August 8, 2022

Ms. Ruth Curley
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233

RE: April 2022 Monitoring Results
222 South Ferry Street Site
NYSDEC Site No. 447047
222 South Ferry Street
Schenectady, New York
HRP Project No. DEC1012.RA

Dear Ms. Curley:

In April 2022, HRP Associates, Inc. (HRP) performed the groundwater monitoring and sampling event at the 222 South Ferry Street Site (the Site), located in Schenectady, New York (**Figure 1**). This event was performed as the first semi-annual monitoring and sampling event of 2022 in accordance with the Interim Site Management Plan (SMP) dated May 9, 2022. The semi-annual events follow the completion of a in-situ groundwater treatment which was performed as an Interim Remedial Measure (IRM). The in-situ treatment consisted of the injection of emulsified vegetable oil, zero valance iron (ZVI), and *Dehalococcoides* microbes (DHC) into Site groundwater. The injections were performed in two events conducted on December 8-10, 2020 and November 10-12, 2021. In-situ groundwater treatment was followed by four groundwater monitoring and sampling events conducted quarterly during 2021.

The purpose of the semi-annual groundwater monitoring and sampling events, as outlined in the Interim SMP, is to assess the performance of the in-situ groundwater treatment. This is to be accomplished by comparisons of pre- and post-remediation chlorinated volatile organic compound (VOC) concentrations and analysis of geochemical parameters from selected onsite monitoring wells. The field activities and results of the April 2022 semi-annual sampling event are summarized below.

Field Activities

HRP mobilized to the Site on April 28 and 29, 2022, to conduct groundwater level gauging and sampling. Groundwater samples were successfully collected from 11 monitoring wells. Prior to commencing sampling, depth to water measurements were recorded from all accessible monitoring wells to the nearest 0.01 foot, measured from surveyed top of casings. Depth to water was measured at 11 wells including: MW-2, MW-5, MW-6R, MW-8, MW-10, MW-12, MW-13, MW-14, PES-MW-4, PES-MW-5, and PES-MW-6. The monitoring well locations are depicted on **Figure 2**.

Groundwater samples were collected in general accordance with EPA Low Flow purge and sample guidelines. Purging required removing water from the well at a rate of at least 200 milliliters per minute, but not exceeding 1 liter per minute for a sufficient length of time for water quality parameters to stabilize. Sampling commenced immediately after purging, without adjusting the flow rate or water intake depth.

For QA/QC purposes, matrix spike and matrix spike duplicate (MS/MSD) samples were collected from MW-8. A duplicate sample was collected from MW-8 and designated "DUP-01". The MS/MSD and duplicate samples were analyzed for VOCs only. The full list of parameters analyzed for each well sampled during the April 2022 sampling event are included in **Table 1**. Samples from MW-5, MW-6R, MW-8, MW-10 and MW-13 were analyzed for geochemical parameters.

Depth to water measurements and groundwater elevations, as well as available monitoring well construction details are included on **Table 2**. Low-flow sampling logs, including water quality monitoring parameters recorded during purging are included as **Attachment A**.

Deviations from Work Plan

The following deviations to the Interim SMP were made during to the April 2022 monitoring and sampling event:

- An additional monitoring well, MW-14 was sampled for VOCs via EPA Method 8260 during the April 2022 event. MW-14 was part of the quarterly monitoring and sampling conducted under the Interim Remedial Measure Monitoring Plan (IRMMP), however the Interim SMP does not require semi-annual sampling of MW-14. All 10 wells which are scheduled for semi-annual sampling in the Interim SMP were sampled for appropriate parameters during the April 2022 event.

Findings

During the April 2022 monitoring and sampling event, groundwater was encountered in monitoring wells at depths ranging from 3.75 to 8.26 feet below top of casing (ft btoc). A groundwater elevation contour map, prepared from water level data collected on April 29, 2022, shows that onsite groundwater predominantly flows from south to north. The groundwater elevation contours from the April 2022 monitoring data are depicted on **Figure 3**. When compared to measurements recorded during the 4th quarter (December) 2021 event, groundwater elevation was an average 1.16 feet higher in the monitoring wells across the Site in April 2022. Depth to water measurements, groundwater elevations, and available well construction details are presented on **Table 2**.

VOC analytical results indicate that chlorinated VOCs were detected at concentrations exceeding NYSDEC Class GA Criteria in 9 of the 11 monitoring wells sampled during the April 2022 event. VOCs were not detected at concentrations exceeding the NYSDEC Class GA Criteria in samples collected from MW-6R and MW-14. VOC analytical results from the April 2022 sample event are presented on **Table 3**.

A comparison of the April 2022 sampling results to historical results indicates trichloroethylene (TCE) concentrations continued to decrease in MW-5, where TCE was detected at a concentration of 3.2 micrograms per liter (μg/L), below the NYSDEC Class GA Criteria of 5 μg/L, during the April 2022 event. TCE remains above NYSDEC Class GA Criteria in monitoring wells MW-8 (45.2 μg/L) and PES-MW-4 (11.4 μg/L) only.

Compared to historical results cis-1,2-dichloroethylene (cis-1,2-DCE) showed a continued decline in monitoring wells MW-5, MW-6R, MW-8 and PES-MW-6. Vinyl chloride concentrations declined in each of these wells with the exception of MW-5. Cis-1,2-DCE and vinyl chloride concentrations generally remained consistent with December 2021 results in other monitoring wells. Cis-1,2-DCE remains above NYSDEC Class GA Criteria in 6 of the Site monitoring wells. Vinyl chloride remains above NYSDEC Class GA Criteria in 9 of the Site monitoring wells. A comparison of previous quarterly and pre-IRM VOC results is presented on **Table 4** and in relation to monitoring well locations on **Figure 4**. Line graphs depicting chlorinated VOC concentrations and groundwater elevation over time, are included in **Attachment B**.

Historical results of geochemical parameter analyses from monitoring wells MW-5, MW-6R, MW-10, and MW-13 indicate trends of increasing ethylene, ethane, and methane concentrations (breakdown products of the chlorinated VOCs) following the November 2021 injection event. Additionally, April 2022 sample results indicate iron concentrations in monitoring wells MW-5, MW-6R, MW-8, MW-10, and MW-13 all remained elevated above pre-treatment conditions. A comparison of April 2022 geochemical parameter data to previous quarterly and pre-IRM data is presented on **Table 5**.

Data Validation and Usability

Data validation of the April 2022 VOC analytical results was completed by Judy Harry of Data Validation Services. The Data Usability Summary Report (DUSR) for the analytical results indicates that no data was deemed to be unusable. As part of the data validation review, the VOCs TCE, csi-1,2-DCE, vinyl chloride, 2-butanone, acetone, and trans-1,2-dicolroethene were qualified as estimated for the parent sample and field duplicate sample (DUP-01) collected from MW-8, as significant variances in concentrations (ranging from twofold to tenfold) were observed between the parent sample and the field duplicate. In each case the concentrations were higher in the parent sample than in the field duplicate. An evaluation of historical results (**Table 4**) indicates significant reductions in chlorinated VOC concentrations have occurred in MW-8 since the original round of treatment in December 2020, and the April 2022 results generally fit the trend of declining concentrations. The laboratory analytical reports from the April 2022 sample event is included in **Attachment C** and accompanying DUSR is included in **Attachment D.** The validated electronic data deliverables (EDDs) have been submitted separately to the NYSDEC project manager and will be entered into the NYSDEC data base shortly.

Conclusions

Results from the April 2022 monitoring event indicate dechlorination is occurring in groundwater at the Site.

Dechlorination is evidenced in Site groundwater by an overall decline in the primary species of chlorinated VOCs (TCE, cis-1,2-DCE, and vinyl chloride) and a brief increase followed by a decline in the concentrations of breakdown species (cis-1,2-DCE and vinyl chloride). Results from geochemical analyses also provide evidence for dechlorination. Increasing trends in concentrations of ethylene, ethane, and methane, which are produced by the breakdown of chlorinated VOCs, were observed in MW-8 across the first three post-injection monitoring events (January 2021-July 2021) and in MW-5, MW-6R, and MW-13 across the final two monitoring events (December 2021-April 2022), following completion of injections upgradient of these wells. Based on results from April 2022, iron concentrations

remain elevated relative to pre-treatment conditions, indicating potential for continued dechlorination in Site groundwater through redox reactions.

Results from MW-2 and MW-12 indicate concentrations of cis-1,2-DCE and vinyl chloride remain consistent with pre-treatment concentrations, marginally exceeding NYSDEC Class GA Criteria, but well below pre-treatment concentrations observed in source area wells (MW-8, PES-MW-4, PES-MW-5, PES-MW-6).

Based on the 2022 quarterly monitoring results the IRM injection events have effectively enhanced dechlorination and have significantly reduced concentrations of chlorinated VOCs in groundwater beneath the Site. Groundwater monitoring and sampling should continue at the semi-annual schedule specified in the Interim SMP. The next semi-annual monitoring and sampling event is planned for October 2022.

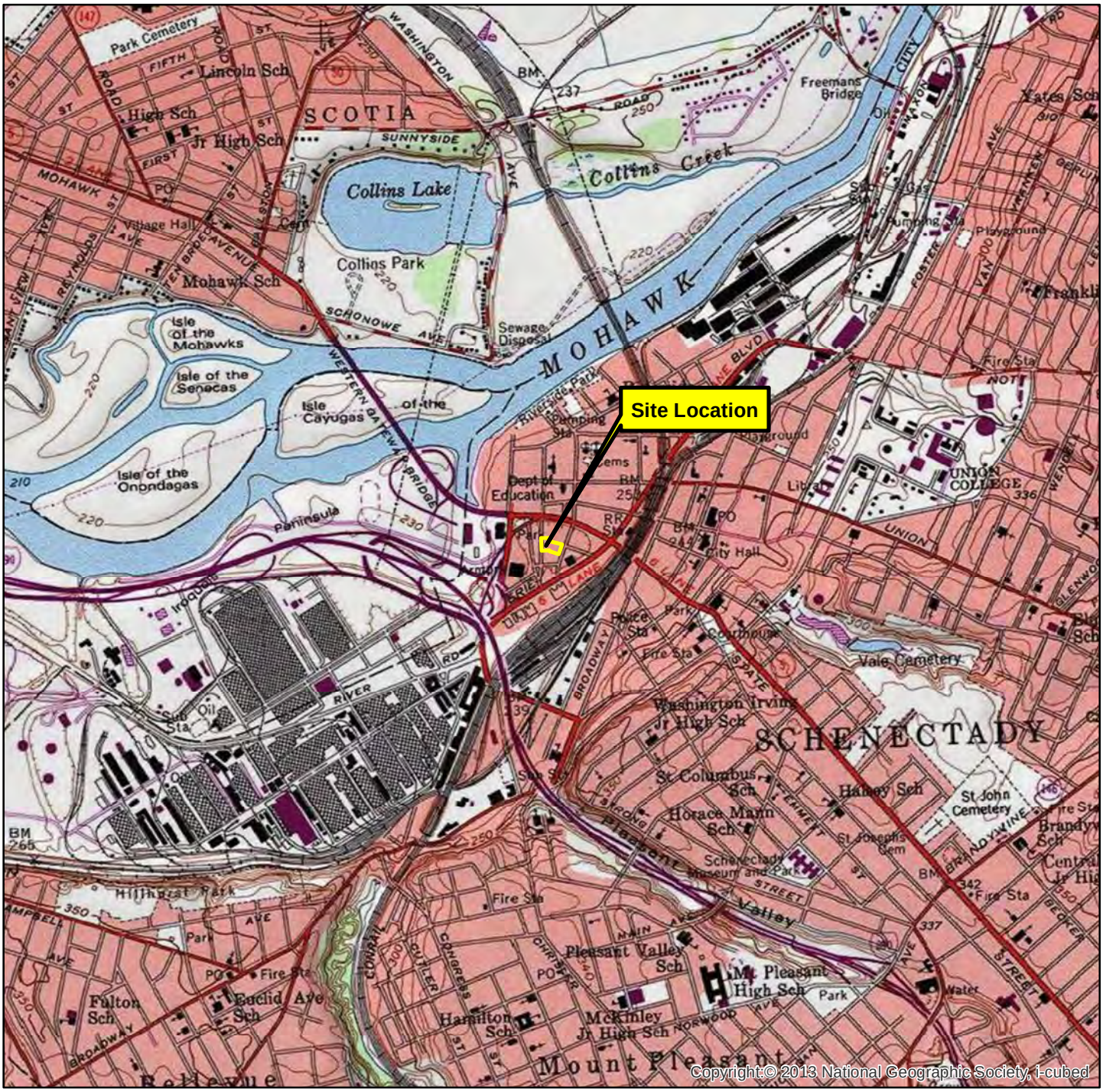
If you have any questions or require additional information, please feel free to contact HRP at (518) 877-7101.

Sincerely,
HRP Associates, Inc.

Patrick Montuori, PG
Senior Project Consultant

Mark Wright, PG
Senior Project Manager

FIGURES



0 1,000 2,000 4,000 6,000 8,000

Feet

1 inch = 2,000 feet

N

USGS Quadrangle Information
Quad ID: 42073-G8
Name: Schenectady, New York
Date Rev: 1978
Date Pub: 1981

Figure 1
Site Location
222 South Ferry Street
Schenectady, New York
HRP # DEC1012.RA
Scale 1" = 2,000'

HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
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(518) 877-7101
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Path: S:\Data\NNYDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION\SCHENECTADY\222 SOUTH FERRY STREET\DEC1012RA\GIS\Figure 1 - Site Location.mxd

Legend

- Monitoring Well
- December 2020 Injection Points
- November 2021 Injection Points
- Approximate Groundwater Flow Direction
- Approximate Property Line

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Revisions						
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Date						

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PRL	CMS	PWM

Issue Date:	Project No:	Sheet Size:
07/08/2022	DEC1012.RA	11x17

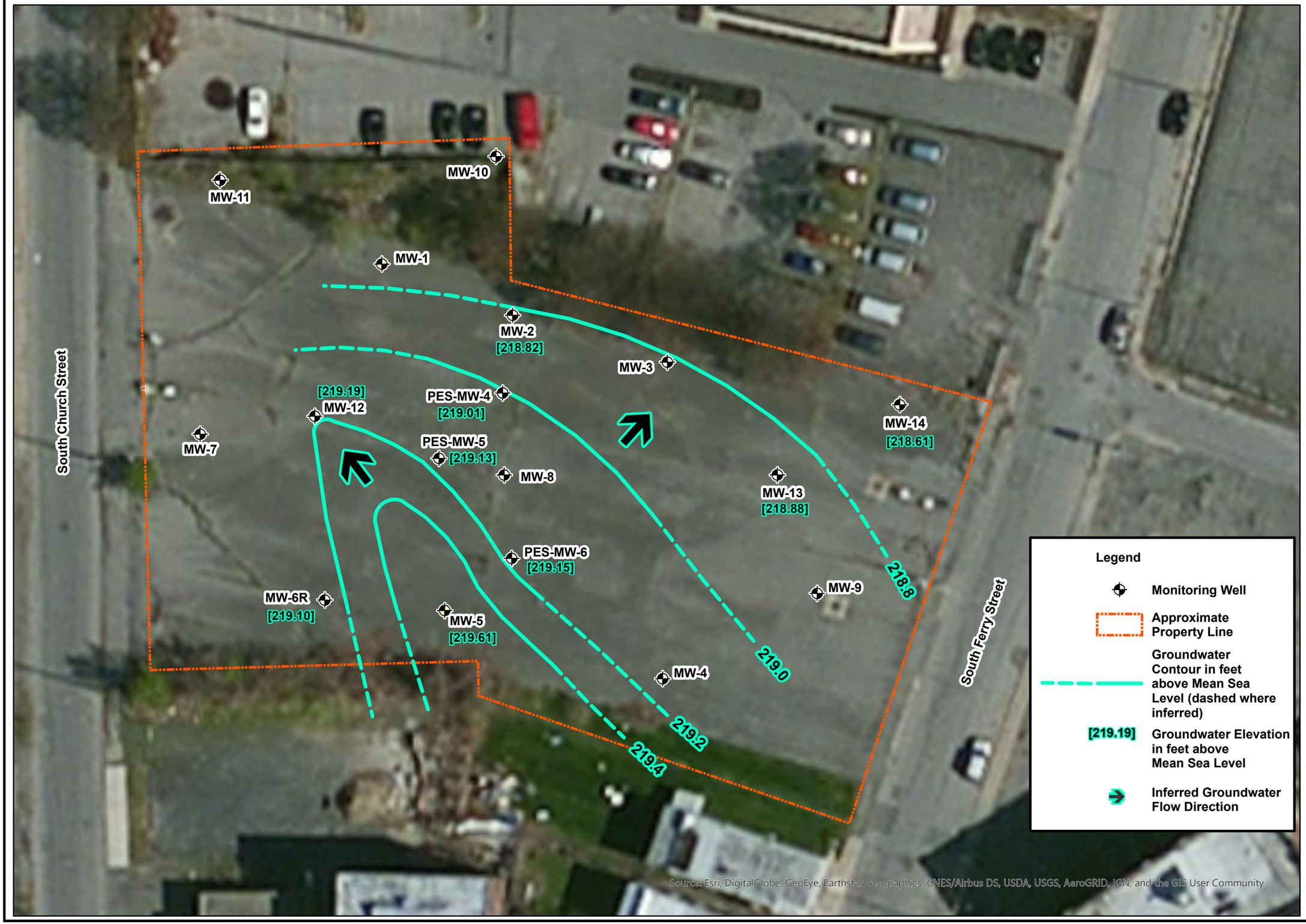
Groundwater Monitoring Well and Injection Locations

222 South Ferry Street
Schenectady, New York

FIGURE
2

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Path: S:\Data\NY\DEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION\SCHENECTADY\222 SOUTH FERRY STREET\DEC1012RA\GIS\Q1 - Figure 2 - Monitoring Well and Injection Point Locations



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Revisions						
No.						
Date						

Designed By:	Drawn By:	Reviewed By:
JA	BOB	MEW

Issue Date:	Project No:	Sheet Size:
07/05/2022	DEC1012.RA	11x17

Groundwater Elevation Contours April 29, 2022

222 South Ferry Street
Schenectady, New York

FIGURE
3

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PES-MW-5						
Date Collected	4/9/2020	1/15/2021	4/5/2021	7/7/2021	12/14/2021	4/29/2022
1,1-DCE	< 50	**6.2**	< 2.9	< 2.9	< 0.23	< 0.23
Chloromethane	**NA**	< 18	< 0.35	< 1.4	**1.3**	< 0.2
MEK	< 500	**42**	**44**	**34**	**2.6**	< 1.3
trans-1,2-DCE	< 50	**27**	**17**	< 9.0	< 0.19	< 0.19
TCE	**51**	**5.8**	< 4.6	< 4.6	< 0.22	< 0.22
cis-1,2-DCE	**3,200**	**2,700**	**610**	**12**	**6.8**	**18.1**
VC	**1,500**	**1,400**	**610**	**16**	**6.3**	**20.1**

MW-10					
Date Collected	3/27/2020	1/15/2021	4/5/2021	7/7/2021	4/28/2022
MC	< 10	**5.3**	< 1.8	< 0.44	< 0.3
cis-1,2-DCE	**330**	**120**	**12**	**1.2**	**8.2**
VC	**420**	**610**	**160**	**8.3**	**23.8**

MW-2						
Date Collected	3/27/2020	1/15/2021	4/5/2021	7/7/2021	12/14/2021	4/29/2022
cis-1,2-DCE	**3.9**	**2.3**	**2.2**	**6.9**	**3.8**	**2.7**
VC	**13**	**4**	**4**	**13**	**10.7**	**11.2**

PES-MW-4						
Date Collected	4/9/2020	1/15/2021	4/5/2021	7/7/2021	12/14/2021	4/29/2022
Chloromethane	**NA**	< 18	< 0.35	< 1.4	**1.5**	< 0.2
MC	< 80	**44**	< 0.44	< 1.8	< 0.3	< 0.3
MEK	< 800	< 66	**5.2**	**8.9**	< 1.3	< 1.3
TCE	< 80	< 23	< 0.46	<0.46	**6.2**	**11.4**
cis-1,2-DCE	**310**	< 41	**3.1**	< 0.81	**35.9**	**42.3**
VC	**1,600**	**2,200**	**24**	**7.1**	**23.5**	**22.5**

MW-13					
Date Collected	3/27/2020	4/5/2021	7/7/2021	12/14/2021	4/28/2022
Chloromethane	**NA**	< 2.8	< 2.8	**2.4**	< 0.2
cis-1,2-DCE	**43**	**49**	**79**	**1.9**	**3.2**
VC	**280**	**170**	**500**	**12**	**36.3**

MW-14					
Date Collected	1/18/2021	4/5/2021	7/7/2021	12/14/2021	4/29/2022
PCE	**1.1**	**1.2**	< 0.36	< 0.28	< 0.28

MW-12						
Date Collected	3/27/2020	1/18/2021	4/5/2021	7/7/2021	12/14/2021	4/29/2022
MEK	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	**4.8**
cis-1,2-DCE	**6.9**	**7.8**	**5.9**	**9**	**7.6**	**1.7**
VC	**4.1**	**3**	**2**	**4.4**	**3.1**	**2.4**

MW-5					
Date Collected	3/27/2020	4/5/2021	7/7/2021	12/14/2021	4/28/2022
Benzene	**NA**	< 2.1	< 2.1	< 0.22	**0.54**
CD	**NA**	< 0.95	< 0.95	**6.4**	< 0.25
MEK	< 40	< 6.6	< 6.6	**194**	**3**
TCE	**150**	**260**	**200**	**49.6**	**3.2**
cis-1,2-DCE	**41**	**160**	**160**	**191**	**13.4**
VC	< 4.0	**22**	**45**	**70.9**	**78.3**

MW-6R						
Date Collected	3/27/2020	1/18/2021	4/5/2021	7/7/2021	12/14/2021	4/28/2022
1,1-DCE	< 2	< 0.29	**0.34**	< 1.2	< 0.23	< 0.23
MEK	< 20	< 1.3	< 5.3	< 1.2	**31.8**	**21.5**
trans-1,2-DCE	< 2	< 0.90	**1.2**	< 3.6	**1.9**	< 0.19
cis-1,2-DCE	**130**	**51**	**150**	**170**	**199**	**1.2**
VC	**22**	**14**	**19**	**30**	**86.5**	**1.8**

PES-MW-6						
Date Collected	4/9/2020	1/18/2021	4/5/2021	7/7/2021	12/14/2021	4/29/2022
MC	< 10	**3.9**	< 1.8	< 4.4	< 0.3	< 0.3
MEK	<100	< 6.6	**100**	**100**	< 1.3	< 1.3
trans-1,2-DCE	**28**	**33**	< 3.6	**42**	**67**	< 0.19
TCE	**17**	**13**	**5.5**	< 4.6	< 0.22	**2.1**
cis-1,2-DCE	**60**	**170**	**27**	**330**	**242**	**24.7**
VC	**240**	**200**	**26**	**360**	**377**	**45.7**

