Mr. Gerald Pratt, PG
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7014

Arcadis of New York, Inc.
100 Chestnut Street
Suite 1020
Rochester
New York 14604
Phone: 585 385 0090
Fax: 585 546 1973
www.arcadis.com

Date: July 22, 2022
Our Ref: 30126623
Subject: **Second Quarter 2022 Groundwater Monitoring Report**
New York State Electric & Gas Corporation
Penn Yan Former Manufactured Gas Plant, Penn Yan, New York
NYSDEC Site No. 862009

Dear Mr. Pratt,

On behalf of the New York State Electric & Gas Corporation (NYSEG), this letter summarizes activities completed during the second quarter of 2022 for the NYSEG Penn Yan former manufactured gas plant (MGP) site (New York State Department of Environmental Conservation [NYSDEC] Site No.862009) located in the Village of Penn Yan, Town of Milo, Yates County, New York (Figure 1).

Arcadis of New York, Inc. (Arcadis) conducted the second quarter 2022 (Q2) monitoring in accordance with the NYSDEC-approved December 2020 Interim Site Management Plan (ISMP) prepared by AECOM. This quarterly report covers the period from April 1, 2022, to June 30, 2022, and includes data from the May 31 and June 1, 2022 site visit.

Background

The former MGP site is approximately 0.815 acres and comprises a vacant masonry building and site cover consisting of grass, an asphalt driveway and parking area, and a section of riparian land along the Keuka Lake Outlet. An offsite area consists of an approximate 1.7-acre portion of submerged sediments beneath the Keuka Lake Outlet (Class C waterway) adjacent and downstream of the site.

The site was initially developed as a malt house and wood storage facility, operating from the 1840s to the late 1890s. The MGP was constructed in 1899 and operated until 1931. Operating companies included the Penn Yan Gas Light Company (1899-1926) and the New York State Central Electric Corporation (1927-1931). Gas was distributed to customers through buried mains and was used primarily for illumination. Several by-products from the MGP process, including coal tar, ash, and purifier waste, were stored onsite and either sold or disposed offsite.

The primary constituents of concern at the site are benzene, toluene, ethylbenzene, and xylenes (BTEX); polycyclic hydrocarbons (PAHs); and cyanide. Since the mid-1980s, the site has undergone several remedial investigations and interim remedial measures and actions to address the presence of impacted soils and former MGP structures. A summary of historical investigations and remedial actions at the site are provided in the ISMP.

Second Quarter 2022 Monitoring and Sampling

As presented in the ISMP, groundwater remedy objectives for the Q2 monitoring period are to:

- Assess groundwater movement patterns at the site.
- Monitor groundwater quality to document dissolved BTEX, PAHs, and total cyanide concentrations at the site (quarterly).

To document achieving the objectives, this report presents the following:

- Site-wide data collected during the monitoring period, including groundwater analytical data and groundwater elevation data; and
- Conclusions and monitoring requirement modification recommendations, as appropriate.

Groundwater Elevation and Flow

Field personnel measured the relative depth to groundwater from the following surveyed measuring points during the Q2 monitoring event (shown on Figure 2):

- Monitoring wells PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRWM-4S, PRMW-5S, PRMW-5D, PRMW-6S, PRMW-6D, TMW-1D, and TMW-2D.

Groundwater elevations measured during this reporting period, and previously measured elevations, are summarized in Table 1.

The shallow and deep potentiometric surfaces and groundwater flow directions for the Q2 gauging event are presented on Figures 3 and 4, respectively. As shown on the figures, the general groundwater flow in the shallow and deep aquifers was to the southeast, toward the Keuka Lake Outlet. When compared to the shallow and deep aquifer potentiometric surface maps for the February 2022 event, no significant changes to site-wide groundwater flow direction are observed.

Groundwater Sampling Activities and Results

Arcadis conducted the Q2 groundwater sampling event on May 31 and June 1, 2022. Groundwater sampling activities and associated analytical results are summarized below.

Groundwater Sampling Activities

Arcadis field personal collected groundwater samples from 11 monitoring wells (PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRWM-4S, PRMW-5S, PRMW-5D, PRMW-6S, PRMW-6D, and TMW-1D) using low-flow groundwater purging and sampling techniques. Groundwater samples were submitted to Eurofins TestAmerica Laboratories, located in Amherst, New York, for the following analysis:

- BTEX using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C;
- PAHs using USEPA SW-846 Method 8270D; and
- Total cyanide using USEPA SW-846 Method 9012B.

Groundwater sampling logs are provided as Attachment 1.

Groundwater Quality

Arcadis validated the laboratory analytical data and prepared Data Usability Summary Reports (DUSRs). The data review indicated that overall laboratory performance was acceptable, and the overall data quality was within guidelines specified in the respective methods. Instances where laboratory performance was not acceptable (if any) are detailed in the DUSR, and the data has been appropriately qualified. Laboratory reports are included as Attachment 2, and the DUSRs are included as Attachment 3.

Analytical results presented in Table 2 are compared to the NYSDEC's Division of Water Technical and Operational Guidance Series 1.1.1: Ambient Water Quality Standards and Guidance Values and the Groundwater Effluent Limitations Class GA groundwater quality standards/guidance values. Table 2 also includes analytical results for groundwater samples collected during previous groundwater sampling events (conducted by AECOM).

Shallow Aquifer

BTEX, PAH, and total cyanide analytical results for groundwater samples collected from the shallow aquifer monitoring wells (PRMW-1S, PRMW-2S, PRMW-3S, PRMW-4S, PRMW-5S, and PRMW-6S) during the reporting period are summarized below.

- BTEX:
  - Benzene (16 micrograms per liter [µg/L]) and ethylbenzene (5.7 µg/L) were detected in groundwater collected from monitoring well PRMW-5S, exceeding Class GA groundwater quality standards.
  - Toluene (0.95 µg/L) and total xylenes (4.1 µg/L) were detected in groundwater collected from monitoring well PRMW-5S and did not exceed the Class GA groundwater quality standards.
  - BTEX was not detected in groundwater collected from the remaining shallow wells.
  - BTEX detections and concentration trends in shallow aquifer wells are consistent with historical results.
- PAHs:
  - Benzo(a)anthracene (0.055 µg/L) and naphthalene (29 µg/L) were detected in groundwater collected from monitoring well PRMW-5S, exceeding the Class GA groundwater quality standards.
  - Acenaphthene (18 µg/L), acenaphthylene (3.5 µg/L), anthracene (0.32 µg/L), fluoranthene (1.5 µg/L), fluorene (5.6 µg/L), phenanthrene (3.8 µg/L), and pyrene (0.85 µg/L) were detected in groundwater collected from monitoring well PRMW-5S and did not exceed the Class GA groundwater quality standards.
  - PAHs were not detected in groundwater collected from the remaining shallow wells.
  - PAH detections and concentration trends in shallow aquifer wells are consistent with historical results.
- Total Cyanide:
  - Total cyanide was detected in groundwater collected from monitoring wells PRMW-2S (0.078 µg/L), PRMW-4S (0.0056 µg/L), and PRMW-5S (0.047 µg/L) at concentrations less than the Class GA groundwater quality standards.
  - Total cyanide was not detected in groundwater collected from the remaining shallow wells.
  - Total cyanide concentrations in shallow aquifer wells are consistent with historical results.

Deep Aquifer

BTEX, PAHs, and total cyanide groundwater analytical results for samples collected from the deep aquifer monitoring wells (PRMW-2D, PRMW-3D, PRMW-5D, PRMW-6D, and TMW-1D) during the reporting period are summarized below.

- BTEX:
  - BTEX was not detected in groundwater collected from the deep wells.
- PAHs:
  - Acenaphthene (0.048 µg/L) was detected in groundwater collected from monitoring well PRMW-5D and did not exceed the Class GA groundwater quality standards.
  - PAHs were not detected in groundwater collected from the remaining deep wells.
- Total cyanide:
  - Total cyanide (0.006 µg/L) was detected in groundwater collected from monitoring well PRMW-6D and did not exceed the Class GA groundwater quality standards.
  - Total cyanide was not detected in groundwater collected from the remaining deep wells.

Site Inspections

A site inspection of onsite and offsite areas is required annually, per the ISMP. The purpose of the site inspection is to evaluate general site conditions and the condition and continued effectiveness of the cover system. This site inspection is anticipated to be completed during the third quarter 2022 site visit.

Waste Management

Arcadis containerized and staged investigation-derived waste generated during the groundwater sampling activities in appropriately labeled New York State Department of Transportation-approved 55-gallon drums. Drums of investigation-derived waste were subsequently transported offsite for treatment/disposal by NYSEG's waste disposal vendor.

Conclusions and Recommendations

The Q2 monitoring results are generally consistent with historical groundwater results. Based on the Q2 monitoring results:

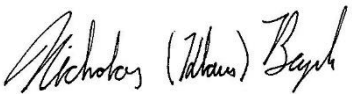
- The groundwater flow direction in the shallow and deep aquifers is generally consistent with historical conditions.
- BTEX concentrations in groundwater collected from PRMW-5S were slightly higher in Q2 than in the first quarter of 2022, but when compared to historical results, both BTEX and PAH concentrations in the shallow and deep aquifers indicate a decreasing trend.
- Total cyanide concentrations in the shallow and deep aquifers are consistent with historical results.

Quarterly monitoring and reporting will continue to be completed as required by the ISMP. The next groundwater sampling event is scheduled for August 2022. Groundwater samples will continue to be analyzed for BTEX, PAHs, and total cyanide as required by the ISMP.

Mr. Gerald Pratt, PG
NYSDEC
July 22, 2022

Please contact John Ruspantini of NYSEG at 607.725.3801 or jjruspantini@nyseg.com with any questions or comments.

Sincerely,
Arcadis of New York, Inc.



Nicholas (Klaus) Beyrle, PG
Senior Geologist

Email: nicholas.beyrle@arcadis.com
Direct Line: 585.662.4044

CC. John Ruspantini, CHMM, NYSEG
Jason Brien, PE, Arcadis

Enclosures:

- Table 1 – Gauging Data
- Table 2 – Groundwater Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3 – Shallow Aquifer Groundwater Contour Map, May 31, 2022
- Figure 4 – Deep Aquifer Groundwater Contour Map, May 31, 2022
- Attachment 1 – Groundwater Sampling Logs
- Attachment 2 – Groundwater Laboratory Reports
- Attachment 3 – Data Usability Summary Reports

Tables

Table 1
Gauging Data
2022 Second Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Interval	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)
PRMW-1S	731.11	29.90	20 - 30	February 22, 2021	15.40	715.71	-	29.90	0.00
				May 24, 2021	11.23	719.88	-	29.75	0.15
				August 23, 2021	6.52	724.59	-	29.68	0.22
				November 29, 2021	10.10	721.01	-	29.63	0.27
				February 24, 2022	10.20	720.91	-	29.69	0.21
				May 31, 2022	10.86	720.25	-	29.67	0.23
PRMW-2S	734.55	23.09	10 - 20	February 22, 2021	16.10	718.45	-	23.09	0.00
				May 24, 2021	15.63	718.92	-	23.07	0.02
				August 23, 2021	14.19	720.36	-	23.02	0.07
				November 29, 2021	12.13	722.42	-	23.00	0.09
				February 24, 2022	14.87	719.68	-	22.98	0.11
				May 31, 2022	15.71	718.84	-	22.98	0.11
PRMW-2D	734.64	38.55	25 - 35	February 22, 2021	16.47	718.17	-	38.55	0.00
				May 24, 2021	15.84	718.80	-	37.92	0.63
				August 23, 2021	14.59	720.05	-	37.73	0.82
				November 29, 2021	15.14	719.50	-	37.76	0.79
				February 24, 2022	15.08	719.56	-	37.86	0.69
				May 31, 2022	15.68	718.96	-	37.82	0.73
PRMW-3S	723.73	22.90	10 - 20	February 22, 2021	7.72	716.01	-	22.90	0.00
				May 24, 2021	7.42	716.31	-	22.98	-0.08
				August 23, 2021	6.31	717.42	-	22.68	0.22
				November 29, 2021	6.90	716.83	-	22.79	0.11
				February 24, 2022	6.88	716.85	-	22.85	0.05
				May 31, 2022	7.18	716.55	-	22.80	0.10
PRMW-3D	723.81	36.25	25 - 35	February 22, 2021	6.80	717.01	-	36.25	0.00
				May 24, 2021	5.64	718.17	-	36.01	0.24
				August 23, 2021	4.89	718.92	-	35.84	0.41
				November 29, 2021	4.94	718.87	-	35.88	0.37
				February 24, 2022	4.93	718.88	-	35.90	0.35
				May 31, 2022	5.04	718.77	-	35.85	0.40
PRMW-4S	721.92	27.30	14 - 24	February 22, 2021	7.52	714.40	-	27.30	0.00
				May 24, 2021	7.26	714.66	-	27.20	0.10
				August 23, 2021	6.00	715.92	-	27.04	0.26
				November 29, 2021	6.89	715.03	-	27.06	0.24
				February 24, 2022	6.26	715.66	-	27.10	0.20
				May 31, 2022	7.16	714.76	-	27.09	0.21
PRMW-5S	720.72	22.70	10 - 20	February 22, 2021	7.10	713.62	-	22.70	0.00
				May 24, 2021	6.66	714.06	-	22.67	0.03
				August 23, 2021	6.17	714.55	-	22.54	0.16
				November 29, 2021	6.88	713.84	-	22.60	0.10
				February 24, 2022	6.48	714.24	-	22.61	0.09
				May 31, 2022	6.45	714.27	-	22.59	0.11
PRMW-5D	720.74	33.27	20 - 30	February 22, 2021	4.32	716.42	-	33.27	0.00
				May 24, 2021	3.24	717.50	-	32.45	0.82
				August 23, 2021	2.62	718.12	-	32.23	1.04
				November 29, 2021	2.63	718.11	-	32.00	1.27
				February 24, 2022	3.30	717.44	-	32.54	0.73
				May 31, 2022	2.80	717.94	-	31.71	1.56
PRMW-6S	721.10	23.20	10 - 20	February 22, 2021	6.52	714.58	-	23.20	0.00
				May 24, 2021	6.28	714.82	-	23.10	0.10
				August 23, 2021	6.05	715.05	-	23.02	0.18
				November 29, 2021	6.04	715.06	-	23.08	0.12
				February 24, 2022	6.13	714.97	-	23.08	0.12
				May 31, 2022	6.09	715.01	-	23.05	0.15

See Notes on Page 2.

Table 1
Gauging Data
2022 Second Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Interval	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)
PRMW-6D	721.22	37.05	24 - 34	February 22, 2021	4.85	716.37	-	37.05	0.00
				May 24, 2021	3.75	717.47	-	37.05	0.00
				August 23, 2021	2.99	718.23	-	36.87	0.18
				November 29, 2021	3.06	718.16	-	36.90	0.15
				February 24, 2022	3.97	717.25	-	36.94	0.11
				May 31, 2022	3.17	718.05	-	36.89	0.16
TMW-1D	723.45	-	54 - 64	May 24, 2021	5.17	718.28	-	63.38	-
				August 23, 2021	3.07	720.38	-	63.14	-
				November 29, 2021	4.40	719.05	-	63.25	-
				February 24, 2022	4.43	719.02	-	63.37	-
				May 31, 2022	4.76	718.69	-	63.42	-
TMW-2D	719.24	-	50 - 60	February 22, 2021	2.03	717.21	-	-	-
				May 24, 2021	0.79	718.45	-	-	-
				August 23, 2021	0.40	718.84	-	-	-
				November 29, 2021	0.09	719.15	-	-	-
				February 24, 2022	0.15	719.09	-	-	-
				May 31, 2022	0.15	719.09	-	-	-

Notes:
1. All measurements from Top of Casing (TOC).
2. "-" Indicates measurement not taken or not available.
3. Elevations in feet above mean sea level (ft amsl), 1929 National Geodetic Vertical Datum (NGVD).
4. Depth calculated based on survey and well installation information provided by AECOM.

Table 2
Groundwater Analytical Results
2022 Second Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. Or Guidance Values	Units	PRMW-1S					PRMW-2D					PRMW-2S				
Date Collected:			05/26/21	08/23/21	11/29/21	02/25/22	06/01/22	05/25/21	08/25/21	11/30/21	02/25/22	06/01/22	05/25/21	08/24/21	11/30/21	02/25/22	06/01/22
BTEX																	
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	2.0 U	2 UJ	2 U	2 U	2.0 U	2.0 U	2 UJ	2 U	2 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs																	
Acenaphthene	20	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 U	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Acenaphthylene	- -	ug/L	5.2 U	5 U	5 U	0.30 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.30 U	5.2 U	5 U	5 U	0.30 U	0.30 U
Anthracene	50	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 U	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	0.29 U	5.2 U	5 U	5 U	0.31 UJ	0.30 U	5.2 U	5 U	5 U	0.30 U	0.30 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5 U	5 U	0.18 U	0.17 U	5.2 U	5 U	5 U	0.19 UJ	0.18 U	5.2 U	5 U	5 U	0.18 U	0.18 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	0.29 U	5.2 U	5 U	5 U	0.31 UJ	0.30 U	5.2 U	5 U	5 U	0.30 U	0.30 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 UJ	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	0.29 U	5.2 U	5 U	5 U	0.31 UJ	0.30 U	5.2 U	5 U	5 U	0.30 U	0.30 U
Chrysene	0.002	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 UJ	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 UJ	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Fluoranthene	50	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 U	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Fluorene	50	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 U	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 UJ	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Naphthalene	10	ug/L	5.2 U	5 U	5 U	1.0 U	0.97 U	5.2 U	5 U	5 U	1.0 U	1.0 U	5.2 U	5 U	5 U	1.0 U	1.0 U
Phenanthrene	50	ug/L	5.2 U	5 UJB	5 U	0.20 U	0.19 U	5.2 U	5 U	5 U	0.21 U	0.20 U	5.2 U	5 U	5 U	0.20 U	0.20 U
Pyrene	50	ug/L	5.2 U	5 U	5 U	0.50 U	0.49 U	5.2 U	5 U	5 U	0.52 U	0.50 U	5.2 U	5 U	5 U	0.50 U	0.51 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics																	
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 UB	**0.015 J**	**0.064**	**0.09**	**0.077**	**0.078 J**

See Notes on Page 4.

