Sterling Environmental Engineering, P.C.

December 7, 2016

Mr. Daniel Lanners
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7014

Subject: Former M. Argueso and Company, Inc.
441 & 442 Waverly Avenue, Mamaroneck, NY
Site #C360108
2nd Biannual 2016 Groundwater Monitoring Results
STERLING File #28012 (Task 995)

Dear Mr. Lanners,

The second 2016 biannual groundwater sampling event for the above-referenced site was conducted by Sterling Environmental Engineering, P.C. (STERLING) on October 12, 2016. This sampling 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 and April 29, 2015.

Background

In June 2013, Hydrogen Release Compound (HRC) was injected into the subsurface surrounding wells GZ-22D and GZ-23D. Quarterly monitoring was conducted for one year after the injections were completed. Biannual monitoring was approved by the NYSDEC starting in 2015.

This report presents the second biannual groundwater monitoring results for 2016.

Groundwater Monitoring

Four (4) onsite and two (2) offsite monitoring wells were sampled via peristaltic pump and analyzed for Part 375 Volatile Organic Compounds (VOCs). Figure 1, showing the well locations, is attached. The Daily Field Report and Sampling Data Sheets are also attached.

Results of the laboratory analyses are contained in Table 1, attached. Laboratory results and the Data Usability Summary Report (DUSR) are also attached. The results are compared to Part 703.5 Groundwater Standards and NYSDEC TOGS 1.1.1 Water Quality Standards and Guidance Values.

Since the injections, levels of Total VOCs have decreased in monitoring wells B6-OWD, GZ-21D, GZ-22D, GZ-23D, and OSMW-4, as shown on the chart in Figure 1.

The following discussion details the trends in each well:

B6-OWD

Initially, levels of several VOCs increased in this well. During the five (5) most recent events (since 2014), levels of all VOCs in this well have decreased to below standards.

GZ-21D

Initially, levels of several VOCs increased in this well. During the most recent event, levels of all VOCs in this well have decreased to below standards with the exception of 1,2-Dichloroethane and Vinyl chloride. VOC levels in this well have been consistent over the past three (3) events.

GZ-22D

PCE and TCE levels in this well have decreased to below standards for the four most recent events. All other VOCs have decreased to levels below standards with the exception of 1,2-Dichloroethane, Benzene, Vinyl chloride, and trans-1,2-Dichloroethene. These VOCs have remained relatively level for the past three events.

GZ-23D

Both PCE and TCE concentrations decreased significantly through 2014. TCE concentrations have gradually increased since the end of 2014 and PCE concentrations have fluctuated. Vinyl chloride, a daughter compound of PCE and TCE, increased following the injections, and has decreased since 2014. Both cis-1,2-Dichloroethene and trans-1,2-Dichloroethene increased following the injections, and remain above standards.

Offsite Wells

Offsite wells OSMW-3 and OSMW-4 were installed upgradient of the site wells to determine upgradient groundwater conditions. These well installations are upgradient of the treatment zone and may not reflect the same decreasing levels of VOCs observed onsite.

OSMW-3

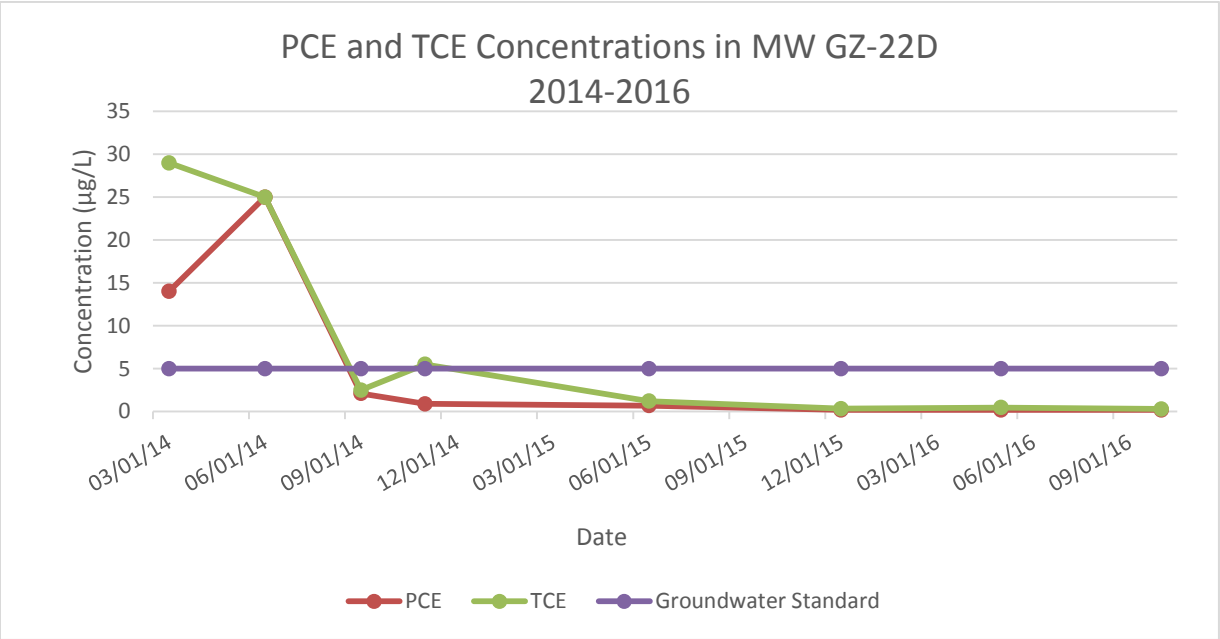
Both PCE and TCE levels increased following the injections however both compounds have been decreasing for the four (4) most recent events. The levels of PCE and TCE remain above standards. Cis-1,2-Dichloroethene also increased, and has been decreasing in the five (5) most recent events. 1,2-Dichloroethane and trans-1,2-Dichloroethene are above standards for this event.

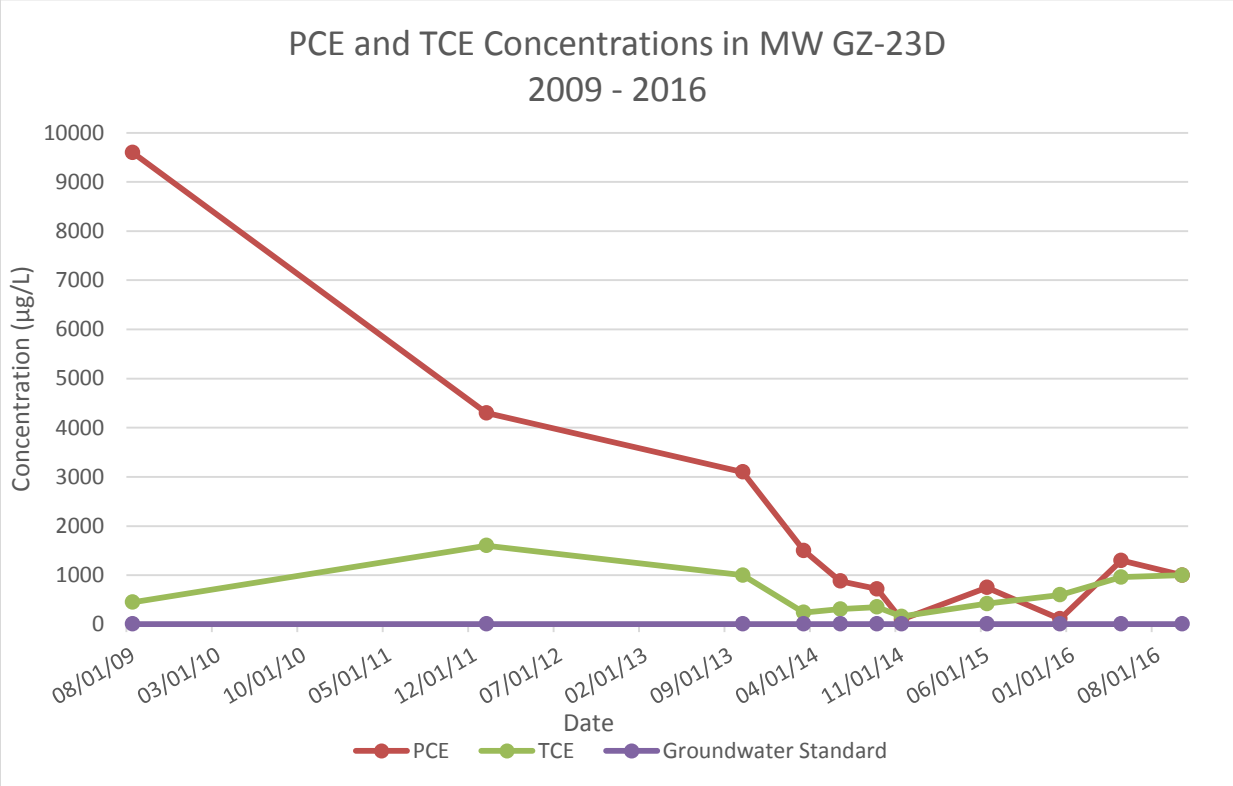
OSMW-4

All VOCs were below standards for both events in 2016 with the exception of one exceedance of Benzene at 1.2 µ/L, which was slightly above the 1.0 µ/L groundwater standard during the May 2016 monitoring event.

The charts below depict the levels of PCE and TCE in wells GZ-22D and GZ-23D over time.

Initially, wells GZ-22D and GZ-23D contained the highest concentrations of PCE and TCE of the onsite wells and were therefore chosen for treatment.





Groundwater Flow

Figure 1 depicts groundwater flow in a northeasterly direction in the area of the monitoring wells.

Inspections

In accordance with the SMP, a comprehensive annual site-wide inspection and asphalt and soil cover system inspection were conducted on October 12, 2016. The asphalt and soil cover system was observed to be in good to excellent condition and no major cracks or deficiencies were noted. The slab cover at 441 Waverly Avenue was observed to be in acceptable condition. Some floor tiles are missing; however, the slab is still intact with no cracks present. Details of the inspection will be included in the Periodic Review Report (PRR) for 2016. The next site-wide asphalt and soil cover inspection will be conducted during the second bi-annual groundwater monitoring event in 2017.

Conclusions and Recommendations

A review of the groundwater monitoring data since the injections occurred indicates an overall decrease in the level of VOCs in all wells. An increase in the TCE concentration was reported at GZ-23D, however levels of this compound remains lower than initial concentrations prior to the injections. Therefore, the remedy continues to achieve remedial goals at this site. STERLING recommends groundwater monitoring continue on a biannual schedule and will conduct the next biannual sampling event in the first half of 2017.

As the VOC levels in B6-OWD and OSMW-4 have consistently been reported at levels below standards, STERLING recommends that sampling of those two wells be discontinued.

