

2024 Periodic Review Report

Penn Yan Former Manufactured Gas Plant Site
NYSDEC Site Number: 8620094

November 2024

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Acronyms and Abbreviations

µg/L	micrograms per liter
BTEX	benzene, toluene, ethyl benzene, and xylenes
CLSM	controlled low-strength material
MGP	manufactured gas plant
mg/kg	milligram per kilogram
mg/L	milligrams per liter
NAPL	non-aqueous phase liquid
NYSDEC	New York State Department of Environmental Conservation
NYSEG	New York State Electric & Gas
O&M	operation and maintenance
PAH	polycyclic aromatic hydrocarbon
PRR	Periodic Review Report
reporting period	December 2023 through November 2024
site	Penn Yan former manufactured gas plant site
SMP	Site Management Plan
USEPA	United States Environmental Protection Agency

1 Introduction

This Periodic Review Report (PRR) summarizes monitoring results obtained and operation and maintenance (O&M) activities conducted for the New York State Department of Environmental Conservation- (NYSDEC-) selected remedy for the New York State Electric & Gas (NYSEG) Penn Yan former manufactured gas plant (MGP) site (site). The former MGP site is located in the Village of Penn Yan, Yates County, New York (Figure 1). The site is approximately 0.889 acres in size and is occupied by a vacant masonry building. The remaining land is comprised of an engineered grass-covered area, an asphalt driveway and gravel parking area, and a section of riparian land along the Keuka Lake Outlet. The site is zoned as a Waterfront Development and Conservation District, which permits commercial and residential uses (AECOM 2023). A site layout is provided as Figure 2.

This PRR covers the period from December 2023 through November 2024 (reporting period) and includes data collected during 2024 semi-annual visits (i.e., February and August 2024). Additionally, this PRR provides documentation of monitoring well decommissioning activities and site surface modifications completed during the reporting period.

Certification that site controls were in place and effective and that no changes have occurred at the site during this reporting period that would impair the ability of the controls to protect public health, and the environment is also included herein.

1.1 Background

Relevant site background information is presented in the following subsections.

1.1.1 Remedial Construction

The NYSDEC-selected soil, sediment, and groundwater remedial components are presented in the Record of Decision (NYSDEC 2012). NYSEG completed the soil and sediment remedial activities at the site between July 2015 and May 2020, with a pause in work between July 2017 through August 2018 to address changed conditions with design modifications necessary to achieve the remedial objectives in the Record of Decision.

The soil remedy consisted of the following:

- Excavation and offsite disposal of exposed surface soil exceeding NYSDEC Title 6 New York Codes, Rules, and Regulations Part 375-6.8 (b) restricted residential use soil cleanup objectives to a depth sufficient to allow placing a 2-foot soil cover;
- Excavation and offsite disposal of subsurface soil (greater than 2 feet below ground surface) that exceeds 500 milligrams per kilogram (mg/kg) of total semi-volatile organic compounds, 10 mg/kg of total volatile organic compounds, or is visually impacted with non-aqueous phase liquid (NAPL) (including hardened tar) and/or NAPL sheens; and
- Removing former MGP structures, debris, piping, and major obstructions in the subsurface to the extent practicable.

The soil remedy included removing soil from beneath the former MGP building. However, in areas where the building's foundation was shallower than anticipated, MGP impacts remain on or below the existing foundation between grade beams and controlled low-strength material (CLSM) installed during the remedy.

The sediment remedy consisted of excavation and offsite disposal of sediment from the Keuka Lake Outlet that contained a visible NAPL sheen or that produced a visible sheen when agitated. Additionally, sediment that contained total polycyclic aromatic hydrocarbon (PAH) compounds at concentrations greater than the site-specific background concentration of 43 mg/kg total PAHs was removed to a maximum depth of 2 feet below sediment surface.

1.1.2 Site Management Plan Revisions

The NYSDEC approved the following changes to the groundwater monitoring and sampling plan described in the Site Management Plan (SMP) (AECOM 2023) that were recommended in the Second Quarter 2023 Groundwater Monitoring Report (Arcadis 2023b):

- Discontinue groundwater sampling and decommission monitoring wells TMW-1D, TMW-2D, and TMW-2DR (decommissioned in July 2024);

and recommended in the First Quarter 2024 Groundwater Monitoring Report (Arcadis 2024):

- Reduce the groundwater monitoring frequency from quarterly to semi-annually with the monitoring events to occur in February and August; and
- Discontinue quarterly reporting with the submission of the First Quarterly 2024 Groundwater Monitoring Report and continue with Annual Reporting (PRR).

