ND	10	10	100		10	100		75-130	0		20
Trichlorofluoromethane	ND	10	11	110		10	100		62-150	10		20
1,2-Dichloroethane	73	10	84	110		83	100		70-130	1		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		9.2	92		70-130	0		20
cis-1,3-Dichloropropene	ND	10	9.5	95		9.2	92		70-130	3		20
Bromoform	ND	10	8.5	85		8.3	83		54-136	2		20
1,1,2,2-Tetrachloroethane	ND	10	8.0	80		8.1	81		67-130	1		20
Benzene	0.37J	10	11	110		10	100		70-130	10		20
Toluene	ND	10	10	100		10	100		70-130	0		20
Ethylbenzene	ND	10	10	100		9.9	99		70-130	1		20
Chloromethane	ND	10	6.1	61	Q	6.0	60	Q	64-130	2		20
Bromomethane	ND	10	12	120		11	110		39-139	9		20
Vinyl chloride	1.7	10	10	83		10	83		55-140	0		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

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): 01-04,06-07 QC Batch ID: WG2014860-8 WG2014860-9 QC Sample: L2475849-01 Client ID: GZ-21D												
Chloroethane	ND	10	13	130		13	130		55-138	0		20
1,1-Dichloroethene	ND	10	10	100		9.9	99		61-145	1		20
trans-1,2-Dichloroethene	1.9J	10	12	120		12	120		70-130	0		20
Trichloroethene	ND	10	9.5	95		9.6	96		70-130	1		20
1,2-Dichlorobenzene	ND	10	9.8	98		9.6	96		70-130	2		20
1,3-Dichlorobenzene	ND	10	10	100		9.7	97		70-130	3		20
1,4-Dichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
Methyl tert butyl ether	0.56J	10	10	100		10	100		63-130	0		20
p/m-Xylene	ND	20	21	105		20	100		70-130	5		20
o-Xylene	ND	20	21	105		20	100		70-130	5		20
cis-1,2-Dichloroethene	110	10	120	100		120	100		70-130	0		20
Styrene	ND	20	20	100		20	100		70-130	0		20
Dichlorodifluoromethane	ND	10	3.5J	35	Q	3.4J	34	Q	36-147	3		20
Acetone	ND	10	8.0	80		9.5	95		58-148	17		20
Carbon disulfide	ND	10	10	100		9.8	98		51-130	2		20
2-Butanone	ND	10	8.8	88		8.8	88		63-138	0		20
4-Methyl-2-pentanone	ND	10	8.6	86		8.9	89		59-130	3		20
2-Hexanone	ND	10	8.6	86		8.8	88		57-130	2		20
Bromochloromethane	ND	10	9.8	98		9.6	96		70-130	2		20
1,2-Dibromoethane	ND	10	9.4	94		9.5	95		70-130	1		20
1,2-Dibromo-3-chloropropane	ND	10	7.3	73		7.9	79		41-144	8		20
Isopropylbenzene	ND	10	9.6	96		9.0	90		70-130	6		20
1,2,3-Trichlorobenzene	ND	10	9.2	92		8.7	87		70-130	6		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: WAVERLY

Project Number: 28012

Lab Number: L2475849

Report Date: 12/31/24

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): 01-04,06-07 QC Batch ID: WG2014860-8 WG2014860-9 QC Sample: L2475849-01 Client ID: GZ-21D												
1,2,4-Trichlorobenzene	ND	10	9.5	95		9.2	92		70-130	3		20
Methyl Acetate	ND	10	7.4	74		7.3	73		70-130	1		20
Cyclohexane	ND	10	10	100		9.8J	98		70-130	2		20
1,4-Dioxane	ND	500	500	100		520	104		56-162	4		20
Freon-113	ND	10	10	100		9.9	99		70-130	1		20
Methyl cyclohexane	ND	10	10	100		9.1J	91		70-130	9		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
4-Bromofluorobenzene	87		87		70-130
Dibromofluoromethane	114		116		70-130
Toluene-d8	101		102		70-130

Project Name: WAVERLY**Lab Number:** L2475849**Project Number:** 28012**Report Date:** 12/31/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475849-01A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01A1	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01A2	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01B1	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01B2	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01C1	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-01C2	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-02A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-02B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-02C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-03A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-03B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-03C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-04A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-04B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-04C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-05A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-05B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-05C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-06A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-06B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475849-06C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-07A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L2475849-07B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)

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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.

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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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

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Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.
- 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.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **23**Published Date: **12/09/2024**Page **1** of **1****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****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).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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, EPA 537.1.****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 Project Manager.

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