Please contact me should you have any questions.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Mark P. Millspaugh, P.E.
President
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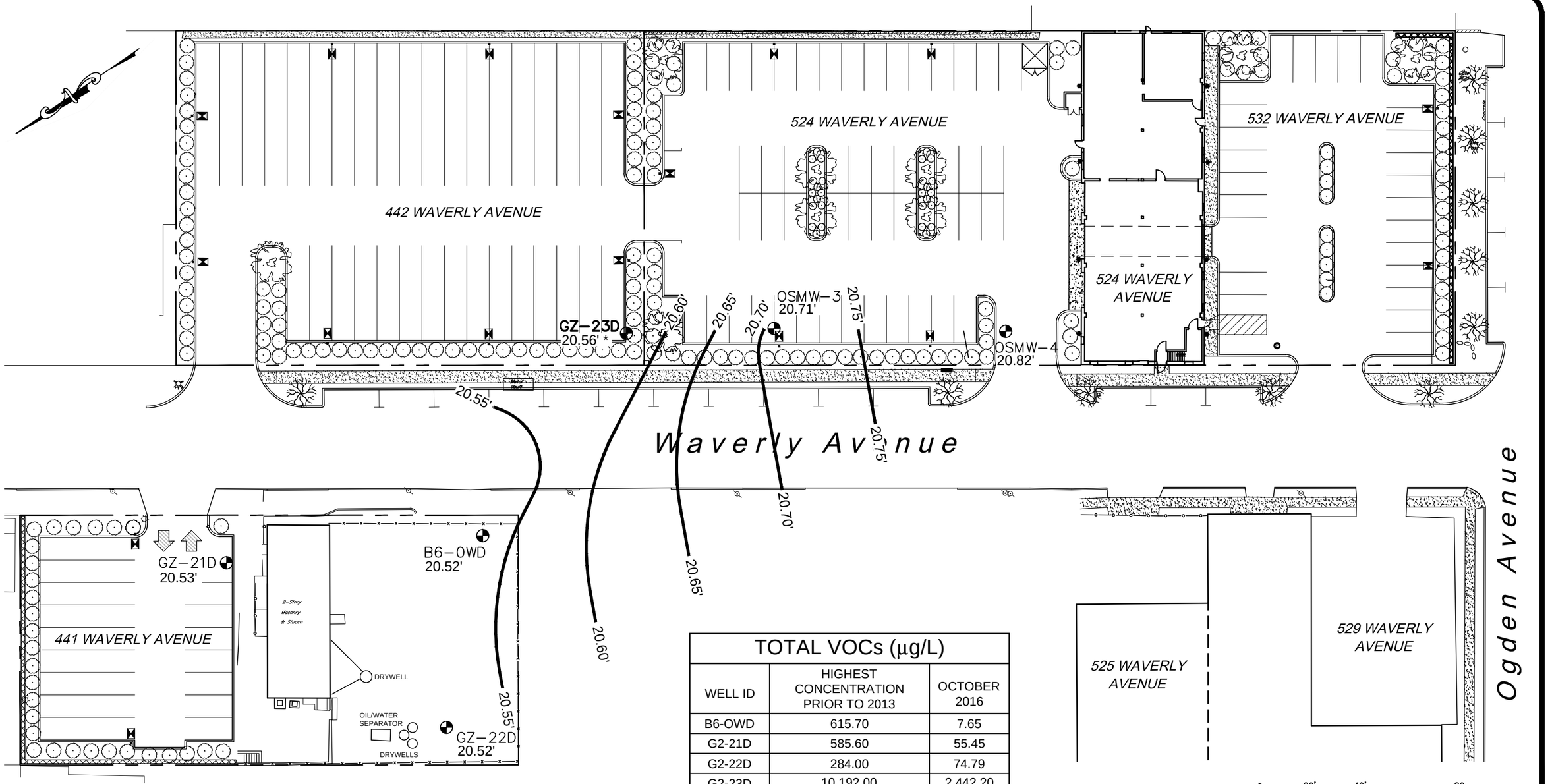
MPM/bc
Email/First Class Mail
Attachments

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

FIGURE



TOTAL VOCs (µg/L)		
WELL ID	HIGHEST CONCENTRATION PRIOR TO 2013	OCTOBER 2016
B6-OWD	615.70	7.65
G2-21D	585.60	55.45
G2-22D	284.00	74.79
G2-23D	10,192.00	2,442.20
OSMW-3	900.10	781.20
OSMW-4	1,106.00	3.83

LEGEND:

- GROUNDWATER CONTOUR (OCTOBER 12, 2016)
- MONITORING WELL
- PROPERTY BOUNDARY
- LIGHT POLE
- CONCRETE SIDEWALK
- FENCE

* MEASURED GW ELEVATION ADJUSTED +0.31' TO ACCOUNT FOR 30° BEND IN MONITORING WELL

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

FIGURE 1

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

GROUNDWATER CONTOUR MAP
OCTOBER 12, 2016
SITE# C360108
NEW WAVERLY AVENUE ASSOCIATES, LLC
V/T OF MAMARONECK WESTCHESTER CO., N.Y.

PROJ. No.:	28012	DATE:	10/31/2016	SCALE:	1" = 40'	DWG. NO.	28012097	FIGURE	1

S:\Drawings\28012 - 441 & 442 Waverly Avenue\28012097_F-1 - GW Elev 10-2016.dwg SWEETT 11/1/2016 1:10 PM

TABLES

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

Location			441 Waverly Avenue																												
Sample ID		Water Quality Standard*	GZ-21D												DUP-1 [4]	DUP-1 [10]	GZ-22D												DUP-1 [2]	DUP-1 [1]	
Unit		µg/L	µg/L												µg/L	µg/L	µg/L												ug/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		06/18/14	10/12/16	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		03/24/14	10/15/13	
Parameter *Volatile Organic Compounds:*	CAS#																														
1,1-Dichloroethane	75-34-3	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.38	<0.70	<0.70	<0.70	<0.70		<4.0	<0.70	<5.0	<5.0	<5.0	<25	<25	<1.0	<0.38	<0.70	<0.70	<0.70	<0.70		<25	<0.5	
1,1-Dichloroethene	75-35-4	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.29	<0.14	<0.14	<0.14	<0.17		<4.0	<0.17	<5.0	<5.0	<5.0	<25	<25	<1.0	<0.29	<0.14	<0.14	<0.14	<0.17		<25	<0.5	
1,2,3-Trichlorobenzene	87-61-6	5.0	<5.0	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70		NA	<0.70	<5.0	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70		NA	NA	
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70		NA	<0.70	<5.0	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70		NA	NA	
1,2-Dichloroethane	107-06-2	0.6	**170** D	**5.3**	<5.0	**190** D	**190**	**4.1**	0.4 J	**54**	**55**	**28**	**48**		**190**	**56**	**22**	**17**	**16**	**24** J	<25	**1.3**	**0.64** J	**5.4**	**14**	**15**	**18**		**22** J	**16**	
cis-1,2-Dichloroethene	156-59-2	5.0	**270** D	**10**	**7.6**	**310** D	**290**	**5.6**	<0.81	**100**	<0.70	0.83 J	3.5		**350**	2.9	**8.4**	**6.5**	**12**	**110**	<25	1.9	1.7	4.5	**6.8**	**5.2**	3.5		**100**	**12**	
trans-1,2-Dichloroethene	156-60-5	5.0	**6.6**	<5.0	<5.0	3.8	<5.0	<1.0	<0.9	0.99 J	0.86 J	<0.70	0.81 J		<4.0	0.75 J	<5.0	1.3 J	4.2 J	<25	<25	**5.8**	**5.5**	**9.4**	**21**	**28**	**40**		<25	4.4 J	
2-Butanone (MEK)	78-93-3	50 GV	<5.0	<5.0	<5.0	<10	<50	<10	<1.3	2.5 J	<1.9	<1.9	<1.9		<40	<1.9	<5.0	<5.0	<5.0	<250	**1400**	**190**	12	<1.9	<1.9	<1.9	<1.9		<250	<5.0	
Acetone	67-64-1	50 GV	<50.0	<5.0	<5.0	<10	<50	<10	<3.0	20	4.4 J	<1.5	7.1 U		<40	4.5 U,J	<50.0	<5.0	<5.0	<250	**370** J	**270**	**51**	2.4 J	2.0 J	<1.5	8.3 U		<250	<5.0	
Benzene	71-43-2	1.0	**61**	<5.0	<5.0	**8.2**	<5.0	<1.0	<0.41	**1.2**	1.0	<0.16	0.84		<4.0	0.79	**2.6** J	**1.3** J	**1.2** J	<25	<25	**1.6**	**1.7**	**2.2**	**1.9**	**2.3**	**2.2**		<25	**1.2** J	
n-Butylbenzene	104-51-8	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.64	NA	NA	NA	NA		<4.0	NA	<5.0	<5.0	<5.0	<25	<25	<1.0	<0.64	NA	NA	NA	NA		<25	<5.0	
sec-Butylbenzene	135-98-8	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.75	NA	NA	NA	NA		<4.0	NA	1.2 J	<5.0	<5.0	<25	<25	<1.0	<0.75	NA	NA	NA	NA		<25	<5.0	
tert-Butylbenzene	98-06-6	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.81	NA	NA	NA	NA		<4.0	NA	<5.0	<5.0	<5.0	<25	<25	<1.0	<0.81	NA	NA	NA	NA		<25	<5.0	
Carbon disulfide	75-15-0	---	<5.0	NA	NA	NA	NA	NA	NA	4.2 J	2.0 J	<1.0	<1.0		NA	<1.0	<5.0	NA	NA	<25	NA	NA	NA	<1.0	<1.0	<1.0	<1.0		NA	NA	
Ethylbenzene	100-41-4	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.74	<0.70	<0.70	<0.70	<0.70		<4.0	<0.70	<5.0	<5.0	<5.0	<25	<25	<1.0	<0.74	<0.70	<0.70	<0.70	<0.70		<25	<5.0	
Hexachlorobutadiene	87-68-3	0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	<5.0	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA		NA	NA	
Isopropylbenzene	98-82-8	5.0	<5.0	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70		NA	<0.70	1.5 J	NA	NA	<25	NA	NA	NA	<0.70	<0.70	<0.70	<0.70		NA	NA	
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	<5.0	<5.0	<5.0	0.27 J	<5.0	<1.0	<0.16	<0.70	<0.70	<0.70	<0.7		<4.0	<0.70	**14**	**31**	**42**	**34**	**25**	**33**	**25**	**16**	**14**	**12**	7.7		**36**	**43**	
n-Propylbenzene	103-65-1	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.64	NA	NA	NA	NA		<4.0	NA	4.4 J	<5.0	<5.0	<25	<25	<1.0	<0.69	NA	NA	NA	NA		<25	<5.0	
Tetrachloroethene	127-18-4	5.0	**41**	1.7 J	<5.0	**9.8**	3.4 J	0.89 J	1.0	0.18 J	<0.18	<0.18	<0.18		2.9 J	<0.18	**120**	**97**	**62**	**14** J	<25	2.1	0.88 J	0.69	<0.18	<0.18	<0.18		**21** J	**60**	
Trichloroethene	79-01-6	5.0	**33**	0.58 J	<5.0	**7.8**	**15**	0.82 J	2.3	<0.18	<0.18	<0.18	<0.18		**13**	<0.18	**110**	**92**	**89**	**29**	<25	2.5	**5.5**	1.2	0.33 J	0.46 J	0.29 J		**34**	**88**	
Toluene	108-88-3	5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<1.0	<0.51	<0.70	<0.70	<0.70	<0.70		<4.0	<0.70	<5.0	<5.0	<5.0	<25	<25	<1.0	<0.51	<0.70	<0.70	<0.70	<0.70		<25	<5.0	
Vinyl chloride	75-01-4	2.0	**4** J	<5.0	<5.0	**4.3**	<5.0	<1.0	<0.90	1.7	<0.07	0.43 J	**2.3**		<4.0	**2.8**	<5.0	<5.0	<5.0	<25	<25	<1.0	<0.9	1.8	**6.5**	**5.7**	**3.1**		<25	<5.0	

Notes:

BOLD Indicates exceedance of groundwater standard
* Groundwater Standards are obtained from Title 6 Part 703.5, and Guidance Values (GV) are obtained from NYSDEC TOGS (1.1.1) "Ambient Water Quality Standards and Guidance Values".
< Indicates the parameter was not detected at the laboratory detection limit shown.
NA Not Analyzed.
--- No standard or not applicable.