MW-8						
Date Collected	3/27/2020	1/15/2021	4/5/2021	7/7/2021	12/14/2021	4/28/2022
Benzene	**NA**	< 210	< 16	< 41	**1.4**	< 0.22
MC	< 500	**250**	**18**	<18	< 0.3	< 0.3
MEK	< 5000	< 660	< 53	< 53	**10.9**	**29.4**
Toluene	NA	< 260	< 20	< 51	**7.3**	< 0.2
TCE	< 500	< 230	**95**	**25**	< 0.22	**45.2**
trans-1,2-DCE	< 500	< 450	< 36	< 36	**1.1**	**2.9**
cis-1,2-DCE	**25,000**	**11,000**	**2,100**	**250**	**649**	**102**
VC	**14,000**	**6,200**	**930**	**5,900**	**6,170**	**54.1**

MW-4	
Date Collected	1/15/2021
No Detections or Exceedances	

Legend

- Monitoring Well
- December 2020 Injection Points
- November 2021 Injection Points
- Approximate Groundwater Flow Direction
- Approximate Property Line

<1	Parameter not detected above the laboratory method detection limit
<1	Indicates the laboratory method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Volatile Organic Compounds (VOCs) (µg/L)	NYSDEC CLASS GA CRITERIA
1,1-Dichloroethylene (1,1-DCE)	5
2-Butanone (MEK)	50
Benzene	1
Carbon disulfide (CD)	60
Chloromethane	5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	5
Methylene chloride (MC)	5
Tetrachloroethylene (PCE)	5
Toluene	5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	5
Trichloroethylene (TCE)	5
Vinyl chloride (VC)	2

MW-10 MW-11 MW-1 MW-2 MW-3 MW-12 MW-7 PES-MW-4 PES-MW-5 MW-8 MW-13 MW-14 PES-MW-6 MW-9 MW-6R MW-5 MW-4

South Church Street

South Ferry Street

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Revisions

No.	Date

Designed By: PRL
Drawn By: CMS
Reviewed By: PWM

Issue Date: 07/08/2022
Project No: DEC1012.RA
Sheet Size: 11x17

Groundwater VOC Detections - March 2020 to April 2022

222 South Ferry Street
Schenectady, New York

FIGURE
4

Path: S:\Data\NYDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION\SCHENECTADY\222 SOUTH FERRY STREET\DEC1012RA\GIS\Q1 - Figure 2 - Monitoring Well and Injection Point Locations

TABLES

Table 1
Sample Summary
222 South Ferry Street Site, Site # 447047
222 South Ferry Street, Schenectady, New York

Activity	Matrix	Sample Locations	Monitoring Well IDs	Samples to be Collected	Analyses
Monitoring Well Sampling	Groundwater	6	MW-2, MW-12, MW-14, PES-MW-4, PES-MW-5, PES-MW-6	6	VOCs by EPA Method 8260C
		5	MW-5, MW-6R, MW-8, MW-10, MW-13	8 (includes 1 duplicate, 1 MS, 1 MSD to be collected from MW-8)	VOCs by EPA Method 8260C CO2 - Dissolved Gases (GC) by Method RSK_175_CO2 Iron: Total and Dissolved by EPA Method 6010C Manganese: Total and Dissolved by EPA Method 6010C Chloride and Sulfate by EPA Method 300.0 Sulfide by SM4500_S2_F Nitrate by EPA Method 353.2 TOC by EPA Method 5310C Alkalinity, Total by EPA Method 23320B Methane/Ethane/Ethene - Dissolved Gases (GC) by Method RSK_175

Acronym List:
CO2: Carbon Dioxide
GC: Gas Chromatograph
MS: Matrix Spike
MSD: Matrix Spike Duplicate
VOCs: Volatile Organic Compounds
TOC: Total Organic Carbon

Table 2
Well Construction and Groundwater Elevation
April 2022
222 South Ferry Street Site, Site # 447047
222 South Ferry Street, Schenectady, New York

Monitoring Well Designation		MW-2	MW-4	MW-5	MW-6R	MW-7	MW-8	MW-9	MW-10*	MW-12	MW-13	MW-14	PES-MW-4	PES-MW-5	PES-MW-6
Installation Date		12/1/2007	12/1/2007	12/1/2007	11/15/2017	12/1/2007	12/1/2007	12/1/2007	5/13/2022	1/15/2014	1/16/2014	11/14/2017	4/3/2020	4/3/2020	4/3/2020
Top of Casing Elevation (ft amsl)		223.84	223.92	224.51	224.06	225.13	224.00	222.81	--	224.19	223.08	222.36	223.88	224.07	224.3
Screened Interval (ft btoc)		5 - 15	Unknown	Unknown	5 - 15	Unknown	Unknown	Unknown	5 - 15	5 - 15	5 - 15	2 - 12	5 - 10	8 - 13	4 - 14
Well Diameter (inches)		1	1	1	2	1	1	1	2	2	2	2	1	1	1
Measurement Date	**Gauging Data**														
1/15/2021	Depth to Water (ft btoc)	5.65	5.15	ND	5.92	6.87	5.59	4.39	7.98	ND	4.42	3.95	5.20	5.76	5.63
	Groundwater Elevation (ft amsl)	218.19	218.77	ND	218.14	218.26	218.41	218.42	215.89	ND	218.66	218.41	218.68	218.31	218.67
	Measured Depth to Bottom (ft btoc)	12.75	11.65	ND	14.65	12.27	12.46	12.27	18.60	14.15	13.70	11.89	9.58	12.90	13.85
4/5/2021	Depth to Water (ft btoc)	5.28	4.83	5.35	5.55	6.56	5.05	3.77	6.93	5.59	4.23	3.64	4.88	5.36	5.09
	Groundwater Elevation (ft amsl)	218.56	219.09	219.16	218.51	218.57	218.95	219.04	216.94	218.60	218.85	218.72	219.00	218.71	219.21
	Measured Depth to Bottom (ft btoc)	12.71	9.72	12.20	14.65	12.25	12.50	11.90	18.39	14.10	13.60	11.90	8.35	12.65	14.25
7/7/2021	Depth to Water (ft btoc)	5.88	5.61	6.20	6.10	7.07	5.67	4.40	7.13	6.14	4.79	4.83	5.52	5.90	6.05
	Groundwater Elevation (ft amsl)	217.96	218.31	218.31	217.96	218.06	218.33	218.41	216.74	218.05	218.29	217.53	218.36	218.17	218.25
	Measured Depth to Bottom (ft btoc)	12.75	9.65	12.11	14.65	12.29	12.50	11.93	18.35	14.10	13.60	11.82	9.35	12.64	14.26
12/13/2021	Depth to Water (ft btoc)	5.93	ND	6.00	5.97	7.04	5.75	5.03	7.13	6.05	5.36	5.05	5.89	5.84	6.10
	Groundwater Elevation (ft amsl)	217.91	ND	218.51	218.09	218.09	218.25	217.78	216.74	218.14	217.72	217.31	217.99	218.23	218.20
	Measured Depth to Bottom (ft btoc)	12.75	ND	12.11	14.65	12.29	12.50	11.93	18.35	14.10	13.60	11.82	9.35	12.64	14.26
4/29/2022	Depth to Water (ft btoc)	5.02	ND	4.90	4.96	ND	4.68	ND	8.26	5.00	4.20	3.75	4.87	4.94	5.15
	Groundwater Elevation (ft amsl)	218.82	ND	219.61	219.10	ND	219.32	ND	--	219.19	218.88	218.61	219.01	219.13	219.15
	Measured Depth to Bottom (ft btoc)	12.71	ND	12.20	14.65	ND	12.50	ND	18.39	14.10	13.60	11.90	8.35	12.65	14.25

NOTES

ft btoc = feet below top of casing
ft amsl = feet above mean sea level
ND = No data - MW-4, MW-7, MW-9 not located
Top of casing elevations surveyed by Advanced Engineering and Surveying, LLC (2019) based on NAVD 88 datum. PES-MW wells tied into previous survey by Precision, 2020 (not licensed surveyor) .
*MW-10 was replaced prior to the April 2022 monitioring event. Top of casing elevation has not been surveyed and therefore groundwater elevation was not calculated for the April 2022 monitoring event.

Table 3
Summary of Groundwater Sample Results
April 2022
Volatile Organic Compounds
Detected Analytes Only
222 Ferry Street Site, Site # 447047
222 South Ferry Street, Schenectady, New York

Lab Report No.:	NYSDEC CLASS GA CRITERIA	70213002	70212849	70212849	70212849	70212849	70213002	70212849	70213002	70213002	70213002	70213002
ID:		MW-2	MW-5	MW-6R	MW-8	MW-10	MW-12	MW-13	MW-14	PES-MW-4	PES-MW-5	PES-MW-6
Date Collected:		4/29/2022	4/28/2022	4/28/2022	4/28/2022	4/28/2022	4/29/2022	4/28/2022	4/29/2022	4/29/2022	4/29/2022	4/29/2022
Volatile Organic Compounds (VOCs) (ug/L)												
2-Butanone (MEK)	50	< 1.3	**3 J**	**21.5**	**29.4 J**	< 1.3	**4.8 J**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
2-Hexanone (Methyl butyl ketone/MBK)	50	< 0.6	< 0.6	< 0.6	**3.7 J**	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Acetone	50	< 1.6	**11.9**	**20.4**	**28.5 J**	< 1.6	**7.2**	< 1.6	< 1.6	< 1.6	**3.1 J**	< 1.6
Benzene	1	< 0.22	**0.54 J**	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	**0.51 J**	< 0.22	**0.52 J**
cis-1,2-Dichloroethylene	5	**2.7**	**13.4**	**1.2**	**102 J**	**8.2**	**1.7**	**3.2**	< 0.24	**42.3**	**18.1**	**24.7**
Toluene	5	< 0.2	**1.1**	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
trans-1,2-Dichloroethylene	5	< 0.19	< 0.19	< 0.19	**2.9 J**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethylene	5	< 0.22	**3.2**	< 0.22	**45.2 J**	< 0.22	< 0.22	< 0.22	< 0.22	**11.4**	< 0.22	**2.1**
Vinyl chloride	2	**11.2**	**78.3**	**1.8**	**54.1 J**	**23.8**	**2.4**	**36.3**	< 0.33	**22.5**	**20.1**	**45.7**

Legend

<1	Parameter not detected above the method detection limit
<1	Indicates the method detection limit is greater than one or more applicable comparison criteria
<1	Indicates the method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Notes:

ug/L = micorgrams per liter

J - indicates that the estimated value is greater than or equal to the MDL and less than the LOQ (or qualified estimated by validator)

Table 4
Summary of Groundwater Sample Results - Quarterly Comparison by Analyte
Volatile Organic Compounds - Detected Analytes Only

222 South Ferry Street Site, Site # 447047
222 South Ferry Street, Schenectady, New York

			Benzene	Carbon disulfide	Chloromethane	Toluene	2-Butanone (MEK)	1,1-Dichloroethylene	Methylene chloride	trans-1,2-Dichloroethylene	Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	Vinyl chloride
Well ID	Date Collected	**NYSDEC Class GA Criteria**	**1**	**60**	**5**	**5**	**50**	**5**	**NP**	**5**	**5**	**5**	**5**	**2**
MW-2	3/27/2020	Volatile Organic Compounds (VOCs) (ug/L)	NA	NA	NA	NA	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.9**	**13**
	1/15/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**2.3**	**4**
	4/5/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**2.2**	**4**
	7/7/2021		< 0.41	< 0.19	**0.54**	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**6.9**	**13**
	12/14/2021		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.23	< 0.3	< 0.19	< 0.28	< 0.22	**3.8**	**10.7**
	4/29/2022		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.19	< 0.3	< 0.19	< 0.28	< 0.22	**2.7**	**11.2**
MW-4	1/15/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 0.29	< 0.36	< 0.44	< 0.46	< 1.3	< 0.81	< 0.90	< 0.90
MW-5	3/27/2020		NA	NA	NA	NA	< 40	< 4.0	< 4.0	< 4.0	< 4.0	**150**	**41**	< 4.0
	4/5/2021		< 2.1	< 0.95	< 1.8	< 2.6	< 6.6	< 1.5	< 2.2	< 4.5	< 1.8	**260**	**160**	**22**
	7/7/2021		< 2.1	< 0.95	< 1.8	< 2.6	< 6.6	< 1.5	< 2.2	< 4.5	< 1.8	**200**	**160**	**45**
	12/14/2021		< 0.22	**6.4**	< 0.2	< 0.2	**194**	**1.2**	< 0.3	**4.3**	< 0.28	**49.6**	**191**	**70.9**
	4/28/2022		**0.54 J**	< 0.25	< 0.2	**1.1**	**3 J**	< 0.19	< 0.3	< 0.19	< 0.28	**3.2**	**13.4**	**78.3**
MW-6R	3/27/2020		NA	NA	NA	NA	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	**130**	**22**
	1/18/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**51**	**14**
	4/5/2021		< 1.6	< 0.76	< 1.4	< 2	< 5.3	**0.34 J**	< 1.8	**1.2**	< 1.4	< 1.8	**150**	**19**
	7/7/2021		< 1.6	< 0.76	< 1.4	< 2	< 1.2	< 1.2	< 1.8	< 3.6	< 1.4	< 1.8	**170**	**30**
	12/14/2021		< 0.22	< 0.25	< 0.2	< 0.2	**31.8**	< 0.23	< 0.3	**1.9**	< 0.28	< 0.22	**199**	**86.5**
	4/28/2022		< 0.22	< 0.25	< 0.2	< 0.2	**21.5**	< 0.19	< 0.3	< 0.19	< 0.28	< 0.22	**1.2**	**1.8**
MW-8	3/27/2020		NA	NA	NA	NA	< 5000	< 500	< 500	< 500	< 500	< 500	**25,000**	**14,000**
	1/15/2021		< 210	< 95	< 180	< 260	< 660	< 150	**250**	< 450	< 180	< 230	**11,000**	**6,200**
	4/5/2021		< 16	< 7.6	< 14	< 20	< 53	< 12	**18 J**	< 36	< 14	**95**	**2,100 F1**	**930 F1**
	7/7/2021		< 41	< 19	< 35	< 51	< 53	< 12	< 18	< 36	< 14	**25**	**250**	**5,900**
	12/14/2021		**1.4**	< 0.25	< 0.2	**7.3**	**10.9**	< 0.23	< 0.3	**1.1**	< 0.28	< 0.22	**649**	**6,170**
	4/28/2022		< 0.22	< 0.25	< 0.2	< 0.2	**29.4 J**	< 0.19	< 0.3	**2.9 J**	< 0.28	**45.2 J**	**102 J**	**54.1 J**
MW-10	3/27/2020		NA	NA	NA	NA	< 100	< 10	< 10	< 10	< 10	< 10	**330**	**420**
	1/15/2021		< 4.1	< 1.9	< 3.5	< 5.1	< 13	< 2.9	**5.3**	< 9.0	< 3.6	< 4.6	**120**	**610**
	4/5/2021		< 1.6	< 0.76	< 1.4	< 2	< 5.3	< 1.2	< 1.8	< 3.6	< 1.4	< 1.8	**12**	**160**
	7/7/2022		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**1.2**	**8.3**
	4/28/2022		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.19	< 0.3	< 0.19	< 0.28	< 0.22	**8.2**	**23.8**
MW-12	3/27/2020		NA	NA	NA	NA	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**6.9**	**4.1**
	1/18/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**7.8**	**3**
	4/5/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**5.9**	**2**
	7/7/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**9**	**4.4**
	12/14/2021		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.23	< 0.3	< 0.19	< 0.28	< 0.22	**7.6**	**3.1**
	4/29/2022		< 0.22	< 0.25	< 0.2	< 0.2	**4.8 J**	< 0.19	< 0.3	< 0.19	< 0.28	< 0.22	**1.7**	**2.4**
MW-13	3/27/2020		NA	NA	NA	NA	< 100	< 10	< 10	< 10	< 10	< 10	**43**	**280**
	4/5/2021		< 3.3	< 1.5	< 2.8	< 4.1	< 11	< 2.3	< 3.5	< 7.2	< 2.9	< 3.7	**49**	**170**
	7/7/2021		< 3.3	< 1.5	< 2.8	< 4.1	< 11	< 2.3	< 3.5	< 7.2	< 2.9	< 3.7	**79**	**500**
	12/14/2021		< 0.22	< 0.25	**2.4**	< 0.2	2.3	< 0.23	< 0.3	< 0.19	< 0.28	< 0.22	**1.9**	**12**
	4/28/2022		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.19	< 0.3	< 0.19	< 0.28	< 0.22	**3.2**	**36.3**
MW-14	1/18/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	**1.1**	< 0.46	< 0.81	< 0.90
	4/5/2021		< 0.41	< 0.19	< 0.35	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	**1.2**	< 0.46	< 0.81	< 0.90
	7/7/2021		< 0.41	< 0.19	**0.37**	< 0.51	< 1.3	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	< 0.81	< 0.90
	12/14/2021		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.23	< 0.3	< 0.19	< 0.28	< 0.22	< 0.24	< 0.33
	4/29/2022		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.19	< 0.3	< 0.19	< 0.28	< 0.22	< 0.24	< 0.33

Table 4
Summary of Groundwater Sample Results - Quarterly Comparison by Analyte
Volatile Organic Compounds - Detected Analytes Only

222 South Ferry Street Site, Site # 447047
222 South Ferry Street, Schenectady, New York

Well ID	Date Collected	NYSDEC Class GA Criteria	Benzene	Carbon disulfide	Chloromethane	Toluene	2-Butanone (MEK)	1,1-Dichloroethylene	Methylene chloride	trans-1,2-Dichloroethylene	Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	Vinyl chloride
			1	**60**	**5**	**5**	**50**	**5**	**NP**	**5**	**5**	**5**	**5**	**2**
PES-MW-4	4/9/2020		NA	NA	NA	NA	< 800	< 80	< 80	< 80	< 80	< 80	**310**	**1,600**
	1/15/2021		< 21	< 9.5	< 18	< 26	< 66	< 15	**44 J F1**	< 45	< 18	< 23	< 41	**2200 F1**
	4/5/2021		< 0.41	< 0.19	< 0.35	< 0.51	**5.2 J**	< 0.29	< 0.44	< 0.90	< 0.36	< 0.46	**3.1**	**24**
	7/7/2021		< 1.6	< 0.76	< 1.4	< 2	**8.9 J**	< 1.2	< 1.8	< 3.6	< 0.36	<0.46	< 0.81	**7.1**
	12/14/2021		< 0.22	< 0.25	**1.5**	< 0.2	< 1.3	< 0.23	< 0.3	< 0.19	< 0.28	**6.2**	**35.9**	**23.5**
	4/29/2022		**0.51 J**	< 0.25	< 0.2	< 0.2	< 1.3	< 0.19	< 0.3	< 0.19	< 0.28	**11.4**	**42.3**	**22.5**
PES-MW-5	4/9/2020		NA	NA	NA	NA	< 500	< 50	< 50	< 50	< 50	**51**	**3,200**	**1,500**
	1/15/2021		< 16	< 7.6	< 14	< 20	**42**	**6.2**	**2.2**	**27**	< 1.4	**5.8**	**2,700**	**1,400**
	4/5/2021		< 4.1	< 1.9	< 3.5	< 5.1	**44 J**	< 2.9	< 4.4	**17**	< 3.6	< 4.6	**610**	**610**
	7/7/2021		< 4.1	< 1.9	< 3.5	< 5.1	**34 J**	<2.9	< 4.4	< 9.0	< 3.6	< 4.6	**12**	**16**
	12/14/2021		< 0.22	< 0.25	**1.3**	< 0.2	**2.6**	< 0.23	< 0.3	< 0.19	< 0.28	< 0.22	**6.8**	**6.3**
	4/29/2022		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.19	< 0.3	< 0.19	< 0.28	< 0.22	**18.1**	**20.1**
PES-MW-6	4/9/2020		NA	NA	NA	NA	< 100	< 10	< 10	**28 J**	< 10	**17**	**60**	**240**
	1/18/2021		< 2.1	< 0.95	< 1.8	< 2.6	**47 J**	< 1.5	**3.9 J**	**33**	< 1.8	**13**	**170**	**200**
	4/5/2021		< 1.6	< 0.76	< 1.4	< 2	**100**	< 1.2	< 1.8	< 3.6	< 1.4	**5.5**	**27**	**26**
	7/7/2021		< 4.1	< 1.9	< 3.5	< 5.1	**100**	< 2.9	< 4.4	**42**	< 3.6	< 4.6	**330**	**360**
	12/14/2021		< 0.22	< 0.25	< 0.2	< 0.2	< 1.3	< 0.23	< 0.3	**67**	< 0.28	< 0.22	**242**	**377**
	4/29/2022		**0.52 J**	< 0.25	< 0.2	< 0.2	< 1.3	< 0.19	< 0.3	< 0.19	< 0.28	**2.1**	**24.7**	**45.7**

Legend

<1	Parameter not detected above the laboratory method detection limit
<1	Indicates the laboratory method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Notes:

ug/L = micrograms per liter

VOCs = volatile organic compounds

NP= Non-promulagted. No applicable standard

J - indicates that the estimated value is greater than or equal to the MDL and less than the LOQ (or qualified estimated by validator)

Pre-injection samples collected on 3/27/20 by Precision Environmental Services. Results shown are detections above laboratory reporting limits. Method detection limits not available.