Table 2
Groundwater Analytical Results
2022 Second Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. Or Guidance Values	Units	PRMW-3D					PRMW-3S					PRMW-4S				
Date Collected:			05/24/21	08/24/21	11/30/21	02/25/22	06/01/22	05/24/21	08/24/21	11/30/21	02/25/22	05/31/22	05/25/21	08/23/21	11/29/21	02/25/22	05/31/22
BTEX																	
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	2.0 U	2 UJ	2 U	2 U	2.0 U	2.0 U	2 UJ	2 U	2 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs																	
Acenaphthene	20	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 U	5.2 U	5 U	5 U	10 U	0.48 U
Acenaphthylene	- -	ug/L	5.2 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	6.1 U	0.29 U
Anthracene	50	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 U	5.2 U	5 U	5 U	10 U	0.48 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 UJ	5.2 U	5 U	5 U	6.1 U	0.29 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5 U	5 U	0.19 U	0.17 U	5.2 U	5 U	5 U	0.18 U	0.17 UJ	5.2 U	5 U	5 U	3.7 U	0.17 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 UJ	5.2 U	5 U	5 U	6.1 U	0.29 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 UJ	5.2 U	5 U	5 U	10 U	0.48 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 UJ	5.2 U	5 U	5 U	6.1 U	0.29 U
Chrysene	0.002	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 UJ	5.2 U	5 U	5 U	10 U	0.48 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 UJ	5.2 U	5 U	5 U	10 U	0.48 U
Fluoranthene	50	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 U	5.2 U	5 U	5 U	10 U	0.48 U
Fluorene	50	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 U	5.2 U	5 U	5 U	10 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 UJ	5.2 U	5 U	5 U	10 U	0.48 U
Naphthalene	10	ug/L	5.2 U	5 U	5 U	1.0 U	0.97 U	5.2 U	5 U	5 U	1.0 U	0.97 U	5.2 U	5 U	5 U	20 U	0.95 U
Phenanthrene	50	ug/L	5.2 U	5 U	5 U	0.21 U	0.19 U	5.2 U	5 U	5 U	0.20 U	0.19 U	5.2 U	5 U	5 U	4.1 U	0.19 U
Pyrene	50	ug/L	5.2 U	5 U	5 U	0.52 U	0.49 U	5.2 U	5 U	5 U	0.51 U	0.49 U	5.2 U	5 U	5 U	10 U	0.48 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics																	
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	**0.011**	0.01 U	**0.27**	0.010 U	0.010 U	0.01 U	**0.0072 J**	0.01 U	0.010 U	**0.0056 J**

See Notes on Page 4.

Table 2
Groundwater Analytical Results
2022 Second Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. Or Guidance Values	Units	PRMW-5D					PRMW-5S					PRMW-6D				
Date Collected:			05/24/21	08/24/21	11/30/21	02/25/22	05/31/22	05/25/21	08/25/21	11/30/21	02/25/22	05/31/22	05/25/21	08/24/21	11/30/21	02/25/22	05/31/22
BTEX																	
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	1.0 U	**23**	**21**	**27**	**14**	**16**	1 U	1 U	1 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	**2.4 J**	**3**	**5.9**	**3.3**	**5.7**	1 UJ	1 U	1 U	1.0 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	**0.75 J**	**0.9 J**	**1.6**	**0.65 J**	**0.95 J**	1 UJ	1 U	1 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	2.0 U	**4.9 J**	**3.3**	**6.6**	**2.9**	**4.1**	2 UJ	2 U	2 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	**31 J**	**28 J**	**41**	**21 J**	**27 J**	ND	ND	ND	ND	ND
PAHs																	
Acenaphthene	20	ug/L	5.2 U	5 U	5 U	**0.055 J**	**0.048 J**	**22**	**39**	**15**	**26 D**	**18 D**	5.2 U	5 U	5 U	0.50 U	0.48 U
Acenaphthylene	- -	ug/L	5.2 U	5 U	5 U	0.30 U	0.31 U	**4.4 J**	**7.6**	**3.4 J**	**5.2**	**3.5**	5.2 U	5 U	5 U	0.30 U	0.29 U
Anthracene	50	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	**1.5 J**	**1.6 J**	**0.52 J**	**0.73**	**0.32 J**	5.2 U	5 U	5 U	0.50 U	0.48 U
Benzo(a)anthracene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	0.31 U	5.2 U	**0.39 J**	5 U	0.32 U	**0.055 J**	5.2 U	5 U	5 U	0.30 U	0.29 U
Benzo(a)pyrene	- -	ug/L	5.2 U	5 U	5 U	0.18 U	0.18 U	5.2 U	5 U	5 U	0.19 U	0.18 U	5.2 U	5 U	5 U	0.18 U	0.17 U
Benzo(b)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	0.31 U	5.2 U	5 U	5 U	0.32 U	0.31 U	5.2 U	5 U	5 U	0.30 U	0.29 U
Benzo(g,h,i)perylene	- -	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	5.2 U	5 U	5 U	0.53 U	0.51 U	5.2 U	5 U	5 U	0.50 U	0.48 U
Benzo(k)fluoranthene	0.002	ug/L	5.2 U	5 U	5 U	0.30 U	0.31 U	5.2 U	5 U	5 U	0.32 U	0.31 U	5.2 U	5 U	5 U	0.30 U	0.29 U
Chrysene	0.002	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	5.2 U	5 U	5 U	**0.084 J**	0.51 U	5.2 U	5 U	5 U	0.50 U	0.48 U
Dibenzo(a,h)anthracene	- -	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	5.2 U	5 U	5 U	0.53 U	0.51 U	5.2 U	5 U	5 U	0.50 U	0.48 U
Fluoranthene	50	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	**3 J**	**5.5**	**2.1 J**	**2.5**	**1.5**	5.2 U	5 U	5 U	0.50 U	0.48 U
Fluorene	50	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	**7**	**12**	**5.5**	**10**	**5.6**	5.2 U	5 U	5 U	0.50 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	5.2 U	5 U	5 U	0.53 U	0.51 U	5.2 U	5 U	5 U	0.50 U	0.48 U
Naphthalene	10	ug/L	5.2 U	5 U	5 U	1.0 U	1.0 U	**44**	**45**	**44**	**26 D**	**29 D**	5.2 U	5 U	5 U	1.0 U	0.95 U
Phenanthrene	50	ug/L	5.2 U	5 U	5 U	**0.066 J**	0.20 U	**8.2**	**21 B**	**5.7**	**9.8**	**3.8**	5.2 U	5 U	5 U	0.20 U	0.19 U
Pyrene	50	ug/L	5.2 U	5 U	5 U	0.51 U	0.51 U	**2 J**	**3.4 J**	**1.3 J**	**1.5**	**0.85**	5.2 U	5 U	5 U	0.50 U	0.48 U
Total PAHs	- -	ug/L	ND	ND	ND	**0.12 J**	**0.048 J**	**92 J**	**140 J**	**78 J**	**82 J**	**63 J**	ND	ND	ND	ND	ND
Inorganics																	
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	**0.016**	**0.11**	0.01 U	**0.076**	**0.047 J**	0.01 U	0.01 U	0.01 U	0.010 U	**0.0060 J**

See Notes on Page 4.

Table 2
Groundwater Analytical Results
2022 Second Quarter Groundwater Monitoring Report
NYSEG
Penn Yan, New York

Location ID:	NYSDEC TOGS 1.1.1 Stds. Or	Units	PRMW-6S					TMW-1D				
Date Collected:	Guidance Values		05/25/21	08/24/21	11/30/21	02/25/22	05/31/22	05/26/21	08/25/21	11/30/21	02/25/22	06/01/22
BTEX												
Benzene	1	ug/L	1 U	1 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U
Toluene	5	ug/L	1 UJ	1 U	1 U	1.0 U	1.0 U	1 UJ	1 U	1 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2 UJ	2 U	2 U	2.0 U	2.0 U	2 UJ	2 U	2 U	2.0 U	2.0 U
Total BTEX	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs												
Acenaphthene	20	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Acenaphthylene	- -	ug/L	5.4 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 U
Anthracene	50	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Benzo(a)anthracene	0.002	ug/L	5.4 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 U
Benzo(a)pyrene	- -	ug/L	5.4 U	5 U	5 U	0.18 U	0.17 U	5.2 U	5 U	5 U	0.19 U	0.17 U
Benzo(b)fluoranthene	0.002	ug/L	5.4 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 U
Benzo(g,h,i)perylene	- -	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Benzo(k)fluoranthene	0.002	ug/L	5.4 U	5 U	5 U	0.31 U	0.29 U	5.2 U	5 U	5 U	0.31 U	0.29 U
Chrysene	0.002	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Dibenzo(a,h)anthracene	- -	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Fluoranthene	50	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Fluorene	50	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Naphthalene	10	ug/L	5.4 U	5 U	5 U	1.0 U	0.96 U	5.2 U	5 U	5 U	1.0 U	0.96 U
Phenanthrene	50	ug/L	5.4 U	5 U	5 U	0.20 U	0.19 U	5.2 U	5 U	5 U	0.21 U	0.19 U
Pyrene	50	ug/L	5.4 U	5 U	5 U	0.51 U	0.48 U	5.2 U	5 U	5 U	0.52 U	0.48 U
Total PAHs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics												
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	**0.051**	0.010 U	0.010 U	0.01 UJ	0.01 U	0.01 U	0.010 U	0.010 U

Notes:

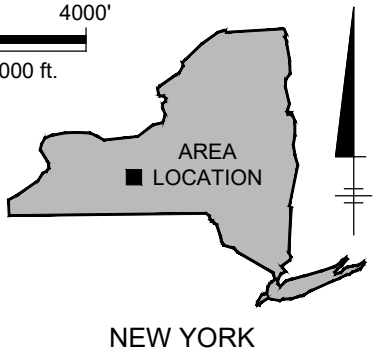
1. Samples were submitted to Eurofins TestAmerica, Buffalo, New York, for analysis using USEPA SW-846 Methods 8260B (BTEX) and 8270C (PAHs).
2. D - Concentration is based on diluted sample analysis.
3. J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.
4. U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
5. B - The compound has been detected in the sample as well as its associated blank, its presence in the sample may be suspect.
6. UJ - The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
7. NA - not analyzed
8. ND - not detected
9. Sample results detected above the Method Detection Limit are presented in bold font.
10. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
11. BTEX - Benzene, Ethylbenzene, Toluene, Xylenes
12. NYSDEC - New York State Department of Environmental Conservation
13. PAH - Polycyclic Aromatic Hydrocarbon.
14. TOGS - Technical and Operational Guidance Series.
15. USEPA - United States Environmental Protection Agency.

Figures

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., PENN YAN, NY, 2019.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SITE LOCATION MAP

ARCADIS

FIGURE
1

WATER STREET

PRMW-2D

PRMW-2S

ASPHALT

TMW-1D

PRMW-1S

PRMW-3D

PRMW-3S

FORMER GAS HOUSE MULTI-STORY MASONRY

PRMW-6D

PRMW-6S

TMW-2D

PEDESTRIAN BRIDGE

PRMW-5S

PRMW-5D

OFFICE AND STORAGE BUILDING

PRMW-4S

KEUKA LAKE OUTLET

DOCK

RECREATION PATH

VILLAGE OF PENN YAN PROPERTY

LAKE STREET

NYS RTE 14A - LIBERTY STREET

LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE

NOTE:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.

0 50' 100'

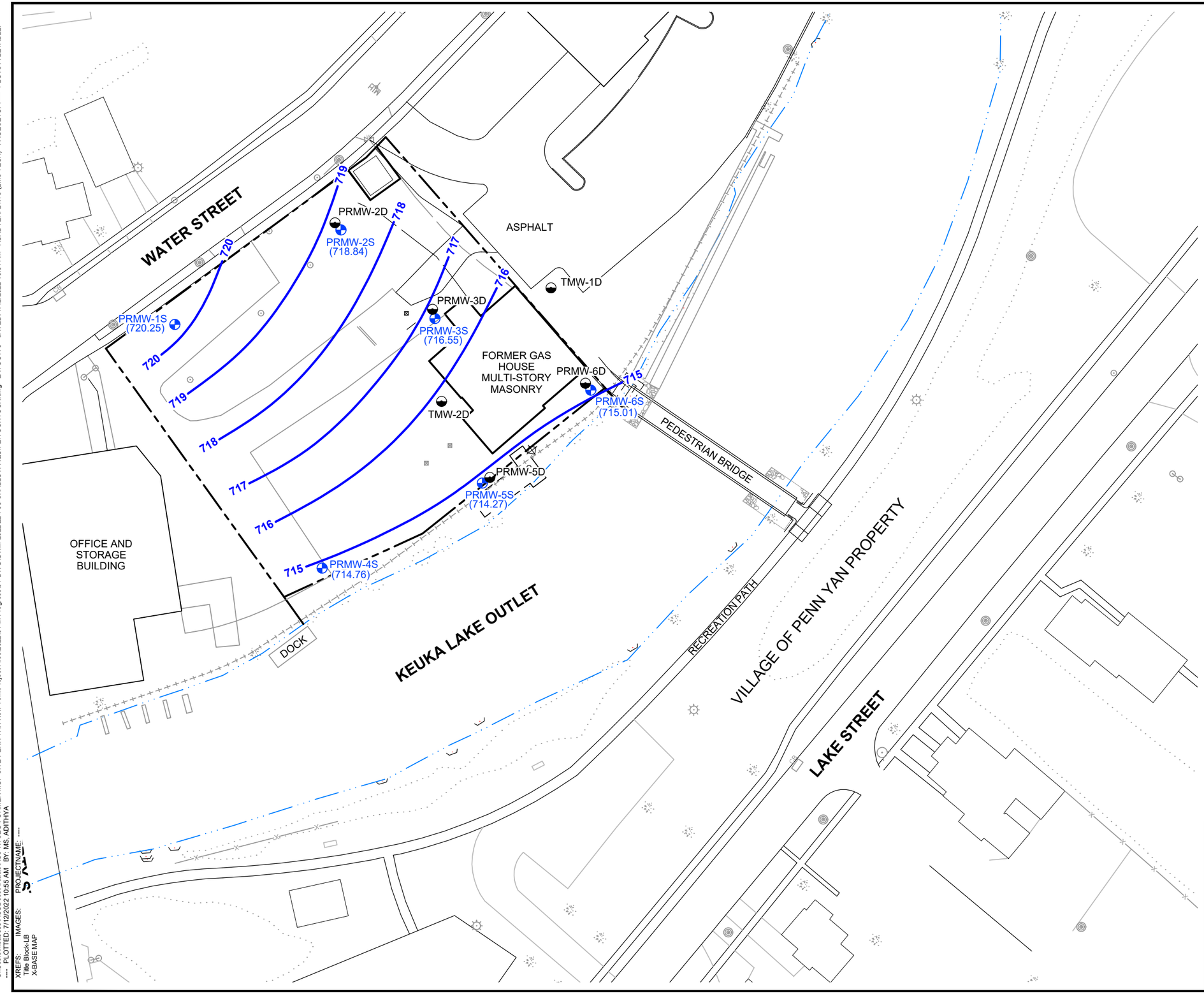
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SITE MAP

ARCADIS

FIGURE
2



LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- (720.25) GROUNDWATER ELEVATION (ASML)
- 720 GROUNDWATER CONTOUR

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.

0 50' 100'

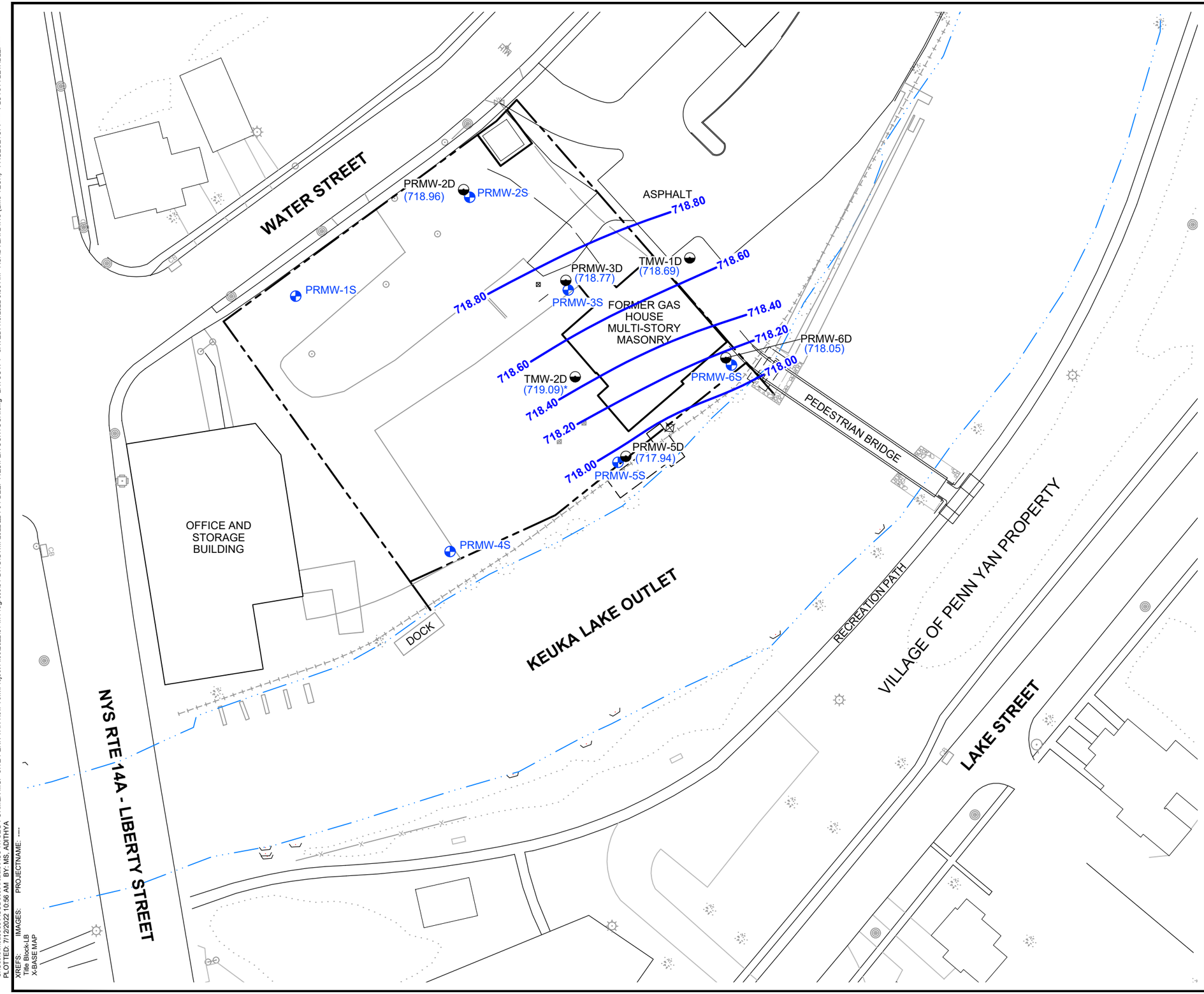
GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SHALLOW AQUIFER GROUNDWATER CONTOUR MAP MAY 31, 2022

ARCADIS

FIGURE 3



LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- (718.96) GROUNDWATER ELEVATION (ASML)
- 718.80 GROUNDWATER CONTOUR

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.
3. * - LOCATION NOT USED FOR CONTOURING

0 50' 100'