[1], [2] DUP-1 samples collected from monitoring well location GZ-22D.
[3] DUP-1 samples collected from offsite monitoring well location OSMW-4.
[4] DUP-1 samples collected from monitoring well location GZ-21D.
[5] DUP-1 samples collected from monitoring well location OSMW-4.
[6] DUP-1 samples collected from monitoring well location OSMW-3
[7] DUP-1 samples collected from monitoring well location OSMW-4.
[8] DUP-1 samples collected from monitoring well location B6-OWD.
[9] DUP-1 samples collected from monitoring well location OSMW-4.
[10] DUP-1 samples collected from monitoring well location GZ-21D.

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.

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

Location			442 Waverly Avenue											441 Waverly Avenue										
Well ID		Water Quality Standard*	GZ-23D											B6-OWD										DUP-1 [8]
Unit		µg/L	µg/L											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	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	12/16/15
Parameter *Volatile Organic Compounds*	CAS#																							
1,1-Dichloroethane	75-34-3	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<7.6	<7.0	<14	<7.0	<18	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<3.0	<0.70	<0.70	<0.70	<0.70	<0.70
1,1-Dichloroethene	75-35-4	5.0	**5.5**	1.6 J	<100	1.7	<20	<20	<5.8	1.9 J	<2.8	<1.4	<4.2	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<2.3	<0.14	<0.14	<0.14	<0.17	<0.14
1,2,3-Trichlorobenzene	87-61-6	5.0	<5.0	NA	NA	NA	NA	NA	NA	<7.0	<14	<7.0	<18	NA	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70	<0.70
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	NA	NA	NA	NA	NA	NA	<7.0	<14	<7.0	<18	NA	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70	<0.70
1,2-Dichloroethane	107-06-2	0.6	**13**	**9**	<100	**7.8**	**6.6** J	**7.6** J	<4.2	**3.6** J	<2.6	**4.3** J	**4.2** J	**9.7**	<5.0	**1.9** J	**2.8**	**8.0**	**9.1**	<1.7	0.36 J	<0.13	0.31 J	0.32 J	<0.13
cis-1,2-Dichloroethene	156-59-2	5.0	**10**	**780** D	**380**	**2200** D	**930**	**1100**	**1100**	**780**	**1000** j	**400**	**320**	**390** D	1.5 J	**76**	**180** D	**330**	**430** D	<6.5	1.3 J	1.1 J	2.4 J	2.1 J	1.2 J
trans-1,2-Dichloroethene	156-60-5	5.0	<5.0	**9.1**	<100	**41**	<20	<20	**18** J	**22** J	**37** J j	**32**	**36** J	**150**	<5.0	**6.8**	**7.2**	**8.4**	**14**	<7.2	<0.70	<0.70	<0.70	<0.70	<0.70
2-Butanone (MEK)	78-93-3	50 GV	<5.0	<5.0	**260**	46	**190** J	**770**	37 J	20 J	<39	<19	<48	<5.0	<5.0	<5.0	<10	<40	<40	<11	<1.9	<1.9	<1.9	<1.9	<1.9
Acetone	67-64-1	50 GV	<50.0	**200**	<100	9.8 J	**81** J	**480**	<60	19 J	<29	<15	<36	<50.0	<5.0	<5.0	<10	<40	<40	<24	<1.5	<1.5	<1.5	6.7 U	<1.5
Benzene	71-43-2	1.0	**11**	**4** J	<100	**2.7**	<20	<20	<8.2	**3.2** J	<3.2	**2.8** J	<4.0	<5.0	0.51 J	<5.0	<1.0	<4.0	<4.0	<3.3	0.38 J	0.28 J	0.28 J	0.65	0.29 J
n-Butylbenzene	104-51-8	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<13	NA	NA	NA	NA	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<5.1	NA	NA	NA	NA	NA
sec-Butylbenzene	135-98-8	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<15	NA	NA	NA	NA	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<6.0	NA	NA	NA	NA	NA
tert-Butylbenzene	98-06-6	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<16	NA	NA	NA	NA	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<6.5	NA	NA	NA	NA	NA
Carbon disulfide	75-15-0	---	<5.0	NA	NA	NA	NA	NA	NA	<10	<20	<10	<25	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<15	<7.0	<14	<7.0	<18	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<5.9	<0.70	<0.70	<0.70	<0.70	<0.70
Hexachlorobutadiene	87-68-3	0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	98-82-8	5.0	<5.0	NA	NA	NA	NA	NA	<7.0	<7.0	<14	<7.0	<18	NA	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70	<0.70
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	2.1 J	1.6 J	<100	<1.0	<20	<20	<3.2	<7.0	<14	<7.0	<18	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<1.3	<0.70	<0.70	<0.70	<0.70	<0.70
n-Propylbenzene	103-65-1	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<14	NA	NA	NA	NA	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<5.5	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	5.0	**9700** D	**4300** D	**3100**	**1500** D	**880**	**720**	**94**	**750**	**110** j	**1300**	**1000**	**23**	**6.2**	**18**	**59**	**47**	**110**	<2.9	2.4	2.1	2.4	2.6	2.2
Trichloroethene	79-01-6	5.0	**450** DJ	**1600** D	**1000**	**240** D	**310**	**350**	**160**	**420**	**600** j	**960**	**1000**	**43**	2.1 J	**41**	**170** D	**180**	**330**	<3.7	1.3	1.4	1.7	1.7	1.4
Toluene	108-88-3	5.0	<5.0	<5.0	<100	<1.0	<20	<20	<10	<7.0	<14	<7.0	<18	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<4.1	<0.70	<0.70	<0.70	<0.70	<0.70
Vinyl chloride	75-01-4	2.0	<5.0	1.2 J	**28** J	**200** D	**250**	**390**	**320**	**230** j	<1.4	**200**	**82**	<5.0	<5.0	<5.0	<1.0	<4.0	<4.0	<7.2	<0.07	<0.07	0.27 J	0.28 J	<0.07

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 the laboratory detection limit shown.
NA Not Analyzed.
--- No standard or not applicable.

[1], [2] DUP-1 samples collected from monitoring well location GZ-22D.
[3] DUP-1 samples collected from offsite monitoring well location OSMW-4.
[4] DUP-1 samples collected from monitoring well location GZ-21D.
[5] DUP-1 samples collected from monitoring well location OSMW-4.
[6] DUP-1 samples collected from monitoring well location OSMW-3
[7] DUP-1 samples collected from monitoring well location OSMW-4.
[8] DUP-1 samples collected from monitoring well location B6-OWD.
[9] DUP-1 samples collected from monitoring well location OSMW-4.
[10] DUP-1 samples collected from monitoring well location GZ-21D.

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.