2 Site Management Plan Compliance

This section identifies the key SMP (AECOM 2023) requirements for the site and identifies the activities completed during the reporting period to meet these requirements.

2.1 Site Management Plan Requirements

The SMP (AECOM 2023) details the controls to be implemented at the site, as well as the site inspection, monitoring, maintenance, and reporting requirements. SMP requirements are summarized in the following sections.

2.1.1 Institutional and Engineering Controls

Institutional Controls for this site require the imposition of an Environmental Easement that will:

- Limit the use and development of the property to restricted residential use only;
- Restrict the use of site groundwater as a source of potable or process water without appropriate treatment;
- Require annual inspection of the Engineering Controls;
- Require periodic certification of the Institutional and Engineering Controls; and
- Require compliance with the SMP (AECOM 2023).

Engineering Controls at the site are as follows:

- Inspect (annually and following severe weather events) and maintain the existing site covers (soil engineered cover system and CLSM);
- Implement notification and procedural protocols when soil disturbance activities are conducted within soil and engineered cover system areas, as applicable; and
- Execute soil disturbances within the soil and engineered cover system areas in accordance with the Excavation Work Plan (Appendix D of the SMP [AECOM 2023]) and maintain minimum health and safety protocols for contractors performing work within areas potentially containing residual MGP impacts.

2.1.2 Monitoring and Sampling

Monitoring and sampling requirements are as follows:

- Performing semi-annual gauging of monitoring wells;
- Performing semi-annual groundwater sampling for benzene, toluene, ethylbenzene, xylene (BTEX); PAHs; and total cyanide laboratory analysis;
- Performing an annual site-wide inspection;
- Performing an annual inspection of the Keuka Lake Outlet water surface near the outlet control structure (flood control gates at the Main Street bridge) during the summer months for the presence of sheen and/or NAPL; and
- Considering the potential for vapor intrusion if structures within areas potentially containing residual MGP impacts are developed in the future.

2.1.3 **Operation and Maintenance**

O&M requirements consist of maintaining the site monitoring wells, as needed, based on the site inspection and monitoring well inspection results.

2.1.4 **Reporting**

A PRR will be submitted annually to the NYSDEC that will include the following:

- Certification that Institutional and Engineering Controls are in place and operating as designed;
- Site inspection results; and
- Monitoring and sampling results.

2.2 **SMP Compliance Activities**

A summary of the SMP (AECOM 2023) compliance activities completed during the reporting period is presented in Table 1 below.

Table 1 – Site Management Plan Compliance Activities

SMP Requirement:		Engineering Controls	Monitoring and Sampling	O&M
Event	Dates Completed	Site Inspection	Groundwater Quality Monitoring	Well Inspections
February Monitoring	February 5-9, 2024	X	X	X
August Monitoring	August 28-29, 2024		X	X

For comparison purposes and to support the conclusions and recommendations presented in Section 8, data collected during the previous monitoring events are included in tables, where appropriate. Groundwater monitoring, site inspections, and O&M activities for the current reporting period were conducted in accordance with the SMP (AECOM 2023) and are summarized in this PRR.

3 Institutional and Engineering Controls

The environmental easement for the site was in place during the reporting period.

Arcadis completed an annual site inspection on August 29, 2024. The Upland and Bank covers were visually inspected for sparse vegetation, erosion, and settling. The offsite soil Engineered Cap Cover (AquaGate and AquaBlok) is a subsurface engineered cap overlain by topsoil (above water) and a habitat layer material (below water). The Engineered Cap Cover was not observed during the site inspection, and evidence (soil disturbance/excavation) that the Engineered Cap Cover was potentially breached was not observed.

The Site Inspection Form is included as Appendix A, and a photographic log documenting site conditions observed during the annual inspection is included as Appendix B. The location where each photograph was taken, and the direction that the photographer was facing, is shown on Figure B-1 in Appendix B. The annual site inspection results indicate that the soil engineered covers are in good condition, and:

- Maintenance to the Upland and Bank covers is not required.
- Maintenance to the Engineered Cap cover is not required.