GRAPHIC SCALE

NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

DEEP AQUIFER GROUNDWATER CONTOUR MAP MAY 31, 2022

ARCADIS

FIGURE 4

Attachment 1

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AJS **Well ID:** PRMW-15
Client / Job Number: NYSEG/30126623 **Date:** 6/1/22
Weather: 76°F Cloudy **Time In:** 0950 **Time Out:**

Well Information

Depth to Water	10.82	(feet TIC)
Total Depth	29.67	(feet TIC)
Length of Water Column:	18.85	(feet)
Volume of Water in Well:	3.1	(gal)
Screen Interval	20-30	(feet)
Depth to pump Intake.	≈27	(feet TIC)

Well Type.	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked	(Yes)	No
Measuring Point Marked.	(Yes)	No
Well Diameter	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method.	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Duration of Pumping	100 (min)			
Average Pumping Rate:	200 (ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed:	3.2 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13	
	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1100	1105
Volume Purged (gal)	0.1	0.4	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	SAMPLE
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	11.69	12.65	13.66	14.49	15.37	15.89	16.34	17.55	18.21	18.73	19.34	19.69	20.08	
pH	9.99	8.58	8.50	8.51	8.49	8.29	8.65	8.58	8.56	8.58	8.93	8.78	8.75	
Temp. (C)	15.0	14.9	14.7	14.9	14.9	16.4	15.3	14.7	14.6	14.8	14.2	14.5	14.9	
Conductivity (mS/cm)	3.199	3.203	3.183	3.184	3.157	3.193	2.891	2.825	2.740	2.670	2.377	2.367	2.363	
Dissolved Oxygen (mg/l)	1.29	0.47	0.36	0.30	0.27	0.30	0.28	0.29	0.30	1.47	2.92	3.10	3.08	
ORP (mV)	27.9	-15.3	-29.4	-39.8	-46.0	-50.9	-51.4	-55.1	-54.5	-40.6	-23.2	-16.2	-15.8	
Turbidity (NTU)	31.97	22.64	12.33	9.65	9.92	9.44	9.12	8.99	9.07	8.81	8.64	8.72	8.51	
Notes:														

Sampling Information

Analyses	#	Laboratory
BTEX	3	Eurofins Buffalo
PAHs	2	
Total Cyanide	1	
1,4-Dioxane		
Sample ID: PRMW-15	Sample Time: 1105	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: Pump on @ 0955
clear, no odor

Final Purge: pump off @ 1135
clear, no odor, some sediment

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AS & KCF **Well ID:** PRMW-25
Client / Job Number: **Date:** 6/1/2022
Weather: cloudy, 75° **Time In:** 0915 **Time Out:** 1200

Well Information

Depth to Water	15.73	(feet TIC)
Total Depth:	22.98	(feet TIC)
Length of Water Column:	7.25	(feet)
Volume of Water in Well:	1.18	(gal)
Screen Interval:	—	(feet)
Depth to pump Intake:	~ 22'	(feet TIC)

Well Type	Flushmount	(Stick-Up)
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Duration of Pumping:	130 (min)			
Average Pumping Rate	150 (ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed:	~ 5 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0945	0950	0955	1000	1005	1010	1015	1020	1025	1030	1035	1040	1045
Volume Purged (gal)			0.5		1.0		1.5		2.0		2.5		[illegible]
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	150
Depth to Water (ft.)	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96
pH	7.43	7.39	7.36	7.33	7.32	7.31	7.32	7.31	7.30	7.30	7.31	7.29	7.29
Temp. (C)	15.1	14.9	14.8	15.0	14.7	14.9	15.2	14.9	14.9	15.1	14.9	14.6	14.4
Conductivity (mS/cm)	1.524	1.528	1.548	1.629	1.659	1.687	1.690	1.705	1.724	1.746	1.757	1.767	1.780
Dissolved Oxygen (mg/l)	3.93	3.69	3.50	2.96	2.69	2.52	2.45	2.35	2.16	2.05	1.97	1.89	1.79
ORP (mV)	183.1	183.5	183.7	182.5	182.2	181.9	179.3	178.9	178.9	178.1	176.5	177.9	178.1
Turbidity (NTU)	11.93	18.21	14.21	20.82	22.80	23.92	23.48	26.84	25.76	27.65	24.93	24.94	26.02
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane	0	
Sample ID: PRMW-25	Sample Time: 1140	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	Adam Svensson	

Problems / Observations

Initial Purge:

Pump on @ 0940; clear, no odor

Final Purge:

Pump off @ 1150; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AS & KCF
Well ID: PRMW-23
Client / Job Number:
Date: 6/1/2022
Weather: cloudy, 75°
Time In: 0915 **Time Out:**

Well Information

Depth to Water	(feet TIC)
Total Depth	(feet TIC)
Length of Water Column	(feet)
Volume of Water in Well	(gal)
Screen Interval:	(feet)
Depth to pump Intake	(feet TIC)

Well Type	Flushmount	Stick-Up
Well Material	Stainless Steel	PVC
Well Locked:	Yes	No
Measuring Point Marked:	Yes	No
Well Diameter:	2"	4"

Purging Information

Purging Method:	Bailer	Peristaltic	Grundfos	Other Bladder Pump
Tubing/Bailer Material:	St Steel	Polyethylene	Teflon	Other
Sampling Method:	Bailer	Peristaltic	Grundfos	Other Bladder Pump
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1050	1055	1100	1105	1110	1115	1120	1125	1130	1135	1140		
Volume Purged (gal)			3.0			3.5			4.0		S		
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	A		
Depth to Water (ft)	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	15.96	M		
pH	7.28	7.28	7.28	7.28	7.28	7.29	7.29	7.29	7.30	7.30	P		
Temp. (C)	14.1	14.3	14.2	13.9	14.2	14.0	14.1	14.3	14.3	14.4	L		
Conductivity (mS/cm)	1.789	1.798	1.805	1.812	1.814	1.823	1.823	1.825	1.829	1.832	E		
Dissolved Oxygen (mg/l)	1.71	1.65	1.56	1.51	1.45	1.44	1.38	1.34	1.32	1.31			
ORP (mV)	178.6	177.7	175.8	175.2	174.2	172.6	172.2	171.2	170.0	168.7			
Turbidity (NTU)	28.41	27.90	28.90	26.74	27.25	27.25	26.04	27.48	27.03	27.57			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX		
PAHs		
Total Cyanide		
1, 4-Dioxane		
Sample ID:		Sample Time:
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID:		Dup. Time:
Chain of Custody Signed By:		

Problems / Observations

Initial Purge:

Final Purge:

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AS & KCF **Well ID:** PRMW - 2D
Client / Job Number: **Date:** 6/1/2022
Weather: cloudy, 75° **Time In:** 1200 **Time Out:** 1330

Well Information

Depth to Water	15.71	(feet TIC)
Total Depth	37.82	(feet TIC)
Length of Water Column	22.11	(feet)
Volume of Water in Well	3.60	(gal)
Screen Interval	—	(feet)
Depth to pump intake	~ 37'	(feet TIC)

Well Type	Flushmount	(Stick-Up)
Well Material	Stainless Steel	(PVC)
Well Locked	(Yes)	No
Measuring Point Marked	(Yes)	No
Well Diameter	(2")	4"

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other Bladder Pump
Tubing/Bailer Material	St Steel	(Polyethylene)	Teflon	Other
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other Bladder Pump
Duration of Pumping	60 (min)			
Average Pumping Rate	150 (ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed	1.5 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1220	1225	1230	1235	1240	1245	1250	1300					
Volume Purged (gal)					1.0			SAMPLE					
Rate (mL/min)	150	150	150	150	150	150	150						
Depth to Water (ft.)	18.23	19.26	20.08	21.03	21.92	22.89							
pH	7.91	7.86	7.86	7.87	7.86	7.87	7.87						
Temp. (C)	13.9	14.3	14.7	14.7	14.9	14.9	14.9						
Conductivity (mS/cm)	0.656	0.653	0.651	0.655	0.652	0.654	0.653						
Dissolved Oxygen (mg/l)	2.39	2.27	2.22	2.23	2.20	2.19	2.17						
ORP (mV)	180.0	178.6	176.5	174.5	173.3	171.6	171.2						
Turbidity (NTU)	8.70	14.19	22.19	27.04	37.14	37.97	37.06						
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane	0	
Sample ID: PRMW - 2D	Sample Time: 1300	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	Adam Svensson	

Problems / Observations

Initial Purge:

Pump on @ 1215; clear, no odor

Final Purge:

Pump off @ 1315; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AS & KCF **Well ID:** PRMW - 3S
Client / Job Number: **Date:** 5/31/2022
Weather: Sunny, humd. 88° **Time In:** 1250 **Time Out:** 1500

Well Information

Depth to Water	7.18	(feet TIC)
Total Depth	22.80	(feet TIC)
Length of Water Column	15.62	(feet)
Volume of Water in Well	2.54	(gal)
Screen Interval	/	(feet)
Depth to pump Intake	~ 21'	(feet TIC)

Well Type	Flushmount	(Stick-Up)	
Well Material	Stainless Steel	(PVC)	
Well Locked	(Yes)	No	
Measuring Point Marked	(Yes)	No	
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other Bladder Pump
Tubing/Bailer Material	St Steel	(Polyethylene)	Teflon	Other
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other Bladder Pump
Duration of Pumping	120 (min)			
Average Pumping Rate	150 (ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed	4.0 (gal)	Did well go dry	Yes	(No)

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13	
	1300	1305	1310	1315	1320	1325	1330	1335	1340	1345	1350	1355	1400	1405
Volume Purged (gal)			1.0			1.5		2.0		3.0				SAMPLE
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	150	150	150	
Depth to Water (ft.)	7.77	8.30	8.30	8.70	8.79	8.79	9.07	9.17	9.22	9.29	9.29	9.44		
pH	7.41	7.38	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.35	7.36	7.36	7.36	
Temp. (C)	14.4	13.8	13.6	13.3	13.2	13.0	13.0	12.9	12.9	13.0	13.1	12.9	13.1	
Conductivity (mS/cm)	0.771	0.770	0.766	0.766	0.765	0.762	0.761	0.759	0.765	0.760	0.762	0.760	0.759	
Dissolved Oxygen (mg/l)	1.15	0.94	0.88	0.85	0.84	0.83	0.82	0.82	0.82	0.83	0.82	0.82	0.82	
ORP (mV)	166.0	157.9	146.3	135.4	126.1	118.3	111.7	100.9	96.8	87.9	80.2	75.1	70.2	
Turbidity (NTU)	7.09	11.74	20.58	29.50	33.73	46.15	46.99	47.33	47.35	17.14	27.80	27.64	27.19	
Notes:														

Sampling Information

Analyses	#	Laboratory
BTEX	12	
PAHs	8	
Total Cyanide	4	
1, 4-Dioxane	0	
Sample ID: PRMW - 3S	Sample Time: 1405	
MS/MSD: (Yes)	No	
Duplicate: (Yes)	No	
Duplicate ID: DUP - 053122	Dup. Time: 1405	
Chain of Custody Signed By:	Adam Svensson	

Problems / Observations

Initial Purge:

Pump on @ 1255; clear, no odor

Final Purge:

Pump off @ [redacted] 1455; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AS & KCF **Well ID:** PRMW-3D
Client / Job Number: **Date:** 6/1/2022
Weather: Cloudy, 75° **Time In:** 0900 **Time Out:** 0915

Well Information

Depth to Water	5.08	(feet TIC)
Total Depth:	35.85	(feet TIC)
Length of Water Column:	30.77	(feet)
Volume of Water in Well:	5.01	(gal)
Screen Interval:	—	(feet)
Depth to pump intake:	~35'	(feet TIC)

Well Type:	Flushmount	(Stick-Up)
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material:	St Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Duration of Pumping:	60 (min)			
Average Pumping Rate:	150 (ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed:	2.5 (gal)	Did well go dry:	Yes	(No)

Conversion Factors

gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0815	0820	0825	0830	0835	0840	0845	0850	0855	0900			
Volume Purged (gal)		0.5		1.0		1.5		2.0		S			
Rate (mL/min)	150	150	150	150	150	150	150	150	150	A			
Depth to Water (ft.)	6.93	6.93	7.43	7.58	8.63	7.68	7.68	7.68	7.68	M			
pH	7.92	7.83	7.81	7.81	7.80	7.80	7.79	7.79	7.79	P			
Temp. (C)	12.8	12.8	12.7	12.7	12.8	12.9	13.1	13.0	13.0	L			
Conductivity (mS/cm)	0.479	0.478	0.478	0.478	0.478	0.477	0.477	0.477	0.477	E			
Dissolved Oxygen (mg/l)	1.33	1.02	0.93	0.89	0.86	0.85	0.83	0.82	0.82				
ORP (mV)	-86.2	-115.4	-124.5	-128.4	-131.6	-133.1	-135.0	-136.2	-137.6				
Turbidity (NTU)	11.70	11.45	14.84	19.06	24.27	27.99	36.35	36.12	36.35				
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane	0	
Sample ID: PRMW-3D	Sample Time: 0900	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	Adam Svensson	

Problems / Observations

Initial Purge:

Pump on @ 0810; clear, no odor

Final Purge:

Pump off @ 0910; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site — **Event:** 2022 Q2 GWS

Sampling Personnel: AJS — **Well ID:** PRMW-45
Client / Job Number: NYSEG/30126123 — **Date:** 5/31/22
Weather: 87°F Sunny — **Time In:** 1455 — **Time Out:** 1630

Well Information

Depth to Water	7.06	(feet TIC)
Total Depth	27.11	(feet TIC)
Length of Water Column:	20.05	(feet)
Volume of Water in Well:	3.3	(gal)
Screen Interval	14-24	(feet)
Depth to pump Intake	≈25	(feet TIC)

Well Type	Flushmount	(Stick-Up)
Well Material	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Duration of Pumping:	65 (min)			
Average Pumping Rate:	200 (ml/min)		Water-Quality Meter Type:	YSI / Lamotte
Total Volume Removed:	7.4 (gal)		Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1510	1515	1520	1525	1530	1535	1540	1545	1550	1555	1600		
Volume Purged (gal)	0.1	0.4	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	S		
Rate (mL/min)	175	175	175	200	200	200	200	200	200	200	A		
Depth to Water (ft.)	7.76	7.97	8.15	8.13	8.11	8.10	8.16	8.22	8.29	8.34	M		
pH	11.21	9.57	9.27	9.42	9.34	9.28	9.39	9.28	9.21	9.19	P		
Temp. (C)	17.8	17.6	18.4	17.9	18.5	19.0	18.3	17.8	17.6	17.9	L		
Conductivity (mS/cm)	0.693	0.687	0.698	0.707	0.724	0.749	0.776	0.785	0.801	0.907	E		
Dissolved Oxygen (mg/l)	0.57	0.34	0.27	0.23	0.22	0.21	0.20	0.18	0.18	0.18			
ORP (mV)	-99.0	-103.4	-106.5	-106.7	-106.7	-107.0	-104.6	-103.4	-101.4	-101.0			
Turbidity (NTU)	23.80	20.61	15.32	10.24	11.16	10.57	10.26	9.89	9.62	9.75			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane		
Sample ID: PRMW-45	Sample Time: 1600	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 1505 clear, no odor

Final Purge: pump off @ 1610 clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: KCF & AS **Well ID:** PRMW-55
Client / Job Number: **Date:** 5/31/22
Weather: Sunny, humid, 88° **Time In:** 1125 **Time Out:** 1245

Well Information

Depth to Water:	6.47	(feet TIC)
Total Depth:	22.59	(feet TIC)
Length of Water Column:	16.12	(feet)
Volume of Water in Well:	2.62	(gal)
Screen Interval:	—	(feet)
Depth to pump Intake:	~21'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material:	St Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(eri ...tic)	Grundfos	Other: Bladder Pump
Duration of Pumping:	65 (min)			
Average Pumping Rate:	150 (ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed:	3.2 (gal)	Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1140	1145	1150	1155	1200	1205	1210	1215	1220	1225	1230		
Volume Purged (gal)			1.0			1.5			2.0		SAMPLE		
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150			
Depth to Water (ft.)	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67			
pH	7.62	7.48	7.45	7.45	7.45	7.45	7.44	7.44	7.44	7.44			
Temp. (C)	15.1	15.2	15.2	15.2	15.0	14.7	14.8	14.9	15.0	14.2			
Conductivity (mS/cm)	0.610	0.611	0.610	0.610	0.610	0.609	0.609	0.605	0.600	0.597			
Dissolved Oxygen (mg/l)	1.23	0.96	0.86	0.83	0.82	0.81	0.79	0.78	0.77	0.78			
ORP (mV)	-106.2	-111.5	-115.8	-118.8	-121.4	-122.6	-123.7	-124.9	-125.8	-126.9			
Turbidity (NTU)	29.76	31.37	33.35	26.09	38.18	36.27	40.10	47.37	47.34	47.93			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane	0	
Sample ID: PRMW-55	Sample Time: 1230	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	Adam Svennson	

Problems / Observations

Initial Purge:

Pump on @ 1135; clear, no odor

Final Purge:

Pump off @ 1240, clear/slightly turbid, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: KCF & AS
Client / Job Number:
Weather: Sunny / humid, 88°

Well ID: PRMW-5D
Date: 5/31/22
Time In: 1000 **Time Out:** 1125

Well Information

Depth to Water	2.85	(feet TIC)
Total Depth	31.71	(feet TIC)
Length of Water Column	28.86	(feet)
Volume of Water in Well	4.70	(gal)
Screen Interval	/	(feet)
Depth to pump intake	~ 30'	(feet TIC)

Well Type	Flushmount	(Stick-Up)	
Well Material	Stainless Steel	(PVC)	
Well Locked	(Yes)	No	
Measuring Point Marked	(Yes)	No	
Well Diameter	(2")	4"	

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material	St. Steel	(Polyethylene)	Teflon	Other:
Sampling Method	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump

Duration of Pumping	65 (min)		
Average Pumping Rate	150 (ml/min)	Water-Quality Meter Type	YSI / Lamotte
Total Volume Removed	3.0 (gal)	Did well go dry:	Yes (No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1020	1025	1030	1035	1040	1045	1050	1055	1100	1105	1110		
Volume Purged (gal)			1.0			1.5			2.0		S		
Rate (mL/min)	150	150	150	150	150	150	150	150	150	150	A		
Depth to Water (ft.)	3.93	5.22	5.63	6.06	6.29	6.49	6.69	6.81	6.81		M		
pH	7.79	7.72	7.69	7.69	7.69	7.69	7.69	7.68	7.69	7.69	P		
Temp. (C)	15.4	15.2	15.1	15.0	14.8	14.9	14.6	14.7	14.8	14.3	L		
Conductivity (mS/cm)	0.449	0.448	0.448	0.447	0.447	0.447	0.447	0.448	0.447	0.447	E		
Dissolved Oxygen (mg/l)	1.08	0.91	0.85	0.82	0.80	0.78	0.78	0.77	0.76	0.77	↓		
ORP (mV)	-90.6	-113.5	-121.2	-127.0	-131.3	-134.5	-136.9	-139.7	-141.6	-143.0			
Turbidity (NTU)	73.00	69.22	67.07	64.33	69.83	63.45	67.25	47.64	47.51	47.88			
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane	0	
Sample ID: PRMW-5D	Sample Time: 1110	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: /	Dup. Time: /	
Chain of Custody Signed By:	Adam Svensson	