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

Location			Offsite Monitoring Wells																									
Well ID		**Water Quality Standard***	**OSMW-3**										**DUP-1 [6]**	**OSMW-4**										**DUP-1 [9]**	**DUP-1 [5]**	**DUP-1 [3]**	**DUP-1 [7]**
Unit		**µg/L**	**µg/L**										**µg/L**	**µg/L**										**µg/L**	**µg/L**	**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**	**11/05/14**	**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**	**05/12/16**	**09/24/14**	**01/10/12**	**06/24/15**
Parameter																												
Volatile Organic Compounds	CAS#																											
1,1-Dichloroethane	75-34-3	5.0	<5.0	<80	<1.0	<20	<20	<19	<14	<28	<3.5	<0.70	<0.38	<5.0	<5.0	<25	<25	<1.0	<0.38	<0.70	<0.70	<0.70	<0.70	<0.70	<1.0	<5.0	<0.70
1,1-Dichloroethene	75-35-4	5.0	<5.0	<80	<1.0	<20	<20	<15	<2.8	<5.7	<0.71	<1.7	1.4	<5.0	<5.0	<25	<25	<1.0	<0.29	<0.14	<0.14	<0.14	<0.17	<0.14	<1.0	<5.0	<0.14
1,2,3-Trichlorobenzene	87-61-6	5.0	NA	NA	NA	NA	NA	NA	<14	<28	<3.5	<0.70	NA	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70	<0.70	NA	NA	<0.70
1,2,4-Trichlorobenzene	120-82-1	5.0	NA	NA	NA	NA	NA	NA	<14	<28	<3.5	<0.70	NA	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70	<0.70	NA	NA	<0.70
1,2-Dichloroethane	107-06-2	0.6	**4.4** J	<80	**4.7**	<20	<20	<11	<2.6	<5.3	**3.8**	**4.2** J	**3.5**	**1.1** J	<5.0	<25	<25	<1.0	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<1.0	**1.1** J	<0.13
cis-1,2-Dichloroethene	156-59-2	5.0	**14**	**31** J	**46**	**100**	**220**	**210**	**180**	**120** j	**92**	**63**	**210** D	**29**	3.8 J	<25	<25	**6.2**	**6.0**	1.2 J	<0.70	<0.70	<0.70	<0.70	**5.2**	**29**	1.2 J
trans-1,2-Dichloroethene	156-60-5	5.0	1.7 J	<80	3.7	<20	**28**	<45	**25** J	<28	**21**	**14** J	**26**	**6.9**	1 J	<25	<25	<1.0	<0.9	<0.70	<0.70	<0.70	<0.70	<0.70	<1.0	**7.2**	<0.70
2-Butanone (MEK)	78-93-3	50 GV	<5.0	<5.0	<10	<200	<200	<66	46 J	<78	<9.7	<19	<1.3	<5.0	<5.0	<250	<250	<1.0	<1.3	<1.9	<1.9	<1.9	<1.9	<1.9	<10	<5.0	<1.9
Acetone	67-64-1	50 GV	<5.0	<80	<10	<200	<200	<150	39 J	<58	<7.3	<15	<3.0	<5.0	<5.0	<250	<250	3.2 J	<3.0	<1.5	<1.5	<1.5	6.6 U	<1.5	3.0 J	<5.0	<1.5
Benzene	71-43-2	1.0	<5.0	<80	1	<20	<20	<21	<3.2	<6.4	<0.80	<1.6	**1.6**	**45**	<5.0	<25	<25	**2.8**	0.86 J	<0.16	0.38 J j	**1.2**	<0.16	**1.2**	**2.9**	**47**	<0.16
n-Butylbenzene	104-51-8	5.0	<5.0	<80	<1.0	<20	<20	<32	NA	NA	NA	NA	<0.64	<5.0	<5.0	<25	<25	<1.0	<0.64	NA	NA	NA	NA	NA	<1.0	<5.0	NA
sec-Butylbenzene	135-98-8	5.0	<5.0	<80	<1.0	<20	<20	<38	NA	NA	NA	NA	<0.75	1.5 J	<5.0	<25	<25	<1.0	<0.75	NA	NA	NA	NA	NA	<1.0	1.5 J	NA
tert-Butylbenzene	98-06-6	5.0	<5.0	<80	<1.0	<20	<20	<41	NA	NA	NA	NA	<0.81	<5.0	<5.0	<25	<25	<1.0	<0.81	NA	NA	NA	NA	NA	<1.0	<5.0	NA
Carbon disulfide	75-15-0	---	NA	NA	NA	NA	NA	NA	<20	<40	<5.0	<10	NA	NA	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	<1.0
Ethylbenzene	100-41-4	5.0	<5.0	<80	<1.0	<20	<20	<37	<14	<28	<3.5	<7.0	<0.74	<5.0	<5.0	<25	<25	<1.0	<0.74	<0.70	<0.70	<0.70	<0.70	<0.70	<1.0	<5.0	<0.70
Hexachlorobutadiene	87-68-3	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	98-82-8	5.0	NA	NA	NA	NA	NA	NA	<14	<28	<3.5	<7.0	<14	NA	NA	NA	NA	NA	NA	<0.70	<0.70	<0.70	<0.70	<0.70	NA	NA	<0.70
Methyl tert-butyl ether (MTBE)	1634-04-4	10 GV	<5.0	<80	0.4 J	<20	<20	<8.0	<14	<28	<3.5	<7.0	0.48 J	0.78 J	<5.0	<25	<25	0.57 J	0.59 J	<0.70	<0.70	<0.70	0.73 J	<0.70	0.63 J	<5.0	<0.70
n-Propylbenzene	103-65-1	5.0	<5.0	<80	<1.0	<20	<20	<35	NA	NA	NA	NA	<0.69	1.6 J	<5.0	<25	<25	<1.0	<0.69	NA	NA	NA	NA	NA	<1.0	1.7 J	NA
Tetrachloroethene	127-18-4	5.0	**760** D	**1900**	**2400** D	**1300**	**2600** D	**3400**	**1500**	**1200** j	**670**	**470**	**2900** D	**790** D	**11**	<25	<25	3.4	3.2	0.44 J	<0.18	0.2 J,j	2.0	0.19 J,j	3.4	**730** D	0.48 J
Trichloroethene	79-01-6	5.0	**120**	**280**	**330** D	**440**	**1000**	**1000**	**610**	**480** j	**290**	**230**	**900** D	**230** D	**15**	<25	<25	**6.0**	4.5	1.0	0.56	0.53	1.1	0.58	**5.5**	**220** D	1.1
Toluene	108-88-3	5.0	<5.0	<80	<1.0	<20	<20	<26	<14	<28	<3.5	<7.0	<0.51	<5.0	<5.0	<25	<25	<1.0	<0.51	<0.70	<0.70	<0.70	<0.70	<0.70	<1.0	0.67 J	<0.70
Vinyl chloride	75-01-4	2.0	<5.0	<80	<1.0	<20	<20	<45	<1.4 j	<2.8	0.44 J	<0.71	<0.9	<5.0	<5.0	<25	<25	<1.0	<0.9	<0.07 j	<0.07	<0.07	<0.07	<0.07	<1.0	<5.0	<0.07 j

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 the laboratory detection limit shown.
NA	Not Analyzed.
---	No standard or not applicable.
[1], [2]	DUP-1 samples collected from monitoring well location GZ-22D.
[3]	DUP-1 samples collected from offsite monitoring well location OSMW-4.
[4]	DUP-1 samples collected from monitoring well location GZ-21D.
[5]	DUP-1 samples collected from monitoring well location OSMW-4.
[6]	DUP-1 samples collected from monitoring well location OSMW-3
[7]	DUP-1 samples collected from monitoring well location OSMW-4.
[8]	DUP-1 samples collected from monitoring well location B6-OWD.
[9]	DUP-1 samples collected from monitoring well location OSMW-4.
[10]	DUP-1 samples collected from monitoring well location GZ-21D.

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.

DAILY FIELD REPORT

STERLING
Sterling Environmental Engineering, P.C.

DAILY FIELD REPORT

Project Name:	441/442 Waverly Avenue	**Project No.:**	28012
Client Name:	New Waverly Avenue Associates, LLC	**Date:**	October 12, 2016
Location:	441/442 Waverly Avenue, Mamaroneck, NY	**Weather:**	60°F, Partly Cloudy
Inspector:	Cody Sargood (CS); Sterling Environmental Engineering, P.C.		

Work Description, Comments, Discussion, Problems, Instructions:
Conduct groundwater sampling of offsite monitoring wells OSMW-3 and OSMW-4 and four (4) existing onsite deep monitoring wells GZ-21D, GZ-22D, GZ-23D and B6-OWD.

8:30 AM: CS arrives onsite. CS calibrates and sets up equipment at B6-OWD.

9:28 AM: CS begins low flow sampling procedure at B6-OWD. Water is very clear with no odor observed.

10:00 AM: CS samples B6-OWD using a peristaltic pump. CS also collects the MS/MSD QA/QC samples from B6-OWD.

10:20 AM: CS begins low flow sampling procedure at GZ-21D. Water is very clear with no odor observed. CS collects the duplicate sample from GZ-21D.

10:45 AM: CS samples GZ-21D using a peristaltic pump.

11:11 AM: CS begins low flow sampling procedure at OSMW-4. Water is observed to be very clear with a slight sulfur odor.

11:35 AM: CS samples OSMW-4 using a peristaltic pump.

11:51 AM: CS begins low flow sampling procedure at OSMW-3. Water is observed to be very clear with a slight solvent and sulfur odor.

12:10 PM: CS samples OSMW-3 using a peristaltic pump.

12:31 PM: CS begins low flow sampling procedure at GZ-22D. Water is observed to be very clear with a very slight solvent and sulfur odor.

1:00 PM: CS samples GZ-22D using a peristaltic pump.

1:16 PM: CS begins low flow sampling procedure at GZ-23D. Water is observed to be cloudy with a fairly strong solvent odor.

1:40 PM: CS samples GZ-23D using a peristaltic pump.

1:50 PM: CS re-calibrates sampling equipment.

2:15 PM: CS conducts annual site and slab inspection.

2:30 PM: CS departs site to deliver samples to the Alpha Analytical distribution center in Albany, New York.

Visitors (Name, Affiliation): _____

Signature: 

PURGING/SAMPLING DATA SHEETS

Purging / Sampling Data Sheet

Project: 28012
Site: 441 Waverly Avenue, Mamaroneck, NY
Well No.: B6-OWD
Date: October 12, 2016

Well Depth: 35.3 feet
Screen Length: N/A
Well Diameter: 2 inch
Casing Type: PVC

Sampling Device: Peristaltic Pump
Tubing Type: LDPE
Static Water Level: 9.84 feet
Measuring Point: Top of PVC

Sampling Personnel: Cody Sargood, Sterling Environmental Engineering, P.C.

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 0.33ft)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (mS/cm^c) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
9:28	0.100	9.84	0.00	6.46	18.8	1.35	206.2	1.64	7.982
9:31	0.075	9.85	0.01	6.48	18.9	1.36	209.7	1.36	9.032
9:34	0.100	9.85	0.00	6.49	18.9	1.36	212.8	1.35	10.83
9:37	0.100	9.85	0.00	6.49	18.9	1.35	213.8	1.35	8.117
9:40	0.100	9.86	0.01	6.51	18.8	1.34	214.9	1.34	8.592
9:43	0.100	9.86	0.00	6.51	18.8	1.32	217.7	0.40	6.018
9:46	0.100	9.86	0.00	6.51	18.8	1.32	216.8	0.38	11.83
9:49	0.100	9.87	0.01	6.51	18.8	1.32	217.3	0.37	6.173
		Total:	0.03						

Sample obtained at 10:00 am; Very clear, no odor observed. The MS/MSD QA/QC samples were collected at this sample location.

Purging / Sampling Data Sheet

Project:	28012	Site:	441 Waverly Avenue, Mamaroneck, NY
Well No.:	GZ-21D	Date:	October 12, 2016
Well Depth:	44.21 feet	Screen Length:	40-50 feet below grade surface
Well Diameter:	2 inch	Casing Type:	PVC
Sampling Device:	Peristaltic Pump	Tubing Type:	LDPE
Static Water Level:	8.85 feet	Measuring Point:	Top of PVC

Sampling Personnel: Cody Sargood, Sterling Environmental Engineering, P.C.

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 0.33ft)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (mS/cm^c) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
10:20	0.100	8.93	0.08	7.19	18.1	1.11	-64.2	1.37	15.82
10:23	0.125	8.96	0.03	7.20	18.1	1.12	-111.3	0.58	10.15
10:26	0.100	8.96	0.00	7.21	18.0	1.12	-124.5	0.47	6.638
10:29	0.100	8.97	0.01	7.21	18.0	1.13	-142.9	0.33	8.226
10:32	0.100	8.97	0.00	7.20	18.0	1.14	-148.3	0.31	8.588
10:35	0.100	8.97	0.00	7.21	18.0	1.14	-152.7	0.30	7.637
10:38	0.100	8.98	0.01	7.21	18.0	1.15	-155.6	0.25	7.826
		Total:	0.13						

Sample obtained at 10:45 am; Very clear, no odor observed. The duplicate sample was collected at this sample location.

Purging / Sampling Data Sheet

Project:	28012	Site:	441 Waverly Avenue, Mamaroneck, NY
Well No.:	GZ-22D	Date:	October 12, 2016
Well Depth:	45.35 feet	Screen Length:	40-45 feet below grade surface
Well Diameter:	2 inch	Casing Type:	PVC
Sampling Device:	Peristaltic Pump	Tubing Type:	LDPE
Static Water Level:	9.96 feet	Measuring Point:	Top of PVC

Sampling Personnel: Cody Sargood, Sterling Environmental Engineering, P.C.