The CLSM (used as subsurface backfill under the former MGP building walls and between the grade beams) is not visible and, therefore, cannot not be visually inspected without undermining the structure. However, during the annual inspection, no evidence, such as disturbed soil near the building foundation, was observed that would indicate the CLSM was disturbed.

4 Monitoring and Results

As described in the SMP (AECOM 2023), along with the NYSDEC-approved modifications to the monitoring program summarized in Section 1.1.2, monitoring during the reporting period consisted of:

- Semi-annual groundwater elevation measurements in 13 monitoring wells (PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRMW-4S, PRMW-5S, PRMW-5D, PRMW-6S, PRMW-6D, TMW-1D, TMW-2D, and TMW-2DR). TMW-1D, TMW-2D, and TMW-2DR were only gauged during the February monitoring event as they were decommissioned prior to the August monitoring event;
- Semi-annual groundwater sampling from 10 monitoring wells (PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRMW-4S, PRMW-5S, PRMW-5D, PRMW-6S, and PRMW-6D) for BTEX, PAHs, and total cyanide analysis;
- An annual site-wide inspection (discussed in Section 3); and
- An annual inspection of the Keuka Lake Outlet water surface near the outlet control structure.

Monitoring and gauging results are presented below.

4.1 Potentiometric Surfaces and Groundwater Flow

To document groundwater elevation and flow direction during the reporting period monitoring events, field personnel measured the depth to groundwater, depth to NAPL, and depth to monitoring well bottom from surveyed measuring points at the following monitoring wells screened in the shallow (i.e., water table) and deep groundwater-bearing units, as described in the SMP (AECOM 2023):

- Shallow groundwater-bearing unit: PRMW-1S, PRMW-2S, PRMW-3S, PRMW-4S, PRMW-5S, and PRMW-6S; and
- Deep groundwater-bearing unit: PRMW-2D, PRMW-3D, PRMW-5D, PRMW-6D, TMW-1D (February 2024 only), TMW-2D (February 2024 only), and TMW-2DR (February 2024 only).

Monitoring well TMW-2D was obstructed during the February 2024 monitoring event. Depth to groundwater was able to be measured at TMW-2D; however, it is suspected to be inaccurate due to the obstruction in the monitoring well. Gauging results, including calculated groundwater elevations and sediment thickness, during this reporting period and previous monitoring events are summarized in Table 2.

The February 2024 monitoring event shallow water table and deep potentiometric contour maps are presented on Figures 3 and 4, respectively, and the August 2024 monitoring event shallow water table and deep potentiometric contour maps are presented on Figures 5 and 6, respectively. As shown on the figures, the shallow and deep groundwater flow directions were generally to the southeast, toward the Keuka Lake Outlet. When compared to previous monitoring periods, no significant changes to site-wide groundwater flow directions are observed in the shallow water tables and deep potentiometric surfaces during the reporting period.

4.2 Groundwater Quality

Arcadis field personnel collected groundwater samples from 10 monitoring wells (PRMW-1S, PRMW-2S, PRMW-2D, PRMW-3S, PRMW-3D, PRMW-4S, PRMW-5S, PRMW-5D, PRMW-6S, and PRMW-6D) using low-flow groundwater purging and sampling techniques. The recommendation made in the Second Quarter 2023

Groundwater Monitoring Report (Arcadis 2023b) to decommission monitoring wells TMW-1D, TMW-2D, and TMW-2DR was approved by the NYSDEC in a letter dated October 20, 2023 (NYSDEC 2023). As such, groundwater samples were not collected from monitoring wells TMW-1D and TMW-2DR during the February monitoring event.

Groundwater samples and appropriate quality assurance/quality control samples, to facilitate data validation, were submitted to Eurofins 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.

Arcadis reviewed the February and August 2024 monitoring event laboratory data packages, conducted data validation, and prepared Data Usability Summary Reports. The data review indicated that overall laboratory performance was acceptable, and the overall data quality was within guidelines specified in the respective methods. Laboratory reports are included as Appendix C, and the Data Usability Summary Reports are included as Appendix D. Field sampling logs are included as Appendix E.

The groundwater analytical results presented in Table 3 are compared to the NYSDEC's Class GA (NYSDEC 1998) groundwater quality standards/guidance values. Table 3 also includes analytical results for groundwater samples collected during previous groundwater sampling events (conducted by Arcadis and AECOM).