NYSDEC CLASS GA Criteria = Groundwater Class 'GA' Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards, Guidance Values, and Groundwater Effluent Limitations

F1 - MS and/or MSD recovery exceeds control limits

Table 5
Summary of Groundwater Sample Results
April 2022
Geochemical Parameters
222 South Ferry Street Site, Site # 447047
222 South Ferry Street, Schenectady, New York

ID:	NYSDEC CLASS GA	MW-4	MW-5				MW-6R		
Date Collected:	CRITERIA	1/15/2021	4/5/2021	7/7/2021	12/14/2021	4/28/2022	7/7/2021	12/14/2021	4/28/2022
Alkalinity, Total by EPA Method 8260C (mg/L)									
Alkalinity (CaCO3)	NP	314	410	430	647	362	538	657	798
Chloride and Sulfate EPA Method 300.0_28D (mg/L)									
Chloride	500	19.9	21.1	23.1	28.2	24.8	18	16.3	69.8
Sulfate	250	41.9	412	386	155	21	418	< 0.11	0.17
Iron & Manganese (Total and Dissolved) by EPA Method 6010C (mg/L)									
Iron (Total)	0.3	3.2	0.063	2.3	161	30.6	34.5	248	82.8
Manganese (Total)	0.6	0.37	0.088	0.14	10.5	3.23	5	10.4	5.99
Manganese (Dissolved)	0.6	0.41	0.082	0.09	NA	2.94	4.3	NA	5.32
Carbon Dioxide- Dissolved Gases (GC) by Method RSK_175_CO2 (ug/L)									
Carbon Dioxide	NP	39,000	120,000	120,000	NA	142,000	160,000	NA	170,000
Ethylene/Ethane/Methane- Dissolved Gases (GC) by Method RSK_175_ (ug/L)									
Ethylene	NP	<7.5	1.8	<1.5	5.8	3,690	<1.5	6.9	<39.1
Ethane	NP	<7.5	< 1.5	<1.5	1.4	5	<1.5	3.0	<34.2
Methane	NP	25	210	260	725	3,150	770	1,110	19,700
Sulfide by SM4500-S2-F (mg/L)									
Sulfide	0.05	<1.0	< 0.67	<0.67	< 0.43	<0.43	<0.67	< 0.43	<0.43
Nitrate by EPA Method 353.2 (mg/L)									
Nitrate ion	10	0.06	0.48	<0.020	< 0.037	<0.037	0.029	< 0.037	<0.037
Total Organic Carbon (TOC) by EPA Method 5310C (mg/L)									
Total Organic Carbon (TOC)	NP	3.3	2.6	4.2	1.13	58	7.3	0.754	245

Legend

<1	Parameter not detected above the laboratory method detection limit
<1	Indicates the laboratory method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Notes:

mg/L = miligrams per Liter
ug/L = micorgrams per Liter
VOCs = volatile organic compounds
NYSDEC CLASS GA Criteria = Groundwater Class 'GA' Technical and Operational Guidance Series
NP= Not promulgated; no applicable NYSDEC Criteria
NA= Not analyzed

Table 5
Summary of Groundwater Sample Results
April 2022
Geochemical Parameters
222 South Ferry Street Site, Site # 447047
222 South Ferry Street, Schenectady, New York

ID:	NYSDEC CLASS GA	MW-8						MW-10				MW-13		
Date Collected:	CRITERIA	3/27/2020	1/15/2021	4/5/2021	7/7/2021	12/14/2021	4/28/2022	1/15/2021	4/5/2021	7/7/2021	4/28/2022	7/7/2021	12/14/2021	4/28/2022
Alkalinity, Total by EPA Method 8260C (mg/L)														
Alkalinity (CaCO3)	NP	360	436	547	782	477	667	493	468	538	736	386	452	521
Chloride and Sulfate EPA Method 300.0_28D (mg/L)														
Chloride	500	114	129	139	84.9	251	360	110	153	124	107	57.9	64.2	78.6
Sulfate	250	19.4	<10	11.7	3.5	1.5	14	17	3.1	<10.0	50.3	8.6	0.18	0.2
Iron & Manganese (Total and Dissolved) by EPA Method 6010C (mg/L)														
Iron (Total)	0.3	22.2	66.2	53.1	101	113	36.4	25	22.4	31	50.9	20	26	26.3
Manganese (Total)	0.6	2.5	4.1	5.7	5.6	6.34	4.46	1.3	1.1	1.5	5.03	0.81	1.01	1.06
Manganese (Dissolved)	0.6	2.5	4	5.1	4.8	NA	4.68	1.5	0.97	1.4	4.34	0.61	NA	0.948
Carbon Dioxide- Dissolved Gases (GC) by Method RSK_175_CO2 (ug/L)														
Carbon Dioxide	NP	120,000	140,000	140,000	210,000	NA	133,000	120,000	120,000	130,000	168,000	100,000	NA	137,000
Ethylene/Ethane/Methane- Dissolved Gases (GC) by Method RSK_175_ (ug/L)														
Ethylene	NP	3,400	6,200	110	11,000	NA	3,840	86	41	170	3,530	24	<195	<232
Ethane	NP	320	1,000	13	1,000	NA	<405	110	35	<17	799	170	270	547
Methane	NP	490	1,500	13	2,900	NA	1,800	8,500	13,000	5,800	8,310	6,800	6,110	9,860
Sulfide by SM4500-S2-F (mg/L)														
Sulfide	0.05	NA	<1.0	< 0.67	1.2	< 0.43	< 0.43	<1.0	< 0.67	<0.67	<0.43	<0.67	<0.43	<0.43
Nitrate by EPA Method 353.2 (mg/L)														
Nitrate ion	10	0.15	0.13	< 0.020	0.13	0.042	< 0.037	9.9	0.025	0.039	< 0.037	<0.020	<0.037	<0.037
Total Organic Carbon (TOC) by EPA Method 5310C (mg/L)														
Total Organic Carbon (TOC)	NP	5.1	34.1	44.3	168	0.163	43.2	0.089	6.2	16.4	5.3	6.6	72.1	6.4

Legend

<1	Parameter not detected above the laboratory method detection limit
<1	Indicates the laboratory method detection limit is greater than one or more applicable comparison criteria
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
1	Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion

Notes:

mg/L = miligrams per Liter
ug/L = micorgrams per Liter
VOCs = volatile organic compounds
NYSDEC CLASS GA Criteria = Groundwater Class 'GA' Technical and Operational Guidance Series
NP= Not promulgated; no applicable NYSDEC Criteria
NA= Not analyzed

ATTACHMENT A
Low-Flow Sampling Logs

HRP Associates, Inc.

PAGE: 1 OF 1

SAMPLE DATE: 4/29/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	MW-2	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	1	Tubing Intake (ft btoc):	10
Total Depth (ft btoc):	12.71	Comments:	VOCs only
Depth to Water (ft btoc):	5.02		
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
0907 0	5.02	200	9.9	1.36	3010	6.92	45.2	1.95
3	5.20	↓	10.0	1.25	3014	6.89	31.8	95.8
6	5.28		9.8	1.01	2781	6.97	-48.9	21.5
9	5.30		9.8	0.68	2585	6.92	-58.3	5.73
12	5.30		9.8	0.54	2350	6.93	-76.9	4.08
15	5.30		9.8	0.48	2175	6.94	-87.6	2.39
18	5.30		9.7	0.71	2087	6.94	-93.5	1.72
21	5.30		9.8	0.85	2016	6.95	-100.2	3.52
24	5.30		9.8	0.84	1997	6.97	-102.8	2.45
27	5.30	↓	9.8	0.81	1972	6.95	-105.5	1.83

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
21	24	0	200	0	0.01	19	0.02	2.6	<5
24	27	0	200	0	0.03	25	0.02	2.7	<5
21	27	0	200	0	0.04	44	0.00	5.3	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 0934 Reviewed By: [signature]

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

PAGE: 1 OF 1

SAMPLE DATE: 4/28/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	MW-5	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	1	Tubing Intake (ft btoc):	10
Total Depth (ft btoc):	12.70	Comments:	VOCs + natural attenuation
Depth to Water (ft btoc):	4.90		
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
0900 0	4.90		9.9	3.89	977	7.37	-88.2	72.9
3	8.23		9.9	1.52	990	7.33	-95.7	56.9
6	9.51		low	1.46	1036	6.88	-119.8	50.4
8	DRY		—	—	—	—	—	—

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		✓	✓	✓	✓	✓	✓	✓	✓

Sample Time: 1335 Reviewed By: [signature]

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

DTW @ 4.92 @ 1335.
Grabbed sample. Will want to dup during sampling.

HRP Associates, Inc.

Low-Flow Sampling Log

PAGE: 1 OF 1

SAMPLE DATE: 4/28/22

TOTAL # WELLS: 11

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series

Well I.D.	MW-6R	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	2"	Tubing Intake (ft btoc):	10
Total Depth (ft btoc):	14.65	Comments:	Yellow Color. Vols + Natural attenuation
Depth to Water (ft btoc):	4.96		

Well Condition:

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
0	4.96	250	10.2	4.14	1885	6.96	-165.4	46.0
3	4.99		10.5	0.67	1989	6.95	-187.9	8.63
6	4.99		10.2	0.79	1953	7.00	-186.3	4.85
9	4.99		10.0	0.70	1804	6.99	-182.0	3.75
12	4.99		9.9	0.63	1818	6.97	-184.5	2.49
15	4.99		9.9	0.59	1853	6.96	-186.3	3.11
18	4.99		9.9	0.56	1864	6.95	-186.9	1.79
21	4.99		9.9	0.56	1882	6.96	-187.4	1.58

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
15	18	0	250	0	0.03	11	0.01	0.6	<5
18	21	0	250	0	0.00	18	0.01	0.5	<5
15	21	0	250	0	0.03	29	0.00	1.1	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 0943 Reviewed By:

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

Low-Flow Sampling Log

PAGE: 1 OF 1
SAMPLE DATE: 9/28/22
TOTAL # WELLS: 11

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	MW-8	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	1	Tubing Intake (ft btoc):	10
Total Depth (ft btoc):	12.50	Comments:	Sulfur smell
Depth to Water (ft btoc):	4.68		Issues w/ WL readings, VOCs t[illegible] natural attenuation
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
0658 0	4.68	150	9.8	6.85	2844	7.57	-120.5	40.6
3	4.85	↓	9.6	7.15	2842	7.32	-128.7	17.4
6	5.51		9.7	6.05	2506	7.05	-146.0	14.7
9	6.35		9.8	5.83	2535	6.95	-145.5	23.1
12	11.03		9.0	2.05	2565	6.98	-135.6	148
15	12.50	↓	9.5	1.16	3153	6.87	-138.5	OR
16	DRY		—	—	—	—	—	—

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		✓	✓	✓	✓	✓	✓	✓	✓

Sample Time: 1030 Reviewed By:

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

Grab field sample after recovery of well volume.
DTW 4.75 @ 1030.
Well not dry 4 times during sampling. ☆ Collected MS/MSD + FD ☆

HRP Associates, Inc.

PAGE: 1 OF 1

SAMPLE DATE: 4/28/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	MW-10	Screen Setting (ft btoc):	____ to ____
Well Diameter (inches):	2	Tubing Intake (ft btoc):	
Total Depth (ft btoc):		Comments:	VOCs + natural attenuation
Depth to Water (ft btoc):	8.26		
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
0	8.26	150	9.4	7.11	1697	7.80	~~456.3~~	OR
3	8.34	↓	9.6	1.49	1689	7.62	-160.8	78.7
6	8.50		9.0	0.57	1650	7.10	-156.5	41.4
9	8.75		9.0	0.49	1640	7.11	-160.9	49.8
12	8.75		9.1	2.49	1649	7.15	-166.6	53.5
15	8.75		9.1	2.98	1650	7.14	-168.7	29.3
18	8.75		9.2	3.35	1654	7.16	-169.7	29.8
21	8.75		9.2	3.48	1658	7.14	-171.1	28.6
24	8.75		9.2	3.60	1657	7.15	-172.4	28.1

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
18	21	0	150	0	0.13	4	0.02	1.4	1.2
21	24	0	150	0	0.12	1	0.01	1.3	0.5
18	24	0	150	0	0.25	3	0.01	2.7	1.7
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1434

Reviewed By: RW

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

PAGE: 1 OF 1

SAMPLE DATE: 4/29/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	MW-12	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	2"	Tubing Intake (ft btoc):	10
Total Depth (ft btoc):	14.10	Comments:	VOCs only
Depth to Water (ft btoc):	5.00		
Well Condition:			

Time	Depth to Water	Evacuation Rate	Water Quality Monitoring Parameters					
			Temperature	DO	Conductivity	pH	ORP	Turbidity
(minutes)	(ft btoc)	(mL/min)	(°C)	mg/L	µs/cm		(mV)	NTU
0	5.00	200	10.7	3.30	1771	7.19	-140.5	452
3	5.10		11.2	0.72	1800	7.25	-178.0	233
6	5.15		10.9	0.50	1825	7.34	-173.6	105
9	5.15		10.9	0.41	1860	7.34	-189.6	55.8
12	5.15		10.8	0.35	1823	7.36	-175.9	27.6
15	5.15		10.7	0.30	1840	7.36	-154.9	21.9
18	5.15		10.6	0.26	1842	7.38	-188.2	15.2
21	5.15		10.7	0.25	1855	7.39	-189.8	8.46
24	5.15		10.7	0.23	1877	7.35	-191.1	4.37
27	5.15		10.7	0.21	1907	7.32	-192.5	4.13
30	5.15		10.7	0.20	1915	7.30	-193.1	4.44

0953

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water	Evacuation Rate	Temperature	DO	Conductivity	pH	ORP	Turbidity
FROM	TO	(ft btoc)	(mL/min)	(°C)	mg/L	µs/cm		(mV)	NTU
24	27	0	200	0	<0.5	30	0.03	1.4	<5
27	30	0	200	0	<0.5	8	0.02	0.6	<5
24	30	0	200	0	<0.5	38	0.05	2.0	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1023 Reviewed By: [signature]

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

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SAMPLE DATE: 4/28/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	MW-13	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	2	Tubing Intake (ft btoc):	10'
Total Depth (ft btoc):	13.60	Comments:	Oil smell, VOCs +
Depth to Water (ft btoc):	4.20		natural attenuation
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
0730 0	4.20	(50)	8.5	4.66	1934	7.24	-126.8	232
3	4.25	↓	9.8	0.85	1932	7.13	-140.3	88.9
6	4.27		9.9	0.71	1681	7.05	-144.5	35.9
9	4.27		9.9	0.75	1589	7.06	-143.2	30.5
12	4.28		9.9	1.04	1490	7.02	-140.1	27.7
15	4.28		9.6	1.36	1259	7.01	-138.9	11.7
18	4.28		9.7	2.16	1214	6.95	-138.9	7.17
21	4.28		9.8	2.24	1216	6.95	-139.0	4.54
24	4.28		9.9	2.36	1218	6.95	-139.2	4.12
27	4.28		9.9	3.75	1208	6.95	-139.1	3.93
30	4.28	↓	9.8	3.89	1218	6.93	-139.1	4.14
33	4.28	150	9.9	3.76	1219	6.93	-139.3	3.81

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
27	30	0	150	0.1	0.14	10	0.02	0	25
30	33	0	150	0.1	0.13	1	0.00	0.2	25
27	33	0	150	0.0	0.01	11	0.02	0.2	25
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 0803 Reviewed By:

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

Low-Flow Sampling Log

PAGE: 1 OF 1

SAMPLE DATE: 4/29/22

TOTAL # WELLS: 11

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	MW-14	Screen Setting (ft btoc):	2 to 12
Well Diameter (inches):	2"	Tubing Intake (ft btoc):	8
Total Depth (ft btoc):	11.90	Comments:	Oil sheen, yellow color at first, VOCs only
Depth to Water (ft btoc):	3.75		

Well Condition:

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
0820 0	3.75	150	10.0	4.96	1711	7.97	-34.9	325
3	3.75		10.7	3.03	1637	7.33	-56.1	103
6	3.75		10.7	1.81	1601	7.07	-16.9	105
9	3.75		10.8	2.35	1600	6.93	3.3	87.1
12	3.75		10.9	1.38	1614	6.87	21.0	24.1
15	3.75		11.0	1.32	1633	6.77	35.7	14.6
18	3.75		11.1	2.43	1643	6.71	41.2	4.75
21	3.75		11.1	2.40	1654	6.72	45.0	4.41
24	3.75		11.1	2.37	1659	6.67	48.7	3.38

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
18	21	0	150	0	0.03	11	0.01	3.8	<5
21	24	0	150	0	0.03	5	0.05	3.7	<5
18	24	0	150	0	0.06	16	0.04	7.5	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 0844 Reviewed By: [signature]

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

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SAMPLE DATE: 4/29/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	PES MW-4	Screen Setting (ft btoc):	5 to 10
Well Diameter (inches):	1	Tubing Intake (ft btoc):	8
Total Depth (ft btoc):	8.35	Comments:	Lots of bubbles when
Depth to Water (ft btoc):	4.87		filling VOC vials, VOCs only
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
1135 0	4.87	200	12.7	1.63	1409	7.51	-38.8	OR
3	5.15		11.6	0.63	1366	7.14	-69.2	875
6	5.15		11.8	0.30	1361	7.14	-88.0	272
9	5.15		11.7	0.22	1394	7.12	-119.9	78.2
12	5.15		11.7	0.25	1401	7.11	-127.9	41.6
15	5.15		11.7	0.22	1406	7.10	-135.8	24.1
18	5.15		11.7	0.39	1413	7.09	-144.4	15.5
21	5.15		11.7	0.51	1421	7.07	-148.3	16.1
24	5.15		11.7	0.55	1424	7.09	-150.9	4.75
27	5.15		11.7	0.52	1429	7.09	-154.1	4.00
30	5.15		11.7	0.53	1433	7.07	-155.4	4.67

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
24	27	0	200	0	0.03	5	0	3.2	<5
27	30	0	200	0	0.01	4	0.02	1.3	<5
24	30	0	200	0	0.02	9	0.02	4.5	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1205 Reviewed By: RLew

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

PAGE: 1 OF 1

SAMPLE DATE: 4/24/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	PES-MW-5	Screen Setting (ft btoc):	8 to 13
Well Diameter (inches):	1	Tubing Intake (ft btoc):	10
Total Depth (ft btoc):	12.65	Comments:	Lots of bubbles when filling VOC vials. VOCs only
Depth to Water (ft btoc):	4.94		
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
1050 0	4.94	200	11.7	3.05	1847	7.47	-76.8	342
3	5.02		11.6	0.82	1865	7.23	-115.1	122
6	5.02		11.6	0.37	2160	7.02	-160.7	20.7
9	5.02		11.6	0.30	2139	7.05	-166.9	15.9
12	5.02		11.7	0.23	2217	7.06	-176.7	23.8
15	5.02		11.7	0.21	2227	7.00	-178.2	16.1
18	5.02		11.8	0.21	2240	6.99	-179.9	15.8
21	5.02	↓	11.8	0.21	2251	6.99	-181.4	15.5

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
15	18	0	200	0.1	20.5	13	0.01	1.7	0.4
18	21	0	200	0.0	20.5	11	0.01	1.5	0.3
15	21	0	200	0.1	20.5	24	0.01	3.2	0.7
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1111 Reviewed By:

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

PAGE: 1 OF 1

SAMPLE DATE: 4/29/22

TOTAL # WELLS: 11

Low-Flow Sampling Log

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	222 South Ferry St, Schenectady, NY	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	YSI Pro Series
Well I.D.	PES-MW-6	Screen Setting (ft btoc):	4 to 14
Well Diameter (inches):	1	Tubing Intake (ft btoc):	10
Total Depth (ft btoc):	14.26	Comments:	Lots of bubbles when filling VOC vials, VOCs only
Depth to Water (ft btoc):	5.15		
Well Condition:			

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
1220 0	5.15	125	12.2	0.44	1942	6.99	-63.8	77.4
3	6.30		12.5	0.39	1945	6.74	-88.0	135
6	6.43		12.5	0.35	1925	6.86	-104.4	64.8
9	6.45		12.5	0.31	1872	6.99	-117.8	50.2
12	6.45		12.5	0.24	1887	6.96	-136.9	45.7
15	6.45		12.6	0.23	1896	6.97	-147.3	33.3
18	6.45		12.7	0.31	1903	6.94	-152.9	28.3
21	6.45		12.6	0.35	1897	6.98	-155.4	26.7
24	6.45	↓	12.6	0.40	1904	6.97	-157.1	27.1

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
18	21	0	125	0.1	<0.5	6	0.04	2.5	1.6
21	24	0	125	0.0	<0.5	7	0.01	1.7	0.4
18	24	6	125	0.1	<0.5	1	0.03	4.2	1.2
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

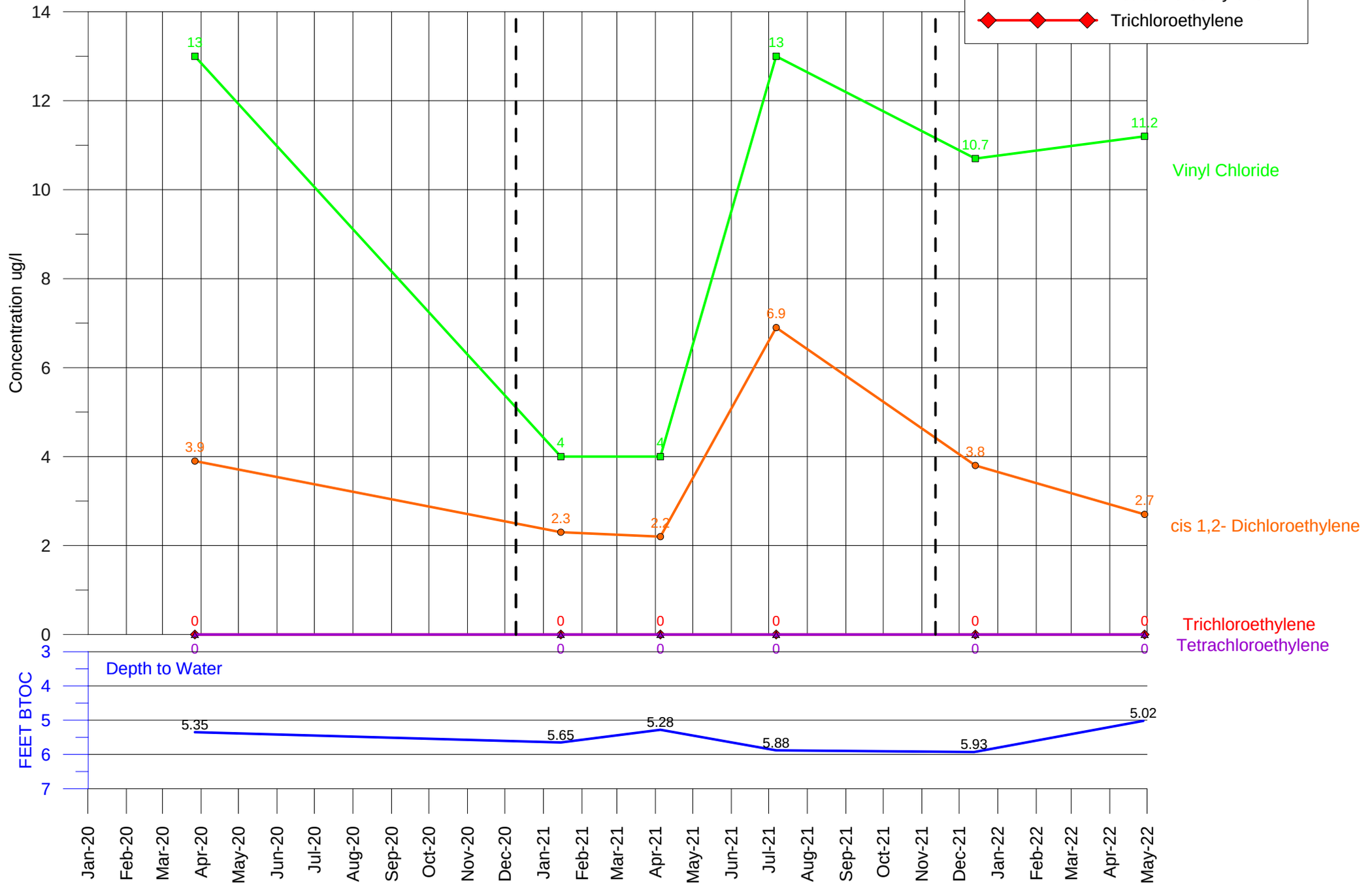
Sample Time: 1244 Reviewed By: [signature]

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

ATTACHMENT B
VOC and Groundwater Elevation Graphs

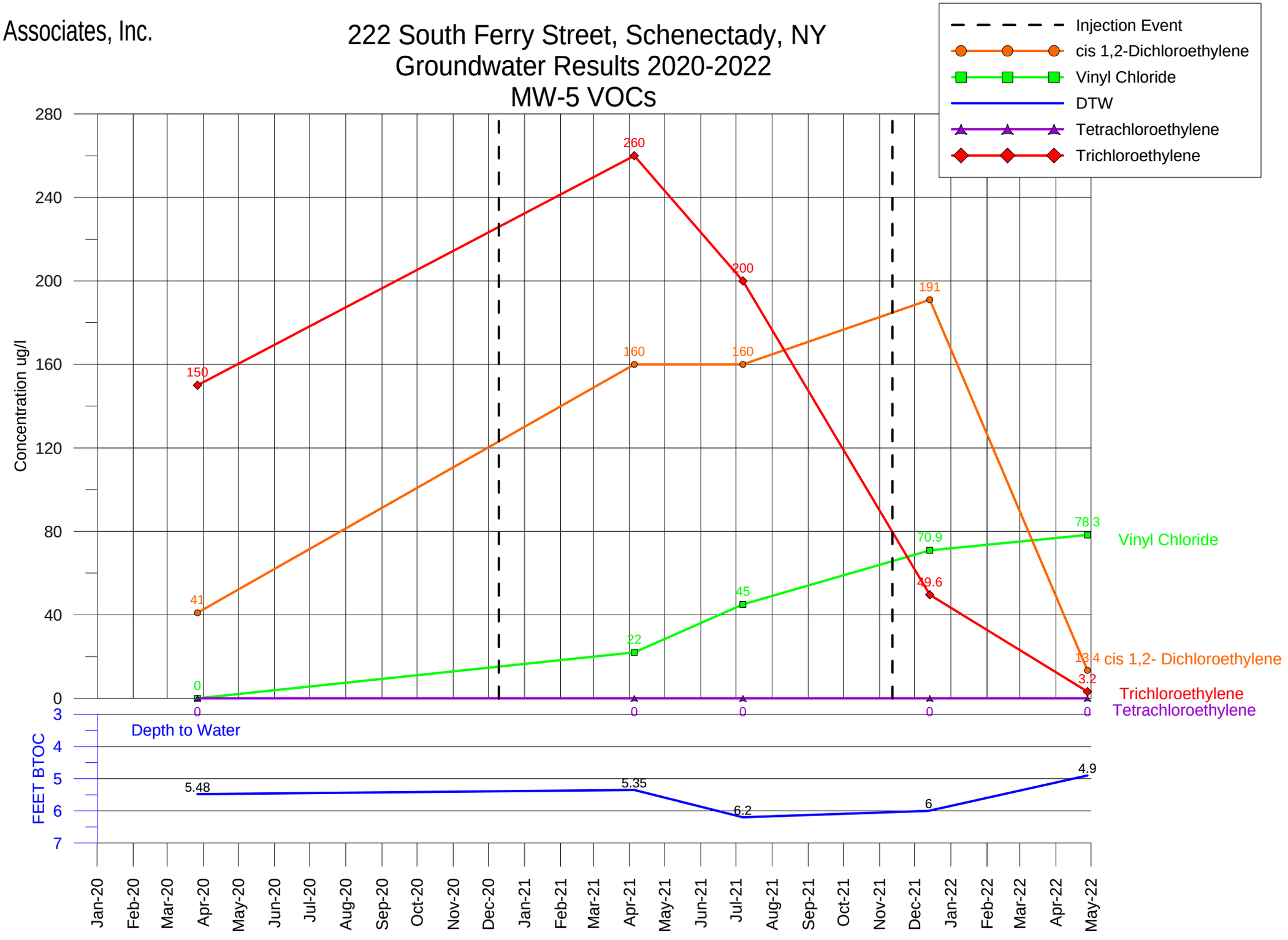
HRP Associates, Inc.