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 0.33ft)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (mS/cm^c) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
12:31	0.125	10.01	0.05	7.15	18.1	0.81	-131.5	1.03	10.72
12:34	0.125	10.02	0.01	7.14	18.0	0.81	-133.3	0.52	13.10
12:37	0.150	10.02	0.00	7.14	18.0	0.81	-135.8	0.36	10.96
12:40	0.150	10.01	-0.01	7.14	17.9	0.81	-139.1	0.26	6.582
12:43	0.150	10.02	0.01	7.15	18.0	0.81	-149.8	0.20	7.196
12:46	0.150	10.01	-0.01	7.18	17.8	0.82	-157.1	0.15	5.092
12:49	0.150	10.01	0.00	7.20	17.9	0.82	-159.9	0.14	6.941
12:52	0.150	10.01	0.00	7.19	17.8	0.82	-160.3	0.13	8.088
		Total:	0.05						

Sample obtained at 1:00 pm; Very clear, very slight sulfur and solvent odor observed.

Purging / Sampling Data Sheet

Project:	28012	Site:	442 Waverly Avenue, Mamaroneck, NY
Well No.:	GZ-23D	Date:	October 12, 2016
Well Depth:	35.30 feet	Screen Length:	40-45 feet below grade surface
Well Diameter:	2 inches	Casing Type:	PVC
Sampling Device:	Peristaltic Pump	Tubing Type:	LDPE
Static Water Level:	10.79 feet	Measuring Point:	Top of PVC

Sampling Personnel: Cody Sargood, Sterling Environmental Engineering, P.C.

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 0.33ft)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (mS/cm^c) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
1:16	0.125	10.80	0.01	7.06	17.5	2.78	-105.7	1.00	387.6
1:19	0.125	10.80	0.00	7.00	17.6	2.78	-106.1	0.45	256.3
1:22	0.125	10.81	0.01	6.99	17.6	2.79	-105.2	0.32	289.4
1:25	0.125	10.82	0.01	6.98	17.6	2.78	-105.7	0.26	312.1
1:28	0.125	10.83	0.01	6.97	17.7	2.79	-106.4	0.22	264.3
1:31	0.125	10.84	0.01	6.97	17.6	2.78	-106.6	0.16	239.2
		Total:	0.05						

Note: Well has a 30 degree elbow in well. Depth to water and depth to bottom measurements on this form do not factor in the bend in riser. Please refer to the groundwater contour map for true groundwater elevation.

Sample obtained at 1:40 pm; Cloudy, fairly strong solvent odor observed.

Purging / Sampling Data Sheet

Project: 28012
Site: 524 Waverly Avenue, Mamaroneck, NY
Well No.: OSMW-3
Date: October 12, 2016

Well Depth: 39.4 feet
Screen Length: 29 – 39 feet below grade surface
Well Diameter: 1 inch
Casing Type: PVC

Sampling Device: Peristaltic Pump
Tubing Type: LDPE
Static Water Level: 9.79 feet
Measuring Point: Top of PVC

Sampling Personnel: Cody Sargood, Sterling Environmental Engineering, P.C.

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 0.33ft)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (mS/cm[c]) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
11:51	0.150	9.81	0.02	7.12	18.5	0.74	-57.0	0.67	12.10
11:53	0.150	9.82	0.01	7.10	18.1	0.73	-59.5	0.45	16.38
11:56	0.150	9.82	0.00	7.09	17.9	0.73	-63.1	0.38	10.64
11:59	0.100	9.83	0.01	7.08	17.7	0.73	-62.9	0.35	8.441
12:02	0.100	9.83	0.00	7.08	17.6	0.73	-64.3	0.34	8.982
12:05	0.150	9.84	0.01	7.08	17.5	0.73	-64.8	0.32	12.94
		Total:	0.05						

Sample obtained at 12:10 pm; Very clear, very slight solvent and sulfur odor observed.

Purging / Sampling Data Sheet

Project: 28012
Site: 524 Waverly Avenue, Mamaroneck, NY
Well No.: OSMW-4
Date: October 12, 2016

Well Depth: 35.62 feet
Screen Length: 25-35 feet below grade surface
Well Diameter: 1 inch
Casing Type: PVC

Sampling Device: Peristaltic Pump
Tubing Type: LDPE
Static Water Level: 10.02 feet
Measuring Point: Top of PVC

Sampling Personnel: Cody Sargood, Sterling Environmental Engineering, P.C.

Time	Pump Rate (L/min.)	Depth to Water (ft.)	Drawdown (< 0.33ft)	pH (± 0.1)	Temp. (°C) (± 3%)	SC (mS/cm^{c}) (± 3%)	ORP (mV) (± 10)	DO (mg/L) (± 10%)	Turbidity (nTu)(± 10%)
11:11	0.125	10.05	0.03	6.97	18.9	1.26	-116.3	0.87	14.77
11:14	0.125	10.08	0.03	6.90	18.9	1.27	-115.8	0.44	12.23
11:17	0.125	10.09	0.01	6.88	18.8	1.29	-113.5	0.34	15.16
11:20	0.125	10.10	0.01	6.85	18.7	1.31	-112.5	0.28	9.769
11:23	0.125	10.10	0.00	6.85	18.6	1.31	-112.3	0.24	9.311
11:26	0.125	10.11	0.01	6.85	18.6	1.31	-112.3	0.21	12.92
		Total:	0.09						

Sample obtained at 11:35 am; Very clear, slight sulfur odor observed.

LABORATORY ANALYSIS REPORT
AND
DATA USABILITY SUMMARY REPORT (DUSR)

ANALYTICAL REPORT

Lab Number:	L1632689
Client:	Sterling Environmental Eng 24 Wade Road Latham, NY 12110
ATTN:	Cody Sargood
Phone:	(518) 456-4900
Project Name:	WAVERLY AVE
Project Number:	28012
Report Date:	10/19/16

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1632689-01	B6-OWD	WATER	NY	10/12/16 10:00	10/12/16
L1632689-02	GZ-21D	WATER	NY	10/12/16 10:45	10/12/16
L1632689-03	GZ-22D	WATER	NY	10/12/16 13:00	10/12/16
L1632689-04	GZ-23D	WATER	NY	10/12/16 13:40	10/12/16
L1632689-05	OSMW-3	WATER	NY	10/12/16 12:10	10/12/16
L1632689-06	OSMW-4	WATER	NY	10/12/16 11:35	10/12/16
L1632689-07	DUPLICATE	WATER	NY	10/12/16 00:00	10/12/16
L1632689-08	TRIP BLANK	WATER	NY	10/12/16 10:00	10/12/16

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

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.

Volatile Organics

L1632689-08: The Trip Blank has a result for acetone present above the reporting limit. The sample vial was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

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: Cristin Walker Cristin Walker

Title: Technical Director/Representative Date: 10/19/16

ORGANICS

VOLATILES

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-01
Client ID: B6-OWD
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/18/16 17:42
Analyst: PD

Date Collected: 10/12/16 10:00
Date Received: 10/12/16
Field Prep: Not Specified

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	2.6		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	0.32	J	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	0.65		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	0.28	J	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	1.7		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

SAMPLE RESULTS

Lab ID: L1632689-01 Date Collected: 10/12/16 10:00
Client ID: B6-OWD Date Received: 10/12/16
Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.1	J	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	6.7		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	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-02
Client ID: GZ-21D
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/18/16 18:13
Analyst: PD

Date Collected: 10/12/16 10:45
Date Received: 10/12/16
Field Prep: Not Specified

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	48		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	0.84		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	2.3		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	0.81	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

SAMPLE RESULTS

Lab ID: L1632689-02 Date Collected: 10/12/16 10:45
Client ID: GZ-21D Date Received: 10/12/16
Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.5		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	7.1		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	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-03
Client ID: GZ-22D
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/18/16 18:46
Analyst: PD

Date Collected: 10/12/16 13:00
Date Received: 10/12/16
Field Prep: Not Specified

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	18		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	2.2		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	3.1		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	40		ug/l	2.5	0.70	1
Trichloroethene	0.29	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-03
Client ID: GZ-22D
Sample Location: NY

Date Collected: 10/12/16 13:00
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	7.7		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.5		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	8.3		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	0.75	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	0.46	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-04 D
Client ID: GZ-23D
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/18/16 19:18
Analyst: PD

Date Collected: 10/12/16 13:40
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	62	18.	25
1,1-Dichloroethane	ND		ug/l	62	18.	25
Chloroform	ND		ug/l	62	18.	25
Carbon tetrachloride	ND		ug/l	12	3.4	25
1,2-Dichloropropane	ND		ug/l	25	3.4	25
Dibromochloromethane	ND		ug/l	12	3.7	25
1,1,2-Trichloroethane	ND		ug/l	38	12.	25
Tetrachloroethene	1000		ug/l	12	4.5	25
Chlorobenzene	ND		ug/l	62	18.	25
Trichlorofluoromethane	ND		ug/l	62	18.	25
1,2-Dichloroethane	4.2	J	ug/l	12	3.3	25
1,1,1-Trichloroethane	ND		ug/l	62	18.	25
Bromodichloromethane	ND		ug/l	12	4.8	25
trans-1,3-Dichloropropene	ND		ug/l	12	4.1	25
cis-1,3-Dichloropropene	ND		ug/l	12	3.6	25
Bromoform	ND		ug/l	50	16.	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	4.2	25
Benzene	ND		ug/l	12	4.0	25
Toluene	ND		ug/l	62	18.	25
Ethylbenzene	ND		ug/l	62	18.	25
Chloromethane	ND		ug/l	62	18.	25
Bromomethane	ND		ug/l	62	18.	25
Vinyl chloride	82		ug/l	25	1.8	25
Chloroethane	ND		ug/l	62	18.	25
1,1-Dichloroethene	ND		ug/l	12	4.2	25
trans-1,2-Dichloroethene	36	J	ug/l	62	18.	25
Trichloroethene	1000		ug/l	12	4.4	25
1,2-Dichlorobenzene	ND		ug/l	62	18.	25
1,3-Dichlorobenzene	ND		ug/l	62	18.	25
1,4-Dichlorobenzene	ND		ug/l	62	18.	25