Groundwater analytical results for samples collected during the reporting period are summarized below.

4.2.1 Shallow Groundwater-Bearing Unit

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

4.2.1.1 BTEX

BTEX analytical results for samples collected during the February 2024 monitoring event are summarized below:

- Benzene (1.7 micrograms per liter [µg/L]) was detected in the groundwater sample collected from monitoring well PRMW-5S at a concentration greater than the Class GA (NYSDEC 1998) groundwater quality standard.
- Ethylbenzene (0.82 µg/L) was detected in the groundwater sample collected from monitoring well PRMW-5S at a concentration less than the respective Class GA groundwater quality standard.
- BTEX was not detected in groundwater samples collected from the remaining shallow monitoring wells.

BTEX analytical results for samples collected during the August 2024 monitoring event are summarized below:

- Benzene (1.9 µg/L) was detected in the groundwater sample collected from monitoring well PRMW-5S at a concentration greater than the Class GA (NYSDEC 1998) groundwater quality standard.
- Ethylbenzene (1.1 µg/L) was detected in the groundwater sample collected from monitoring well PRMW-5S at a concentration less than the respective Class GA groundwater quality standard.
- BTEX was not detected in groundwater samples collected from the remaining shallow monitoring wells.

BTEX detections and concentration trends in the shallow monitoring wells are consistent with historical results. Total BTEX concentrations during the reporting period decreased in monitoring well PRMW-5S when compared to historical results (except for 2.3 µg/L in May of 2023) and indicates an overall decreasing concentration trend.

4.2.1.2 PAHs

PAH analytical results for samples collected during the February 2024 monitoring event are summarized below:

- PAH concentrations in groundwater did not exceed Class GA (NYSDEC 1998) groundwater quality standards or guidance values.
- Acenaphthene (13 µg/L), acenaphthylene (1.8 µg/L), anthracene (0.16 µg/L), fluoranthene (0.78 µg/L), fluorene (4.5 µg/L), naphthalene (6.4 µg/L), phenanthrene (0.94 µg/L), and pyrene (0.46 µg/L) were detected in the groundwater sample collected from monitoring well PRMW-5S at concentrations less than their respective Class GA groundwater quality standards or guidance values.
- PAHs were not detected in groundwater samples collected from the remaining shallow monitoring wells.

PAH analytical results for samples collected during the August 2024 monitoring event are summarized below:

- PAH concentrations in groundwater did not exceed Class GA (NYSDEC 1998) groundwater quality standards or guidance values.
- Acenaphthene (4.5 µg/L), acenaphthylene (0.61 µg/L), anthracene (0.19 µg/L), fluoranthene (0.66 µg/L), fluorene (1.6 µg/L), naphthalene (3.4 µg/L), phenanthrene (0.37 µg/L), and pyrene (0.40 µg/L) were detected in the groundwater sample collected from monitoring well PRMW-5S at concentrations less than their respective Class GA groundwater quality standards or guidance values.
- PAHs were not detected in groundwater samples collected from the remaining shallow monitoring wells.

PAH detections and concentration trends in shallow monitoring wells are consistent with historical results, with the exception that naphthalene detections in PRMW-5S during the reporting period were less than the Class GA (NYSDEC 1998) groundwater quality guidance values. Total PAH concentrations in monitoring well PRMW-5S decreased when compared to historical results and indicate an overall decreasing trend.

4.2.1.3 Cyanide

Total cyanide analytical results for samples collected during the February 2024 monitoring event are summarized below:

- Total cyanide was detected in groundwater samples collected from monitoring wells PRMW-2S (0.100 milligrams per liter [mg/L]) and PRMW-5S (0.029 mg/L) at concentrations less than the Class GA (NYSDEC 1998) groundwater quality standard.

Total cyanide analytical results for samples collected during the August 2024 monitoring event are summarized below:

- Total cyanide was detected in groundwater samples collected from monitoring wells PRMW-2S (0.11 mg/L) and PRMW-5S (0.020 mg/L) at concentrations less than the Class GA (NYSDEC 1998) groundwater quality standard.

Total cyanide concentrations in shallow monitoring wells are consistent with historical results.

4.2.2 Deep Groundwater-Bearing Unit

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

4.2.2.1 BTEX

BTEX was not detected in groundwater samples collected from the deep monitoring wells during either the February 2024 or August 2024 monitoring events. This is consistent with historical results.