Problems / Observations

Initial Purge:

Pump on @ 1015; clear, no odor

Final Purge:

Pump off @ 1120; slightly turbid, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AJS
Client / Job Number: NYSEG / 30126623
Weather: 86°F Sunny
Well ID: PRMW-65
Date: 5/31/22
Time In: 1215 **Time Out:** 1400

Well Information

Depth to Water:	6.11	(feet TIC)
Total Depth:	23.05	(feet TIC)
Length of Water Column:	16.94	(feet)
Volume of Water in Well	2.8	(gal)
Screen Interval:	10-20	(feet)
Depth to pump Intake.	≈ 21	(feet TIC)

Well Type	Flushmount	Stick-Up
Well Material:	Stainless Steel	PVC
Well Locked.	Yes	No
Measuring Point Marked	Yes	No
Well Diameter	2"	4"

Purging Information

Purging Method.	Bailer	Peristaltic	Grundfos	Other. Bladder Pump
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Grundfos	Other: Bladder Pump

Duration of Pumping:	75	(min)		
Average Pumping Rate:	200	(ml/min)	Water-Quality Meter Type:	YSI / Lamotte
Total Volume Removed:	2.6	(gal)	Did well go dry:	Yes / No

Conversion Factors				
gal / ft of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1225	1230	1235	1240	1245	1250	1255	1300	1305	1310	1315	1320	1325
Volume Purged (gal)	0.1	0.4	0.7	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	S
Rate (mL/min)	200	200	200	200	200	200	200	200	200	200	200	200	A
Depth to Water (ft.)	6.95	8.22	9.45	10.03	10.50	11.02	11.60	12.15	12.72	13.04	13.29	13.49	M
pH	13.97	11.96	11.58	11.07	11.11	11.29	11.42	11.34	11.25	11.09	11.02	11.07	P
Temp. (C)	16.1	15.7	15.5	16.4	17.9	18.1	17.8	18.0	18.3	17.0	18.0	17.1	L
Conductivity (mS/cm)	0.287	0.285	0.282	0.290	0.297	0.303	0.300	0.302	0.305	0.293	0.301	0.299	E
Dissolved Oxygen (mg/l)	0.47	0.28	0.23	0.23	0.22	0.21	0.21	0.20	0.19	0.17	0.17	0.17	
ORP (mV)	-84.4	-125.0	-132.8	-135.5	-136.4	-135.5	-135.9	-137.3	-137.7	-135.9	-135.6	-133.3	
Turbidity (NTU)	120.18	180.99	148.60	135.70	115.31	103.22	72.43	36.11	12.62	11.93	11.56	11.74	
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	Eurofins Buffalo
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane		
Sample ID: PRMW-65	Sample Time: 1325	
MS/MSD:	Yes / No	
Duplicate:	Yes / No	
Duplicate ID: —	Dup. Time. —	
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 1220 clear, no odor

Final Purge: pump off @ 1335 clear, no odor
some sediment

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site — **Event:** 2022 Q2 GWS

Sampling Personnel: AJS — **Well ID:** PRMW-6D
Client / Job Number: NYSEG / 30126123 — **Date:** 5/31/22
Weather: 79°F Sunny — **Time In:** 1000 — **Time Out:** 1210

Well Information

Depth to Water	3.21	(feet TIC)
Total Depth:	36.89	(feet TIC)
Length of Water Column	33.68	(feet)
Volume of Water in Well:	5.5	(gal)
Screen Interval:	24-34	(feet)
Depth to pump Intake:	≈35	(feet TIC)

Well Type	Flushmount	(Stick-Up)
Well Material	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked:	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material:	St. Steel	(Polyethylene)	Teflon	Other
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump

Duration of Pumping	60	(min)		
Average Pumping Rate:	200	(ml/min)	Water-Quality Meter Type:	YSI / Lamotte
Total Volume Removed:	2.4	(gal)	Did well go dry:	Yes (No)

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO	Cond	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	1105	1110	1115	1120	1125	1130	1135	1140	1145	1150			
Volume Purged (gal)	0.1	0.4	0.7	0.9	1.4	1.6	1.8	2.0	2.2	S			
Rate (mL/min)	200	200	200	200	200	200	200	200	200	A			
Depth to Water (ft.)	4.10	4.53	4.89	4.80	4.72	4.63	4.55	4.46	4.40	M			
pH	14.66	12.89	12.51	11.90	11.91	11.40	11.18	11.16	11.10	P			
Temp. (C)	16.3	15.6	15.5	16.7	17.2	17.9	18.3	17.8	17.4	L			
Conductivity (mS/cm)	0.363	0.356	0.355	0.360	0.367	0.371	0.377	0.374	0.371	E			
Dissolved Oxygen (mg/l)	0.98	0.38	0.29	0.25	0.25	0.23	0.23	0.21	0.21				
ORP (mV)	-116.6	-132.9	-137.3	-141.4	-143.4	-146.4	-147.6	-149.1	-149.3				
Turbidity (NTU)	8.32	6.52	11.70	23.89	30.28	26.72	29.25	30.53	31.66				
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	Eurofins Buffalo
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane		
Sample ID: PRMW-6D	Sample Time:	1150
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 1100 clear, sulfurous odor trace sediment

Final Purge: pump off @ 1200 clear, sulfurous odor

GROUNDWATER SAMPLING LOG

Site: NYSEG, Penn Yan Former MGP Site **Event:** 2022 Q2 GWS

Sampling Personnel: AJS **Well ID:** TMW-1D
Client / Job Number: NYSEG/30126623 **Date:** 6/11/22
Weather: 72°F cloudy **Time In:** 0805 **Time Out:** 0940

Well Information

Depth to Water:	4.76	(feet TIC)
Total Depth	63.38	(feet TIC)
Length of Water Column	58.62	(feet)
Volume of Water in Well:	9.6	(gal)
Screen Interval:	53-63	(feet)
Depth to pump Intake:	~60'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material	Stainless Steel	(PVC)
Well Locked:	(Yes)	No
Measuring Point Marked	(Yes)	No
Well Diameter:	(2")	4"

Purging Information

Purging Method	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Tubing/Bailer Material:	St Steel	(Polyethylene)	Teflon	Other:
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other: Bladder Pump
Duration of Pumping:	60 (min)			
Average Pumping Rate:	200 (ml/min)	Water-Quality Meter Type:	YSI / Lamotte	
Total Volume Removed:	2.2 (gal)	Did well go dry.	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	0830	0835	0840	0845	0850	0855	0900	0905	0910	0915			
Volume Purged (gal)	0.1	0.4	0.7	1.0	1.2	1.4	1.6	1.8	2.0	S			
Rate (mL/min)	200	200	200	200	200	200	200	200	200	A			
Depth to Water (ft.)	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	M			
pH	9.09	8.94	8.92	8.91	8.91	8.83	8.85	8.88	8.88	P			
Temp. (C)	14.3	14.4	14.5	14.8	14.6	15.0	15.5	15.7	15.2	L			
Conductivity (mS/cm)	0.381	0.381	0.382	0.384	0.383	0.387	0.393	0.395	0.390	E			
Dissolved Oxygen (mg/l)	3.44	3.35	3.30	3.24	3.02	2.72	1.96	1.90	1.88				
ORP (mV)	-20.2	-23.0	-24.0	-24.4	-26.2	-29.6	-36.8	-39.8	-43.5				
Turbidity (NTU)	0.00	0.00	0.00	0.81	3.12	3.67	3.54	3.62	3.59				
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEX	3	Eurofins Buffalo
PAHs	2	
Total Cyanide	1	
1, 4-Dioxane		
Sample ID: TMW-1D	Sample Time: 0915	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID: ———	Dup. Time: ———	
Chain of Custody Signed By: AJS		

Problems / Observations

Initial Purge: pump on @ 0825
clear, no odor

Final Purge: pump off @ 0925
clear, no odor

Attachment 2

Groundwater Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-198537-1
Client Project/Site: NYSEG Former MGP Site - Penn Yan
Sampling Event: NYSEG - Penn Yan Former MGP
Revision: 1

For:
New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Attn: Mr. John J Ruspantini

Authorized for release by:
7/12/2022 3:31:14 PM

John Schove, Project Manager II
(716)504-9838
John.Schove@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-198537-1

Revision
This report has been revised to report the full list of 16 PAH's.

Comments
No additional comments.

Receipt
The samples were received on 6/1/2022 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 5.8º C, 6.6º C, 6.8º C and 7.6º C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: PRMW-5S (480-198537-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-1S — Lab Sample ID: 480-198537-1

No Detections.

Client Sample ID: PRMW-2S — Lab Sample ID: 480-198537-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.078		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-2D — Lab Sample ID: 480-198537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0051	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-3S — Lab Sample ID: 480-198537-4

No Detections.

Client Sample ID: PRMW-3D — Lab Sample ID: 480-198537-5

No Detections.

Client Sample ID: PRMW-4S — Lab Sample ID: 480-198537-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0056	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-5S — Lab Sample ID: 480-198537-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	5.7		1.0	0.74	ug/L	1		8260C	Total/NA
Toluene	0.95	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	4.1		2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	17	E	0.51	0.037	ug/L	1		8270D LL	Total/NA
Acenaphthylene	3.5		0.31	0.057	ug/L	1		8270D LL	Total/NA
Anthracene	0.32	J	0.51	0.035	ug/L	1		8270D LL	Total/NA
Benzo[a]anthracene	0.055	J	0.31	0.035	ug/L	1		8270D LL	Total/NA
Fluoranthene	1.5		0.51	0.082	ug/L	1		8270D LL	Total/NA
Fluorene	5.6		0.51	0.059	ug/L	1		8270D LL	Total/NA
Naphthalene	27	E	1.0	0.065	ug/L	1		8270D LL	Total/NA
Phenanthrene	3.8		0.20	0.063	ug/L	1		8270D LL	Total/NA
Pyrene	0.85		0.51	0.078	ug/L	1		8270D LL	Total/NA
Acenaphthene - DL	18		2.6	0.18	ug/L	5		8270D LL	Total/NA
Acenaphthylene - DL	3.6		1.5	0.29	ug/L	5		8270D LL	Total/NA
Anthracene - DL	0.42	J	2.6	0.17	ug/L	5		8270D LL	Total/NA
Fluoranthene - DL	1.5	J	2.6	0.41	ug/L	5		8270D LL	Total/NA
Fluorene - DL	6.0		2.6	0.30	ug/L	5		8270D LL	Total/NA
Naphthalene - DL	29		5.1	0.33	ug/L	5		8270D LL	Total/NA
Phenanthrene - DL	3.9		1.0	0.32	ug/L	5		8270D LL	Total/NA
Pyrene - DL	0.91	J	2.6	0.39	ug/L	5		8270D LL	Total/NA
Cyanide, Total	0.047		0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-5D — Lab Sample ID: 480-198537-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.048	J	0.51	0.037	ug/L	1		8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: PRMW-6S — Lab Sample ID: 480-198537-9

No Detections.

Client Sample ID: PRMW-6D — Lab Sample ID: 480-198537-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0060	J	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: TMW-1D — Lab Sample ID: 480-198537-11

No Detections.

Client Sample ID: DUP-053122 — Lab Sample ID: 480-198537-12

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-198537-13

No Detections.

Client Sample ID: FIELD BLANK — Lab Sample ID: 480-198537-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0079	J B	0.010	0.0050	mg/L	1		9012B	Total/NA

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 480-198537-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0099	J B	0.010	0.0050	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-1S

Date Collected: 06/01/22 11:05
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 14:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 14:46	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 14:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/08/22 14:46*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/08/22 14:46*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 14:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 14:46*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 16:33	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 16:33	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[g,h,i]perylene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		06/03/22 08:39	06/06/22 16:33	1
Chrysene	ND		0.49	0.072	ug/L		06/03/22 08:39	06/06/22 16:33	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		06/03/22 08:39	06/06/22 16:33	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 16:33	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:33	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 16:33	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 16:33	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 16:33	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*06/03/22 08:39*	*06/06/22 16:33*	*1*
Nitrobenzene-d5 (Surr)	*75*		*26 - 120*	*06/03/22 08:39*	*06/06/22 16:33*	*1*
p-Terphenyl-d14	*81*		*64 - 127*	*06/03/22 08:39*	*06/06/22 16:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:44	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-2S

Date Collected: 06/01/22 11:40
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 15:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 15:09	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 15:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/08/22 15:09*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 15:09*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 15:09*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 15:09*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.036	ug/L		06/03/22 08:39	06/06/22 17:00	1
Acenaphthylene	ND		0.30	0.057	ug/L		06/03/22 08:39	06/06/22 17:00	1
Anthracene	ND		0.51	0.034	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[b]fluoranthene	ND		0.30	0.064	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[k]fluoranthene	ND		0.30	0.071	ug/L		06/03/22 08:39	06/06/22 17:00	1
Chrysene	ND		0.51	0.075	ug/L		06/03/22 08:39	06/06/22 17:00	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		06/03/22 08:39	06/06/22 17:00	1
Fluoranthene	ND		0.51	0.081	ug/L		06/03/22 08:39	06/06/22 17:00	1
Fluorene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 17:00	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		06/03/22 08:39	06/06/22 17:00	1
Naphthalene	ND		1.0	0.065	ug/L		06/03/22 08:39	06/06/22 17:00	1
Phenanthrene	ND		0.20	0.063	ug/L		06/03/22 08:39	06/06/22 17:00	1
Pyrene	ND		0.51	0.077	ug/L		06/03/22 08:39	06/06/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*37 - 120*	*06/03/22 08:39*	*06/06/22 17:00*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*06/03/22 08:39*	*06/06/22 17:00*	*1*
p-Terphenyl-d14	*88*		*64 - 127*	*06/03/22 08:39*	*06/06/22 17:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.078**		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:49	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-2D

Date Collected: 06/01/22 13:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 15:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 15:33	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 15:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/08/22 15:33*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 15:33*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*06/08/22 15:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/08/22 15:33*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		06/03/22 08:39	06/06/22 17:28	1
Acenaphthylene	ND		0.30	0.056	ug/L		06/03/22 08:39	06/06/22 17:28	1
Anthracene	ND		0.50	0.034	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		06/03/22 08:39	06/06/22 17:28	1
Chrysene	ND		0.50	0.074	ug/L		06/03/22 08:39	06/06/22 17:28	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		06/03/22 08:39	06/06/22 17:28	1
Fluoranthene	ND		0.50	0.080	ug/L		06/03/22 08:39	06/06/22 17:28	1
Fluorene	ND		0.50	0.058	ug/L		06/03/22 08:39	06/06/22 17:28	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		06/03/22 08:39	06/06/22 17:28	1
Naphthalene	ND		1.0	0.064	ug/L		06/03/22 08:39	06/06/22 17:28	1
Phenanthrene	ND		0.20	0.062	ug/L		06/03/22 08:39	06/06/22 17:28	1
Pyrene	ND		0.50	0.076	ug/L		06/03/22 08:39	06/06/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*37 - 120*	*06/03/22 08:39*	*06/06/22 17:28*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*06/03/22 08:39*	*06/06/22 17:28*	*1*
p-Terphenyl-d14	*90*		*64 - 127*	*06/03/22 08:39*	*06/06/22 17:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0051**	**J**	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:51	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-3S

Date Collected: 05/31/22 14:05
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 15:56	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 15:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/08/22 15:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 15:56*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 15:56*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 15:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 16:05	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 16:05	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[a]anthracene	ND	F1	0.29	0.033	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[a]pyrene	ND	F1	0.17	0.13	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[b]fluoranthene	ND	F1	0.29	0.061	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[g,h,i]perylene	ND	F1	0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[k]fluoranthene	ND	F1	0.29	0.068	ug/L		06/03/22 08:39	06/06/22 16:05	1
Chrysene	ND	F1	0.49	0.072	ug/L		06/03/22 08:39	06/06/22 16:05	1
Dibenz(a,h)anthracene	ND	F1	0.49	0.068	ug/L		06/03/22 08:39	06/06/22 16:05	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 16:05	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:05	1
Indeno[1,2,3-cd]pyrene	ND	F1	0.49	0.11	ug/L		06/03/22 08:39	06/06/22 16:05	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 16:05	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 16:05	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*06/03/22 08:39*	*06/06/22 16:05*	*1*
Nitrobenzene-d5 (Surr)	*78*		*26 - 120*	*06/03/22 08:39*	*06/06/22 16:05*	*1*
p-Terphenyl-d14	*94*		*64 - 127*	*06/03/22 08:39*	*06/06/22 16:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	F1 F2	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:45	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-3D

Date Collected: 06/01/22 09:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 16:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 16:19	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 16:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 16:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 16:19*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/08/22 16:19*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/08/22 16:19*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 17:55	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 17:55	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[g,h,i]perylene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		06/03/22 08:39	06/06/22 17:55	1
Chrysene	ND		0.49	0.072	ug/L		06/03/22 08:39	06/06/22 17:55	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		06/03/22 08:39	06/06/22 17:55	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 17:55	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 17:55	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 17:55	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 17:55	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 17:55	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*06/03/22 08:39*	*06/06/22 17:55*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*06/03/22 08:39*	*06/06/22 17:55*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*06/03/22 08:39*	*06/06/22 17:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:55	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-4S

Date Collected: 05/31/22 16:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 16:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 16:42	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 16:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/08/22 16:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/08/22 16:42*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/08/22 16:42*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/08/22 16:42*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		06/03/22 08:39	06/06/22 18:23	1
Acenaphthylene	ND		0.29	0.053	ug/L		06/03/22 08:39	06/06/22 18:23	1
Anthracene	ND		0.48	0.032	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 18:23	1
Chrysene	ND		0.48	0.070	ug/L		06/03/22 08:39	06/06/22 18:23	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 18:23	1
Fluoranthene	ND		0.48	0.076	ug/L		06/03/22 08:39	06/06/22 18:23	1
Fluorene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 18:23	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		06/03/22 08:39	06/06/22 18:23	1
Naphthalene	ND		0.95	0.061	ug/L		06/03/22 08:39	06/06/22 18:23	1
Phenanthrene	ND		0.19	0.059	ug/L		06/03/22 08:39	06/06/22 18:23	1
Pyrene	ND		0.48	0.072	ug/L		06/03/22 08:39	06/06/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*37 - 120*	*06/03/22 08:39*	*06/06/22 18:23*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*06/03/22 08:39*	*06/06/22 18:23*	*1*
p-Terphenyl-d14	*92*		*64 - 127*	*06/03/22 08:39*	*06/06/22 18:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0056**	**J**	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:57	1