SAMPLE RESULTS

Lab ID: L1632689-04 D
Client ID: GZ-23D
Sample Location: NY

Date Collected: 10/12/16 13:40
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	62	18.	25
p/m-Xylene	ND		ug/l	62	18.	25
o-Xylene	ND		ug/l	62	18.	25
cis-1,2-Dichloroethene	320		ug/l	62	18.	25
Styrene	ND		ug/l	62	18.	25
Dichlorodifluoromethane	ND		ug/l	120	25.	25
Acetone	ND		ug/l	120	36.	25
Carbon disulfide	ND		ug/l	120	25.	25
2-Butanone	ND		ug/l	120	48.	25
4-Methyl-2-pentanone	ND		ug/l	120	25.	25
2-Hexanone	ND		ug/l	120	25.	25
Bromochloromethane	ND		ug/l	62	18.	25
1,2-Dibromoethane	ND		ug/l	50	16.	25
1,2-Dibromo-3-chloropropane	ND		ug/l	62	18.	25
Isopropylbenzene	ND		ug/l	62	18.	25
1,2,3-Trichlorobenzene	ND		ug/l	62	18.	25
1,2,4-Trichlorobenzene	ND		ug/l	62	18.	25
Methyl Acetate	ND		ug/l	50	5.8	25
Cyclohexane	ND		ug/l	250	6.8	25
1,4-Dioxane	ND		ug/l	6200	1500	25
Freon-113	ND		ug/l	62	18.	25
Methyl cyclohexane	ND		ug/l	250	9.9	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-05 D
Client ID: OSMW-3
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/18/16 19:50
Analyst: PD

Date Collected: 10/12/16 12:10
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	470		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	4.2	J	ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	14	J	ug/l	25	7.0	10
Trichloroethene	230		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

SAMPLE RESULTS

Lab ID: L1632689-05 D
Client ID: OSMW-3
Sample Location: NY

Date Collected: 10/12/16 12:10
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	63		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-06
Client ID: OSMW-4
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/18/16 20:23
Analyst: PD

Date Collected: 10/12/16 11:35
Date Received: 10/12/16
Field Prep: Not Specified

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	2.0		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	1.1		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

SAMPLE RESULTS

Lab ID: L1632689-06
Client ID: OSMW-4
Sample Location: NY
Date Collected: 10/12/16 11:35
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	0.73	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	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	6.6		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	1.9	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	0.40	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-07
Client ID: DUPLICATE
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/19/16 11:45
Analyst: PD

Date Collected: 10/12/16 00:00
Date Received: 10/12/16
Field Prep: Not Specified

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	56		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	0.79		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	2.8		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	0.75	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-07
Client ID: DUPLICATE
Sample Location: NY

Date Collected: 10/12/16 00:00
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.9		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.5	J	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	113		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

SAMPLE RESULTS

Lab ID: L1632689-08
Client ID: TRIP BLANK
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/19/16 12:08
Analyst: PD

Date Collected: 10/12/16 10:00
Date Received: 10/12/16
Field Prep: Not Specified

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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

SAMPLE RESULTS

Lab ID: L1632689-08
Client ID: TRIP BLANK
Sample Location: NY
Date Collected: 10/12/16 10:00
Date Received: 10/12/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	7.2		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	113		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/18/16 11:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG943493-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/18/16 11:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG943493-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name:	WAVERLY AVE	**Lab Number:**	L1632689
Project Number:	28012	**Report Date:**	10/19/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/18/16 11:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG943493-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	105		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/19/16 09:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG943640-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/19/16 09:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG943640-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name:	WAVERLY AVE	**Lab Number:**	L1632689
Project Number:	28012	**Report Date:**	10/19/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/19/16 09:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG943640-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG943493-3 WG943493-4								
Methylene chloride	93		88		70-130	6		20
1,1-Dichloroethane	100		97		70-130	3		20
Chloroform	110		100		70-130	10		20
2-Chloroethylvinyl ether	80		77		70-130	4		20
Carbon tetrachloride	87		86		63-132	1		20
1,2-Dichloropropane	91		89		70-130	2		20
Dibromochloromethane	97		99		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	98		100		70-130	2		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	90		92		67-130	2		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	74		78		70-130	5		20
cis-1,3-Dichloropropene	80		78		70-130	3		20
1,1-Dichloropropene	100		96		70-130	4		20
Bromoform	83		86		54-136	4		20
1,1,2,2-Tetrachloroethane	94		96		67-130	2		20
Benzene	95		92		70-130	3		20
Toluene	97		100		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG943493-3 WG943493-4								
Ethylbenzene	110		110		70-130	0		20
Chloromethane	**62**	Q	**62**	Q	64-130	0		20
Bromomethane	65		73		39-139	12		20
Vinyl chloride	88		88		55-140	0		20
Chloroethane	100		97		55-138	3		20
1,1-Dichloroethene	91		88		61-145	3		20
trans-1,2-Dichloroethene	94		91		70-130	3		20
Trichloroethene	100		98		70-130	2		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	98		100		70-130	2		20
Methyl tert butyl ether	77		79		63-130	3		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	99		94		70-130	5		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	96		97		64-130	1		20
Acrylonitrile	97		92		70-130	5		20
Isopropyl Ether	95		92		70-130	3		20
tert-Butyl Alcohol	**52**	Q	**58**	Q	70-130	11		20
Styrene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG943493-3 WG943493-4								
Dichlorodifluoromethane	91		88		36-147	3		20
Acetone	110		96		58-148	14		20
Carbon disulfide	82		77		51-130	6		20
2-Butanone	82		84		63-138	2		20
Vinyl acetate	76		81		70-130	6		20
4-Methyl-2-pentanone	86		91		59-130	6		20
2-Hexanone	89		92		57-130	3		20
Acrolein	100		99		40-160	1		20
Bromochloromethane	100		98		70-130	2		20
2,2-Dichloropropane	**50**	Q	**54**	Q	63-133	8		20
1,2-Dibromoethane	95		99		70-130	4		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	98		100		64-130	2		20
Bromobenzene	98		100		70-130	2		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	68		74		41-144	8		20
Hexachlorobutadiene	95		100		63-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG943493-3 WG943493-4								
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		110		70-130	10		20
Naphthalene	93		100		70-130	7		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	90		98		70-130	9		20
1,2,4-Trichlorobenzene	92		97		70-130	5		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	84		81		70-130	4		20
Ethyl Acetate	99		98		70-130	1		20
Cyclohexane	88		85		70-130	3		20
Ethyl-Tert-Butyl-Ether	**58**	Q	**61**	Q	70-130	5		20
Tertiary-Amyl Methyl Ether	**63**	Q	**65**	Q	66-130	3		20
1,4-Dioxane	86		86		56-162	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20
p-Diethylbenzene	110		110		70-130	0		20
p-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Tetrahydrofuran	89		85		58-130	5		20
Ethyl ether	98		94		59-134	4		20
trans-1,4-Dichloro-2-butene	90		91		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG943493-3 WG943493-4								
Iodomethane	**47**	Q	**56**	Q	70-130	17		20
Methyl cyclohexane	93		86		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		121		70-130
Toluene-d8	101		105		70-130
4-Bromofluorobenzene	103		100		70-130
Dibromofluoromethane	110		110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG943640-3 WG943640-4								
Methylene chloride	110		91		70-130	19		20
1,1-Dichloroethane	120		100		70-130	18		20
Chloroform	120		100		70-130	18		20
2-Chloroethylvinyl ether	**47**	Q	**54**	Q	70-130	14		20
Carbon tetrachloride	97		86		63-132	12		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	100		96		63-130	4		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	97		94		70-130	3		20
Chlorobenzene	110		99		75-130	11		20
Trichlorofluoromethane	83		70		62-150	17		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	110		97		67-130	13		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	98		99		70-130	1		20
1,1-Dichloropropene	100		94		70-130	6		20
Bromoform	98		90		54-136	9		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	110		100		70-130	10		20
Toluene	110		100		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG943640-3 WG943640-4								
Ethylbenzene	110		99		70-130	11		20
Chloromethane	110		98		64-130	12		20
Bromomethane	46		46		39-139	0		20
Vinyl chloride	90		89		55-140	1		20
Chloroethane	57		47	Q	55-138	19		20
1,1-Dichloroethene	93		83		61-145	11		20
trans-1,2-Dichloroethene	96		85		70-130	12		20
Trichloroethene	110		98		70-130	12		20
1,2-Dichlorobenzene	100		95		70-130	5		20
1,3-Dichlorobenzene	100		96		70-130	4		20
1,4-Dichlorobenzene	100		96		70-130	4		20
Methyl tert butyl ether	96		88		63-130	9		20
p/m-Xylene	110		100		70-130	10		20
o-Xylene	110		100		70-130	10		20
cis-1,2-Dichloroethene	100		89		70-130	12		20
Dibromomethane	100		96		70-130	4		20
1,2,3-Trichloropropane	110		100		64-130	10		20
Acrylonitrile	120		110		70-130	9		20
Isopropyl Ether	120		100		70-130	18		20
tert-Butyl Alcohol	96		96		70-130	0		20
Styrene	110		100		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG943640-3 WG943640-4								
Dichlorodifluoromethane	84		75		36-147	11		20
Acetone	140		100		58-148	33	Q	20
Carbon disulfide	98		82		51-130	18		20
2-Butanone	130		110		63-138	17		20
Vinyl acetate	120		100		70-130	18		20
4-Methyl-2-pentanone	72		78		59-130	8		20
2-Hexanone	72		72		57-130	0		20
Acrolein	100		95		40-160	5		20
Bromochloromethane	98		86		70-130	13		20
2,2-Dichloropropane	96		86		63-133	11		20
1,2-Dibromoethane	100		95		70-130	5		20
1,3-Dichloropropane	110		100		70-130	10		20
1,1,1,2-Tetrachloroethane	110		100		64-130	10		20
Bromobenzene	98		91		70-130	7		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	100		95		70-130	5		20
o-Chlorotoluene	99		91		70-130	8		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	90		88		41-144	2		20
Hexachlorobutadiene	98		94		63-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG943640-3 WG943640-4								
Isopropylbenzene	100		97		70-130	3		20
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	73		86		70-130	16		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	90		100		70-130	11		20
1,2,4-Trichlorobenzene	87		90		70-130	3		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
Methyl Acetate	120		110		70-130	9		20
Ethyl Acetate	110		100		70-130	10		20
Cyclohexane	110		100		70-130	10		20
Ethyl-Tert-Butyl-Ether	100		94		70-130	6		20
Tertiary-Amyl Methyl Ether	91		91		66-130	0		20
1,4-Dioxane	66		78		56-162	17		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		88		70-130	13		20
p-Diethylbenzene	100		97		70-130	3		20
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	90		84		70-130	7		20
Tetrahydrofuran	130		110		58-130	17		20
Ethyl ether	80		68		59-134	16		20
trans-1,4-Dichloro-2-butene	100		99		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG943640-3 WG943640-4								
Iodomethane	48	Q	48	Q	70-130	0		20
Methyl cyclohexane	93		91		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		113		70-130
Toluene-d8	107		109		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	106		101		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