222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
MW-2 VOCs



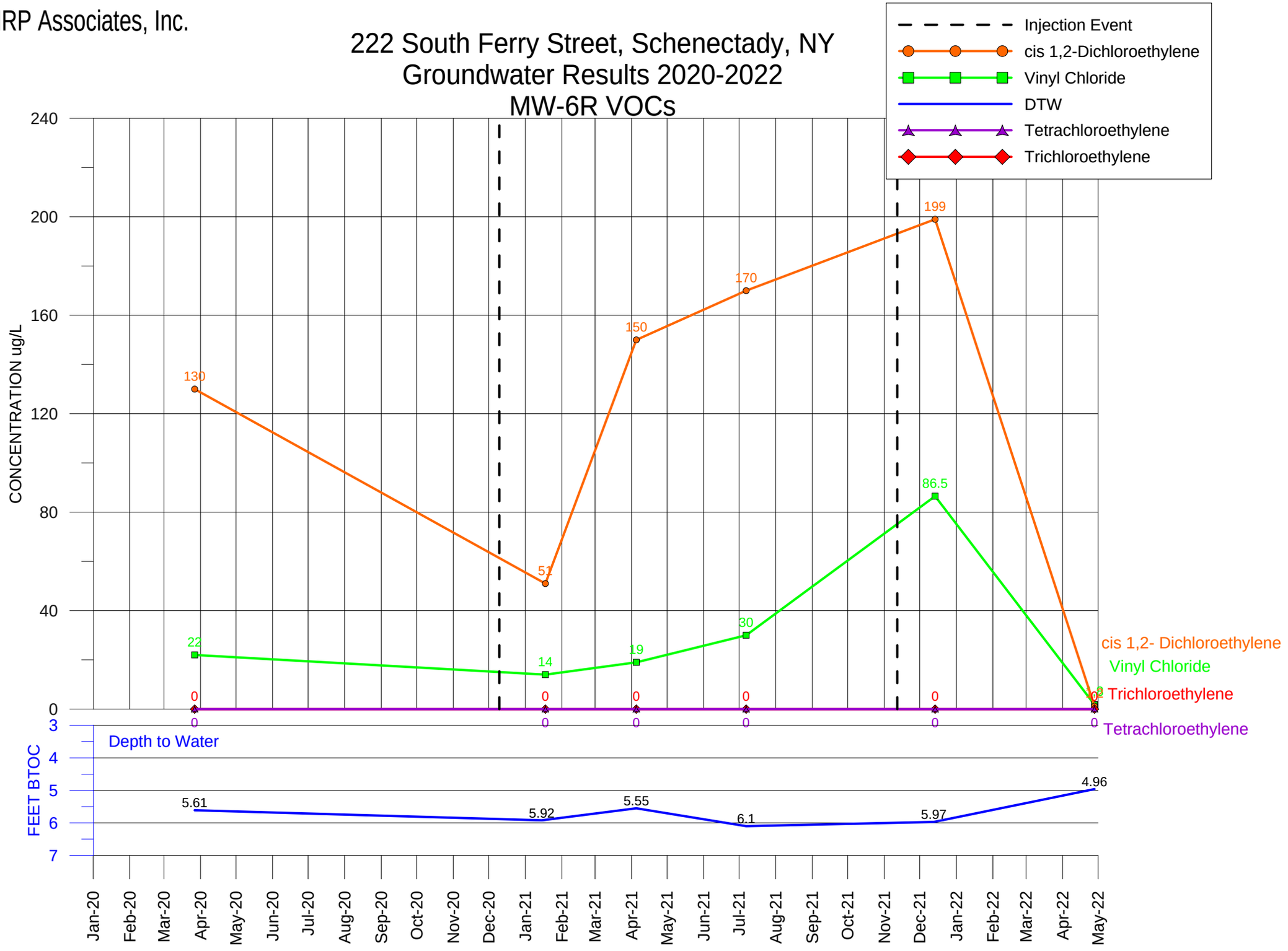
HRP Associates, Inc.

222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
MW-5 VOCs



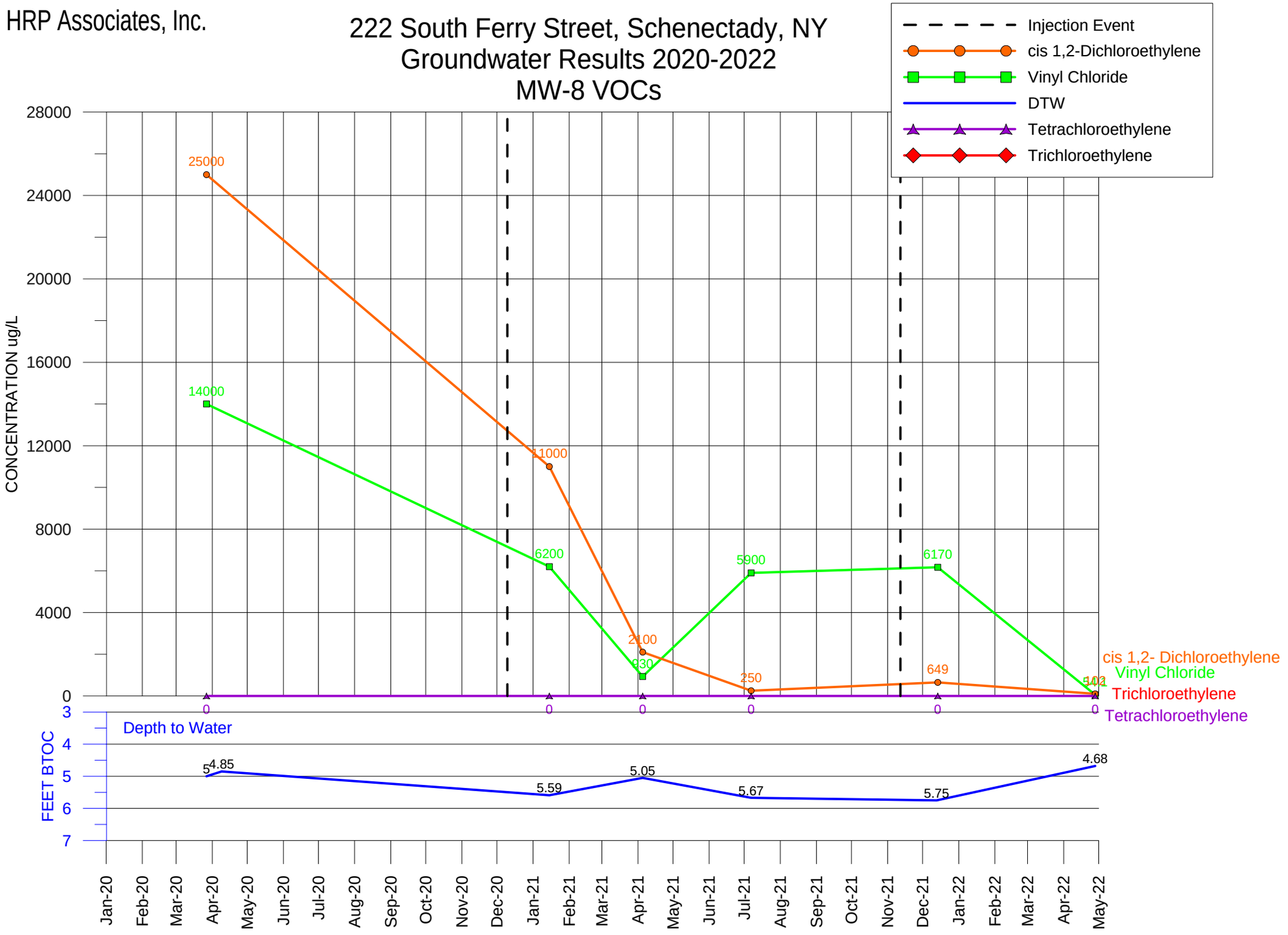
HRP Associates, Inc.

222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
MW-6R VOCs



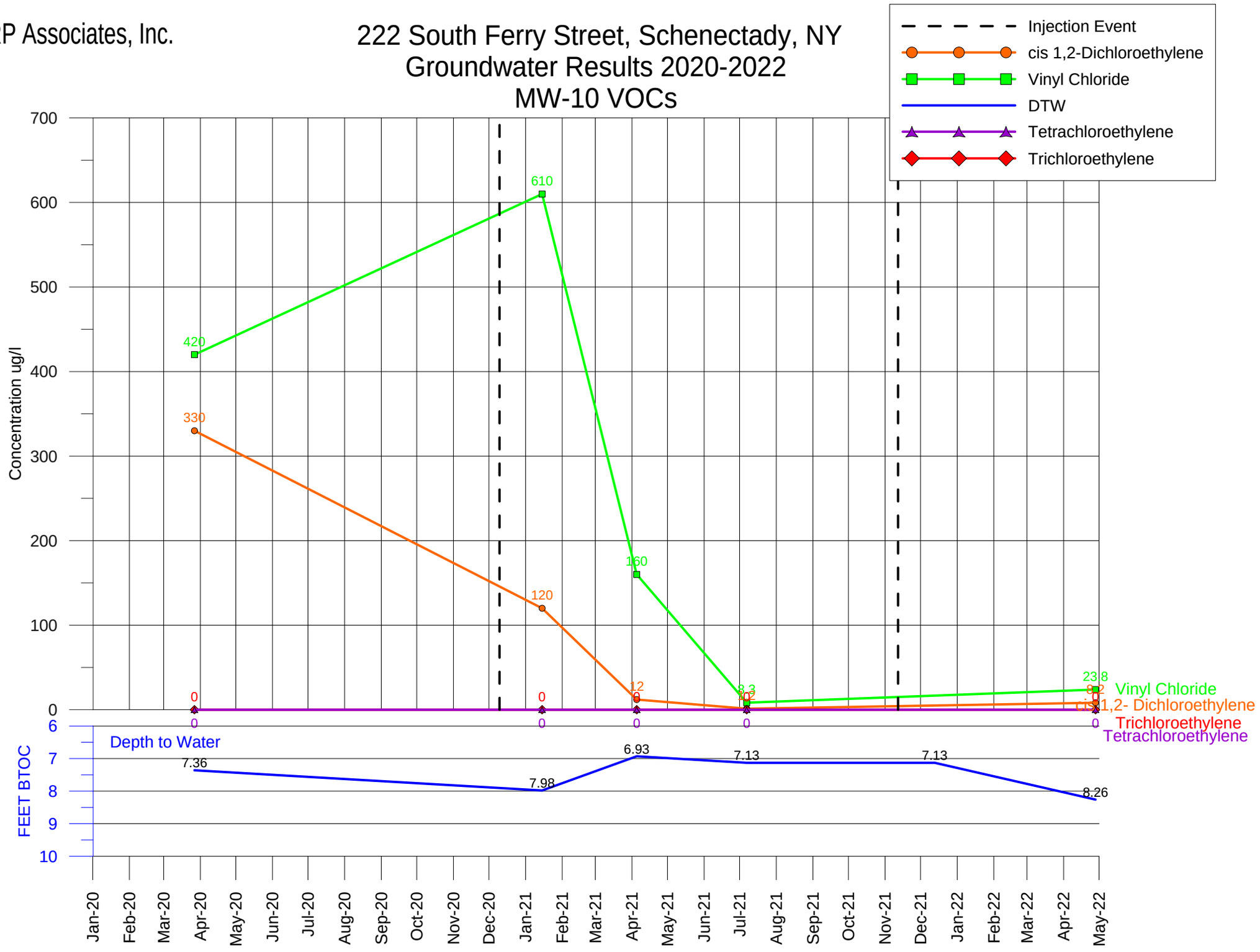
HRP Associates, Inc.

222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
MW-8 VOCs



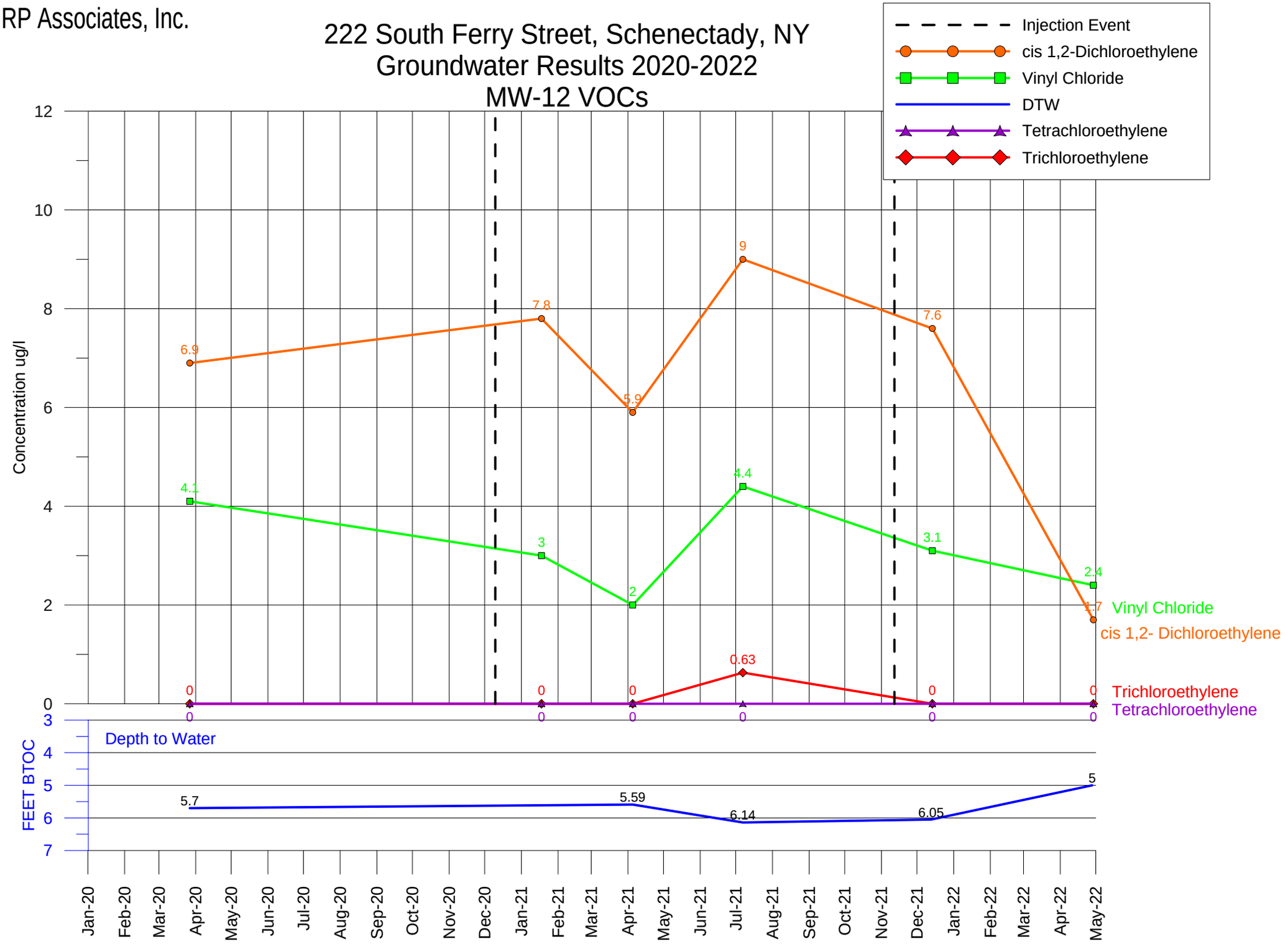
HRP Associates, Inc.

222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
MW-10 VOCs



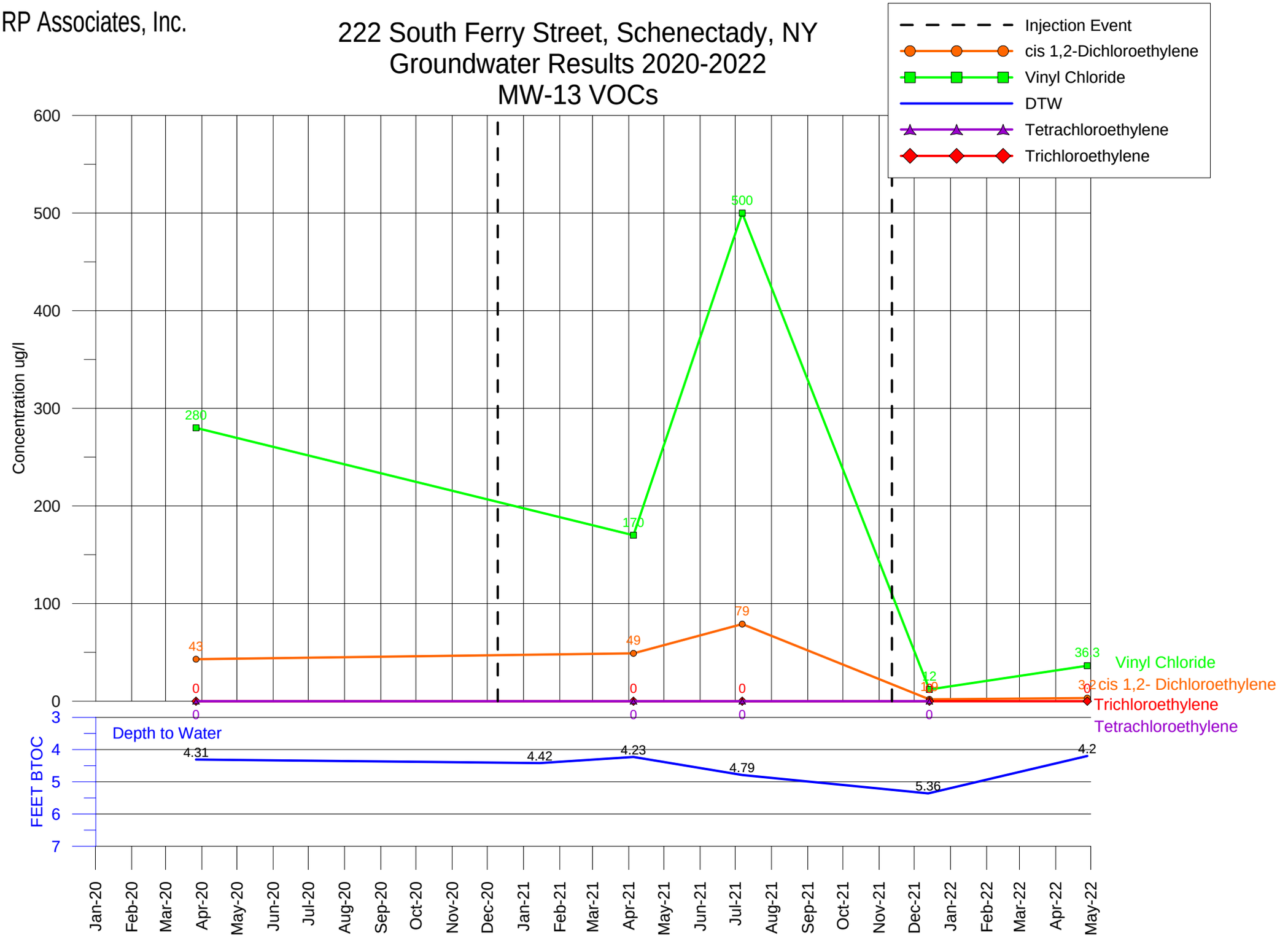
HRP Associates, Inc.