Client Sample ID: PRMW-5S
Lab Sample ID: 480-198537-7

Date Collected: 05/31/22 12:30
Matrix: Ground Water
Date Received: 06/01/22 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**16**		1.0	0.41	ug/L			06/08/22 17:05	1
Ethylbenzene	**5.7**		1.0	0.74	ug/L			06/08/22 17:05	1
Toluene	**0.95**	**J**	1.0	0.51	ug/L			06/08/22 17:05	1
Xylenes, Total	**4.1**		2.0	0.66	ug/L			06/08/22 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/08/22 17:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/08/22 17:05*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/08/22 17:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/08/22 17:05*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**17**	**E**	0.51	0.037	ug/L		06/03/22 08:39	06/06/22 18:51	1
Acenaphthylene	**3.5**		0.31	0.057	ug/L		06/03/22 08:39	06/06/22 18:51	1
Anthracene	**0.32**	**J**	0.51	0.035	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[a]anthracene	**0.055**	**J**	0.31	0.035	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		06/03/22 08:39	06/06/22 18:51	1
Chrysene	ND		0.51	0.076	ug/L		06/03/22 08:39	06/06/22 18:51	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		06/03/22 08:39	06/06/22 18:51	1
Fluoranthene	**1.5**		0.51	0.082	ug/L		06/03/22 08:39	06/06/22 18:51	1
Fluorene	**5.6**		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 18:51	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		06/03/22 08:39	06/06/22 18:51	1
Naphthalene	**27**	**E**	1.0	0.065	ug/L		06/03/22 08:39	06/06/22 18:51	1
Phenanthrene	**3.8**		0.20	0.063	ug/L		06/03/22 08:39	06/06/22 18:51	1
Pyrene	**0.85**		0.51	0.078	ug/L		06/03/22 08:39	06/06/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*06/03/22 08:39*	*06/06/22 18:51*	*1*
Nitrobenzene-d5 (Surr)	*77*		*26 - 120*	*06/03/22 08:39*	*06/06/22 18:51*	*1*
p-Terphenyl-d14	*86*		*64 - 127*	*06/03/22 08:39*	*06/06/22 18:51*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**18**		2.6	0.18	ug/L		06/03/22 08:39	06/07/22 12:37	5
Acenaphthylene	**3.6**		1.5	0.29	ug/L		06/03/22 08:39	06/07/22 12:37	5
Anthracene	**0.42**	**J**	2.6	0.17	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[a]anthracene	ND		1.5	0.17	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[a]pyrene	ND		0.92	0.66	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[b]fluoranthene	ND		1.5	0.32	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[g,h,i]perylene	ND		2.6	0.30	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[k]fluoranthene	ND		1.5	0.36	ug/L		06/03/22 08:39	06/07/22 12:37	5
Chrysene	ND		2.6	0.38	ug/L		06/03/22 08:39	06/07/22 12:37	5
Dibenz(a,h)anthracene	ND		2.6	0.36	ug/L		06/03/22 08:39	06/07/22 12:37	5
Fluoranthene	**1.5**	**J**	2.6	0.41	ug/L		06/03/22 08:39	06/07/22 12:37	5
Fluorene	**6.0**		2.6	0.30	ug/L		06/03/22 08:39	06/07/22 12:37	5
Indeno[1,2,3-cd]pyrene	ND		2.6	0.56	ug/L		06/03/22 08:39	06/07/22 12:37	5

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-5S
Date Collected: 05/31/22 12:30
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-7
Matrix: Ground Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	29		5.1	0.33	ug/L		06/03/22 08:39	06/07/22 12:37	5
Phenanthrene	3.9		1.0	0.32	ug/L		06/03/22 08:39	06/07/22 12:37	5
Pyrene	0.91	J	2.6	0.39	ug/L		06/03/22 08:39	06/07/22 12:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*06/03/22 08:39*	*06/07/22 12:37*	*5*
Nitrobenzene-d5 (Surr)	*74*		*26 - 120*	*06/03/22 08:39*	*06/07/22 12:37*	*5*
p-Terphenyl-d14	*88*		*64 - 127*	*06/03/22 08:39*	*06/07/22 12:37*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.047		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:58	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-5D

Date Collected: 05/31/22 11:10
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 17:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 17:28	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 17:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/08/22 17:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 17:28*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/08/22 17:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 17:28*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.048**	**J**	0.51	0.037	ug/L		06/03/22 08:39	06/06/22 19:19	1
Acenaphthylene	ND		0.31	0.057	ug/L		06/03/22 08:39	06/06/22 19:19	1
Anthracene	ND		0.51	0.035	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		06/03/22 08:39	06/06/22 19:19	1
Chrysene	ND		0.51	0.076	ug/L		06/03/22 08:39	06/06/22 19:19	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		06/03/22 08:39	06/06/22 19:19	1
Fluoranthene	ND		0.51	0.082	ug/L		06/03/22 08:39	06/06/22 19:19	1
Fluorene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 19:19	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		06/03/22 08:39	06/06/22 19:19	1
Naphthalene	ND		1.0	0.065	ug/L		06/03/22 08:39	06/06/22 19:19	1
Phenanthrene	ND		0.20	0.063	ug/L		06/03/22 08:39	06/06/22 19:19	1
Pyrene	ND		0.51	0.078	ug/L		06/03/22 08:39	06/06/22 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*37 - 120*	*06/03/22 08:39*	*06/06/22 19:19*	*1*
Nitrobenzene-d5 (Surr)	*84*		*26 - 120*	*06/03/22 08:39*	*06/06/22 19:19*	*1*
p-Terphenyl-d14	*88*		*64 - 127*	*06/03/22 08:39*	*06/06/22 19:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:00	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-6S

Date Collected: 05/31/22 13:25
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-9

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 17:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 17:51	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 17:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/08/22 17:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/08/22 17:51*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/08/22 17:51*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/08/22 17:51*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.035	ug/L		06/03/22 08:39	06/06/22 19:46	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 19:46	1
Anthracene	ND		0.48	0.033	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[g,h,i]perylene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 19:46	1
Chrysene	ND		0.48	0.071	ug/L		06/03/22 08:39	06/06/22 19:46	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 19:46	1
Fluoranthene	ND		0.48	0.077	ug/L		06/03/22 08:39	06/06/22 19:46	1
Fluorene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 19:46	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.11	ug/L		06/03/22 08:39	06/06/22 19:46	1
Naphthalene	ND		0.96	0.062	ug/L		06/03/22 08:39	06/06/22 19:46	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 19:46	1
Pyrene	ND		0.48	0.073	ug/L		06/03/22 08:39	06/06/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*37 - 120*	*06/03/22 08:39*	*06/06/22 19:46*	*1*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*	*06/03/22 08:39*	*06/06/22 19:46*	*1*
p-Terphenyl-d14	*87*		*64 - 127*	*06/03/22 08:39*	*06/06/22 19:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:01	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: PRMW-6D

Date Collected: 05/31/22 11:50
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-10

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 18:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 18:14	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 18:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*06/08/22 18:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 18:14*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*06/08/22 18:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/08/22 18:14*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		06/03/22 08:39	06/06/22 20:14	1
Acenaphthylene	ND		0.29	0.053	ug/L		06/03/22 08:39	06/06/22 20:14	1
Anthracene	ND		0.48	0.032	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 20:14	1
Chrysene	ND		0.48	0.070	ug/L		06/03/22 08:39	06/06/22 20:14	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 20:14	1
Fluoranthene	ND		0.48	0.076	ug/L		06/03/22 08:39	06/06/22 20:14	1
Fluorene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 20:14	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		06/03/22 08:39	06/06/22 20:14	1
Naphthalene	ND		0.95	0.061	ug/L		06/03/22 08:39	06/06/22 20:14	1
Phenanthrene	ND		0.19	0.059	ug/L		06/03/22 08:39	06/06/22 20:14	1
Pyrene	ND		0.48	0.072	ug/L		06/03/22 08:39	06/06/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*37 - 120*	*06/03/22 08:39*	*06/06/22 20:14*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*06/03/22 08:39*	*06/06/22 20:14*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*06/03/22 08:39*	*06/06/22 20:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0060**	**J**	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:02	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: TMW-1D

Date Collected: 06/01/22 09:15
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-11

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 18:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 18:37	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 18:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 18:37*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 18:37*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/08/22 18:37*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 18:37*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.035	ug/L		06/03/22 08:39	06/06/22 20:42	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 20:42	1
Anthracene	ND		0.48	0.033	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[g,h,i]perylene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 20:42	1
Chrysene	ND		0.48	0.071	ug/L		06/03/22 08:39	06/06/22 20:42	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 20:42	1
Fluoranthene	ND		0.48	0.077	ug/L		06/03/22 08:39	06/06/22 20:42	1
Fluorene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 20:42	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.11	ug/L		06/03/22 08:39	06/06/22 20:42	1
Naphthalene	ND		0.96	0.062	ug/L		06/03/22 08:39	06/06/22 20:42	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 20:42	1
Pyrene	ND		0.48	0.073	ug/L		06/03/22 08:39	06/06/22 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*37 - 120*	*06/03/22 08:39*	*06/06/22 20:42*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*06/03/22 08:39*	*06/06/22 20:42*	*1*
p-Terphenyl-d14	*82*		*64 - 127*	*06/03/22 08:39*	*06/06/22 20:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:04	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: DUP-053122

Date Collected: 05/31/22 00:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-12

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 19:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 19:00	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 19:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 19:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 19:00*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 19:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 19:00*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 21:10	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 21:10	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[g,h,i]perylene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		06/03/22 08:39	06/06/22 21:10	1
Chrysene	ND		0.49	0.072	ug/L		06/03/22 08:39	06/06/22 21:10	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		06/03/22 08:39	06/06/22 21:10	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 21:10	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 21:10	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 21:10	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 21:10	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 21:10	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*37 - 120*	*06/03/22 08:39*	*06/06/22 21:10*	*1*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*	*06/03/22 08:39*	*06/06/22 21:10*	*1*
p-Terphenyl-d14	*78*		*64 - 127*	*06/03/22 08:39*	*06/06/22 21:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:05	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: TRIP BLANK
Date Collected: 05/31/22 00:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-13
Matrix: WQ

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/04/22 01:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/22 01:57	1
Toluene	ND		1.0	0.51	ug/L			06/04/22 01:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/22 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*06/04/22 01:57*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*06/04/22 01:57*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/04/22 01:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/04/22 01:57*	*1*

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: FIELD BLANK

Date Collected: 06/01/22 12:50
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-14

Matrix: WQ

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 19:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 19:23	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 19:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 19:23*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 19:23*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*06/08/22 19:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 19:23*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 21:38	1
Acenaphthylene	ND		0.29	0.055	ug/L		06/03/22 08:39	06/06/22 21:38	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[b]fluoranthene	ND		0.29	0.062	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[k]fluoranthene	ND		0.29	0.069	ug/L		06/03/22 08:39	06/06/22 21:38	1
Chrysene	ND		0.49	0.073	ug/L		06/03/22 08:39	06/06/22 21:38	1
Dibenz(a,h)anthracene	ND		0.49	0.069	ug/L		06/03/22 08:39	06/06/22 21:38	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 21:38	1
Fluorene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 21:38	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 21:38	1
Naphthalene	ND		0.98	0.063	ug/L		06/03/22 08:39	06/06/22 21:38	1
Phenanthrene	ND		0.20	0.061	ug/L		06/03/22 08:39	06/06/22 21:38	1
Pyrene	ND		0.49	0.075	ug/L		06/03/22 08:39	06/06/22 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*06/03/22 08:39*	*06/06/22 21:38*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*06/03/22 08:39*	*06/06/22 21:38*	*1*
p-Terphenyl-d14	*84*		*64 - 127*	*06/03/22 08:39*	*06/06/22 21:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0079**	**J B**	0.010	0.0050	mg/L		06/14/22 13:20	06/14/22 15:35	1

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-198537-15

Date Collected: 06/01/22 13:00
Matrix: WQ
Date Received: 06/01/22 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 19:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 19:46	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 19:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*06/08/22 19:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/08/22 19:46*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/08/22 19:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 19:46*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 22:06	1
Acenaphthylene	ND		0.29	0.055	ug/L		06/03/22 08:39	06/06/22 22:06	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[b]fluoranthene	ND		0.29	0.062	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[k]fluoranthene	ND		0.29	0.069	ug/L		06/03/22 08:39	06/06/22 22:06	1
Chrysene	ND		0.49	0.073	ug/L		06/03/22 08:39	06/06/22 22:06	1
Dibenz(a,h)anthracene	ND		0.49	0.069	ug/L		06/03/22 08:39	06/06/22 22:06	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 22:06	1
Fluorene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 22:06	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 22:06	1
Naphthalene	ND		0.98	0.063	ug/L		06/03/22 08:39	06/06/22 22:06	1
Phenanthrene	ND		0.20	0.061	ug/L		06/03/22 08:39	06/06/22 22:06	1
Pyrene	ND		0.49	0.075	ug/L		06/03/22 08:39	06/06/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*37 - 120*	*06/03/22 08:39*	*06/06/22 22:06*	*1*
Nitrobenzene-d5 (Surr)	*74*		*26 - 120*	*06/03/22 08:39*	*06/06/22 22:06*	*1*
p-Terphenyl-d14	*82*		*64 - 127*	*06/03/22 08:39*	*06/06/22 22:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0099**	**J B**	0.010	0.0050	mg/L		06/14/22 13:20	06/14/22 15:36	1

Surrogate Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

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

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-198537-1	PRMW-1S	100	103	100	98
480-198537-2	PRMW-2S	104	98	100	95
480-198537-3	PRMW-2D	96	98	94	97
480-198537-4	PRMW-3S	101	100	100	95
480-198537-4 MS	PRMW-3S	101	98	99	95
480-198537-4 MSD	PRMW-3S	100	96	101	97
480-198537-5	PRMW-3D	99	100	99	94
480-198537-6	PRMW-4S	100	101	102	96
480-198537-7	PRMW-5S	103	102	99	97
480-198537-8	PRMW-5D	96	100	97	98
480-198537-9	PRMW-6S	101	99	101	100
480-198537-10	PRMW-6D	95	98	95	99
480-198537-11	TMW-1D	99	98	101	95
480-198537-12	DUP-053122	99	98	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
LCS 480-628696/6	Lab Control Sample	99	109	99	103
LCS 480-629187/5	Lab Control Sample	105	107	104	107
MB 480-628696/8	Method Blank	110	104	106	97
MB 480-629187/7	Method Blank	98	99	95	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-198537-13	TRIP BLANK	108	106	100	100
480-198537-14	FIELD BLANK	99	100	96	95
480-198537-15	EQUIPMENT BLANK	94	97	97	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

TOL = Toluene-d8 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
480-198537-1	PRMW-1S	91	75	81
480-198537-2	PRMW-2S	96	82	88
480-198537-3	PRMW-2D	94	80	90
480-198537-4	PRMW-3S	91	78	94
480-198537-4 MS	PRMW-3S	92	81	65
480-198537-4 MSD	PRMW-3S	98	86	72
480-198537-5	PRMW-3D	95	80	93
480-198537-6	PRMW-4S	98	80	92
480-198537-7	PRMW-5S	91	77	86
480-198537-7 - DL	PRMW-5S	95	74	88
480-198537-8	PRMW-5D	98	84	88
480-198537-9	PRMW-6S	99	88	87
480-198537-10	PRMW-6D	98	82	99
480-198537-11	TMW-1D	97	82	82
480-198537-12	DUP-053122	100	88	78

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
LCS 480-628616/2-A	Lab Control Sample	92	83	94
MB 480-628616/1-A	Method Blank	91	83	97

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: WQ

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(37-120)	(26-120)	(64-127)
480-198537-14	FIELD BLANK	95	85	84
480-198537-15	EQUIPMENT BLANK	86	74	82

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14

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

Lab Sample ID: MB 480-628696/8
Matrix: Water
Analysis Batch: 628696

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/03/22 17:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/03/22 17:11	1
Toluene	ND		1.0	0.51	ug/L			06/03/22 17:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/03/22 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*06/03/22 17:11*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/03/22 17:11*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*06/03/22 17:11*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/03/22 17:11*	*1*

Lab Sample ID: LCS 480-628696/6
Matrix: Water
Analysis Batch: 628696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	22.0		ug/L		88	71 - 124
Ethylbenzene	25.0	22.6		ug/L		90	77 - 123
Toluene	25.0	22.7		ug/L		91	80 - 122
Xylenes, Total	50.0	46.2		ug/L		92	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 480-629187/7
Matrix: Water
Analysis Batch: 629187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 14:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 14:08	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 14:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*06/08/22 14:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/08/22 14:08*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*06/08/22 14:08*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/08/22 14:08*	*1*

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

Lab Sample ID: LCS 480-629187/5
Matrix: Water
Analysis Batch: 629187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			25.0	25.6		ug/L		102	71 - 124		
Ethylbenzene			25.0	26.0		ug/L		104	77 - 123		
Toluene			25.0	25.5		ug/L		102	80 - 122		
Xylenes, Total			50.0	51.7		ug/L		103	76 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: 480-198537-4 MS
Matrix: Ground Water
Analysis Batch: 629187

Client Sample ID: PRMW-3S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		25.0	29.5		ug/L		118	71 - 124		
Ethylbenzene	ND		25.0	28.0		ug/L		112	77 - 123		
Toluene	ND		25.0	27.9		ug/L		112	80 - 122		
Xylenes, Total	ND		50.0	57.3		ug/L		115	76 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 480-198537-4 MSD
Matrix: Ground Water
Analysis Batch: 629187

Client Sample ID: PRMW-3S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		25.0	28.5		ug/L		114	71 - 124	4	13
Ethylbenzene	ND		25.0	28.2		ug/L		113	77 - 123	1	15
Toluene	ND		25.0	27.5		ug/L		110	80 - 122	1	15
Xylenes, Total	ND		50.0	56.8		ug/L		114	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-628616/1-A
Matrix: Water
Analysis Batch: 628843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		06/03/22 08:39	06/06/22 14:14	1
Acenaphthylene	ND		0.30	0.056	ug/L		06/03/22 08:39	06/06/22 14:14	1
Anthracene	ND		0.50	0.034	ug/L		06/03/22 08:39	06/06/22 14:14	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		06/03/22 08:39	06/06/22 14:14	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 14:14	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		06/03/22 08:39	06/06/22 14:14	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		06/03/22 08:39	06/06/22 14:14	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		06/03/22 08:39	06/06/22 14:14	1
Chrysene	ND		0.50	0.074	ug/L		06/03/22 08:39	06/06/22 14:14	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		06/03/22 08:39	06/06/22 14:14	1
Fluoranthene	ND		0.50	0.080	ug/L		06/03/22 08:39	06/06/22 14:14	1
Fluorene	ND		0.50	0.058	ug/L		06/03/22 08:39	06/06/22 14:14	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		06/03/22 08:39	06/06/22 14:14	1
Naphthalene	ND		1.0	0.064	ug/L		06/03/22 08:39	06/06/22 14:14	1
Phenanthrene	ND		0.20	0.062	ug/L		06/03/22 08:39	06/06/22 14:14	1
Pyrene	ND		0.50	0.076	ug/L		06/03/22 08:39	06/06/22 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*06/03/22 08:39*	*06/06/22 14:14*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*06/03/22 08:39*	*06/06/22 14:14*	*1*
p-Terphenyl-d14	*97*		*64 - 127*	*06/03/22 08:39*	*06/06/22 14:14*	*1*