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): 01-06 QC Batch ID: WG943493-6 WG943493-7 QC Sample: L1632689-01 Client ID: B6-OWD												
Methylene chloride	ND	10	9.4	94		9.3	93		70-130	1		20
1,1-Dichloroethane	ND	10	10	100		10	100		70-130	0		20
Chloroform	ND	10	11	110		11	110		70-130	0		20
Carbon tetrachloride	ND	10	9.8	98		9.3	93		63-132	5		20
1,2-Dichloropropane	ND	10	10	100		9.8	98		70-130	2		20
Dibromochloromethane	ND	10	9.7	97		9.6	96		63-130	1		20
1,1,2-Trichloroethane	ND	10	10	100		10	100		70-130	0		20
Tetrachloroethene	2.6	10	13	104		12	94		70-130	8		20
Chlorobenzene	ND	10	11	110		10	100		75-130	10		20
Trichlorofluoromethane	ND	10	11	110		9.7	97		62-150	13		20
1,2-Dichloroethane	0.32J	10	11	110		11	110		70-130	0		20
1,1,1-Trichloroethane	ND	10	11	110		11	110		67-130	0		20
Bromodichloromethane	ND	10	11	110		10	100		67-130	10		20
trans-1,3-Dichloropropene	ND	10	10	100		10	100		70-130	0		20
cis-1,3-Dichloropropene	ND	10	9.9	99		9.7	97		70-130	2		20
1,1-Dichloropropene	ND	10	11	110		9.9	99		70-130	11		20
Bromoform	ND	10	8.0	80		8.2	82		54-136	2		20
1,1,2,2-Tetrachloroethane	ND	10	9.8	98		10	100		67-130	2		20
Benzene	0.65	10	11	104		10	94		70-130	10		20
Toluene	ND	10	11	110		10	100		70-130	10		20
Ethylbenzene	ND	10	11	110		11	110		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

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): 01-06 QC Batch ID: WG943493-6 WG943493-7 QC Sample: L1632689-01 Client ID: B6-OWD												
Chloromethane	ND	10	6.6	66		6.4	64		64-130	3		20
Bromomethane	ND	10	6.3	63		6.7	67		39-139	6		20
Vinyl chloride	0.28J	10	9.8	98		9.2	92		55-140	6		20
Chloroethane	ND	10	10	100		9.8	98		55-138	2		20
1,1-Dichloroethene	ND	10	10	100		9.6	96		61-145	4		20
trans-1,2-Dichloroethene	ND	10	10	100		9.7	97		70-130	3		20
Trichloroethene	1.7	10	12	103		12	103		70-130	0		20
1,2-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,3-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,4-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
Methyl tert butyl ether	ND	10	10	100		10	100		63-130	0		20
p/m-Xylene	ND	20	22	110		21	105		70-130	5		20
o-Xylene	ND	20	22	110		21	105		70-130	5		20
cis-1,2-Dichloroethene	2.1J	10	12	120		12	120		70-130	0		20
Dibromomethane	ND	10	11	110		10	100		70-130	10		20
1,2,3-Trichloropropane	ND	10	9.8	98		10	100		64-130	2		20
Acrylonitrile	ND	10	9.7	97		9.3	93		70-130	4		20
Isopropyl Ether	ND	10	10	100		10	100		70-130	0		20
tert-Butyl Alcohol	ND	50	47	94		50	100		70-130	6		20
Styrene	ND	20	23	115		22	110		70-130	4		20
Dichlorodifluoromethane	ND	10	9.6	96		8.5	85		36-147	12		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

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): 01-06 QC Batch ID: WG943493-6 WG943493-7 QC Sample: L1632689-01 Client ID: B6-OWD												
Acetone	6.7	10	17	103		18	113		58-148	6		20
Carbon disulfide	ND	10	8.4	84		7.8	78		51-130	7		20
2-Butanone	ND	10	9.0	90		9.1	91		63-138	1		20
Vinyl acetate	ND	10	9.8	98		9.7	97		70-130	1		20
4-Methyl-2-pentanone	ND	10	10	100		10	100		59-130	0		20
2-Hexanone	ND	10	10	100		10	100		57-130	0		20
Acrolein	ND	10	10	100		9.8	98		40-160	2		20
Bromochloromethane	ND	10	10	100		10	100		70-130	0		20
2,2-Dichloropropane	ND	10	10	100		9.9	99		63-133	1		20
1,2-Dibromoethane	ND	10	11	110		10	100		70-130	10		20
1,3-Dichloropropane	ND	10	10	100		10	100		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	11	110		11	110		64-130	0		20
Bromobenzene	ND	10	10	100		10	100		70-130	0		20
n-Butylbenzene	ND	10	11	110		11	110		53-136	0		20
sec-Butylbenzene	ND	10	10	100		10	100		70-130	0		20
tert-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
o-Chlorotoluene	ND	10	10	100		10	100		70-130	0		20
p-Chlorotoluene	ND	10	11	110		10	100		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	8.8	88		9.5	95		41-144	8		20
Hexachlorobutadiene	ND	10	10	100		9.9	99		63-130	1		20
Isopropylbenzene	ND	10	10	100		10	100		70-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

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): 01-06 QC Batch ID: WG943493-6 WG943493-7 QC Sample: L1632689-01 Client ID: B6-OWD												
p-Isopropyltoluene	ND	10	11	110		10	100		70-130	10		20
Naphthalene	1.1J	10	12	120		13	130		70-130	8		20
n-Propylbenzene	ND	10	10	100		10	100		69-130	0		20
1,2,3-Trichlorobenzene	ND	10	11	110		12	120		70-130	9		20
1,2,4-Trichlorobenzene	ND	10	11	110		12	120		70-130	9		20
1,3,5-Trimethylbenzene	ND	10	11	110		10	100		64-130	10		20
1,2,4-Trimethylbenzene	0.78J	10	11	110		11	110		70-130	0		20
Methyl Acetate	ND	10	8.8	88		8.8	88		70-130	0		20
Ethyl Acetate	ND	10	9.8J	98		9.7J	97		70-130			20
Cyclohexane	ND	10	9.4J	94		8.5J	85		70-130	10		20
Ethyl-Tert-Butyl-Ether	ND	10	10	100		10	100		70-130	0		20
Tertiary-Amyl Methyl Ether	ND	10	10	100		10	100		66-130	0		20
1,4-Dioxane	ND	500	460	92		480	96		56-162	4		20
Freon-113	ND	10	11	110		9.6	96		70-130	14		20
1,4-Diethylbenzene	ND	10	12	120		12	120		70-130	0		20
4-Ethyltoluene	ND	10	11	110		10	100		70-130	10		20
1,2,4,5-Tetramethylbenzene	ND	10	11	110		11	110		70-130	0		20
Tetrahydrofuran	ND	10	9.5	95		9.5	95		58-130	0		20
Ethyl ether	ND	10	10	100		10	100		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	10	6.2	**62**	Q	7.0	70		70-130	12		20
Iodomethane	ND	10	2.7J	**27**	Q	3.1J	**31**	Q	70-130	14		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

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): 01-06 QC Batch ID: WG943493-6 WG943493-7 QC Sample: L1632689-01 Client ID: B6-OWD												
Methyl cyclohexane	ND	10	9.4J	94		8.5J	85		70-130	10		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		112		70-130
4-Bromofluorobenzene	96		100		70-130
Dibromofluoromethane	105		107		70-130
Toluene-d8	101		102		70-130

Project Name: WAVERLY AVE
Project Number: 28012

Lab Number: L1632689
Report Date: 10/19/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1632689-01A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01A1	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01A2	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01B1	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01B2	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01C1	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-01C2	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-02A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-02B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-02C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-03A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-03B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-03C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-04A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-04B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-04C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-05A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-05B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-05C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-06A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-06B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-06C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-07A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-07B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-07C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-08A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)
L1632689-08B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

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).

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.

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.

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.

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.

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.

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

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.

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

Data Qualifiers

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.

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.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

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.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: ***EPA 3050B***

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

Westborough Facility:

Drinking Water
EPA 300.0: 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**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ALPHA ANALYTICAL

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

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

NEW YORK CHAIN OF CUSTODY

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

Page 1 of 1

Date Rec'd in Lab: 10/13/16

ALPHA Job #: L1632689

Client Information

Client: Sterling Environmental Engineerin
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email: cody.sargood@sterlingenvironme

Project Information

Project Name: Waverly Ave
Project Location: NY
Project #: 28012
(Use Project name as Project #) ☐
Project Manager: Cody Sargood
ALPHAQuote #:

Turn-Around Time

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

Deliverables

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

Regulatory Requirement

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

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☑ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

cody.sargood@sterlingenvironmental.com * Cat B Report *

Please specify Metals or TAL.

ANALYSIS

VOCs 8260

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	Total Bottles
1632689 01	B6-OWD	10/12/16	1000			X	3
02	GZ-21D	"	1045	~~GW~~	(2)	"	"
03	GZ-22D	"	1300		(2)	"	"
04	GZ-23D	"	1340	GW	(2)	"	"
05	OSMW-3	"	1210		(2)	"	"
06	OSMW-4	"	1135		(2)	"	"
07	MS	"	1000		(2)	"	"
08	MSD	"	1000		(2)	"	"
09	DUPLICATE	"	---		(2)	"	4
10	TRIP BLANK	10/10/16	1000	DI water	(2)	X	2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

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

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

Container Type: V
Preservative: B

Relinquished By:	Date/Time	Received By:	Date/Time
	10/12/16 1730		10/12/16 17:30
	10/12/16 17:30		10/13/16 0850

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

Form No: 01-25 (rev. 30-Sept-2013)

ALPHA
GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

October 24, 2016

Ms. Amanda Castignetti
Assistant Engineer
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Re: Data Validation Report
Waverly Avenue
October 2016 Ground Water Sampling Event

Dear Ms. Castignetti:

The data usability summary report and QA/QC review are attached to this letter for the above referenced project sampling event. The data for Alpha Analytical Labs, SDG number L1632689 are acceptable with some minor issues that are identified and discussed in the validation summary. There are no data that were flagged unusable (R) in the data pack.

A list of common data validation acronyms is attached to this letter to assist you 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

Donald Anné
Senior Chemist

DCA:dca
attachments

Z:\projects\2009\09600 - 09620\09619-waverly ave\2016\waverly ave-163.ltr.wpd

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 andassociated 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 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-Dichlophenylacetic 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

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L1632689

6 Ground Water Samples, 1 Field Duplicate,
and 1 Trip Blank
Collected October 12, 2016

Prepared by: Donald Anné
October 24, 2016

The data package contains the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appears legible and complete. The data pack contains the results for the volatile analyses for 6 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 minor issues that are identified in the accompanying data validation reviews. The following data were flagged:

- Positive volatile result for acetone were flagged as "not detected" (U) for samples B6-OWD, GZ-21D,GZ-22D, OSMW-4, and DUPLICATE because the levels reported in the samples were not significantly greater than (more than 5 times) the highest associated blank level.

- The "not detected" volatile results for chloromethane were flagged as estimated, biased low (J-) in samples B6-OWD, GZ-21D, GZ-22D, GZ-23D, OSMW-3, and OSMW-4 because the 2 of 2 percent recoveries for chloromethane were below the QC limits in the associated aqueous LCS/LCSD.