222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
MW-12 VOCs



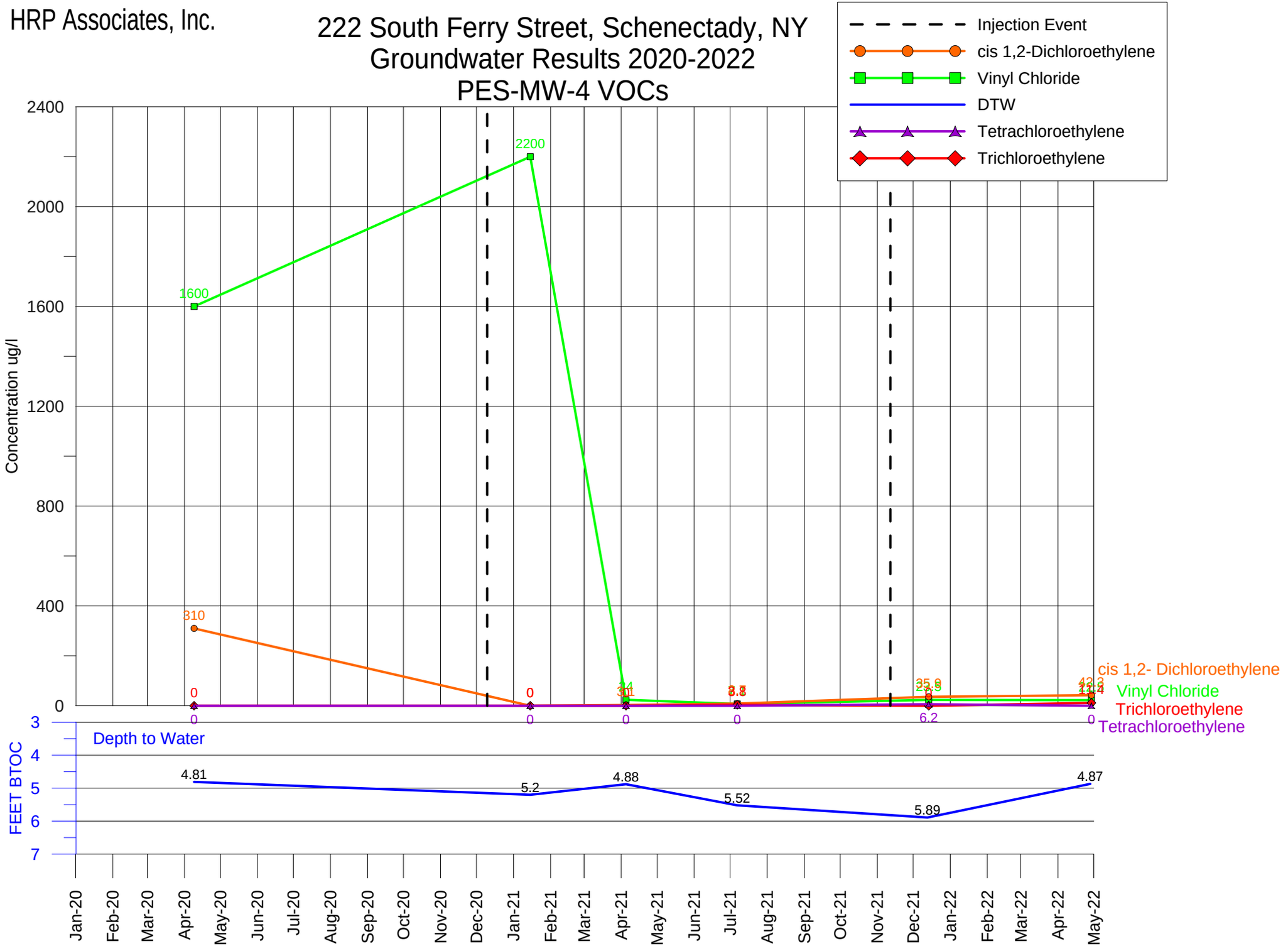
HRP Associates, Inc.

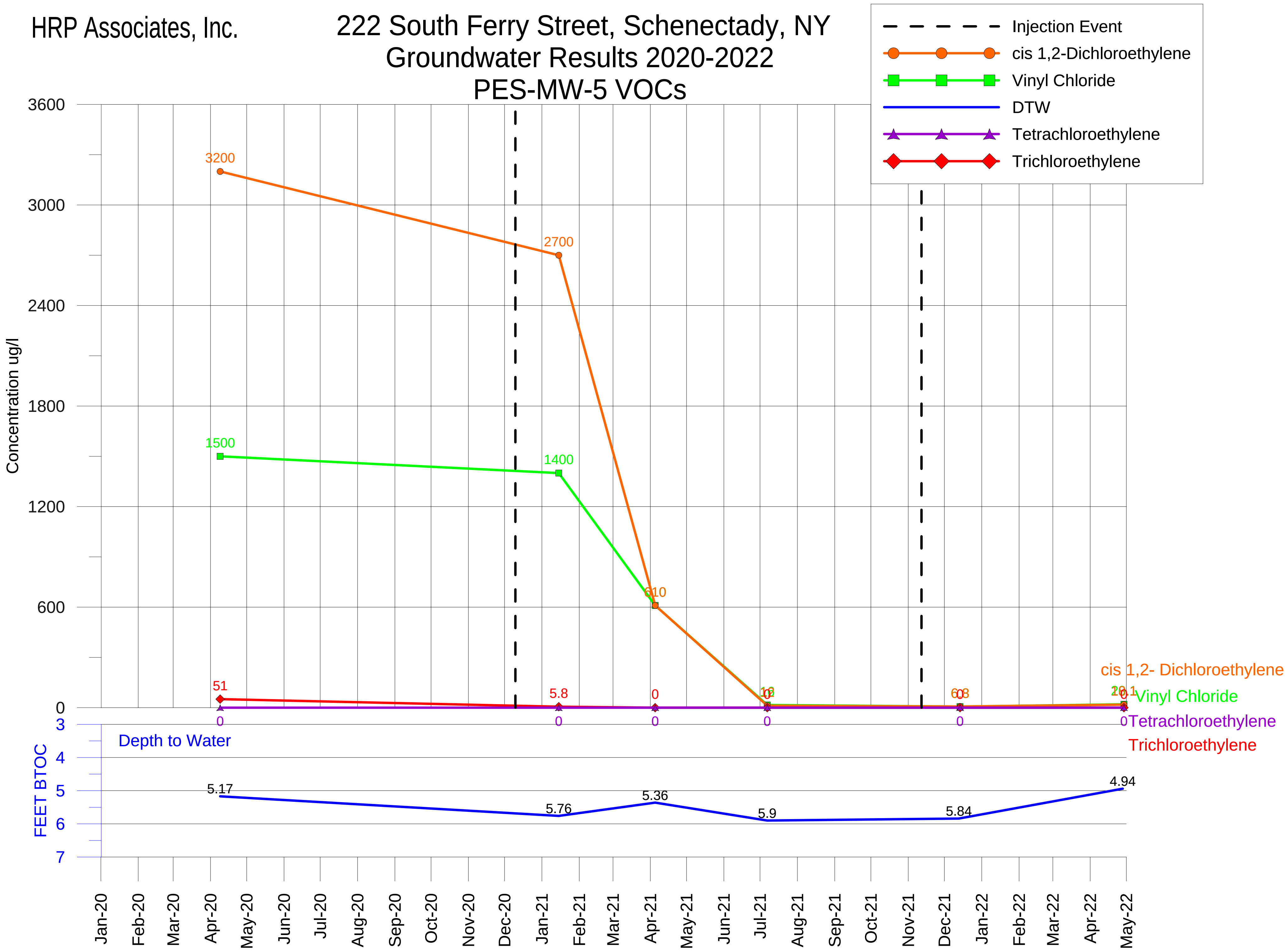
222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
MW-13 VOCs



HRP Associates, Inc.

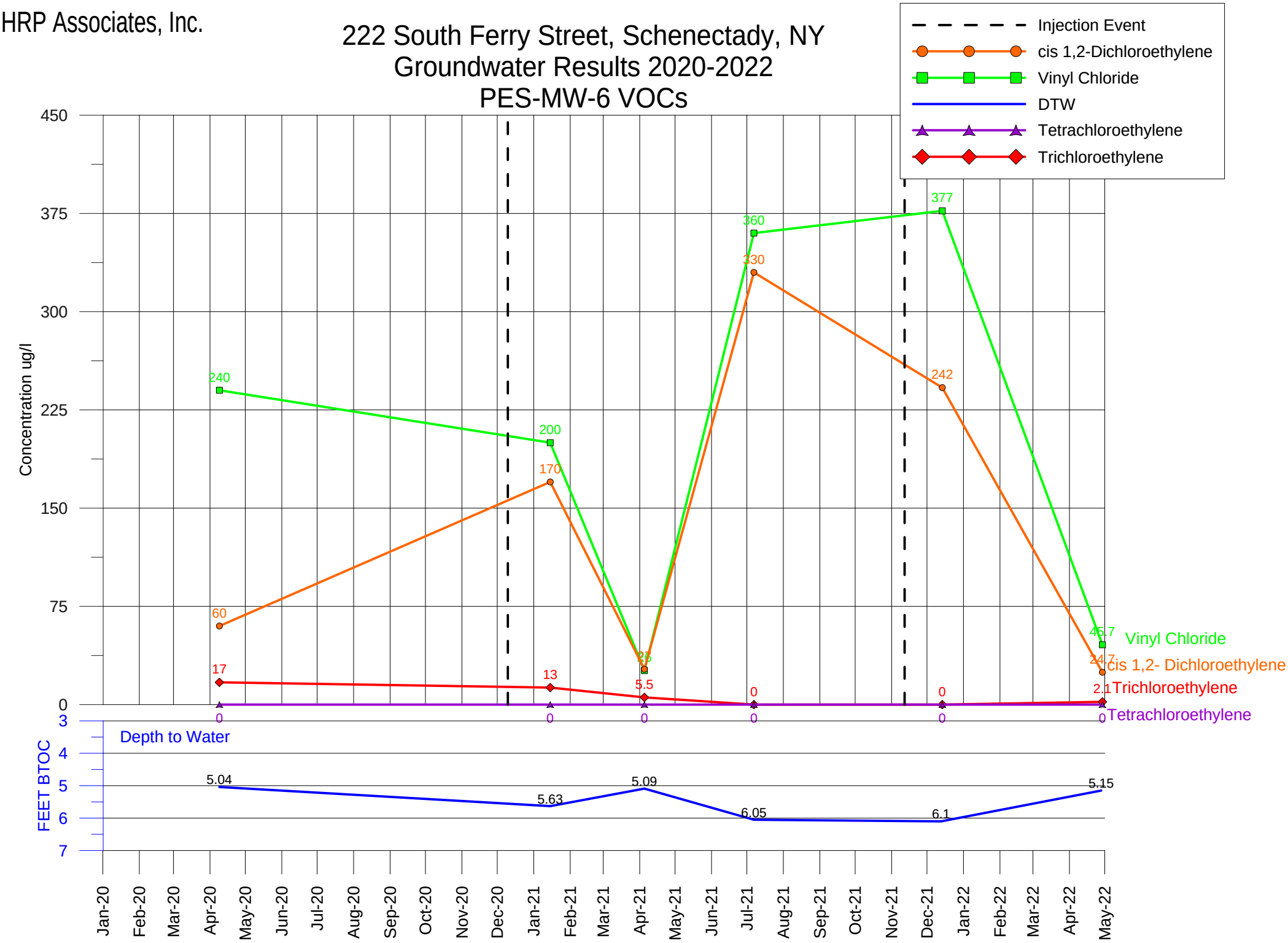
222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
PES-MW-4 VOCs




HRP Associates, Inc.
222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
PES-MW-5 VOCs
Injection Event
cis 1,2-Dichloroethylene
Vinyl Chloride
DTW
Tetrachloroethylene
Trichloroethylene
Concentration ug/l
3600
3000
2400
1800
1200
600
0
3200
2700
1500
1400
610
51
5.8
Depth to Water
FEET BTOC
5.17
5.76
5.36
5.9
5.84
4.94
cis 1,2- Dichloroethylene
Vinyl Chloride
Tetrachloroethylene
Trichloroethylene
Jan-20
Feb-20
Mar-20
Apr-20
May-20
Jun-20
Jul-20
Aug-20
Sep-20
Oct-20
Nov-20
Dec-20
Jan-21
Feb-21
Mar-21
Apr-21
May-21
Jun-21
Jul-21
Aug-21
Sep-21
Oct-21
Nov-21
Dec-21
Jan-22
Feb-22
Mar-22
Apr-22
May-22

HRP Associates, Inc.

222 South Ferry Street, Schenectady, NY
Groundwater Results 2020-2022
PES-MW-6 VOCs



ATTACHMENT C
Laboratory Analytical Report

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 13, 2022

Mark Wright
HRP Associates Inc

,

RE: Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Dear Mark Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri for
Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Ruth Curley, NYDEC
Reed Lewandowski, HRP Associates Inc
Patrick Montuori, HRP Associates, Inc.
EDD Recipient, HRP Associates

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **RSK-175**
Description: RSK 175 Dissolved Gases
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for RSK-175 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with RSK-175 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 254681

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212849003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1287694)
  - Ethane, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 6010C**
Description: 6010 MET ICP
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for EPA 6010C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 255490

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1290622)
  - Iron

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 6010C**
Description: 6010 MET ICP, Dissolved
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for EPA 6010C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 256432

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212849003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1295046)
  - Iron, Dissolved

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
7 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 255719

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- DUP-1_4.28.22 (Lab ID: 70212849006)
  - Acetone
- LCS (Lab ID: 1291879)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Acetone
  - Bromomethane
  - Dichlorodifluoromethane
- MS (Lab ID: 1291880)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Acetone
  - Bromomethane
  - Dichlorodifluoromethane
- MSD (Lab ID: 1291881)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Acetone
  - Bromomethane
  - Dichlorodifluoromethane
- MW-5_4.28.22 (Lab ID: 70212849004)
  - 2-Butanone (MEK)
  - Acetone
- MW-6R_4.28.22 (Lab ID: 70212849002)
  - 2-Butanone (MEK)
  - Acetone
- MW-8_4.28.22 (Lab ID: 70212849003)
  - 2-Butanone (MEK)
  - Acetone

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

QC Batch: 255719

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- DUP-1_4.28.22 (Lab ID: 70212849006)
  - Acetone
- LCS (Lab ID: 1291879)
  - Acetone
  - Bromomethane
- MS (Lab ID: 1291880)
  - Acetone
  - Bromomethane
- MSD (Lab ID: 1291881)
  - Acetone
  - Bromomethane
- MW-5_4.28.22 (Lab ID: 70212849004)
  - Acetone
- MW-6R_4.28.22 (Lab ID: 70212849002)
  - Acetone
- MW-8_4.28.22 (Lab ID: 70212849003)
  - Acetone

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1291878)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- DUP-1_4.28.22 (Lab ID: 70212849006)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- LCS (Lab ID: 1291879)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MS (Lab ID: 1291880)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

QC Batch: 255719

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- MSD (Lab ID: 1291881)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-10_4.28.22 (Lab ID: 70212849005)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-13_4.28.22 (Lab ID: 70212849001)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-5_4.28.22 (Lab ID: 70212849004)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-6R_4.28.22 (Lab ID: 70212849002)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-8_4.28.22 (Lab ID: 70212849003)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- TRIP BLANK (Lab ID: 70212849007)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 255719

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1291879)
  - Bromomethane

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1291879)
  - Methylcyclohexane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 255719

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212849003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 1291881)
  - Bromomethane

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1291880)
  - Trichloroethene
- MSD (Lab ID: 1291881)
  - Trichloroethene
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1291881)
  - Bromomethane

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **SM22 2320B**
Description: 2320B Alkalinity
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for SM22 2320B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 256145

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212849003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1293988)
  - Alkalinity, Total as CaCO3

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for EPA 300.0 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 255830

B: Analyte was detected in the associated method blank.

- BLANK for HBN 255830 [WETA/406 (Lab ID: 1292340)
  - Sulfate

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 255830

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70213194002,70213622002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1292344)
  - Chloride
  - Sulfate

QC Batch: 255831

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212849003,70213281003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1292352)
  - Chloride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 254573

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212802001,70212849006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1286502)
  - Nitrate-Nitrite (as N)

QC Batch: 254574

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212849003,70212874002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1286508)
  - Nitrate-Nitrite (as N)
- MS (Lab ID: 1286510)
  - Nitrate-Nitrite (as N)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 254571