Lab Sample ID: LCS 480-628616/2-A
Matrix: Water
Analysis Batch: 628843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	8.00	7.51		ug/L		94	62 - 120
Acenaphthylene	8.00	7.21		ug/L		90	57 - 120
Anthracene	8.00	7.87		ug/L		98	65 - 123
Benzo[a]anthracene	8.00	7.63		ug/L		95	77 - 123
Benzo[a]pyrene	8.00	6.81		ug/L		85	72 - 120
Benzo[b]fluoranthene	8.00	7.56		ug/L		94	73 - 123
Benzo[g,h,i]perylene	8.00	7.68		ug/L		96	48 - 150
Benzo[k]fluoranthene	8.00	7.16		ug/L		89	68 - 120
Chrysene	8.00	7.46		ug/L		93	75 - 120
Dibenz(a,h)anthracene	8.00	7.27		ug/L		91	54 - 147
Fluoranthene	8.00	8.32		ug/L		104	74 - 133
Fluorene	8.00	7.82		ug/L		98	64 - 120
Indeno[1,2,3-cd]pyrene	8.00	7.29		ug/L		91	55 - 150
Naphthalene	8.00	7.15		ug/L		89	40 - 138
Phenanthrene	8.00	7.77		ug/L		97	71 - 122
Pyrene	8.00	7.75		ug/L		97	65 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*37 - 120*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*
p-Terphenyl-d14	*94*		*64 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: 480-198537-4 MS
Matrix: Ground Water
Analysis Batch: 628843

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 628616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		8.00	7.51		ug/L		94	35 - 125
Acenaphthylene	ND		8.00	7.14		ug/L		89	43 - 141
Anthracene	ND		8.00	7.47		ug/L		93	65 - 123
Benzo[a]anthracene	ND	F1	8.00	3.13	F1	ug/L		39	68 - 132
Benzo[a]pyrene	ND	F1	8.00	2.68	F1	ug/L		33	60 - 137
Benzo[b]fluoranthene	ND	F1	8.00	2.94	F1	ug/L		37	68 - 129
Benzo[g,h,i]perylene	ND	F1	8.00	3.22	F1	ug/L		40	48 - 150
Benzo[k]fluoranthene	ND	F1	8.00	3.01	F1	ug/L		38	55 - 142
Chrysene	ND	F1	8.00	3.16	F1	ug/L		39	66 - 144
Dibenz(a,h)anthracene	ND	F1	8.00	3.17	F1	ug/L		40	54 - 138
Fluoranthene	ND		8.00	6.28		ug/L		78	63 - 146
Fluorene	ND		8.00	7.87		ug/L		98	54 - 137
Indeno[1,2,3-cd]pyrene	ND	F1	8.00	3.10	F1	ug/L		39	55 - 140
Naphthalene	ND		8.00	6.90		ug/L		86	25 - 138
Phenanthrene	ND		8.00	7.59		ug/L		95	60 - 143
Pyrene	ND		8.00	5.65		ug/L		71	65 - 139

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*37 - 120*
Nitrobenzene-d5 (Surr)	*81*		*26 - 120*
p-Terphenyl-d14	*65*		*64 - 127*

Lab Sample ID: 480-198537-4 MSD
Matrix: Ground Water
Analysis Batch: 628843

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 628616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		7.92	7.88		ug/L		100	35 - 125	5	24
Acenaphthylene	ND		7.92	7.72		ug/L		97	43 - 141	8	18
Anthracene	ND		7.92	7.64		ug/L		96	65 - 123	2	15
Benzo[a]anthracene	ND	F1	7.92	3.35	F1	ug/L		42	68 - 132	7	15
Benzo[a]pyrene	ND	F1	7.92	2.82	F1	ug/L		36	60 - 137	5	15
Benzo[b]fluoranthene	ND	F1	7.92	3.07	F1	ug/L		39	68 - 129	4	15
Benzo[g,h,i]perylene	ND	F1	7.92	3.32	F1	ug/L		42	48 - 150	3	15
Benzo[k]fluoranthene	ND	F1	7.92	3.08	F1	ug/L		39	55 - 142	2	22
Chrysene	ND	F1	7.92	3.34	F1	ug/L		42	66 - 144	6	15
Dibenz(a,h)anthracene	ND	F1	7.92	3.29	F1	ug/L		41	54 - 138	4	15
Fluoranthene	ND		7.92	6.75		ug/L		85	63 - 146	7	15
Fluorene	ND		7.92	8.22		ug/L		104	54 - 137	4	15
Indeno[1,2,3-cd]pyrene	ND	F1	7.92	3.20	F1	ug/L		40	55 - 140	3	15
Naphthalene	ND		7.92	7.27		ug/L		92	25 - 138	5	29
Phenanthrene	ND		7.92	7.83		ug/L		99	60 - 143	3	15
Pyrene	ND		7.92	6.20		ug/L		78	65 - 139	9	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*37 - 120*
Nitrobenzene-d5 (Surr)	*86*		*26 - 120*
p-Terphenyl-d14	*72*		*64 - 127*

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-629987/1-A
Matrix: Water
Analysis Batch: 629997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:38	1

Lab Sample ID: LCS 480-629987/2-A
Matrix: Water
Analysis Batch: 629997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.401		mg/L		100	90 - 110

Lab Sample ID: LCS 480-629987/3-A
Matrix: Water
Analysis Batch: 629997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.265		mg/L		106	90 - 110

Lab Sample ID: 480-198537-4 MS
Matrix: Ground Water
Analysis Batch: 629997

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 629987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	F1 F2	0.00500	0.0104	F1	mg/L		208	90 - 110

Lab Sample ID: 480-198537-4 MSD
Matrix: Ground Water
Analysis Batch: 629997

Client Sample ID: PRMW-3S
Prep Type: Total/NA
Prep Batch: 629987

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND	F1 F2	0.00500	0.00889	J F1 F2	mg/L		178	90 - 110	16	15

Lab Sample ID: MB 480-629993/1-A
Matrix: Water
Analysis Batch: 630022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00737	J	0.010	0.0050	mg/L		06/14/22 13:20	06/14/22 15:06	1

Lab Sample ID: LCS 480-629993/2-A
Matrix: Water
Analysis Batch: 630022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110

Lab Sample ID: LCSD 480-629993/3-A
Matrix: Water
Analysis Batch: 630022

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110	0	15

QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

GC/MS VOA

Analysis Batch: 628696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-13	TRIP BLANK	Total/NA	WQ	8260C	
MB 480-628696/8	Method Blank	Total/NA	Water	8260C	
LCS 480-628696/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 629187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-1	PRMW-1S	Total/NA	Ground Water	8260C	
480-198537-2	PRMW-2S	Total/NA	Ground Water	8260C	
480-198537-3	PRMW-2D	Total/NA	Ground Water	8260C	
480-198537-4	PRMW-3S	Total/NA	Ground Water	8260C	
480-198537-5	PRMW-3D	Total/NA	Ground Water	8260C	
480-198537-6	PRMW-4S	Total/NA	Ground Water	8260C	
480-198537-7	PRMW-5S	Total/NA	Ground Water	8260C	
480-198537-8	PRMW-5D	Total/NA	Ground Water	8260C	
480-198537-9	PRMW-6S	Total/NA	Ground Water	8260C	
480-198537-10	PRMW-6D	Total/NA	Ground Water	8260C	
480-198537-11	TMW-1D	Total/NA	Ground Water	8260C	
480-198537-12	DUP-053122	Total/NA	Ground Water	8260C	
480-198537-14	FIELD BLANK	Total/NA	WQ	8260C	
480-198537-15	EQUIPMENT BLANK	Total/NA	WQ	8260C	
MB 480-629187/7	Method Blank	Total/NA	Water	8260C	
LCS 480-629187/5	Lab Control Sample	Total/NA	Water	8260C	
480-198537-4 MS	PRMW-3S	Total/NA	Ground Water	8260C	
480-198537-4 MSD	PRMW-3S	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 628616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-1	PRMW-1S	Total/NA	Ground Water	3510C	
480-198537-2	PRMW-2S	Total/NA	Ground Water	3510C	
480-198537-3	PRMW-2D	Total/NA	Ground Water	3510C	
480-198537-4	PRMW-3S	Total/NA	Ground Water	3510C	
480-198537-5	PRMW-3D	Total/NA	Ground Water	3510C	
480-198537-6	PRMW-4S	Total/NA	Ground Water	3510C	
480-198537-7	PRMW-5S	Total/NA	Ground Water	3510C	
480-198537-7 - DL	PRMW-5S	Total/NA	Ground Water	3510C	
480-198537-8	PRMW-5D	Total/NA	Ground Water	3510C	
480-198537-9	PRMW-6S	Total/NA	Ground Water	3510C	
480-198537-10	PRMW-6D	Total/NA	Ground Water	3510C	
480-198537-11	TMW-1D	Total/NA	Ground Water	3510C	
480-198537-12	DUP-053122	Total/NA	Ground Water	3510C	
480-198537-14	FIELD BLANK	Total/NA	WQ	3510C	
480-198537-15	EQUIPMENT BLANK	Total/NA	WQ	3510C	
MB 480-628616/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-628616/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-198537-4 MS	PRMW-3S	Total/NA	Ground Water	3510C	
480-198537-4 MSD	PRMW-3S	Total/NA	Ground Water	3510C	

QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG Former MGP Site - Penn Yan

Job ID: 480-198537-1

GC/MS Semi VOA

Analysis Batch: 628843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-1	PRMW-1S	Total/NA	Ground Water	8270D LL	628616
480-198537-2	PRMW-2S	Total/NA	Ground Water	8270D LL	628616
480-198537-3	PRMW-2D	Total/NA	Ground Water	8270D LL	628616
480-198537-4	PRMW-3S	Total/NA	Ground Water	8270D LL	628616
480-198537-5	PRMW-3D	Total/NA	Ground Water	8270D LL	628616
480-198537-6	PRMW-4S	Total/NA	Ground Water	8270D LL	628616
480-198537-7	PRMW-5S	Total/NA	Ground Water	8270D LL	628616
480-198537-8	PRMW-5D	Total/NA	Ground Water	8270D LL	628616
480-198537-9	PRMW-6S	Total/NA	Ground Water	8270D LL	628616
480-198537-10	PRMW-6D	Total/NA	Ground Water	8270D LL	628616
480-198537-11	TMW-1D	Total/NA	Ground Water	8270D LL	628616
480-198537-12	DUP-053122	Total/NA	Ground Water	8270D LL	628616
480-198537-14	FIELD BLANK	Total/NA	WQ	8270D LL	628616
480-198537-15	EQUIPMENT BLANK	Total/NA	WQ	8270D LL	628616
MB 480-628616/1-A	Method Blank	Total/NA	Water	8270D LL	628616
LCS 480-628616/2-A	Lab Control Sample	Total/NA	Water	8270D LL	628616
480-198537-4 MS	PRMW-3S	Total/NA	Ground Water	8270D LL	628616
480-198537-4 MSD	PRMW-3S	Total/NA	Ground Water	8270D LL	628616

Analysis Batch: 628999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-7 - DL	PRMW-5S	Total/NA	Ground Water	8270D LL	628616

General Chemistry

Prep Batch: 629987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-1	PRMW-1S	Total/NA	Ground Water	9012B	
480-198537-2	PRMW-2S	Total/NA	Ground Water	9012B	
480-198537-3	PRMW-2D	Total/NA	Ground Water	9012B	
480-198537-4	PRMW-3S	Total/NA	Ground Water	9012B	
480-198537-5	PRMW-3D	Total/NA	Ground Water	9012B	
480-198537-6	PRMW-4S	Total/NA	Ground Water	9012B	
480-198537-7	PRMW-5S	Total/NA	Ground Water	9012B	
480-198537-8	PRMW-5D	Total/NA	Ground Water	9012B	
480-198537-9	PRMW-6S	Total/NA	Ground Water	9012B	
480-198537-10	PRMW-6D	Total/NA	Ground Water	9012B	
480-198537-11	TMW-1D	Total/NA	Ground Water	9012B	
480-198537-12	DUP-053122	Total/NA	Ground Water	9012B	
MB 480-629987/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-629987/2-A	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-629987/3-A	Lab Control Sample	Total/NA	Water	9012B	
480-198537-4 MS	PRMW-3S	Total/NA	Ground Water	9012B	
480-198537-4 MSD	PRMW-3S	Total/NA	Ground Water	9012B	

Prep Batch: 629993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-14	FIELD BLANK	Total/NA	WQ	9012B	
480-198537-15	EQUIPMENT BLANK	Total/NA	WQ	9012B	
MB 480-629993/1-A	Method Blank	Total/NA	Water	9012B	
LCS 480-629993/2-A	Lab Control Sample	Total/NA	Water	9012B	

General Chemistry (Continued)

Prep Batch: 629993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-629993/3-A	Lab Control Sample Dup	Total/NA	Water	9012B	

Analysis Batch: 629997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-1	PRMW-1S	Total/NA	Ground Water	9012B	629987
480-198537-2	PRMW-2S	Total/NA	Ground Water	9012B	629987
480-198537-3	PRMW-2D	Total/NA	Ground Water	9012B	629987
480-198537-4	PRMW-3S	Total/NA	Ground Water	9012B	629987
480-198537-5	PRMW-3D	Total/NA	Ground Water	9012B	629987
480-198537-6	PRMW-4S	Total/NA	Ground Water	9012B	629987
480-198537-7	PRMW-5S	Total/NA	Ground Water	9012B	629987
480-198537-8	PRMW-5D	Total/NA	Ground Water	9012B	629987
480-198537-9	PRMW-6S	Total/NA	Ground Water	9012B	629987
480-198537-10	PRMW-6D	Total/NA	Ground Water	9012B	629987
480-198537-11	TMW-1D	Total/NA	Ground Water	9012B	629987
480-198537-12	DUP-053122	Total/NA	Ground Water	9012B	629987
MB 480-629987/1-A	Method Blank	Total/NA	Water	9012B	629987
LCS 480-629987/2-A	Lab Control Sample	Total/NA	Water	9012B	629987
LCS 480-629987/3-A	Lab Control Sample	Total/NA	Water	9012B	629987
480-198537-4 MS	PRMW-3S	Total/NA	Ground Water	9012B	629987
480-198537-4 MSD	PRMW-3S	Total/NA	Ground Water	9012B	629987

Analysis Batch: 630022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198537-14	FIELD BLANK	Total/NA	WQ	9012B	629993
480-198537-15	EQUIPMENT BLANK	Total/NA	WQ	9012B	629993
MB 480-629993/1-A	Method Blank	Total/NA	Water	9012B	629993
LCS 480-629993/2-A	Lab Control Sample	Total/NA	Water	9012B	629993
LCSD 480-629993/3-A	Lab Control Sample Dup	Total/NA	Water	9012B	629993

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: PRMW-1S
Lab Sample ID: 480-198537-1
Date Collected: 06/01/22 11:05
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 14:46	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 16:33	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 13:44	CLT	TAL BUF

Client Sample ID: PRMW-2S
Lab Sample ID: 480-198537-2
Date Collected: 06/01/22 11:40
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 15:09	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 17:00	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 13:49	CLT	TAL BUF

Client Sample ID: PRMW-2D
Lab Sample ID: 480-198537-3
Date Collected: 06/01/22 13:00
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 15:33	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 17:28	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 13:51	CLT	TAL BUF

Client Sample ID: PRMW-3S
Lab Sample ID: 480-198537-4
Date Collected: 05/31/22 14:05
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 15:56	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 16:05	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 13:45	CLT	TAL BUF

Client Sample ID: PRMW-3D
Lab Sample ID: 480-198537-5
Date Collected: 06/01/22 09:00
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 16:19	CR	TAL BUF

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: PRMW-3D
Lab Sample ID: 480-198537-5
Date Collected: 06/01/22 09:00
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 17:55	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 13:55	CLT	TAL BUF

Client Sample ID: PRMW-4S
Lab Sample ID: 480-198537-6
Date Collected: 05/31/22 16:00
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 16:42	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 18:23	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 13:57	CLT	TAL BUF

Client Sample ID: PRMW-5S
Lab Sample ID: 480-198537-7
Date Collected: 05/31/22 12:30
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 17:05	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 18:51	JMM	TAL BUF
Total/NA	Prep	3510C	DL		628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL	DL	5	628999	06/07/22 12:37	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 13:58	CLT	TAL BUF

Client Sample ID: PRMW-5D
Lab Sample ID: 480-198537-8
Date Collected: 05/31/22 11:10
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 17:28	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 19:19	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 14:00	CLT	TAL BUF

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: PRMW-6S
Lab Sample ID: 480-198537-9
Date Collected: 05/31/22 13:25
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 17:51	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 19:46	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 14:01	CLT	TAL BUF

Client Sample ID: PRMW-6D
Lab Sample ID: 480-198537-10
Date Collected: 05/31/22 11:50
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 18:14	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 20:14	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 14:02	CLT	TAL BUF

Client Sample ID: TMW-1D
Lab Sample ID: 480-198537-11
Date Collected: 06/01/22 09:15
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 18:37	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 20:42	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 14:04	CLT	TAL BUF

Client Sample ID: DUP-053122
Lab Sample ID: 480-198537-12
Date Collected: 05/31/22 00:00
Matrix: Ground Water
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 19:00	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 21:10	JMM	TAL BUF
Total/NA	Prep	9012B			629987	06/14/22 11:45	EJL	TAL BUF
Total/NA	Analysis	9012B		1	629997	06/14/22 14:05	CLT	TAL BUF

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-198537-13
Date Collected: 05/31/22 00:00
Matrix: WQ
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	628696	06/04/22 01:57	CRL	TAL BUF

Lab Chronicle

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-198537-14
Date Collected: 06/01/22 12:50
Matrix: WQ
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 19:23	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 21:38	JMM	TAL BUF
Total/NA	Prep	9012B			629993	06/14/22 13:20	EJL	TAL BUF
Total/NA	Analysis	9012B		1	630022	06/14/22 15:35	CLT	TAL BUF

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-198537-15
Date Collected: 06/01/22 13:00
Matrix: WQ
Date Received: 06/01/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	629187	06/08/22 19:46	CR	TAL BUF
Total/NA	Prep	3510C			628616	06/03/22 08:39	JMP	TAL BUF
Total/NA	Analysis	8270D LL		1	628843	06/06/22 22:06	JMM	TAL BUF
Total/NA	Prep	9012B			629993	06/14/22 13:20	EJL	TAL BUF
Total/NA	Analysis	9012B		1	630022	06/14/22 15:36	CLT	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	06-21-22