- The "not detected" volatile results for chloroethane were flagged as estimated, biased low (J-) in samples DUPLICATE and TRIP BLANK because the 1 of 2 percent recoveries for chloroethane was below the QC limits in the associated aqueous LCS/LCSD.

- The positive volatile result for acetone was flagged as estimated (J) in sample TRIP BLANK because the relative percent difference for acetone was above the allowable maximum in the associated aqueous LCS/LCSD.

All data are considered usable, with estimated (J, J-) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-01	Date Collected	: 10/12/16 10:00
Client ID	: B6-OWD	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 17:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A15	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 Results	RL	MDL	Qualifier
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	2.6	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	0.32	0.50	0.13	J
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	0.65	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 J-
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.28	1.0	0.07	J
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	1.7	0.50	0.18	

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-01	Date Collected	: 10/12/16 10:00
Client ID	: B6-OWD	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 17:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A15	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	2.1	2.5	0.70	J
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	6.7	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
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-02	Date Collected	: 10/12/16 10:45
Client ID	: GZ-21D	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 18:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A16	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	48	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	0.84	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 J-
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	2.3	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
156-60-5	trans-1,2-Dichloroethene	0.81	2.5	0.70	J
79-01-6	Trichloroethene	ND	0.50	0.18	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-02	Date Collected	: 10/12/16 10:45
Client ID	: GZ-21D	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 18:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A16	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	3.5	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	7.1	5.0	1.5	J
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
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-03	Date Collected	: 10/12/16 13:00
Client ID	: GZ-22D	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 18:46
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A17	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 Results	RL	MDL	Qualifier
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	18	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	2.2	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 J-
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	3.1	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
156-60-5	trans-1,2-Dichloroethene	40	2.5	0.70	
79-01-6	Trichloroethene	0.29	0.50	0.18	J

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-03	Date Collected	: 10/12/16 13:00
Client ID	: GZ-22D	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 18:46
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A17	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	7.7	2.5	0.70	
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	3.5	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	8.3	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	0.75	10	0.27	J
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	0.46	10	0.40	J

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Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-04D	Date Collected	: 10/12/16 13:40
Client ID	: GZ-23D	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 19:18
Sample Matrix	: WATER	Dilution Factor	: 25
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A18	Instrument ID	: GONZO
Sample Amount	: 0.4 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 Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	62	18.	U
75-34-3	1,1-Dichloroethane	ND	62	18.	U
67-66-3	Chloroform	ND	62	18.	U
56-23-5	Carbon tetrachloride	ND	12	3.4	U
78-87-5	1,2-Dichloropropane	ND	25	3.4	U
124-48-1	Dibromochloromethane	ND	12	3.7	U
79-00-5	1,1,2-Trichloroethane	ND	38	12.	U
127-18-4	Tetrachloroethene	1000	12	4.5	
108-90-7	Chlorobenzene	ND	62	18.	U
75-69-4	Trichlorofluoromethane	ND	62	18.	U
107-06-2	1,2-Dichloroethane	4.2	12	3.3	J
71-55-6	1,1,1-Trichloroethane	ND	62	18.	U
75-27-4	Bromodichloromethane	ND	12	4.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	12	4.1	U
10061-01-5	cis-1,3-Dichloropropene	ND	12	3.6	U
75-25-2	Bromoform	ND	50	16.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	12	4.2	U
71-43-2	Benzene	ND	12	4.0	U
108-88-3	Toluene	ND	62	18.	U
100-41-4	Ethylbenzene	ND	62	18.	U
74-87-3	Chloromethane	ND	62	18.	U J-
74-83-9	Bromomethane	ND	62	18.	U
75-01-4	Vinyl chloride	82	25	1.8	
75-00-3	Chloroethane	ND	62	18.	U
75-35-4	1,1-Dichloroethene	ND	12	4.2	U
156-60-5	trans-1,2-Dichloroethene	36	62	18.	J
79-01-6	Trichloroethene	1000	12	4.4	

Form 1
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Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-04D	Date Collected	: 10/12/16 13:40
Client ID	: GZ-23D	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 19:18
Sample Matrix	: WATER	Dilution Factor	: 25
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A18	Instrument ID	: GONZO
Sample Amount	: 0.4 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	62	18.	U
541-73-1	1,3-Dichlorobenzene	ND	62	18.	U
106-46-7	1,4-Dichlorobenzene	ND	62	18.	U
1634-04-4	Methyl tert butyl ether	ND	62	18.	U
179601-23-1	p/m-Xylene	ND	62	18.	U
95-47-6	o-Xylene	ND	62	18.	U
156-59-2	cis-1,2-Dichloroethene	320	62	18.	
100-42-5	Styrene	ND	62	18.	U
75-71-8	Dichlorodifluoromethane	ND	120	25.	U
67-64-1	Acetone	ND	120	36.	U
75-15-0	Carbon disulfide	ND	120	25.	U
78-93-3	2-Butanone	ND	120	48.	U
108-10-1	4-Methyl-2-pentanone	ND	120	25.	U
591-78-6	2-Hexanone	ND	120	25.	U
74-97-5	Bromochloromethane	ND	62	18.	U
106-93-4	1,2-Dibromoethane	ND	50	16.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	62	18.	U
98-82-8	Isopropylbenzene	ND	62	18.	U
87-61-6	1,2,3-Trichlorobenzene	ND	62	18.	U
120-82-1	1,2,4-Trichlorobenzene	ND	62	18.	U
79-20-9	Methyl Acetate	ND	50	5.8	U
110-82-7	Cyclohexane	ND	250	6.8	U
123-91-1	1,4-Dioxane	ND	6200	1500	U
76-13-1	Freon-113	ND	62	18.	U
108-87-2	Methyl cyclohexane	ND	250	9.9	U

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Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-05D	Date Collected	: 10/12/16 12:10
Client ID	: OSMW-3	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 19:50
Sample Matrix	: WATER	Dilution Factor	: 10
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A19	Instrument ID	: GONZO
Sample Amount	: 1 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	ND	25	7.0	U
67-66-3	Chloroform	ND	25	7.0	U
56-23-5	Carbon tetrachloride	ND	5.0	1.3	U
78-87-5	1,2-Dichloropropane	ND	10	1.4	U
124-48-1	Dibromochloromethane	ND	5.0	1.5	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	470	5.0	1.8	
108-90-7	Chlorobenzene	ND	25	7.0	U
75-69-4	Trichlorofluoromethane	ND	25	7.0	U
107-06-2	1,2-Dichloroethane	4.2	5.0	1.3	J
71-55-6	1,1,1-Trichloroethane	ND	25	7.0	U
75-27-4	Bromodichloromethane	ND	5.0	1.9	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.6	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.4	U
75-25-2	Bromoform	ND	20	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.7	U
71-43-2	Benzene	ND	5.0	1.6	U
108-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
74-87-3	Chloromethane	ND	25	7.0	U J-
74-83-9	Bromomethane	ND	25	7.0	U
75-01-4	Vinyl chloride	ND	10	0.71	U
75-00-3	Chloroethane	ND	25	7.0	U
75-35-4	1,1-Dichloroethene	ND	5.0	1.7	U
156-60-5	trans-1,2-Dichloroethene	14	25	7.0	J
79-01-6	Trichloroethene	230	5.0	1.8	

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Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-05D	Date Collected	: 10/12/16 12:10
Client ID	: OSMW-3	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 19:50
Sample Matrix	: WATER	Dilution Factor	: 10
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A19	Instrument ID	: GONZO
Sample Amount	: 1 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	25	7.0	U
541-73-1	1,3-Dichlorobenzene	ND	25	7.0	U
106-46-7	1,4-Dichlorobenzene	ND	25	7.0	U
1634-04-4	Methyl tert butyl ether	ND	25	7.0	U
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	63	25	7.0	
100-42-5	Styrene	ND	25	7.0	U
75-71-8	Dichlorodifluoromethane	ND	50	10.	U
67-64-1	Acetone	ND	50	15.	U
75-15-0	Carbon disulfide	ND	50	10.	U
78-93-3	2-Butanone	ND	50	19.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
591-78-6	2-Hexanone	ND	50	10.	U
74-97-5	Bromochloromethane	ND	25	7.0	U
106-93-4	1,2-Dibromoethane	ND	20	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	7.0	U
98-82-8	Isopropylbenzene	ND	25	7.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	25	7.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	25	7.0	U
79-20-9	Methyl Acetate	ND	20	2.3	U
110-82-7	Cyclohexane	ND	100	2.7	U
123-91-1	1,4-Dioxane	ND	2500	610	U
76-13-1	Freon-113	ND	25	7.0	U
108-87-2	Methyl cyclohexane	ND	100	4.0	U

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Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-06	Date Collected	: 10/12/16 11:35
Client ID	: OSMW-4	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 20:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A20	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	2.0	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	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 J-
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
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	1.1	0.50	0.18	

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-06	Date Collected	: 10/12/16 11:35
Client ID	: OSMW-4	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/18/16 20:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A20	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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	0.73	2.5	0.70	J
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	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	6.6	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	1.9	10	0.27	J
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	0.40	10	0.40	J

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-07	Date Collected	: 10/12/16 00:00
Client ID	: DUPLICATE	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/19/16 11:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05161019A09	Instrument ID	: VOA105
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 Results	RL	MDL	Qualifier
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	56	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	0.79	0.50	0.16	
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	2.8	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U J-
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	0.75	2.5	0.70	J
79-01-6	Trichloroethene	ND	0.50	0.18	U

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Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-07	Date Collected	: 10/12/16 00:00
Client ID	: DUPLICATE	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/19/16 11:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05161019A09	Instrument ID	: VOA105
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 Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	2.9	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	4.5	5.0	1.5	J 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
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-08	Date Collected	: 10/12/16 10:00
Client ID	: TRIP BLANK	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/19/16 12:08
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05161019A10	Instrument ID	: VOA105
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 Results	RL	MDL	Qualifier
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
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 J-
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: L1632689-08	Date Collected	: 10/12/16 10:00
Client ID	: TRIP BLANK	Date Received	: 10/12/16
Sample Location	: NY	Date Analyzed	: 10/19/16 12:08
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05161019A10	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	7.2	5.0	1.5	J
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
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: WG943493-5	Date Collected	: NA
Client ID	: WG943493-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/18/16 11:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A04	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
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
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
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: WG943493-5	Date Collected	: NA
Client ID	: WG943493-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/18/16 11:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: VG161018A04	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

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: WG943640-5	Date Collected	: NA
Client ID	: WG943640-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/19/16 09:51
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05161019A04	Instrument ID	: VOA105
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 Results	RL	MDL	Qualifier
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
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
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

Form 1
VOA

Client	: Sterling Environmental Eng	Lab Number	: L1632689
Project Name	: WAVERLY AVE	Project Number	: 28012
Lab ID	: WG943640-5	Date Collected	: NA
Client ID	: WG943640-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/19/16 09:51
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V05161019A04	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U