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70212849003,70212849006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1286487)
  - Nitrite as N
- MS (Lab ID: 1286489)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Method: **SM22 5310B**
Description: 5310B TOC as NPOC
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
6 samples were analyzed for SM22 5310B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-13_4.28.22 **Lab ID: 70212849001** Collected: 04/28/22 08:03 Received: 04/29/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175 Pace Analytical Services - Melville							
Ethane, Dissolved	**547**	ug/L	255	255	05/02/22 11:11	05/05/22 10:21	74-84-0	
Ethene, Dissolved	**<255**	ug/L	255	255	05/02/22 11:11	05/05/22 10:21	74-85-1	
Methane, Dissolved	**9860**	ug/L	510	510	05/02/22 11:11	05/05/22 10:42	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Iron	**26300**	ug/L	100	1	05/03/22 10:59	05/04/22 11:43	7439-89-6	
Manganese	**1060**	ug/L	10.0	1	05/03/22 10:59	05/04/22 11:43	7439-96-5	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C Pace Analytical Services - Melville							
Iron, Dissolved	**21.6J**	ug/L	100	1		05/13/22 12:30	7439-89-6	
Manganese, Dissolved	**948**	ug/L	10.0	1		05/13/22 12:30	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/09/22 12:54	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/09/22 12:54	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/09/22 12:54	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/09/22 12:54	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/09/22 12:54	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-35-4	
cis-1,2-Dichloroethene	**3.2**	ug/L	1.0	1		05/09/22 12:54	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-13_4.28.22 **Lab ID: 70212849001** Collected: 04/28/22 08:03 Received: 04/29/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
2-Hexanone	**<5.0**	ug/L	5.0	1		05/09/22 12:54	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/09/22 12:54	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/09/22 12:54	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	108-87-2	L2,v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/09/22 12:54	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/09/22 12:54	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 12:54	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/09/22 12:54	76-13-1	
Vinyl chloride	**36.3**	ug/L	1.0	1		05/09/22 12:54	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/09/22 12:54	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/09/22 12:54	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/09/22 12:54	460-00-4	
Toluene-d8 (S)	97	%	82-122	1		05/09/22 12:54	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**521**	mg/L	1.0	1		05/11/22 16:03		
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	**<2.0**	mg/L	2.0	1		05/04/22 19:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	**78.6**	mg/L	2.0	1		05/10/22 01:49	16887-00-6	
Sulfate	**0.20J**	mg/L	5.0	1		05/10/22 01:49	14808-79-8	B
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	**<0.050**	mg/L	0.050	1		04/29/22 21:51	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		04/29/22 21:51	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		04/29/22 20:30	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-13_4.28.22 **Lab ID: 70212849001** Collected: 04/28/22 08:03 Received: 04/29/22 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	**6.4**	mg/L	1.0	1		05/11/22 16:38	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-6R_4.28.22 **Lab ID: 70212849002** Collected: 04/28/22 09:43 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175 Pace Analytical Services - Melville							
Ethane, Dissolved	**<43.0**	ug/L	43.0	43	05/02/22 11:11	05/05/22 10:32	74-84-0	
Ethene, Dissolved	**<43.0**	ug/L	43.0	43	05/02/22 11:11	05/05/22 10:32	74-85-1	
Methane, Dissolved	**19700**	ug/L	1280	1275	05/02/22 11:11	05/05/22 11:33	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Iron	**82800**	ug/L	100	1	05/03/22 10:59	05/04/22 11:46	7439-89-6	
Manganese	**5990**	ug/L	10.0	1	05/03/22 10:59	05/04/22 11:46	7439-96-5	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C Pace Analytical Services - Melville							
Iron, Dissolved	**15.7J**	ug/L	100	1		05/13/22 12:32	7439-89-6	
Manganese, Dissolved	**5320**	ug/L	10.0	1		05/13/22 12:32	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**20.4**	ug/L	5.0	1		05/09/22 13:13	67-64-1	IH,v1
Benzene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	74-83-9	L1
2-Butanone (MEK)	**21.5**	ug/L	5.0	1		05/09/22 13:13	78-93-3	IH
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/09/22 13:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/09/22 13:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/09/22 13:13	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-35-4	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	1		05/09/22 13:13	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-6R_4.28.22 **Lab ID: 70212849002** Collected: 04/28/22 09:43 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
2-Hexanone	**<5.0**	ug/L	5.0	1		05/09/22 13:13	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/09/22 13:13	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/09/22 13:13	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	108-87-2	L2,v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/09/22 13:13	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/09/22 13:13	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:13	76-13-1	
Vinyl chloride	**1.8**	ug/L	1.0	1		05/09/22 13:13	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/09/22 13:13	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/09/22 13:13	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/09/22 13:13	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		05/09/22 13:13	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**798**	mg/L	1.0	1		05/11/22 16:35		
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	**<2.0**	mg/L	2.0	1		05/04/22 19:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	**69.8**	mg/L	2.0	1		05/10/22 02:03	16887-00-6	
Sulfate	**0.17J**	mg/L	5.0	1		05/10/22 02:03	14808-79-8	B
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	**<0.050**	mg/L	0.050	1		04/29/22 21:52	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		04/29/22 21:52	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		04/29/22 20:32	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-6R_4.28.22 **Lab ID: 70212849002** Collected: 04/28/22 09:43 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	**245**	mg/L	10.0	10		05/12/22 00:38	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-8_4.28.22 **Lab ID: 70212849003** Collected: 04/28/22 10:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175 Pace Analytical Services - Melville							
Ethane, Dissolved	**<510**	ug/L	510	510	05/02/22 11:11	05/05/22 11:05	74-84-0	M1
Ethene, Dissolved	**3840**	ug/L	510	510	05/02/22 11:11	05/05/22 11:05	74-85-1	
Methane, Dissolved	**1800**	ug/L	510	510	05/02/22 11:11	05/05/22 11:05	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Iron	**36400**	ug/L	100	1	05/03/22 10:59	05/04/22 12:00	7439-89-6	
Manganese	**4460**	ug/L	10.0	1	05/03/22 10:59	05/04/22 12:00	7439-96-5	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C Pace Analytical Services - Melville							
Iron, Dissolved	**<100**	ug/L	100	1		05/13/22 12:35	7439-89-6	M1
Manganese, Dissolved	**4680**	ug/L	10.0	1		05/13/22 12:35	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**28.5**	ug/L	5.0	1		05/09/22 13:32	67-64-1	IH,v1
Benzene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	74-83-9	L1,M0, R1
2-Butanone (MEK)	**29.4**	ug/L	5.0	1		05/09/22 13:32	78-93-3	IH
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/09/22 13:32	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/09/22 13:32	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/09/22 13:32	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-35-4	
cis-1,2-Dichloroethene	**102**	ug/L	1.0	1		05/09/22 13:32	156-59-2	M1
trans-1,2-Dichloroethene	**2.9**	ug/L	1.0	1		05/09/22 13:32	156-60-5	M1
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-8_4.28.22 **Lab ID: 70212849003** Collected: 04/28/22 10:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
2-Hexanone	**3.7J**	ug/L	5.0	1		05/09/22 13:32	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/09/22 13:32	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/09/22 13:32	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	108-87-2	L2,v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/09/22 13:32	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/09/22 13:32	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:32	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	79-00-5	
Trichloroethene	**45.2**	ug/L	1.0	1		05/09/22 13:32	79-01-6	M1
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:32	76-13-1	
Vinyl chloride	**54.1**	ug/L	1.0	1		05/09/22 13:32	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/09/22 13:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		05/09/22 13:32	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/09/22 13:32	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/09/22 13:32	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**667**	mg/L	1.0	1		05/11/22 17:02		M1
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	**<2.0**	mg/L	2.0	1		05/04/22 19:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	**360**	mg/L	20.0	10		05/10/22 21:58	16887-00-6	M1
Sulfate	**14.0**	mg/L	5.0	1		05/10/22 02:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	**<0.050**	mg/L	0.050	1		04/29/22 22:23	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		04/29/22 22:23	7727-37-9	M1
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		04/29/22 20:40	14797-65-0	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-8_4.28.22 **Lab ID: 70212849003** Collected: 04/28/22 10:30 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	**43.2**	mg/L	1.0	1		05/11/22 17:21	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-5_4.28.22 **Lab ID: 70212849004** Collected: 04/28/22 13:35 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175 Pace Analytical Services - Melville							
Ethane, Dissolved	**5.0**	ug/L	1.0	1	05/02/22 11:11	05/04/22 12:48	74-84-0	
Ethene, Dissolved	**3690**	ug/L	510	510	05/02/22 11:11	05/05/22 11:24	74-85-1	
Methane, Dissolved	**3150**	ug/L	510	510	05/02/22 11:11	05/05/22 11:24	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Iron	**30600**	ug/L	100	1	05/03/22 10:59	05/04/22 12:12	7439-89-6	
Manganese	**3230**	ug/L	10.0	1	05/03/22 10:59	05/04/22 12:12	7439-96-5	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C Pace Analytical Services - Melville							
Iron, Dissolved	**269**	ug/L	100	1		05/13/22 12:44	7439-89-6	
Manganese, Dissolved	**2940**	ug/L	10.0	1		05/13/22 12:44	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**11.9**	ug/L	5.0	1		05/09/22 13:52	67-64-1	IH,v1
Benzene	**0.54J**	ug/L	1.0	1		05/09/22 13:52	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	74-83-9	L1
2-Butanone (MEK)	**3.0J**	ug/L	5.0	1		05/09/22 13:52	78-93-3	IH
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/09/22 13:52	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/09/22 13:52	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/09/22 13:52	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-35-4	
cis-1,2-Dichloroethene	**13.4**	ug/L	1.0	1		05/09/22 13:52	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-5_4.28.22 **Lab ID: 70212849004** Collected: 04/28/22 13:35 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
2-Hexanone	**<5.0**	ug/L	5.0	1		05/09/22 13:52	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/09/22 13:52	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/09/22 13:52	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	108-87-2	L2,v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/09/22 13:52	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/09/22 13:52	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	127-18-4	v3
Toluene	**1.1**	ug/L	1.0	1		05/09/22 13:52	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 13:52	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	79-00-5	
Trichloroethene	**3.2**	ug/L	1.0	1		05/09/22 13:52	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/09/22 13:52	76-13-1	
Vinyl chloride	**78.3**	ug/L	1.0	1		05/09/22 13:52	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/09/22 13:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	81-122	1		05/09/22 13:52	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/09/22 13:52	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/09/22 13:52	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**362**	mg/L	1.0	1		05/11/22 18:18		
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	**<2.0**	mg/L	2.0	1		05/04/22 19:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	**24.8**	mg/L	2.0	1		05/10/22 02:16	16887-00-6	
Sulfate	**21.0**	mg/L	5.0	1		05/10/22 02:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	**<0.050**	mg/L	0.050	1		04/29/22 22:19	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		04/29/22 22:19	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		04/29/22 20:39	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-5_4.28.22 **Lab ID: 70212849004** Collected: 04/28/22 13:35 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	**58.0**	mg/L	1.0	1		05/11/22 18:38	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-10_4.28.22 **Lab ID: 70212849005** Collected: 04/28/22 14:34 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175 Pace Analytical Services - Melville							
Ethane, Dissolved	**799**	ug/L	510	510	05/02/22 11:11	05/05/22 11:43	74-84-0	
Ethene, Dissolved	**3530**	ug/L	510	510	05/02/22 11:11	05/05/22 11:43	74-85-1	
Methane, Dissolved	**8310**	ug/L	510	510	05/02/22 11:11	05/05/22 11:43	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Iron	**50900**	ug/L	100	1	05/06/22 09:10	05/13/22 12:00	7439-89-6	
Manganese	**5030**	ug/L	10.0	1	05/06/22 09:10	05/13/22 12:00	7439-96-5	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C Pace Analytical Services - Melville							
Iron, Dissolved	**15.1J**	ug/L	100	1		05/13/22 12:47	7439-89-6	
Manganese, Dissolved	**4340**	ug/L	10.0	1		05/13/22 12:47	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/09/22 14:11	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/09/22 14:11	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/09/22 14:11	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/09/22 14:11	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/09/22 14:11	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-35-4	
cis-1,2-Dichloroethene	**8.2**	ug/L	1.0	1		05/09/22 14:11	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-10_4.28.22 **Lab ID: 70212849005** Collected: 04/28/22 14:34 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
2-Hexanone	**<5.0**	ug/L	5.0	1		05/09/22 14:11	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/09/22 14:11	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/09/22 14:11	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	108-87-2	L2,v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/09/22 14:11	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/09/22 14:11	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 14:11	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:11	76-13-1	
Vinyl chloride	**23.8**	ug/L	1.0	1		05/09/22 14:11	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/09/22 14:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/09/22 14:11	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/09/22 14:11	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/09/22 14:11	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**736**	mg/L	1.0	1		05/11/22 18:45		
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	**<2.0**	mg/L	2.0	1		05/04/22 19:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	**107**	mg/L	10.0	5		05/10/22 22:38	16887-00-6	
Sulfate	**50.3**	mg/L	5.0	1		05/10/22 03:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	**<0.050**	mg/L	0.050	1		04/29/22 22:34	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		04/29/22 22:34	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		04/29/22 20:45	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: MW-10_4.28.22 **Lab ID: 70212849005** Collected: 04/28/22 14:34 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	**5.3**	mg/L	1.0	1		05/11/22 18:53	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: DUP-1_4.28.22 **Lab ID: 70212849006** Collected: 04/28/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Dissolved Gases	Analytical Method: RSK-175 Preparation Method: RSK-175 Pace Analytical Services - Melville							
Ethane, Dissolved	**609**	ug/L	510	510	05/02/22 11:11	05/05/22 11:53	74-84-0	
Ethene, Dissolved	**3320**	ug/L	510	510	05/02/22 11:11	05/05/22 11:53	74-85-1	
Methane, Dissolved	**19200**	ug/L	1280	1275	05/02/22 11:11	05/05/22 12:13	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A Pace Analytical Services - Melville							
Iron	**41700**	ug/L	100	1	05/06/22 09:10	05/13/22 12:02	7439-89-6	
Manganese	**5020**	ug/L	10.0	1	05/06/22 09:10	05/13/22 12:02	7439-96-5	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C Pace Analytical Services - Melville							
Iron, Dissolved	**<100**	ug/L	100	1		05/13/22 12:54	7439-89-6	
Manganese, Dissolved	**4430**	ug/L	10.0	1		05/13/22 12:54	7439-96-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**14.4**	ug/L	5.0	1		05/09/22 14:30	67-64-1	IH,v1
Benzene	**0.55J**	ug/L	1.0	1		05/09/22 14:30	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/09/22 14:30	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/09/22 14:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/09/22 14:30	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/09/22 14:30	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-35-4	
cis-1,2-Dichloroethene	**12.6**	ug/L	1.0	1		05/09/22 14:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: DUP-1_4.28.22 **Lab ID: 70212849006** Collected: 04/28/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
2-Hexanone	**<5.0**	ug/L	5.0	1		05/09/22 14:30	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/09/22 14:30	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/09/22 14:30	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	108-87-2	L2,v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/09/22 14:30	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/09/22 14:30	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	127-18-4	v3
Toluene	**1.6**	ug/L	1.0	1		05/09/22 14:30	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 14:30	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	79-00-5	
Trichloroethene	**4.1**	ug/L	1.0	1		05/09/22 14:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/09/22 14:30	76-13-1	
Vinyl chloride	**25.7**	ug/L	1.0	1		05/09/22 14:30	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/09/22 14:30	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/09/22 14:30	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/09/22 14:30	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/09/22 14:30	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	**653**	mg/L	1.0	1		05/12/22 10:43		
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	**<2.0**	mg/L	2.0	1		05/04/22 19:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	**374**	mg/L	20.0	10		05/10/22 23:33	16887-00-6	
Sulfate	**10.7**	mg/L	5.0	1		05/10/22 04:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	**<0.050**	mg/L	0.050	1		04/29/22 21:47	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		04/29/22 21:47	7727-37-9	M1
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	**<0.050**	mg/L	0.050	1		04/29/22 20:23	14797-65-0	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: DUP-1_4.28.22 **Lab ID: 70212849006** Collected: 04/28/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	**38.3**	mg/L	1.0	1		05/11/22 19:32	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: TRIP BLANK **Lab ID: 70212849007** Collected: 04/28/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/09/22 11:37	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	74-83-9	L1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/09/22 11:37	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/09/22 11:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/09/22 11:37	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/09/22 11:37	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/09/22 11:37	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/09/22 11:37	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/09/22 11:37	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	108-87-2	L2,v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/09/22 11:37	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/09/22 11:37	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/09/22 11:37	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/09/22 11:37	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Sample: TRIP BLANK **Lab ID: 70212849007** Collected: 04/28/22 00:00 Received: 04/29/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/09/22 11:37	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/09/22 11:37	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/09/22 11:37	17060-07-0	
4-Bromofluorobenzene (S)	100	%	79-118	1		05/09/22 11:37	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		05/09/22 11:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 254681 Analysis Method: RSK-175
QC Batch Method: RSK-175 Analysis Description: RSK 175 HEADSPACE
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

METHOD BLANK: 1286839 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane, Dissolved	ug/L	<1.0	1.0	05/04/22 10:02	
Ethene, Dissolved	ug/L	<1.0	1.0	05/04/22 10:02	
Methane, Dissolved	ug/L	<1.0	1.0	05/04/22 10:02	

LABORATORY CONTROL SAMPLE: 1286840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane, Dissolved	ug/L	10.2	8.2	80	10-168	
Ethene, Dissolved	ug/L	10.3	7.6	74	10-186	
Methane, Dissolved	ug/L	10.2	4.2	42	10-93	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1287694 1287695

Parameter	Units	70212849003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Ethane, Dissolved	ug/L	<510	5210	5210	688	813	8	11	10-128	17	M1
Ethene, Dissolved	ug/L	3840	5260	5260	4440	4780	11	18	10-145	7	
Methane, Dissolved	ug/L	1800	5210	5210	7100	8070	102	120	10-185	13	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 256432
QC Batch Method: EPA 6010C
Analysis Method: EPA 6010C
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

METHOD BLANK: 1295043 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<100	100	05/13/22 12:25	
Manganese, Dissolved	ug/L	<10.0	10.0	05/13/22 12:25	

LABORATORY CONTROL SAMPLE: 1295044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	12500	12000	96	80-120	
Manganese, Dissolved	ug/L	500	481	96	80-120	

MATRIX SPIKE SAMPLE: 1295046

Parameter	Units	70212849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	<100	5000	3410	68	75-125	M1
Manganese, Dissolved	ug/L	4680	500	5090	82	75-125	

SAMPLE DUPLICATE: 1295045

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Iron, Dissolved	ug/L	<100	10.1J		
Manganese, Dissolved	ug/L	4680	4710	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 254804
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010 MET Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004

METHOD BLANK: 1287357 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	05/04/22 10:49	
Manganese	ug/L	<10.0	10.0	05/04/22 10:49	

LABORATORY CONTROL SAMPLE: 1287358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	12600	100	80-120	
Manganese	ug/L	500	488	98	80-120	

MATRIX SPIKE SAMPLE: 1287360

Parameter	Units	70212849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	36400	5000	40500	81	75-125	
Manganese	ug/L	4460	500	4890	86	75-125	

SAMPLE DUPLICATE: 1287359

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	36400	39400	8	
Manganese	ug/L	4460	4870	9	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 255490
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010C
Analysis Description: 6010 MET Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849005, 70212849006

METHOD BLANK: 1290499 Matrix: Water
Associated Lab Samples: 70212849005, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	05/12/22 14:54	
Manganese	ug/L	<10.0	10.0	05/12/22 14:54	

LABORATORY CONTROL SAMPLE: 1290500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	12500	11600	93	80-120	
Manganese	ug/L	500	458	92	80-120	

MATRIX SPIKE SAMPLE: 1290501

Parameter	Units	70212658012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1590	5000	6150	91	75-125	
Manganese	ug/L	33.4	500	487	91	75-125	

SAMPLE DUPLICATE: 1290622

Parameter	Units	70212658012 Result	Dup Result	RPD	Qualifiers
Iron	ug/L	1590	2000	23	D6
Manganese	ug/L	33.4	35.6	6	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 255719 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006, 70212849007

METHOD BLANK: 1291878 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006, 70212849007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/09/22 09:07	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/09/22 09:07	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/09/22 09:07	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	05/09/22 09:07	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/09/22 09:07	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/09/22 09:07	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/09/22 09:07	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	05/09/22 09:07	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/09/22 09:07	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/09/22 09:07	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/09/22 09:07	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/09/22 09:07	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/09/22 09:07	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/09/22 09:07	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/09/22 09:07	
2-Hexanone	ug/L	<5.0	5.0	05/09/22 09:07	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/09/22 09:07	
Acetone	ug/L	<5.0	5.0	05/09/22 09:07	
Benzene	ug/L	<1.0	1.0	05/09/22 09:07	
Bromodichloromethane	ug/L	<1.0	1.0	05/09/22 09:07	
Bromoform	ug/L	<1.0	1.0	05/09/22 09:07	
Bromomethane	ug/L	<1.0	1.0	05/09/22 09:07	
Carbon disulfide	ug/L	<1.0	1.0	05/09/22 09:07	
Carbon tetrachloride	ug/L	<1.0	1.0	05/09/22 09:07	
Chlorobenzene	ug/L	<1.0	1.0	05/09/22 09:07	
Chloroethane	ug/L	<1.0	1.0	05/09/22 09:07	
Chloroform	ug/L	<1.0	1.0	05/09/22 09:07	
Chloromethane	ug/L	<1.0	1.0	05/09/22 09:07	v3
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/09/22 09:07	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/09/22 09:07	
Cyclohexane	ug/L	<1.0	1.0	05/09/22 09:07	v3
Dibromochloromethane	ug/L	<1.0	1.0	05/09/22 09:07	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/09/22 09:07	v3
Ethylbenzene	ug/L	<1.0	1.0	05/09/22 09:07	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/09/22 09:07	
Methyl acetate	ug/L	<1.0	1.0	05/09/22 09:07	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/09/22 09:07	
Methylcyclohexane	ug/L	<1.0	1.0	05/09/22 09:07	v3
Methylene Chloride	ug/L	<1.0	1.0	05/09/22 09:07	
Styrene	ug/L	<1.0	1.0	05/09/22 09:07	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

METHOD BLANK: 1291878 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006, 70212849007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<1.0	1.0	05/09/22 09:07	v3
Toluene	ug/L	<1.0	1.0	05/09/22 09:07	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/09/22 09:07	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/09/22 09:07	
Trichloroethene	ug/L	<1.0	1.0	05/09/22 09:07	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/09/22 09:07	
Vinyl chloride	ug/L	<1.0	1.0	05/09/22 09:07	
Xylene (Total)	ug/L	<3.0	3.0	05/09/22 09:07	
1,2-Dichloroethane-d4 (S)	%	85	81-122	05/09/22 09:07	
4-Bromofluorobenzene (S)	%	93	79-118	05/09/22 09:07	
Toluene-d8 (S)	%	101	82-122	05/09/22 09:07	

LABORATORY CONTROL SAMPLE: 1291879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.4	93	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	70-127	
1,1,2-Trichloroethane	ug/L	50	53.1	106	81-119	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.8	90	54-133	
1,1-Dichloroethane	ug/L	50	51.7	103	72-126	
1,1-Dichloroethene	ug/L	50	50.5	101	66-133	
1,2,4-Trichlorobenzene	ug/L	50	45.5	91	56-141	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	47-133	
1,2-Dibromoethane (EDB)	ug/L	50	54.0	108	81-123	
1,2-Dichlorobenzene	ug/L	50	49.7	99	80-117	
1,2-Dichloroethane	ug/L	50	57.2	114	69-134	
1,2-Dichloropropane	ug/L	50	50.2	100	75-125	
1,3-Dichlorobenzene	ug/L	50	47.5	95	82-116	
1,4-Dichlorobenzene	ug/L	50	48.8	98	80-117	
2-Butanone (MEK)	ug/L	50	54.6	109	33-165	IH
2-Hexanone	ug/L	50	53.8	108	50-128	IH
4-Methyl-2-pentanone (MIBK)	ug/L	50	55.8	112	62-131	
Acetone	ug/L	50	60.6	121	14-156	IH,v1
Benzene	ug/L	50	52.1	104	78-117	
Bromodichloromethane	ug/L	50	53.1	106	80-123	
Bromoform	ug/L	50	55.1	110	49-138	
Bromomethane	ug/L	50	73.9	148	10-143	IH,L1,v1
Carbon disulfide	ug/L	50	51.4	103	66-133	
Carbon tetrachloride	ug/L	50	42.4	85	64-135	
Chlorobenzene	ug/L	50	50.7	101	79-117	
Chloroethane	ug/L	50	42.7	85	31-156	
Chloroform	ug/L	50	56.6	113	79-123	
Chloromethane	ug/L	50	39.1	78	39-116	v3
cis-1,2-Dichloroethene	ug/L	50	57.3	115	77-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

LABORATORY CONTROL SAMPLE: 1291879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	50	51.5	103	78-131	
Cyclohexane	ug/L	50	36.7	73	53-130	v3
Dibromochloromethane	ug/L	50	52.5	105	65-123	
Dichlorodifluoromethane	ug/L	50	34.8	70	13-149	IH,v3
Ethylbenzene	ug/L	50	45.1	90	79-115	
Isopropylbenzene (Cumene)	ug/L	50	39.3	79	74-118	
Methyl acetate	ug/L	50	58.9	118	10-214	
Methyl-tert-butyl ether	ug/L	50	56.5	113	69-118	
Methylcyclohexane	ug/L	50	29.2	58	63-124	L2,v3
Methylene Chloride	ug/L	50	54.5	109	67-123	
Styrene	ug/L	50	50.5	101	82-121	
Tetrachloroethene	ug/L	50	32.3	65	65-120	v3
Toluene	ug/L	50	49.6	99	80-114	
trans-1,2-Dichloroethene	ug/L	50	55.0	110	74-123	
trans-1,3-Dichloropropene	ug/L	50	52.1	104	73-135	
Trichloroethene	ug/L	50	47.0	94	79-115	
Trichlorofluoromethane	ug/L	50	50.3	101	51-136	
Vinyl chloride	ug/L	50	43.7	87	49-118	
Xylene (Total)	ug/L	150	138	92	80-118	
1,2-Dichloroethane-d4 (S)	%			99	81-122	
4-Bromofluorobenzene (S)	%			100	79-118	
Toluene-d8 (S)	%			97	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291880 1291881

Parameter	Units	70212849003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	57.8	59.3	116	119	72-123	3	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	52.7	54.9	105	110	64-133	4	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	54.6	55.5	109	111	78-120	2	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	61.5	61.4	123	123	56-136	0	
1,1-Dichloroethane	ug/L	<1.0	50	50	56.0	56.4	112	113	70-124	1	
1,1-Dichloroethene	ug/L	<1.0	50	50	58.9	59.5	118	119	61-139	1	
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	52.5	56.1	105	112	53-138	7	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	47.8	49.5	96	99	32-137	4	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	53.8	55.4	108	111	78-121	3	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	53.7	55.9	107	112	75-120	4	
1,2-Dichloroethane	ug/L	<1.0	50	50	56.3	58.3	113	117	58-138	4	
1,2-Dichloropropane	ug/L	<1.0	50	50	52.7	55.2	105	110	74-122	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	54.5	56.8	109	114	78-119	4	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	54.0	56.1	108	112	76-118	4	
2-Butanone (MEK)	ug/L	29.4	50	50	66.5	63.4	74	68	33-148	5	IH
2-Hexanone	ug/L	3.7J	50	50	53.0	56.4	99	105	49-124	6	IH
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	53.6	55.7	107	111	60-136	4	
Acetone	ug/L	28.5	50	50	67.1	68.1	77	79	35-112	2	IH,v1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291880 1291881

Parameter	Units	70212849003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	<1.0	50	50	57.6	59.1	115	118	70-130	3	
Bromodichloromethane	ug/L	<1.0	50	50	54.6	56.4	109	113	74-122	3	
Bromoform	ug/L	<1.0	50	50	50.4	53.7	101	107	39-139	6	
Bromomethane	ug/L	<1.0	50	50	52.2	65.4	104	131	10-130	22	IH,M0,R1, v1
Carbon disulfide	ug/L	<1.0	50	50	56.7	58.7	113	117	60-129	4	
Carbon tetrachloride	ug/L	<1.0	50	50	55.0	56.7	110	113	56-143	3	
Chlorobenzene	ug/L	<1.0	50	50	55.0	58.3	110	117	74-122	6	
Chloroethane	ug/L	<1.0	50	50	47.2	48.8	94	98	35-146	3	
Chloroform	ug/L	<1.0	50	50	59.5	61.7	119	123	71-129	4	
Chloromethane	ug/L	<1.0	50	50	33.2	35.5	66	71	29-112	7	v3
cis-1,2-Dichloroethene	ug/L	102	50	50	167	171	128	138	73-129	3	M1
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	51.2	53.4	102	107	67-130	4	
Cyclohexane	ug/L	<1.0	50	50	54.6	56.1	109	112	46-146	3	v3
Dibromochloromethane	ug/L	<1.0	50	50	51.4	54.4	103	109	55-126	6	
Dichlorodifluoromethane	ug/L	<1.0	50	50	26.7	27.9	53	56	10-123	4	IH,v3
Ethylbenzene	ug/L	<1.0	50	50	55.3	58.4	111	117	70-126	5	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	54.7	56.4	109	113	68-127	3	
Methyl acetate	ug/L	<1.0	50	50	52.1	54.3	104	109	10-260	4	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	52.8	55.1	106	110	60-140	4	
Methylcyclohexane	ug/L	<1.0	50	50	52.9	54.3	106	109	66-135	3	v3
Methylene Chloride	ug/L	<1.0	50	50	54.6	55.2	109	110	69-117	1	
Styrene	ug/L	<1.0	50	50	53.8	57.0	108	114	79-123	6	
Tetrachloroethene	ug/L	<1.0	50	50	43.2	45.9	86	92	64-124	6	v3
Toluene	ug/L	<1.0	50	50	57.8	59.9	116	120	76-123	3	
trans-1,2-Dichloroethene	ug/L	2.9	50	50	61.3	67.8	117	130	69-127	10	M1
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	51.9	53.5	104	107	61-130	3	
Trichloroethene	ug/L	45.2	50	50	110	116	129	141	73-125	5	M1
Trichlorofluoromethane	ug/L	<1.0	50	50	59.7	60.7	119	121	59-129	2	
Vinyl chloride	ug/L	54.1	50	50	88.1	84.6	68	61	33-127	4	
Xylene (Total)	ug/L	<3.0	150	150	166	174	110	116	78-123	5	
1,2-Dichloroethane-d4 (S)	%						99	96	81-122		
4-Bromofluorobenzene (S)	%						98	99	79-118		
Toluene-d8 (S)	%						97	98	82-122		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 256145 | Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005