Method Summary

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
9012B	Cyanide, Total andor Amenable	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State Electric & Gas
Job ID: 480-198537-1
Project/Site: NYSEG Former MGP Site - Penn Yan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198537-1	PRMW-1S	Ground Water	06/01/22 11:05	06/01/22 17:00
480-198537-2	PRMW-2S	Ground Water	06/01/22 11:40	06/01/22 17:00
480-198537-3	PRMW-2D	Ground Water	06/01/22 13:00	06/01/22 17:00
480-198537-4	PRMW-3S	Ground Water	05/31/22 14:05	06/01/22 17:00
480-198537-5	PRMW-3D	Ground Water	06/01/22 09:00	06/01/22 17:00
480-198537-6	PRMW-4S	Ground Water	05/31/22 16:00	06/01/22 17:00
480-198537-7	PRMW-5S	Ground Water	05/31/22 12:30	06/01/22 17:00
480-198537-8	PRMW-5D	Ground Water	05/31/22 11:10	06/01/22 17:00
480-198537-9	PRMW-6S	Ground Water	05/31/22 13:25	06/01/22 17:00
480-198537-10	PRMW-6D	Ground Water	05/31/22 11:50	06/01/22 17:00
480-198537-11	TMW-1D	Ground Water	06/01/22 09:15	06/01/22 17:00
480-198537-12	DUP-053122	Ground Water	05/31/22 00:00	06/01/22 17:00
480-198537-13	TRIP BLANK	WQ	05/31/22 00:00	06/01/22 17:00
480-198537-14	FIELD BLANK	WQ	06/01/22 12:50	06/01/22 17:00
480-198537-15	EQUIPMENT BLANK	WQ	06/01/22 13:00	06/01/22 17:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: A. Svensson, K. Fleming	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-173433-36782.1
Client Contact: Mr. Tracy Blazicek	Phone: 716-909-9063	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: New York State Electric & Gas	PWSID:			Job #:

Address: PO BOX 5224	Due Date Requested:
City: Binghamton	TAT Requested (days):
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No
Phone: 585-484-6839(Tel)	PO #: 4505616925
Email: tlblazicek@nyseg.com	WO #:
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595
Site: New York	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5

480-198537 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total												Total	Special Instructions/Note:
			Preservation Code:				A	N	B													
PRMW-1S	6/1/22	1105	G	Water			X	X	X												6	
PRMW-2S	6/1/22	1140	G	Water			X	X	X												6	
PRMW-2D	6/1/22	1300	G	Water			X	X	X												6	
PRMW-3S	5/31/22	1405	G	Water		Y	X	X	X												6	18
PRMW-3D	6/1/22	0900	G	Water			X	X	X												6	
PRMW-4S	5/31/22	1600	G	Water			X	X	X												6	
PRMW-5S	5/31/22	1230	G	Water			X	X	X												6	
PRMW-5D	5/31/22	1110	G	Water			X	X	X												6	
PRMW-6S	5/31/22	1325	G	Water			X	X	X												6	
PRMW-6D	5/31/22	1150	G	Water			X	X	X												6	
TMW-1D	6/1/22	0915	G	Water			X	X	X												6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Adam Svensson	6/1/22 1700		Samuel Manocchio	5:00 PM 6/1/22	Eurofins
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 6.6 5.8 7.6 6.8 #1ECF

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-173433-36782.2
Client Contact: Mr. Tracy Blazicek	Phone:	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: PO BOX 5224	Due Date Requested:			
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone: 585-484-6839(Tel)	PO #: 4505616925			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	B		
~~TMW-2D~~				Water							
DUP-053122	5/31/22	—	G	Water			X	X	X	6	
				Water							
				Water							
TRIP BLANK	5/17/22	—	G	Water			X			2	
TRIP BLANK	5/17/22	—	G	Water			X			2	
FIELD BLANK	6/1/22	1250	G	Water			X	X	X	6	
EQUIPMENT BLANK	6/1/22	1300	G	Water			X	X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Adam Svensson	6/1/22 1700		Samuel Mannochio	5:00PM 6/1/22	eurofins
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-198537-1

Login Number: 198537
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Attachment 3

Data Usability Summary Reports

NYSEG Penn Yan
Former MGP Site

Data Usability Summary Report

Penn Yan, New York

Volatile Organic Compound (VOC), Semi-volatile Organic Compound (SVOC), and Cyanide Analyses

SDG # 480-198537-1

Analyses Performed By:
Eurofins Buffalo
Amherst, New York

Report # 45943R
Review Level: Tier III
Project: 30126623.2

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-198537-1 for samples collected in association with the NYSEG Penn Yan Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					VOC	SVOC	CYANIDE
PRMW-1S	480-198537-1	Water	06/01/22		X	X	X
PRMW-2S	480-198537-2	Water	06/01/22		X	X	X
PRMW-2D	480-198537-3	Water	06/01/22		X	X	X
PRMW-3S	480-198537-4	Water	05/31/22		X	X	X
PRMW-3D	480-198537-5	Water	06/01/22		X	X	X
PRMW-4S	480-198537-6	Water	05/31/22		X	X	X
PRMW-5S	480-198537-7	Water	05/31/22		X	X	X
PRMW-5D	480-198537-8	Water	05/31/22		X	X	X
PRMW-6S	480-198537-9	Water	05/31/22		X	X	X
PRMW-6D	480-198537-10	Water	05/31/22		X	X	X
TMW-1D	480-198537-11	Water	06/01/22		X	X	X
DUP-053122	480-198537-12	Water	05/31/22	PRMW-3S	X	X	X
TRIP BLANK	480-198537-13	Water	05/31/22		X		
FIELD BLANK	480-198537-14	Water	06/01/22		X	X	X
EQUIPMENT BLANK	480-198537-15	Water	06/01/22		X	X	X

Notes:

VOC = Volatile Organic Compounds

SVOC = Semi-volatile Organic Compounds

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound is considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u. with hydrochloric acid.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
PRMW-3S / DUP-053122	All target compounds	U	U	AC

Note:
U = Non detect
AC = Acceptable

The calculated differences between the parent and field duplicate sample were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration %Ds		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:
%RSD = Relative standard deviation
%R = Percent recovery
RPD = Relative percent difference
%D = Percent difference

Semi-volatile Organic Compound (SVOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
SW-846 8270D	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis performed on sample PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs with the exceptions noted in the table below.

Sample ID	Compound	MS Recovery	MSD Recovery
PRMW-3S	Benzo[a]anthracene	< LL but > 10%	< LL but > 10%
	Benzo[a]pyrene	< LL but > 10%	< LL but > 10%
	Benzo[b]fluoranthene	< LL but > 10%	< LL but > 10%
	Benzo[g,h,i]perylene	< LL but > 10%	< LL but > 10%
	Benzo[k]fluoranthene	< LL but > 10%	< LL but > 10%
	Chrysene	< LL but > 10%	< LL but > 10%
	Dibenz(a,h)anthracene	< LL but > 10%	< LL but > 10%

Sample ID	Compound	MS Recovery	MSD Recovery
	Indeno[1,2,3-cd]pyrene	< LL but > 10%	< LL but > 10%

Note:
LL = Lower control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below. Qualification of sample results were also applied to sample DUP-053122 which is the duplicate sample of PRMS-3S.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
PRMW-3S / DUP-053122	All target compounds	U	U	AC

Note:
U = Non detect
AC = Acceptable

The calculated differences between the parent and field duplicate sample were acceptable.

10. Compound Identification

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compounds	Original Analysis	Diluted Analysis	Reported Analysis
PRMW-5S	Acenaphthene	17 E	18	18 D
	Naphthalene	27 E	29	29 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for SVOCs

SVOCs: SW-846 8270D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Initial calibration %Ds		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

SVOCs: SW-846 8270D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency USEPA Method 9012B. Data were reviewed in accordance with USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540-R-04-004, October 2004), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Cyanide by SW-846 9012B	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of greater than 12 with NaOH.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Cyanide associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following samples were qualified as listed in the following table.

Sample ID	Analyte	Sample Result	Qualification
PRMW-2D	Cyanide (EB)	Detected sample results <RL and <BAL	“UB” at the RL

Note:
EB = equipment blank
RL = reporting limit

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument’s continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All initial and continuing calibration verification standard recoveries were within the control limit.

4. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed on sample PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs with the exceptions noted in the table below. Qualification of sample results were also applied to sample DUP-053122 which is the duplicate sample of PRMS-3S.

Sample ID	Analyte	MS Recovery	MSD Recovery
PRMW-3S	Cyanide	> UL	> UL

Note:
UL = upper control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 30%	Non-detect	UJ
	Detect	J
< 30%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

Laboratory duplicate analysis was not performed on samples from this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD
PRMW-3S / DUP-053122	Cyanide	U	U	AC

Note:
U = Non detect
AC = Acceptable

The calculated differences between the parent and field duplicate sample were acceptable.

6. Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS/LCSD analysis exhibited recoveries and RPD within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SW-846 9012B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X	X		
C. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
Transcription/calculations acceptable		X		X	
Raw Data		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

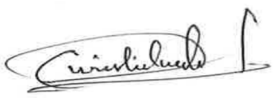
SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]			Noncompliance
					VOC	SVOC	CYANIDE	
480-198537-1	06/01/22	SW846	PRMW-1S	Water	Yes	Yes	Yes	--
	06/01/22	SW846	PRMW-2S	Water	Yes	Yes	No	Cyanide – MS/MSD %R
	06/01/22	SW846	PRMW-2D	Water	Yes	Yes	No	Cyanide – Blank contamination
	05/31/22	SW846	PRMW-3S	Water	Yes	No	Yes	SVOC – MS/MSD %R
	06/01/22	SW846	PRMW-3D	Water	Yes	Yes	Yes	--
	05/31/22	SW846	PRMW-4S	Water	Yes	Yes	No	Cyanide – MS/MSD %R
	05/31/22	SW846	PRMW-5S	Water	Yes	Yes	No	Cyanide – MS/MSD %R
	05/31/22	SW846	PRMW-5D	Water	Yes	Yes	Yes	--
	05/31/22	SW846	PRMW-6S	Water	Yes	Yes	Yes	--
	05/31/22	SW846	PRMW-6D	Water	Yes	Yes	No	Cyanide – MS/MSD %R
	06/01/22	SW846	TMW-1D	Water	Yes	Yes	Yes	--
	05/31/22	SW846	DUP-053122	Water	Yes	No	Yes	SVOC – MS/MSD %R
	05/31/22	SW846	TRIP BLANK	Water	Yes	--	--	--
	06/01/22	SW846	FIELD BLANK	Water	Yes	Yes	Yes	--
	06/01/22	SW846	EQUIPMENT BLANK	Water	Yes	Yes	Yes	--

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant, or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE: 

DATE: July 13, 2022

PEER REVIEW: Joe Houser

DATE: July 13, 2022

Chain of Custody Corrected Sample Analysis Data Sheets

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: A. Svensson, K. Fleming	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-173433-36782.1
Client Contact: Mr. Tracy Blazicek	Phone: 716-909-9063	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: New York State Electric & Gas	PWSID:	Analysis Requested		Job #:
Address: PO BOX 5224	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4.5
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone: 585-484-6839(Tel)	PO #: 4505616925			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: New York	SSOW#:			

480-198537 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total												Total	Special Instructions/Note:
Preservation Code:							A	N	B													
PRMW-1S	6/1/22	1105	G	Water			X	X	X												6	
PRMW-2S	6/1/22	1140	G	Water			X	X	X												6	
PRMW-2D	6/1/22	1300	G	Water			X	X	X												6	
PRMW-3S	5/31/22	1405	G	Water		Y	X	X	X												6	18
PRMW-3D	6/1/22	0900	G	Water			X	X	X												6	
PRMW-4S	5/31/22	1600	G	Water			X	X	X												6	
PRMW-5S	5/31/22	1230	G	Water			X	X	X												6	
PRMW-5D	5/31/22	1110	G	Water			X	X	X												6	
PRMW-6S	5/31/22	1325	G	Water			X	X	X												6	
PRMW-6D	5/31/22	1150	G	Water			X	X	X												6	
TMW-1D	6/1/22	0915	G	Water			X	X	X												6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Adam Svensson	6/1/22 1700		Samuel Manocchio	500 PM 6/1/22	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 6.6 5.8 +6.6 6.8 #1 ECF

Ver: 06/08/2021

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07/12/2022

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-173433-36782.2
Client Contact: Mr. Tracy Blazicek	Phone:	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: New York State Electric & Gas	PWSID:			Job #:
Address: PO BOX 5224	Due Date Requested:			
City: Binghamton	TAT Requested (days):			
State, Zip: NY, 13902	Compliance Project: Δ Yes Δ No			
Phone: 585-484-6839(Tel)	PO #: 4505616925			
Email: tlblazicek@nyseg.com	WO #:			
Project Name: NYSEG Former MGP Site - Penn Yan	Project #: 48024595			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	B		
~~TMW-2D~~				Water							
DUP-053122	5/31/22	—	G	Water			X	X	X	6	
				Water							
				Water							
TRIP BLANK	5/17/22	—	G	Water			X			2	
TRIP BLANK	5/17/22	—	G	Water			X			2	
FIELD BLANK	6/1/22	1250	G	Water			X	X	X	6	
EQUIPMENT BLANK	6/1/22	1300	G	Water			X	X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Adam Svensson	6/1/22 1700		Samuel Manocchio	5:00PM 6/1/22	eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

07/12/2022

Client Sample ID: PRMW-1S
Date Collected: 06/01/22 11:05
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 14:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 14:46	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 14:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/08/22 14:46*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/08/22 14:46*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 14:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 14:46*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 16:33	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 16:33	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[g,h,i]perylene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:33	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		06/03/22 08:39	06/06/22 16:33	1
Chrysene	ND		0.49	0.072	ug/L		06/03/22 08:39	06/06/22 16:33	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		06/03/22 08:39	06/06/22 16:33	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 16:33	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:33	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 16:33	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 16:33	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 16:33	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*06/03/22 08:39*	*06/06/22 16:33*	*1*
Nitrobenzene-d5 (Surr)	*75*		*26 - 120*	*06/03/22 08:39*	*06/06/22 16:33*	*1*
p-Terphenyl-d14	*81*		*64 - 127*	*06/03/22 08:39*	*06/06/22 16:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:44	1

Client Sample ID: PRMW-2S
Date Collected: 06/01/22 11:40
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 15:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 15:09	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 15:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/08/22 15:09*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 15:09*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 15:09*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 15:09*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.036	ug/L		06/03/22 08:39	06/06/22 17:00	1
Acenaphthylene	ND		0.30	0.057	ug/L		06/03/22 08:39	06/06/22 17:00	1
Anthracene	ND		0.51	0.034	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[b]fluoranthene	ND		0.30	0.064	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 17:00	1
Benzo[k]fluoranthene	ND		0.30	0.071	ug/L		06/03/22 08:39	06/06/22 17:00	1
Chrysene	ND		0.51	0.075	ug/L		06/03/22 08:39	06/06/22 17:00	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		06/03/22 08:39	06/06/22 17:00	1
Fluoranthene	ND		0.51	0.081	ug/L		06/03/22 08:39	06/06/22 17:00	1
Fluorene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 17:00	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		06/03/22 08:39	06/06/22 17:00	1
Naphthalene	ND		1.0	0.065	ug/L		06/03/22 08:39	06/06/22 17:00	1
Phenanthrene	ND		0.20	0.063	ug/L		06/03/22 08:39	06/06/22 17:00	1
Pyrene	ND		0.51	0.077	ug/L		06/03/22 08:39	06/06/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*37 - 120*	*06/03/22 08:39*	*06/06/22 17:00*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*06/03/22 08:39*	*06/06/22 17:00*	*1*
p-Terphenyl-d14	*88*		*64 - 127*	*06/03/22 08:39*	*06/06/22 17:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.078**	J	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:49	1

Client Sample ID: PRMW-2D
Date Collected: 06/01/22 13:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 15:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 15:33	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 15:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/08/22 15:33*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 15:33*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*06/08/22 15:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/08/22 15:33*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		06/03/22 08:39	06/06/22 17:28	1
Acenaphthylene	ND		0.30	0.056	ug/L		06/03/22 08:39	06/06/22 17:28	1
Anthracene	ND		0.50	0.034	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		06/03/22 08:39	06/06/22 17:28	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		06/03/22 08:39	06/06/22 17:28	1
Chrysene	ND		0.50	0.074	ug/L		06/03/22 08:39	06/06/22 17:28	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		06/03/22 08:39	06/06/22 17:28	1
Fluoranthene	ND		0.50	0.080	ug/L		06/03/22 08:39	06/06/22 17:28	1
Fluorene	ND		0.50	0.058	ug/L		06/03/22 08:39	06/06/22 17:28	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		06/03/22 08:39	06/06/22 17:28	1
Naphthalene	ND		1.0	0.064	ug/L		06/03/22 08:39	06/06/22 17:28	1
Phenanthrene	ND		0.20	0.062	ug/L		06/03/22 08:39	06/06/22 17:28	1
Pyrene	ND		0.50	0.076	ug/L		06/03/22 08:39	06/06/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*37 - 120*	*06/03/22 08:39*	*06/06/22 17:28*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*06/03/22 08:39*	*06/06/22 17:28*	*1*
p-Terphenyl-d14	*90*		*64 - 127*	*06/03/22 08:39*	*06/06/22 17:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010 UB	~~0.0051 J~~	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:51	1

Client Sample ID: PRMW-3S
Date Collected: 05/31/22 14:05
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 15:56	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 15:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/08/22 15:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 15:56*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 15:56*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 15:56*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 16:05	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 16:05	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[a]anthracene	ND	F1 UJ	0.29	0.033	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[a]pyrene	ND	F1 UJ	0.17	0.13	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[b]fluoranthene	ND	F1 UJ	0.29	0.061	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[g,h,i]perylene	ND	F1 UJ	0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:05	1
Benzo[k]fluoranthene	ND	F1 UJ	0.29	0.068	ug/L		06/03/22 08:39	06/06/22 16:05	1
Chrysene	ND	F1 UJ	0.49	0.072	ug/L		06/03/22 08:39	06/06/22 16:05	1
Dibenz(a,h)anthracene	ND	F1 UJ	0.49	0.068	ug/L		06/03/22 08:39	06/06/22 16:05	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 16:05	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 16:05	1
Indeno[1,2,3-cd]pyrene	ND	F1 UJ	0.49	0.11	ug/L		06/03/22 08:39	06/06/22 16:05	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 16:05	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 16:05	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*06/03/22 08:39*	*06/06/22 16:05*	*1*
Nitrobenzene-d5 (Surr)	*78*		*26 - 120*	*06/03/22 08:39*	*06/06/22 16:05*	*1*
p-Terphenyl-d14	*94*		*64 - 127*	*06/03/22 08:39*	*06/06/22 16:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	~~F1 F2~~	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:45	1

Client Sample ID: PRMW-3D
Date Collected: 06/01/22 09:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 16:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 16:19	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 16:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 16:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 16:19*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/08/22 16:19*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/08/22 16:19*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 17:55	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 17:55	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[g,h,i]perylene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 17:55	1
Benzo[k]fluoranthene	ND		0.29	0.068	ug/L		06/03/22 08:39	06/06/22 17:55	1
Chrysene	ND		0.49	0.072	ug/L		06/03/22 08:39	06/06/22 17:55	1
Dibenz(a,h)anthracene	ND		0.49	0.068	ug/L		06/03/22 08:39	06/06/22 17:55	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 17:55	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 17:55	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 17:55	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 17:55	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 17:55	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*06/03/22 08:39*	*06/06/22 17:55*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*06/03/22 08:39*	*06/06/22 17:55*	*1*
p-Terphenyl-d14	*93*		*64 - 127*	*06/03/22 08:39*	*06/06/22 17:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:55	1

Client Sample ID: PRMW-4S
Date Collected: 05/31/22 16:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 16:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 16:42	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 16:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*06/08/22 16:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*06/08/22 16:42*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/08/22 16:42*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/08/22 16:42*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		06/03/22 08:39	06/06/22 18:23	1
Acenaphthylene	ND		0.29	0.053	ug/L		06/03/22 08:39	06/06/22 18:23	1
Anthracene	ND		0.48	0.032	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 18:23	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 18:23	1
Chrysene	ND		0.48	0.070	ug/L		06/03/22 08:39	06/06/22 18:23	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 18:23	1
Fluoranthene	ND		0.48	0.076	ug/L		06/03/22 08:39	06/06/22 18:23	1
Fluorene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 18:23	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		06/03/22 08:39	06/06/22 18:23	1
Naphthalene	ND		0.95	0.061	ug/L		06/03/22 08:39	06/06/22 18:23	1
Phenanthrene	ND		0.19	0.059	ug/L		06/03/22 08:39	06/06/22 18:23	1
Pyrene	ND		0.48	0.072	ug/L		06/03/22 08:39	06/06/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*37 - 120*	*06/03/22 08:39*	*06/06/22 18:23*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*06/03/22 08:39*	*06/06/22 18:23*	*1*
p-Terphenyl-d14	*92*		*64 - 127*	*06/03/22 08:39*	*06/06/22 18:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0056**	**J**	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:57	1

Client Sample ID: PRMW-5S
Date Collected: 05/31/22 12:30
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**16**		1.0	0.41	ug/L			06/08/22 17:05	1
Ethylbenzene	**5.7**		1.0	0.74	ug/L			06/08/22 17:05	1
Toluene	**0.95**	**J**	1.0	0.51	ug/L			06/08/22 17:05	1
Xylenes, Total	**4.1**		2.0	0.66	ug/L			06/08/22 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/08/22 17:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/08/22 17:05*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/08/22 17:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/08/22 17:05*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	18 D ~~17~~	**E**	2.6	0.18 ~~0.037~~	ug/L		06/03/22 08:39	06/06/22 18:51	5 ~~1~~
Acenaphthylene	**3.5**		0.31	0.057	ug/L		06/03/22 08:39	06/06/22 18:51	1
Anthracene	**0.32**	**J**	0.51	0.035	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[a]anthracene	**0.055**	**J**	0.31	0.035	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 18:51	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		06/03/22 08:39	06/06/22 18:51	1
Chrysene	ND		0.51	0.076	ug/L		06/03/22 08:39	06/06/22 18:51	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		06/03/22 08:39	06/06/22 18:51	1
Fluoranthene	**1.5**		0.51	0.082	ug/L		06/03/22 08:39	06/06/22 18:51	1
Fluorene	**5.6**		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 18:51	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		06/03/22 08:39	06/06/22 18:51	1
Naphthalene	29 D ~~27~~	**E**	5.1 ~~1.0~~	0.33 ~~0.065~~	ug/L		06/03/22 08:39	06/06/22 18:51	5 ~~1~~
Phenanthrene	**3.8**		0.20	0.063	ug/L		06/03/22 08:39	06/06/22 18:51	1
Pyrene	**0.85**		0.51	0.078	ug/L		06/03/22 08:39	06/06/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*37 - 120*	*06/03/22 08:39*	*06/06/22 18:51*	*1*
Nitrobenzene-d5 (Surr)	*77*		*26 - 120*	*06/03/22 08:39*	*06/06/22 18:51*	*1*
p-Terphenyl-d14	*86*		*64 - 127*	*06/03/22 08:39*	*06/06/22 18:51*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**18**		2.6	0.18	ug/L		06/03/22 08:39	06/07/22 12:37	5
Acenaphthylene	**3.6**		1.5	0.29	ug/L		06/03/22 08:39	06/07/22 12:37	5
Anthracene	**0.42**	**J**	2.6	0.17	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[a]anthracene	ND		1.5	0.17	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[a]pyrene	ND		0.92	0.66	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[b]fluoranthene	ND		1.5	0.32	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[g,h,i]perylene	ND		2.6	0.30	ug/L		06/03/22 08:39	06/07/22 12:37	5
Benzo[k]fluoranthene	ND		1.5	0.36	ug/L		06/03/22 08:39	06/07/22 12:37	5
Chrysene	ND		2.6	0.38	ug/L		06/03/22 08:39	06/07/22 12:37	5
Dibenz(a,h)anthracene	ND		2.6	0.36	ug/L		06/03/22 08:39	06/07/22 12:37	5
Fluoranthene	**1.5**	**J**	2.6	0.41	ug/L		06/03/22 08:39	06/07/22 12:37	5
Fluorene	**6.0**		2.6	0.30	ug/L		06/03/22 08:39	06/07/22 12:37	5
Indeno[1,2,3-cd]pyrene	ND		2.6	0.56	ug/L		06/03/22 08:39	06/07/22 12:37	5

Client Sample ID: PRMW-5S
Date Collected: 05/31/22 12:30
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-7
Matrix: Ground Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	29		5.1	0.33	ug/L		06/03/22 08:39	06/07/22 12:37	5
Phenanthrene	3.9		1.0	0.32	ug/L		06/03/22 08:39	06/07/22 12:37	5
Pyrene	0.91	J	2.6	0.39	ug/L		06/03/22 08:39	06/07/22 12:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*06/03/22 08:39*	*06/07/22 12:37*	*5*
Nitrobenzene-d5 (Surr)	*74*		*26 - 120*	*06/03/22 08:39*	*06/07/22 12:37*	*5*
p-Terphenyl-d14	*88*		*64 - 127*	*06/03/22 08:39*	*06/07/22 12:37*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.047	J	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 13:58	1

Client Sample ID: PRMW-5D
Date Collected: 05/31/22 11:10
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 17:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 17:28	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 17:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*06/08/22 17:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 17:28*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/08/22 17:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 17:28*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.048**	**J**	0.51	0.037	ug/L		06/03/22 08:39	06/06/22 19:19	1
Acenaphthylene	ND		0.31	0.057	ug/L		06/03/22 08:39	06/06/22 19:19	1
Anthracene	ND		0.51	0.035	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[b]fluoranthene	ND		0.31	0.064	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 19:19	1
Benzo[k]fluoranthene	ND		0.31	0.071	ug/L		06/03/22 08:39	06/06/22 19:19	1
Chrysene	ND		0.51	0.076	ug/L		06/03/22 08:39	06/06/22 19:19	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		06/03/22 08:39	06/06/22 19:19	1
Fluoranthene	ND		0.51	0.082	ug/L		06/03/22 08:39	06/06/22 19:19	1
Fluorene	ND		0.51	0.059	ug/L		06/03/22 08:39	06/06/22 19:19	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		06/03/22 08:39	06/06/22 19:19	1
Naphthalene	ND		1.0	0.065	ug/L		06/03/22 08:39	06/06/22 19:19	1
Phenanthrene	ND		0.20	0.063	ug/L		06/03/22 08:39	06/06/22 19:19	1
Pyrene	ND		0.51	0.078	ug/L		06/03/22 08:39	06/06/22 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*37 - 120*	*06/03/22 08:39*	*06/06/22 19:19*	*1*
Nitrobenzene-d5 (Surr)	*84*		*26 - 120*	*06/03/22 08:39*	*06/06/22 19:19*	*1*
p-Terphenyl-d14	*88*		*64 - 127*	*06/03/22 08:39*	*06/06/22 19:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:00	1

Client Sample ID: PRMW-6S
Date Collected: 05/31/22 13:25
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-9
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 17:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 17:51	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 17:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/08/22 17:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/08/22 17:51*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/08/22 17:51*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/08/22 17:51*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.035	ug/L		06/03/22 08:39	06/06/22 19:46	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 19:46	1
Anthracene	ND		0.48	0.033	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[g,h,i]perylene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 19:46	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 19:46	1
Chrysene	ND		0.48	0.071	ug/L		06/03/22 08:39	06/06/22 19:46	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 19:46	1
Fluoranthene	ND		0.48	0.077	ug/L		06/03/22 08:39	06/06/22 19:46	1
Fluorene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 19:46	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.11	ug/L		06/03/22 08:39	06/06/22 19:46	1
Naphthalene	ND		0.96	0.062	ug/L		06/03/22 08:39	06/06/22 19:46	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 19:46	1
Pyrene	ND		0.48	0.073	ug/L		06/03/22 08:39	06/06/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*37 - 120*	*06/03/22 08:39*	*06/06/22 19:46*	*1*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*	*06/03/22 08:39*	*06/06/22 19:46*	*1*
p-Terphenyl-d14	*87*		*64 - 127*	*06/03/22 08:39*	*06/06/22 19:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:01	1

Client Sample ID: PRMW-6D
Date Collected: 05/31/22 11:50
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-10
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 18:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 18:14	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 18:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*06/08/22 18:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 18:14*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*06/08/22 18:14*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/08/22 18:14*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.034	ug/L		06/03/22 08:39	06/06/22 20:14	1
Acenaphthylene	ND		0.29	0.053	ug/L		06/03/22 08:39	06/06/22 20:14	1
Anthracene	ND		0.48	0.032	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 20:14	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 20:14	1
Chrysene	ND		0.48	0.070	ug/L		06/03/22 08:39	06/06/22 20:14	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 20:14	1
Fluoranthene	ND		0.48	0.076	ug/L		06/03/22 08:39	06/06/22 20:14	1
Fluorene	ND		0.48	0.055	ug/L		06/03/22 08:39	06/06/22 20:14	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		06/03/22 08:39	06/06/22 20:14	1
Naphthalene	ND		0.95	0.061	ug/L		06/03/22 08:39	06/06/22 20:14	1
Phenanthrene	ND		0.19	0.059	ug/L		06/03/22 08:39	06/06/22 20:14	1
Pyrene	ND		0.48	0.072	ug/L		06/03/22 08:39	06/06/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*37 - 120*	*06/03/22 08:39*	*06/06/22 20:14*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*06/03/22 08:39*	*06/06/22 20:14*	*1*
p-Terphenyl-d14	*99*		*64 - 127*	*06/03/22 08:39*	*06/06/22 20:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0060**	**J**	0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:02	1

Client Sample ID: TMW-1D
Date Collected: 06/01/22 09:15
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-11
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 18:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 18:37	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 18:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 18:37*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 18:37*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/08/22 18:37*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 18:37*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.48	0.035	ug/L		06/03/22 08:39	06/06/22 20:42	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 20:42	1
Anthracene	ND		0.48	0.033	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[a]pyrene	ND		0.17	0.13	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[b]fluoranthene	ND		0.29	0.061	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[g,h,i]perylene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 20:42	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		06/03/22 08:39	06/06/22 20:42	1
Chrysene	ND		0.48	0.071	ug/L		06/03/22 08:39	06/06/22 20:42	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		06/03/22 08:39	06/06/22 20:42	1
Fluoranthene	ND		0.48	0.077	ug/L		06/03/22 08:39	06/06/22 20:42	1
Fluorene	ND		0.48	0.056	ug/L		06/03/22 08:39	06/06/22 20:42	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.11	ug/L		06/03/22 08:39	06/06/22 20:42	1
Naphthalene	ND		0.96	0.062	ug/L		06/03/22 08:39	06/06/22 20:42	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 20:42	1
Pyrene	ND		0.48	0.073	ug/L		06/03/22 08:39	06/06/22 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*37 - 120*	*06/03/22 08:39*	*06/06/22 20:42*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*06/03/22 08:39*	*06/06/22 20:42*	*1*
p-Terphenyl-d14	*82*		*64 - 127*	*06/03/22 08:39*	*06/06/22 20:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:04	1

Client Sample ID: DUP-053122
Date Collected: 05/31/22 00:00
Date Received: 06/01/22 17:00

Lab Sample ID: 480-198537-12
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 19:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 19:00	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 19:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 19:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/08/22 19:00*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/08/22 19:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 19:00*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 21:10	1
Acenaphthylene	ND		0.29	0.054	ug/L		06/03/22 08:39	06/06/22 21:10	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[a]anthracene	ND	UJ	0.29	0.033	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[a]pyrene	ND	UJ	0.17	0.13	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[b]fluoranthene	ND	UJ	0.29	0.061	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[g,h,i]perylene	ND	UJ	0.49	0.056	ug/L		06/03/22 08:39	06/06/22 21:10	1
Benzo[k]fluoranthene	ND	UJ	0.29	0.068	ug/L		06/03/22 08:39	06/06/22 21:10	1
Chrysene	ND	UJ	0.49	0.072	ug/L		06/03/22 08:39	06/06/22 21:10	1
Dibenz(a,h)anthracene	ND	UJ	0.49	0.068	ug/L		06/03/22 08:39	06/06/22 21:10	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 21:10	1
Fluorene	ND		0.49	0.056	ug/L		06/03/22 08:39	06/06/22 21:10	1
Indeno[1,2,3-cd]pyrene	ND	UJ	0.49	0.11	ug/L		06/03/22 08:39	06/06/22 21:10	1
Naphthalene	ND		0.97	0.062	ug/L		06/03/22 08:39	06/06/22 21:10	1
Phenanthrene	ND		0.19	0.060	ug/L		06/03/22 08:39	06/06/22 21:10	1
Pyrene	ND		0.49	0.074	ug/L		06/03/22 08:39	06/06/22 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*37 - 120*	*06/03/22 08:39*	*06/06/22 21:10*	*1*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*	*06/03/22 08:39*	*06/06/22 21:10*	*1*
p-Terphenyl-d14	*78*		*64 - 127*	*06/03/22 08:39*	*06/06/22 21:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		06/14/22 11:45	06/14/22 14:05	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-198537-13

Date Collected: 05/31/22 00:00
Matrix: WQ

Date Received: 06/01/22 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/04/22 01:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/22 01:57	1
Toluene	ND		1.0	0.51	ug/L			06/04/22 01:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/22 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*06/04/22 01:57*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*06/04/22 01:57*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/04/22 01:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/04/22 01:57*	*1*

Client Sample ID: FIELD BLANK
Lab Sample ID: 480-198537-14

Date Collected: 06/01/22 12:50
Matrix: WQ
Date Received: 06/01/22 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 19:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 19:23	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 19:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*06/08/22 19:23*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/22 19:23*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*06/08/22 19:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/08/22 19:23*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 21:38	1
Acenaphthylene	ND		0.29	0.055	ug/L		06/03/22 08:39	06/06/22 21:38	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[b]fluoranthene	ND		0.29	0.062	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 21:38	1
Benzo[k]fluoranthene	ND		0.29	0.069	ug/L		06/03/22 08:39	06/06/22 21:38	1
Chrysene	ND		0.49	0.073	ug/L		06/03/22 08:39	06/06/22 21:38	1
Dibenz(a,h)anthracene	ND		0.49	0.069	ug/L		06/03/22 08:39	06/06/22 21:38	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 21:38	1
Fluorene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 21:38	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 21:38	1
Naphthalene	ND		0.98	0.063	ug/L		06/03/22 08:39	06/06/22 21:38	1
Phenanthrene	ND		0.20	0.061	ug/L		06/03/22 08:39	06/06/22 21:38	1
Pyrene	ND		0.49	0.075	ug/L		06/03/22 08:39	06/06/22 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*37 - 120*	*06/03/22 08:39*	*06/06/22 21:38*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*06/03/22 08:39*	*06/06/22 21:38*	*1*
p-Terphenyl-d14	*84*		*64 - 127*	*06/03/22 08:39*	*06/06/22 21:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0079**	**J B**	0.010	0.0050	mg/L		06/14/22 13:20	06/14/22 15:35	1

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: 480-198537-15

Date Collected: 06/01/22 13:00
Matrix: WQ
Date Received: 06/01/22 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/22 19:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/22 19:46	1
Toluene	ND		1.0	0.51	ug/L			06/08/22 19:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*06/08/22 19:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*06/08/22 19:46*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*06/08/22 19:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/22 19:46*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.49	0.035	ug/L		06/03/22 08:39	06/06/22 22:06	1
Acenaphthylene	ND		0.29	0.055	ug/L		06/03/22 08:39	06/06/22 22:06	1
Anthracene	ND		0.49	0.033	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[a]anthracene	ND		0.29	0.033	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[b]fluoranthene	ND		0.29	0.062	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[g,h,i]perylene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 22:06	1
Benzo[k]fluoranthene	ND		0.29	0.069	ug/L		06/03/22 08:39	06/06/22 22:06	1
Chrysene	ND		0.49	0.073	ug/L		06/03/22 08:39	06/06/22 22:06	1
Dibenz(a,h)anthracene	ND		0.49	0.069	ug/L		06/03/22 08:39	06/06/22 22:06	1
Fluoranthene	ND		0.49	0.078	ug/L		06/03/22 08:39	06/06/22 22:06	1
Fluorene	ND		0.49	0.057	ug/L		06/03/22 08:39	06/06/22 22:06	1
Indeno[1,2,3-cd]pyrene	ND		0.49	0.11	ug/L		06/03/22 08:39	06/06/22 22:06	1
Naphthalene	ND		0.98	0.063	ug/L		06/03/22 08:39	06/06/22 22:06	1
Phenanthrene	ND		0.20	0.061	ug/L		06/03/22 08:39	06/06/22 22:06	1
Pyrene	ND		0.49	0.075	ug/L		06/03/22 08:39	06/06/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*37 - 120*	*06/03/22 08:39*	*06/06/22 22:06*	*1*
Nitrobenzene-d5 (Surr)	*74*		*26 - 120*	*06/03/22 08:39*	*06/06/22 22:06*	*1*
p-Terphenyl-d14	*82*		*64 - 127*	*06/03/22 08:39*	*06/06/22 22:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.0099**	**J B**	0.010	0.0050	mg/L		06/14/22 13:20	06/14/22 15:36	1