METHOD BLANK: 1293985 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/11/22 14:00	

LABORATORY CONTROL SAMPLE: 1293986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	24.6	98	85-115	

MATRIX SPIKE SAMPLE: 1293988

Parameter	Units	70212849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	667	50	700	65	75-125	M1

SAMPLE DUPLICATE: 1293987

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	667	673	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 256316
QC Batch Method: SM22 2320B
Analysis Method: SM22 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849006

METHOD BLANK: 1294710 Matrix: Water
Associated Lab Samples: 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/12/22 09:52	

LABORATORY CONTROL SAMPLE: 1294711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.5	102	85-115	

MATRIX SPIKE SAMPLE: 1294713

Parameter	Units	70212919001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	154	50	206	105	75-125	

SAMPLE DUPLICATE: 1294712

Parameter	Units	70212919001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	154	154	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 255193 Analysis Method: SM22 4500-S2 F
QC Batch Method: SM22 4500-S2 F Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

METHOD BLANK: 1289118 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	05/04/22 18:58	

LABORATORY CONTROL SAMPLE & LCSD: 1289119 1289120

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

SAMPLE DUPLICATE: 1289121

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Sulfide	mg/L	<2.0	<2.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 255830
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849004

METHOD BLANK: 1292340 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.10J	2.0	05/10/22 10:39	
Sulfate	mg/L	0.16J	5.0	05/10/22 10:39	

LABORATORY CONTROL SAMPLE: 1292341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.2	92	90-110	
Sulfate	mg/L	10	9.3	93	90-110	

MATRIX SPIKE SAMPLE: 1292342

Parameter	Units	70213194002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	17.7	10	27.5	98	90-110	
Sulfate	mg/L	33.6	10	42.9	93	90-110	

MATRIX SPIKE SAMPLE: 1292344

Parameter	Units	70213622002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	79.0	10	86.8	77	90-110	M1
Sulfate	mg/L	19.7	10	28.4	87	90-110	M1

SAMPLE DUPLICATE: 1292343

Parameter	Units	70213194002 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	17.7	17.6	0	
Sulfate	mg/L	33.6	33.3	1	

SAMPLE DUPLICATE: 1292345

Parameter	Units	70213622002 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	79.0	78.4	1	
Sulfate	mg/L	19.7	19.7	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 255831
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849003, 70212849005, 70212849006

METHOD BLANK: 1292350 Matrix: Water
Associated Lab Samples: 70212849003, 70212849005, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.11J	2.0	05/10/22 02:30	
Sulfate	mg/L	0.16J	5.0	05/10/22 02:30	

LABORATORY CONTROL SAMPLE: 1292351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.1	91	90-110	
Sulfate	mg/L	10	9.2	92	90-110	

MATRIX SPIKE SAMPLE: 1292352

Parameter	Units	70212849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	360	10	365	46	90-110	M1
Sulfate	mg/L	14.0	10	24.0	100	90-110	

MATRIX SPIKE SAMPLE: 1292354

Parameter	Units	70213281003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10.0	10	20.0	99	90-110	
Sulfate	mg/L	<5.0	10	10.5	97	90-110	

SAMPLE DUPLICATE: 1292353

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	360	357	1	
Sulfate	mg/L	14.0	14.7	4	

SAMPLE DUPLICATE: 1292355

Parameter	Units	70213281003 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	10.0	10.0	0	
Sulfate	mg/L	<5.0	0.84J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 254571
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

METHOD BLANK: 1286485 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	04/29/22 20:21	

LABORATORY CONTROL SAMPLE: 1286486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1286487

Parameter	Units	70212849006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.42	82	90-110	M1

MATRIX SPIKE SAMPLE: 1286489

Parameter	Units	70212849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.37	72	90-110	M1

SAMPLE DUPLICATE: 1286488

Parameter	Units	70212849006 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1286490

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 254573 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849004, 70212849006

METHOD BLANK: 1286500 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849004, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	04/29/22 21:44	

LABORATORY CONTROL SAMPLE: 1286501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 1286502

Parameter	Units	70212849006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.33	62	90-110	M1

MATRIX SPIKE SAMPLE: 1286504

Parameter	Units	70212802001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.54	103	90-110	

SAMPLE DUPLICATE: 1286503

Parameter	Units	70212849006 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1286505

Parameter	Units	70212802001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 254574
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849003, 70212849005

METHOD BLANK: 1286506 Matrix: Water
Associated Lab Samples: 70212849003, 70212849005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	04/29/22 22:21	

LABORATORY CONTROL SAMPLE: 1286507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 1286508

Parameter	Units	70212849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.27	52	90-110	M1

MATRIX SPIKE SAMPLE: 1286510

Parameter	Units	70212874002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.4	0.5	2.0	118	90-110	M1

SAMPLE DUPLICATE: 1286509

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 1286511

Parameter	Units	70212874002 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1.4	1.4	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

QC Batch: 256146 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

METHOD BLANK: 1293992 Matrix: Water
Associated Lab Samples: 70212849001, 70212849002, 70212849003, 70212849004, 70212849005, 70212849006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	05/11/22 15:44	

LABORATORY CONTROL SAMPLE: 1293993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	85-115	

MATRIX SPIKE SAMPLE: 1293995

Parameter	Units	70212849003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	43.2	10	50.7	75	75-125	

SAMPLE DUPLICATE: 1293994

Parameter	Units	70212849003 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	43.2	40.0	8	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70212849001	**MW-13_4.28.22**	RSK-175	254681	RSK-175	256002
70212849002	**MW-6R_4.28.22**	RSK-175	254681	RSK-175	256002
70212849003	**MW-8_4.28.22**	RSK-175	254681	RSK-175	256002
70212849004	**MW-5_4.28.22**	RSK-175	254681	RSK-175	256002
70212849005	**MW-10_4.28.22**	RSK-175	254681	RSK-175	256002
70212849006	**DUP-1_4.28.22**	RSK-175	254681	RSK-175	256002
70212849001	**MW-13_4.28.22**	EPA 3005A	254804	EPA 6010C	254875
70212849002	**MW-6R_4.28.22**	EPA 3005A	254804	EPA 6010C	254875
70212849003	**MW-8_4.28.22**	EPA 3005A	254804	EPA 6010C	254875
70212849004	**MW-5_4.28.22**	EPA 3005A	254804	EPA 6010C	254875
70212849005	**MW-10_4.28.22**	EPA 3005A	255490	EPA 6010C	255544
70212849006	**DUP-1_4.28.22**	EPA 3005A	255490	EPA 6010C	255544
70212849001	**MW-13_4.28.22**	EPA 6010C	256432		
70212849002	**MW-6R_4.28.22**	EPA 6010C	256432		
70212849003	**MW-8_4.28.22**	EPA 6010C	256432		
70212849004	**MW-5_4.28.22**	EPA 6010C	256432		
70212849005	**MW-10_4.28.22**	EPA 6010C	256432		
70212849006	**DUP-1_4.28.22**	EPA 6010C	256432		
70212849001	**MW-13_4.28.22**	EPA 8260C/5030C	255719		
70212849002	**MW-6R_4.28.22**	EPA 8260C/5030C	255719		
70212849003	**MW-8_4.28.22**	EPA 8260C/5030C	255719		
70212849004	**MW-5_4.28.22**	EPA 8260C/5030C	255719		
70212849005	**MW-10_4.28.22**	EPA 8260C/5030C	255719		
70212849006	**DUP-1_4.28.22**	EPA 8260C/5030C	255719		
70212849007	**TRIP BLANK**	EPA 8260C/5030C	255719		
70212849001	**MW-13_4.28.22**	SM22 2320B	256145		
70212849002	**MW-6R_4.28.22**	SM22 2320B	256145		
70212849003	**MW-8_4.28.22**	SM22 2320B	256145		
70212849004	**MW-5_4.28.22**	SM22 2320B	256145		
70212849005	**MW-10_4.28.22**	SM22 2320B	256145		
70212849006	**DUP-1_4.28.22**	SM22 2320B	256316		
70212849001	**MW-13_4.28.22**	SM22 4500-S2 F	255193		
70212849002	**MW-6R_4.28.22**	SM22 4500-S2 F	255193		
70212849003	**MW-8_4.28.22**	SM22 4500-S2 F	255193		
70212849004	**MW-5_4.28.22**	SM22 4500-S2 F	255193		
70212849005	**MW-10_4.28.22**	SM22 4500-S2 F	255193		
70212849006	**DUP-1_4.28.22**	SM22 4500-S2 F	255193		
70212849001	**MW-13_4.28.22**	EPA 300.0	255830		
70212849002	**MW-6R_4.28.22**	EPA 300.0	255830		
70212849003	**MW-8_4.28.22**	EPA 300.0	255831		
70212849004	**MW-5_4.28.22**	EPA 300.0	255830		
70212849005	**MW-10_4.28.22**	EPA 300.0	255831		
70212849006	**DUP-1_4.28.22**	EPA 300.0	255831		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70212849001	**MW-13_4.28.22**	EPA 353.2	254573		
70212849002	**MW-6R_4.28.22**	EPA 353.2	254573		
70212849003	**MW-8_4.28.22**	EPA 353.2	254574		
70212849004	**MW-5_4.28.22**	EPA 353.2	254573		
70212849005	**MW-10_4.28.22**	EPA 353.2	254574		
70212849006	**DUP-1_4.28.22**	EPA 353.2	254573		
70212849001	**MW-13_4.28.22**	EPA 353.2	254571		
70212849002	**MW-6R_4.28.22**	EPA 353.2	254571		
70212849003	**MW-8_4.28.22**	EPA 353.2	254571		
70212849004	**MW-5_4.28.22**	EPA 353.2	254571		
70212849005	**MW-10_4.28.22**	EPA 353.2	254571		
70212849006	**DUP-1_4.28.22**	EPA 353.2	254571		
70212849001	**MW-13_4.28.22**	SM22 5310B	256146		
70212849002	**MW-6R_4.28.22**	SM22 5310B	256146		
70212849003	**MW-8_4.28.22**	SM22 5310B	256146		
70212849004	**MW-5_4.28.22**	SM22 5310B	256146		
70212849005	**MW-10_4.28.22**	SM22 5310B	256146		
70212849006	**DUP-1_4.28.22**	SM22 5310B	256146		

WO# : 70212849

70212849

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m

Pace

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pa

Section A
Required Client Information:

Company:	NYDEC_HRP Associates Inc- Clifton Park, NY
Address:	1 Fairchild Square
	Clifton Park , NY 12065
Email:	reed.lewandowski@hrpassociates.com
Phone:	NONE Fax:
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	Lewandowski, Reed
Copy To:	
Purchase Order #:	
Project Name:	DEC1012.RA
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	
Pace Profile #:	

Regulatory Agency

State / Location
NY

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs by 8260	Methane, Ethane, and Ether	CO2 - Dissolved Gasses	Total Fe & Mn by 6010C	Dissolved Fe & Mn by 6010C	Chloride, Sulfate, Nitrate	Sulfide by SM4500-S2-F	TOC by 5310C	Alkalinity by 310.2	Residual Chlorine (Y/N)	
1	MW-13_4.28.22	WT	G	4/28/22	0803	-	-		16										X	X	X	X	X	X	X	X	X	
2	MW-6R_4.28.22			4/28/22	0943	-	-		16										X	X	X	X	X	X	X	X	X	
3	MW-8_4.28.22			4/28/22	1031	-	-		48										X	X	X	X	X	X	X	X	X	MS/MSD Collected
4	MW-5_4.28.22			4/28/22	1395	-	-		16										X	X	X	X	X	X	X	X	X	
5	MW-10_4.28.22			4/28/22	1434	-	-		16										X	X	X	X	X	X	X	X	X	
6	DUP-1_4.28.22			4/28/22	-	-	-		16										X	X	X	X	X	X	X	X	X	
7	Trip Blank	WT	G	4/28/22	-	-	-		2										X									
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		4/28/22	1523	PACE	4/28/22	1523				
	PACE	4/28/22	1600		4/29/22	1045	2.1	W	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70212849

PM: LS1 Due Date: 05/13/22

CLIENT: HRP-CLIFTON

Client Name: NYDEC Proj

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 563156241087

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☑ Yes ☐ No ☐ N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Ziploc ☐ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.1

Cooler Temperature(°C): 2.1 Cooler Temperature Corrected(°C): 2.2

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: STAR 4/29/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☐ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC173324				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	17.
Trip Blank Custody Seals Present	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

ENV-FRM-MELV-0024 01

LELAP CERTIFICATE NUMBER: 01955
DOD-ELAP ACCREDITATION NUMBER: 74960

ANALYTICAL RESULTS

PERFORMED BY

Pace Analytical Gulf Coast
7979 Innovation Park Dr.
Baton Rouge, LA 70820
(225) 769-4900

Report Date 05/13/2022

Report # 222050519

Project 70212849 DEC1012.RA

Samples Collected 4/28/22

Deliver To	***Additional Recipients***
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 631-694-3040	NY SUB , Pace Analytical Melville

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
NO	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

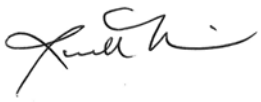
J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*****	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	Organics **-** The result is estimated because it exceeded the instrument calibration range
E	Metals - % diference for the serial dilution is > 10%
L	Reporting Limits adjusted to meet risk-based limit.
P	RPD between primary and confirmation result is greater than 40
DL	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Authorized Signature
Pace Gulf Coast Report 222050519

Certifications

Certification	Certification Number
DOD ELAP	74960
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234

Case Narrative

Client: Pace Analytical Services **Report:** 222050519

Pace Analytical Gulf Coast received and analyzed the sample(s) listed
on the Report Sample Summary page of this report. Receipt of the sample(s) is documented
by the attached chain of custody. This applies only to the sample(s) listed in this report.
No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES GAS CHROMATOGRAPHY

In the EPA RSK-175 analysis for analytical batch 740783, the MS/MSD recoveries and RPDs are not applicable to Carbon Dioxide because the spike was diluted out of the samples. The LCS recovery is acceptable.

Sample Summary

Lab ID	Client ID	Matrix	Collect Date	Receive Date
22205051901	MW-13_4.28.22	Water	4/28/22 09:43	5/04/22 09:36
22205051902	MW-6R_4.28.22	Water	4/28/22 09:43	5/04/22 09:36
22205051903	MW-8_4.28.22	Water	4/28/22 10:30	5/04/22 09:36
22205051904	MW-5_4.28.22	Water	4/28/22 13:35	5/04/22 09:36
22205051905	MW-10_4.28.22	Water	4/28/22 14:34	5/04/22 09:36
22205051906	DUP-1_4.28.22	Water	4/28/22 00:01	5/04/22 09:36
22205051907	MW-8_4.28.22 MS	Water	4/28/22 10:30	5/05/22 10:34
22205051908	MW-8_4.28.22 MSD	Water	4/28/22 10:30	5/05/22 10:34

Detect Summary

Results and Detection Limits are adjusted for dilution and moisture when applicable

EPA RSK-175						
Lab ID	**Client ID**	**Parameter**	**Units**	**Result**	**Dil.**	**%Moist**
22205051901	MW-13_4.28.22	Carbon Dioxide	ug/L	137000	10	NA
22205051902	MW-6R_4.28.22	Carbon Dioxide	ug/L	170000	10	NA
22205051903	MW-8_4.28.22	Carbon Dioxide	ug/L	133000	10	NA
22205051904	MW-5_4.28.22	Carbon Dioxide	ug/L	142000	10	NA
22205051905	MW-10_4.28.22	Carbon Dioxide	ug/L	168000	10	NA
22205051906	DUP-1_4.28.22	Carbon Dioxide	ug/L	147000	10	NA

Sample Results

MW-13_4.28.22

Collect Date	04/28/2022 09:43	**Lab ID**	22205051901
Receive Date	05/04/2022 09:36	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 10:19	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**137000**	**9000**	ug/L

MW-6R_4.28.22

Collect Date	04/28/2022 09:43	**Lab ID**	22205051902
Receive Date	05/04/2022 09:36	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 10:25	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**170000**	**9000**	ug/L

MW-8_4.28.22

Collect Date	04/28/2022 10:30	**Lab ID**	22205051903
Receive Date	05/04/2022 09:36	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 10:32	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**133000**	**9000**	ug/L

MW-5_4.28.22

Collect Date	04/28/2022 13:35	**Lab ID**	22205051904
Receive Date	05/04/2022 09:36	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 10:38	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**142000**	**9000**	ug/L

Sample Results

MW-10_4.28.22

Collect Date	04/28/2022 14:34	**Lab ID**	22205051905
Receive Date	05/04/2022 09:36	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 10:44	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**168000**	**9000**	ug/L

DUP-1_4.28.22

Collect Date	04/28/2022 00:01	**Lab ID**	22205051906
Receive Date	05/04/2022 09:36	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 10:51	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**147000**	**9000**	ug/L

MW-8_4.28.22 MS

Collect Date	04/28/2022 10:30	**Lab ID**	22205051907
Receive Date	05/05/2022 10:34	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 10:58	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**160000**	**9000**	ug/L

MW-8_4.28.22 MSD

Collect Date	04/28/2022 10:30	**Lab ID**	22205051908
Receive Date	05/05/2022 10:34	**Matrix**	Water

EPA RSK-175 *Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	05/12/22 11:05	740783	AWE	NA

CAS#	Parameter	Result	LOQ	Units
124-38-9	**Carbon Dioxide**	**168000**	**9000**	ug/L

GC Volatiles QC Summary

Analytical Batch	Client ID	MB740783		LCS740783				LCSD740783				
740783	Lab ID	2345808		2345809				2345810				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	05/12/22 10:12		05/12/22 09:21				05/12/22 09:58				
	Matrix	Water		Water				Water				
EPA RSK-175		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Carbon Dioxide	124-38-9	ND	900	8700	6460	74	38 - 147	8700	7090	81	9	40

Analytical Batch	Client ID	MW-8_4.28.22		MW-8_4.28.22 MS				MW-8_4.28.22 MSD				
740783	Lab ID	22205051903		22205051907				22205051908				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	05/12/2022 10:32		05/12/22 10:58				05/12/22 11:05				
	Matrix	Water		Water				Water				
EPA RSK-175		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Carbon Dioxide	124-38-9	133000	9000	5800	160000	**466***	38 - 147	5800	168000	**603***	5	40

Chain of Custody

PASI New York Laboratory

Pace Analytical® www.pacelabs.com

Workorder: 70212849 **Workorder Name:** DEC1012.RA 4/28 **Results Requested By:** 5/13/2022

Report / Invoice To	Subcontract To	
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: lea.sherman@pacelabs.com	Pace Gulf Coast 7979 Innovation Park Drive, Baton Rouge, LA 70820	70212849LS1 P.O.______

State of Sample Origin: NY

Requested Analysis: RSK 175 CO2

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	RSK 175 CO2	LAB USE ONLY
1	MW-13_4.28.22	4/28/2022 09:43	70212849001	Water		X	1
2	MW-6R_4.28.22	4/28/2022 09:43	70212849002	Water		X	2
3	MW-8_4.28.22	4/28/2022 10:30	70212849003	Water		X	3,7,8
4	MW-5_4.28.22	4/28/2022 13:35	70212849004	Water		X	4
5	MW-10_4.28.22	4/28/2022 14:34	70212849005	Water		X	5
6	DUP-1_4.28.22	4/28/2022 00:00	70212849006	Water		X	6

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Noranne Saager Pace	5.3.22 1800			5.7 634
2	FedEx	5/4/22 9:36	[signature]	5/4/22 9:36	5789 2503 1914
3					

Cooler Temperature on Receipt ______ °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

Client ID: 4367 - Pace Analytical Services
SDG: 222050519
PM: RWe

Friday, April 29, 2022 3:11:07 PM FMT

SAMPLE RECEIVING CHECKLIST

SAMPLE DELIVERY GROUP 222050519	
Client **PM** RWe 4367 - Pace Analytical Services	**Transport Method** FEDEX
Profile Number 296232	**Received By** McCune, Dodie N. Roberts, George S.
Line Item(s) 1 - MEP - RSK175	**Receive Date(s)** 05/04/22 05/05/22

CHECKLIST	YES	NO
Samples received with proper thermal preservation?	☑	☐
Radioactivity is <1600 cpm? If no, record cpm value in notes section.	☑	☐
COC relinquished and complete (including sampleIDs, collect times, and sampler)?	☑	☐
All containers received in good condition and within hold time?	☑	☐
All sample labels and containers received match the chain of custody?	☑	☐
Preservative added to any containers?	☐	☑
If received, was headspace for VOC water containers < 6mm?	☑	☐
Samples collected in containers provided by Pace Gulf Coast?	☑	☐

COOLERS

Airbill	Thermometer ID: E34	Temp °C
578925031914		5.7

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

May 13, 2022

Mark Wright
HRP Associates Inc

,

RE: Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Dear Mark Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri for
Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Ruth Curley, NYDEC
Reed Lewandowski, HRP Associates Inc
Patrick Montuori, HRP Associates, Inc.
EDD Recipient, HRP Associates

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

General Information:
8 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 255955

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- LCS (Lab ID: 1293035)
  - 2-Butanone (MEK)
  - 2-Hexanone
  - Acetone
  - Bromomethane
  - Dichlorodifluoromethane
- MW-12_4.29.22 (Lab ID: 70213002003)
  - 2-Butanone (MEK)
  - Acetone
- PES-MW-5_4.29.22 (Lab ID: 70213002004)
  - Acetone

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 255955

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- LCS (Lab ID: 1293035)
  - 4-Methyl-2-pentanone (MIBK)
  - Bromomethane

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1293034)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- DUP (Lab ID: 1293217)
  - Chloromethane
  - Cyclohexane

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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PROJECT NARRATIVE

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

QC Batch: 255955

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Dichlorodifluoromethane
- Methylcyclohexane
- Tetrachloroethene

- FIELD BLANK_4.29.22 (Lab ID: 70213002007)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- LCS (Lab ID: 1293035)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-12_4.29.22 (Lab ID: 70213002003)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-14_4.29.22 (Lab ID: 70213002001)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- MW-2_4.29.22 (Lab ID: 70213002002)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- PES-MW-4_4.29.22 (Lab ID: 70213002005)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- PES-MW-5_4.29.22 (Lab ID: 70213002004)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: NYDEC_HRP Associates Inc- Clifton Park, NY
Date: May 13, 2022

QC Batch: 255955

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Methylcyclohexane
- Tetrachloroethene

- PES-MW-6_4.29.22 (Lab ID: 70213002006)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene
- TRIP BLANK (Lab ID: 70213002008)
  - Chloromethane
  - Cyclohexane
  - Dichlorodifluoromethane
  - Methylcyclohexane
  - Tetrachloroethene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: MW-14_4.29.22 **Lab ID: 70213002001** Collected: 04/29/22 08:44 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 13:07	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 13:07	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 13:07	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 13:07	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 13:07	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 13:07	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 13:07	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 13:07	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 13:07	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 13:07	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:07	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:07	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: MW-14_4.29.22 **Lab ID: 70213002001** Collected: 04/29/22 08:44 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 13:07	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 13:07	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 13:07	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 13:07	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 13:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: MW-2_4.29.22 **Lab ID: 70213002002** Collected: 04/29/22 09:34 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 13:27	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 13:27	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 13:27	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 13:27	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 13:27	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-35-4	
cis-1,2-Dichloroethene	**2.7**	ug/L	1.0	1		05/10/22 13:27	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 13:27	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 13:27	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 13:27	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 13:27	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 13:27	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:27	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:27	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: MW-2_4.29.22 **Lab ID: 70213002002** Collected: 04/29/22 09:34 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**11.2**	ug/L	1.0	1		05/10/22 13:27	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 13:27	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 13:27	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 13:27	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/10/22 13:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: MW-12_4.29.22 **Lab ID: 70213002003** Collected: 04/29/22 10:23 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**7.2**	ug/L	5.0	1		05/10/22 13:46	67-64-1	IH
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	74-83-9	
2-Butanone (MEK)	**4.8J**	ug/L	5.0	1		05/10/22 13:46	78-93-3	IH
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 13:46	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 13:46	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 13:46	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-35-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	1		05/10/22 13:46	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 13:46	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 13:46	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 13:46	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 13:46	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 13:46	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 13:46	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 13:46	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: MW-12_4.29.22 **Lab ID: 70213002003** Collected: 04/29/22 10:23 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**2.4**	ug/L	1.0	1		05/10/22 13:46	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 13:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/10/22 13:46	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 13:46	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 13:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: PES-MW-5_4.29.22 **Lab ID: 70213002004** Collected: 04/29/22 11:11 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**3.1J**	ug/L	5.0	1		05/10/22 14:05	67-64-1	IH
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 14:05	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 14:05	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 14:05	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 14:05	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-35-4	
cis-1,2-Dichloroethene	**18.1**	ug/L	1.0	1		05/10/22 14:05	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 14:05	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 14:05	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 14:05	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 14:05	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 14:05	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:05	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:05	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: PES-MW-5_4.29.22 **Lab ID: 70213002004** Collected: 04/29/22 11:11 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**20.1**	ug/L	1.0	1		05/10/22 14:05	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 14:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 14:05	17060-07-0	
4-Bromofluorobenzene (S)	99	%	79-118	1		05/10/22 14:05	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 14:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: PES-MW-4_4.29.22 **Lab ID: 70213002005** Collected: 04/29/22 12:05 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 14:24	67-64-1	
Benzene	**0.51J**	ug/L	1.0	1		05/10/22 14:24	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 14:24	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 14:24	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 14:24	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 14:24	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-35-4	
cis-1,2-Dichloroethene	**42.3**	ug/L	1.0	1		05/10/22 14:24	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 14:24	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 14:24	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 14:24	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 14:24	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 14:24	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:24	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	79-00-5	
Trichloroethene	**11.4**	ug/L	1.0	1		05/10/22 14:24	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:24	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: PES-MW-4_4.29.22 **Lab ID: 70213002005** Collected: 04/29/22 12:05 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**22.5**	ug/L	1.0	1		05/10/22 14:24	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 14:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		05/10/22 14:24	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		05/10/22 14:24	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		05/10/22 14:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: PES-MW-6_4.29.22 **Lab ID: 70213002006** Collected: 04/29/22 12:44 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 14:44	67-64-1	
Benzene	**0.52J**	ug/L	1.0	1		05/10/22 14:44	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 14:44	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 14:44	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 14:44	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 14:44	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-35-4	
cis-1,2-Dichloroethene	**24.7**	ug/L	1.0	1		05/10/22 14:44	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 14:44	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 14:44	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 14:44	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 14:44	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 14:44	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 14:44	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	79-00-5	
Trichloroethene	**2.1**	ug/L	1.0	1		05/10/22 14:44	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 14:44	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: PES-MW-6_4.29.22 **Lab ID: 70213002006** Collected: 04/29/22 12:44 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**45.7**	ug/L	1.0	1		05/10/22 14:44	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 14:44	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	81-122	1		05/10/22 14:44	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 14:44	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/10/22 14:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: FIELD BLANK_4.29.22 **Lab ID: 70213002007** Collected: 04/29/22 13:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 15:03	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 15:03	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 15:03	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 15:03	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 15:03	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 15:03	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 15:03	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 15:03	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	108-87-2	v3
Methylene Chloride	**1.1**	ug/L	1.0	1		05/10/22 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 15:03	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 15:03	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 15:03	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 15:03	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: FIELD BLANK_4.29.22 **Lab ID: 70213002007** Collected: 04/29/22 13:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 15:03	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 15:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		05/10/22 15:03	17060-07-0	
4-Bromofluorobenzene (S)	98	%	79-118	1		05/10/22 15:03	460-00-4	
Toluene-d8 (S)	98	%	82-122	1		05/10/22 15:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: TRIP BLANK **Lab ID: 70213002008** Collected: 04/29/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		05/10/22 12:48	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	71-43-2	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/10/22 12:48	78-93-3	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/10/22 12:48	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/10/22 12:48	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	74-87-3	v3
Cyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	110-82-7	v3
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/10/22 12:48	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/10/22 12:48	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		05/10/22 12:48	98-82-8	
Methyl acetate	**<1.0**	ug/L	1.0	1		05/10/22 12:48	79-20-9	
Methylcyclohexane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	108-87-2	v3
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/10/22 12:48	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/10/22 12:48	1634-04-4	
Styrene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	127-18-4	v3
Toluene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	108-88-3	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/10/22 12:48	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/L	1.0	1		05/10/22 12:48	76-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Sample: TRIP BLANK **Lab ID: 70213002008** Collected: 04/29/22 00:00 Received: 04/30/22 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/10/22 12:48	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/10/22 12:48	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		05/10/22 12:48	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		05/10/22 12:48	460-00-4	
Toluene-d8 (S)	99	%	82-122	1		05/10/22 12:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

QC Batch: 255955 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70213002001, 70213002002, 70213002003, 70213002004, 70213002005, 70213002006, 70213002007, 70213002008

METHOD BLANK: 1293034 Matrix: Water
Associated Lab Samples: 70213002001, 70213002002, 70213002003, 70213002004, 70213002005, 70213002006, 70213002007, 70213002008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/10/22 10:55	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/10/22 10:55	
2-Hexanone	ug/L	<5.0	5.0	05/10/22 10:55	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/10/22 10:55	
Acetone	ug/L	<5.0	5.0	05/10/22 10:55	
Benzene	ug/L	<1.0	1.0	05/10/22 10:55	
Bromodichloromethane	ug/L	<1.0	1.0	05/10/22 10:55	
Bromoform	ug/L	<1.0	1.0	05/10/22 10:55	
Bromomethane	ug/L	<1.0	1.0	05/10/22 10:55	
Carbon disulfide	ug/L	<1.0	1.0	05/10/22 10:55	
Carbon tetrachloride	ug/L	<1.0	1.0	05/10/22 10:55	
Chlorobenzene	ug/L	<1.0	1.0	05/10/22 10:55	
Chloroethane	ug/L	<1.0	1.0	05/10/22 10:55	
Chloroform	ug/L	<1.0	1.0	05/10/22 10:55	
Chloromethane	ug/L	<1.0	1.0	05/10/22 10:55	v3
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/10/22 10:55	
Cyclohexane	ug/L	<1.0	1.0	05/10/22 10:55	v3
Dibromochloromethane	ug/L	<1.0	1.0	05/10/22 10:55	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/10/22 10:55	v3
Ethylbenzene	ug/L	<1.0	1.0	05/10/22 10:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	05/10/22 10:55	
Methyl acetate	ug/L	<1.0	1.0	05/10/22 10:55	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/10/22 10:55	
Methylcyclohexane	ug/L	<1.0	1.0	05/10/22 10:55	v3
Methylene Chloride	ug/L	<1.0	1.0	05/10/22 10:55	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

METHOD BLANK: 1293034 Matrix: Water

Associated Lab Samples: 70213002001, 70213002002, 70213002003, 70213002004, 70213002005, 70213002006, 70213002007, 70213002008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Styrene	ug/L	<1.0	1.0	05/10/22 10:55	
Tetrachloroethene	ug/L	<1.0	1.0	05/10/22 10:55	v3
Toluene	ug/L	<1.0	1.0	05/10/22 10:55	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/10/22 10:55	
Trichloroethene	ug/L	<1.0	1.0	05/10/22 10:55	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/10/22 10:55	
Vinyl chloride	ug/L	<1.0	1.0	05/10/22 10:55	
Xylene (Total)	ug/L	<3.0	3.0	05/10/22 10:55	
1,2-Dichloroethane-d4 (S)	%	103	81-122	05/10/22 10:55	
4-Bromofluorobenzene (S)	%	98	79-118	05/10/22 10:55	
Toluene-d8 (S)	%	99	82-122	05/10/22 10:55	

LABORATORY CONTROL SAMPLE: 1293035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.9	94	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-127	
1,1,2-Trichloroethane	ug/L	50	52.1	104	81-119	
1,1,2-Trichlorotrifluoroethane	ug/L	50	46.3	93	54-133	
1,1-Dichloroethane	ug/L	50	49.0	98	72-126	
1,1-Dichloroethene	ug/L	50	48.2	96	66-133	
1,2,4-Trichlorobenzene	ug/L	50	47.9	96	56-141	
1,2-Dibromo-3-chloropropane	ug/L	50	46.0	92	47-133	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	81-123	
1,2-Dichlorobenzene	ug/L	50	48.5	97	80-117	
1,2-Dichloroethane	ug/L	50	54.2	108	69-134	
1,2-Dichloropropane	ug/L	50	49.4	99	75-125	
1,3-Dichlorobenzene	ug/L	50	47.4	95	82-116	
1,4-Dichlorobenzene	ug/L	50	48.1	96	80-117	
2-Butanone (MEK)	ug/L	50	47.5	95	33-165	IH
2-Hexanone	ug/L	50	51.0	102	50-128	IH
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.9	106	62-131	v1
Acetone	ug/L	50	50.5	101	14-156	IH
Benzene	ug/L	50	51.0	102	78-117	
Bromodichloromethane	ug/L	50	51.8	104	80-123	
Bromoform	ug/L	50	51.0	102	49-138	
Bromomethane	ug/L	50	63.9	128	10-143	IH,v1
Carbon disulfide	ug/L	50	47.4	95	66-133	
Carbon tetrachloride	ug/L	50	43.9	88	64-135	
Chlorobenzene	ug/L	50	49.2	98	79-117	
Chloroethane	ug/L	50	42.4	85	31-156	
Chloroform	ug/L	50	53.5	107	79-123	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

LABORATORY CONTROL SAMPLE: 1293035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	35.7	71	39-116	v3
cis-1,2-Dichloroethene	ug/L	50	50.8	102	77-125	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	78-131	
Cyclohexane	ug/L	50	36.7	73	53-130	v3
Dibromochloromethane	ug/L	50	50.0	100	65-123	
Dichlorodifluoromethane	ug/L	50	33.8	68	13-149	IH,v3
Ethylbenzene	ug/L	50	44.8	90	79-115	
Isopropylbenzene (Cumene)	ug/L	50	40.7	81	74-118	
Methyl acetate	ug/L	50	53.7	107	10-214	
Methyl-tert-butyl ether	ug/L	50	50.7	101	69-118	
Methylcyclohexane	ug/L	50	34.3	69	63-124	v3
Methylene Chloride	ug/L	50	49.9	100	67-123	
Styrene	ug/L	50	49.7	99	82-121	
Tetrachloroethene	ug/L	50	32.7	65	65-120	v3
Toluene	ug/L	50	50.9	102	80-114	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	74-123	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	73-135	
Trichloroethene	ug/L	50	48.3	97	79-115	
Trichlorofluoromethane	ug/L	50	49.5	99	51-136	
Vinyl chloride	ug/L	50	42.0	84	49-118	
Xylene (Total)	ug/L	150	137	92	80-118	
1,2-Dichloroethane-d4 (S)	%			100	81-122	
4-Bromofluorobenzene (S)	%			99	79-118	
Toluene-d8 (S)	%			98	82-122	

SAMPLE DUPLICATE: 1293217

Parameter	Units	70213002002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2,4-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dibromo-3-chloropropane	ug/L	<1.0	<1.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

SAMPLE DUPLICATE: 1293217

Parameter	Units	70213002002 Result	Dup Result	RPD	Qualifiers
Acetone	ug/L	<5.0	<5.0		
Benzene	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon disulfide	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		v3
cis-1,2-Dichloroethene	ug/L	2.7	2.7	1	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Cyclohexane	ug/L	<1.0	<1.0		v3
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		v3
Ethylbenzene	ug/L	<1.0	<1.0		
Isopropylbenzene (Cumene)	ug/L	<1.0	<1.0		
Methyl acetate	ug/L	<1.0	<1.0		
Methyl-tert-butyl ether	ug/L	<1.0	<1.0		
Methylcyclohexane	ug/L	<1.0	<1.0		v3
Methylene Chloride	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		v3
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Trichlorofluoromethane	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	11.2	12.0	7	
Xylene (Total)	ug/L	<3.0	<3.0		
1,2-Dichloroethane-d4 (S)	%	102	104		
4-Bromofluorobenzene (S)	%	98	97		
Toluene-d8 (S)	%	99	96		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213002001	**MW-14_4.29.22**	EPA 8260C/5030C	255955		
70213002002	**MW-2_4.29.22**	EPA 8260C/5030C	255955		
70213002003	**MW-12_4.29.22**	EPA 8260C/5030C	255955		
70213002004	**PES-MW-5_4.29.22**	EPA 8260C/5030C	255955		
70213002005	**PES-MW-4_4.29.22**	EPA 8260C/5030C	255955		
70213002006	**PES-MW-6_4.29.22**	EPA 8260C/5030C	255955		
70213002007	**FIELD BLANK_4.29.22**	EPA 8260C/5030C	255955		
70213002008	**TRIP BLANK**	EPA 8260C/5030C	255955		

Pace

CHAIN-OF-CUST[...]

The Chain-of-Custody is a [...] rately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pac[...] ndard-terms.pdf.

WO#: 70213002

70213002

Page : 1 Of 1

Section A
Required Client Information:

Company:	NYDEC_HRP Associates Inc- Clifton Park, NY
Address:	1 Fairchild Square
	Clifton Park , NY 12065
Email:	reed.lewandowski@hrpassociates.com
Phone:	NONE Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Lewandowski, Reed
Copy To:	
Purchase Order #:	
Project Name:	DEC1012.RA
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	
Pace Profile #:	

Regulatory Agency
State / Location
NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOCs by 8260	Methane, Ethane, and Ether	CO2 - Dissolved Gasses	Total Fe & Mn by 6010C	Dissolved Fe & Mn by 6010C	Chloride, Sulfate, Nitrate	Sulfide by SM4500-S2-F	TOC by 5310C	Alkalinity by 310.2	Residual Chlorine (Y/N)
1	MW-14_4.29.22	WT	G	4/29/22	0844	—	—		3				x						x									
2	MW-2_4.29.22	↓	↓	4/29/22	0934	—	—		3				x						x									
3	MW-12_4.29.22	↓	↓	4/29/22	1023	—	—		3				x						x									
4	PES-MW-5_4.29.22	↓	↓	4/29/22	1111	—	—		3				x						x									
5	PES-MW-4_4.29.22	↓	↓	4/29/22	1205	—	—		3				x						x									
6	PES-MW-6_4.29.22	↓	↓	4/29/22	1244	—	—		3				x						x									
7	Field Blank_4.29.22	↓	↓	4/29/22	1300	—	—		3				x						x									
8	Trip Blank	WT	G	4/29/22	—	—	—		2				x						x									
9																												
10																												
11																												
12																												

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Reed [signature]	4/29/22	1325	[signature] PACE	4/29/22	1325				
	[signature] PACE	4/29/22	1400	[signature]	~~5/2/22~~					
					4/30/22	11:00	0.3	W	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70213002

PM: LS1 Due Date: 05/16/22

CLIENT: HRP-CLIFTON

Client Name: Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 763156241102

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No ☐ N/A

Temperature Blank Present: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Type of Ice: Wet Blue None

Thermometer Used: TH091 Correction Factor: +0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.4

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample)

Date and Initials of person examining contents: 4/30/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☐ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☐ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID/ Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

ENV-FRM-MELV-0024 01

ATTACHMENT D
Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

July 30, 2022

Patrick Montuori
HRP Associates, Inc.
1 Fairchild Square, Suite 11
Clifton Park, NY 12065

RE: Validation of the 222 South Ferry Street Site Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Pace SDG Nos. 70212849 and 70213002

Dear Mr. Montuori:

Review has been completed for the data packages generated by Pace Analytical that pertain to samples collected 04/28/22 and 04/29/22 at the 222 South Ferry Street site. Eleven aqueous samples and a field duplicate were processed for TCL volatiles by the USEPA SW846 analytical method 8260D. Data validation was only requested and performed for the volatile analyses reported in the data packages.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, most results for the samples are usable either as reported or with qualification as estimated. Data completeness, accuracy, representativeness, reproducibility, sensitivity, and comparability are acceptable. The field duplicate precision evaluation shows large variances.

The sample identifications are attached. Also included in this report are the client EDDs with recommended qualifiers/edits applied in red.

Chain-of-Custody

Corrections on the custody forms should have been dated and initialed.

Blind Field Duplicate

The blind field duplicate evaluation was performed on MW-8_04.28.22. Significant variances were observed on the following detected analytes: acetone and vinyl chloride (approximately twofold), 2-butanone and trans-1,2-dichloroethene (approximately three- and fivefold), and cis-1,2-dichloroethene and trichloroethene (approximately eight- and tenfold). In each case, the concentrations in the parent sample are higher than those of the duplicate. It is noted that the matrix spikes of the parent sample correlate well to the parent and each other. Additionally, although not validated, data for other analytical fractions (with the exception of the gases) do not show similar large variances between the parent and duplicate. Results for the outlying volatile analytes noted above have been qualified as estimated in the parent sample and its duplicate, and should be used with caution. Data for any other samples of similar matrix or collection anomalies should also be used with consideration of the potential variance.

`

Volatile Analyses by EPA 8260C

Matrix spikes of MW-8_04.28.22 produced recoveries and correlations within validation guidelines, with the exception of those for trichloroethene (129% and 141%), the result for which has been qualified as estimated in the parent sample. Outlying recoveries were not flagged on the QC Summary Forms 3, but were evaluated during validation.

The laboratory duplicate processed on MW-2_04.29.22 shows correlations within validation guidelines.

Surrogate and internal standard recoveries are compliant. Blanks show no contamination affecting sample reported results. LCS recoveries are within validation guidelines.

Calibration standards showed acceptable responses, with the exception of that for tetrachloroethene (34%D), results for which are qualified as estimated in the project samples.

Initial results for the analytes flagged by the laboratory as “E” have been derived from the dilution analysis of the samples, thus reflecting responses within the established linear range of the instrument.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Attachments: Validation Data Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Sample Summaries

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC1012.RA 4/28
Pace Project No.: 70212849

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70212849001	MW-13_4.28.22	RSK-175	254681	RSK-175	256002
70212849002	MW-6R_4.28.22	RSK-175	254681	RSK-175	256002
70212849003	MW-8_4.28.22	RSK-175	254681	RSK-175	256002
70212849004	MW-5_4.28.22	RSK-175	254681	RSK-175	256002
70212849005	MW-10_4.28.22	RSK-175	254681	RSK-175	256002
70212849006	DUP-1_4.28.22	RSK-175	254681	RSK-175	256002
70212849001	MW-13_4.28.22	EPA 3005A	254804	EPA 6010C	254875
70212849002	MW-6R_4.28.22	EPA 3005A	254804	EPA 6010C	254875
70212849003	MW-8_4.28.22	EPA 3005A	254804	EPA 6010C	254875
70212849004	MW-5_4.28.22	EPA 3005A	254804	EPA 6010C	254875
70212849005	MW-10_4.28.22	EPA 3005A	255490	EPA 6010C	255544
70212849006	DUP-1_4.28.22	EPA 3005A	255490	EPA 6010C	255544
70212849001	MW-13_4.28.22	EPA 6010C	256432		
70212849002	MW-6R_4.28.22	EPA 6010C	256432		
70212849003	MW-8_4.28.22	EPA 6010C	256432		
70212849004	MW-5_4.28.22	EPA 6010C	256432		
70212849005	MW-10_4.28.22	EPA 6010C	256432		
70212849006	DUP-1_4.28.22	EPA 6010C	256432		
70212849001	MW-13_4.28.22	EPA 8260C/5030C	255719		
70212849002	MW-6R_4.28.22	EPA 8260C/5030C	255719		
70212849003	MW-8_4.28.22	EPA 8260C/5030C	255719		
70212849004	MW-5_4.28.22	EPA 8260C/5030C	255719		
70212849005	MW-10_4.28.22	EPA 8260C/5030C	255719		
70212849006	DUP-1_4.28.22	EPA 8260C/5030C	255719		
70212849007	TRIP BLANK	EPA 8260C/5030C	255719		
70212849001	MW-13_4.28.22	SM22 2320B	256145		
70212849002	MW-6R_4.28.22	SM22 2320B	256145		
70212849003	MW-8_4.28.22	SM22 2320B	256145		
70212849004	MW-5_4.28.22	SM22 2320B	256145		
70212849005	MW-10_4.28.22	SM22 2320B	256145		
70212849006	DUP-1_4.28.22	SM22 2320B	256316		
70212849001	MW-13_4.28.22	SM22 4500-S2 F	255193		
70212849002	MW-6R_4.28.22	SM22 4500-S2 F	255193		
70212849003	MW-8_4.28.22	SM22 4500-S2 F	255193		
70212849004	MW-5_4.28.22	SM22 4500-S2 F	255193		
70212849005	MW-10_4.28.22	SM22 4500-S2 F	255193		
70212849006	DUP-1_4.28.22	SM22 4500-S2 F	255193		
70212849001	MW-13_4.28.22	EPA 300.0	255830		
70212849002	MW-6R_4.28.22	EPA 300.0	255830		
70212849003	MW-8_4.28.22	EPA 300.0	255831		
70212849004	MW-5_4.28.22	EPA 300.0	255830		
70212849005	MW-10_4.28.22	EPA 300.0	255831		
70212849006	DUP-1_4.28.22	EPA 300.0	255831		

REPORT OF LABORATORY ANALYSIS

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC1012.RA 4/29
Pace Project No.: 70213002

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70213002001	MW-14_4.29.22	EPA 8260C/5030C	255955		
70213002002	MW-2_4.29.22	EPA 8260C/5030C	255955		
70213002003	MW-12_4.29.22	EPA 8260C/5030C	255955		
70213002004	PES-MW-5_4.29.22	EPA 8260C/5030C	255955		
70213002005	PES-MW-4_4.29.22	EPA 8260C/5030C	255955		
70213002006	PES-MW-6_4.29.22	EPA 8260C/5030C	255955		
70213002007	FIELD BLANK_4.29.22	EPA 8260C/5030C	255955		
70213002008	TRIP BLANK	EPA 8260C/5030C	255955		