4.2.2.2 PAHs

PAH analytical results for samples collected during the February 2024 monitoring event are summarized below:

- Acenaphthene (0.089 µg/L) and pyrene (0.074 µg/L) were detected in the groundwater sample collected from monitoring well PRMW-6D at concentrations less than their respective Class GA (NYSDEC 1998) groundwater quality standards or guidance values.
- PAHs were not detected in groundwater samples collected from the remaining deep monitoring wells.

PAH detections and concentration trends in deep monitoring wells have been consistently less than respective Class GA (NYSDEC 1998) groundwater quality standards or guidance values since post-remedial construction monitoring began in May 2021.

4.2.2.3 Cyanide

Total cyanide was not detected in groundwater samples collected from the deep monitoring wells during either the February 2024 or August 2024 monitoring events. This is consistent with historical results.

4.3 Keuka Lake Outlet Visual Monitoring

The SMP (AECOM 2023) requires annual inspection of the Keuka Lake Outlet water surface near the Outlet Control Structure (flood control gates) at the Main Street Bridge. Sheen was observed on August 29, 2024, and when probed by field staff, the sheen broke up into blocky pieces with jagged edges and did not reform its shape. This characteristic is indicative of a biological-based sheen whereas a petroleum-based sheen would exhibit smooth edges when probed. Based on these observations, the sheen was determined in the field to be biological in origin. A photograph of the observed sheen is provided as photograph 12 in Appendix B.

5 Operation and Maintenance

O&M activities conducted during the reporting period are presented in Table 1 and included the annual site monitoring well network inspection. A summary of these activities is presented in the following subsections.

5.1 Monitoring Well Network

Inspection activities/findings are presented in the following subsections.

5.1.1 Monitoring Well Inspection

Arcadis visually inspected site monitoring wells, including protective covers, well caps, and general well integrity, during the August 2024 monitoring event to confirm protective road box/standpipe and surrounding concrete apron integrity and to identify potential repairs. A Monitoring Well Integrity Assessment Form documenting the condition of each monitoring well associated with the site, with access at the time of inspection, was completed and is saved in the project file.

5.1.2 Monitoring Well Maintenance

As recommended in the Fourth Quarter 2023 Groundwater Monitoring report (Arcadis 2023c), sediment was removed from PRMW-2D and PRMW-5D during the February 2024 monitoring event. Also, as recommended in the First Quarter Groundwater Monitoring report (Arcadis 2024), sediment was removed from PRMW-2D during the August 2024 monitoring event.

5.1.3 Monitoring Well Depth Monitoring

Arcadis field personnel measured the depth to bottom and accumulated sediment thickness (e.g., silts, sands) at each monitoring well during the reporting period. Depth to bottom measurements were compared to the installed depth, as reported on each monitoring well's construction or development log, to determine whether re-development and/or sediment removal is needed.

The calculated sediment thickness in each monitoring well is summarized in Table 2. Less than 0.5 feet of accumulated sediment was measured in all monitoring wells gauged during the reporting period, except for PRMW-2D (1.20 feet) and TMW-2DR (1.04 feet) during the February 2024 monitoring event. During the August 2024 monitoring event, sediment was removed from PRMW-2D (as detailed in Section 5.1.2) and TMW-2DR was decommissioned (as detailed in Section 5.2). Table 2 summarizes depth to bottom measurements following sediment removal activities, if applicable. Based on data collected during the August monitoring event, sediment quantities are consistent with quantities previously reported and do not appear to be significantly increasing or decreasing.

5.2 Monitoring Well Decommissioning

As recommended in the Second Quarter Groundwater Monitoring Report (Arcadis 2023b) and approved by the NYSDEC in a letter dated October 20, 2023 (NYSDEC 2023), Arcadis subcontracted a driller to decommission monitoring wells TMW-1D, TMW-2D, and TMW-2DR on July 16, 2024, by grouting in place. To address the

obstruction in TMW-2D, the drilling subcontractor used the drill rig and drilling rods to push the obstruction deeper, attempting to push it to the bottom of the monitoring well. Ultimately, the obstruction could not be pushed deeper than approximately 40 feet below ground surface. However, grout was able to flow past the obstruction to decommission TMW-2D by grouting in place. Monitoring well decommissioning records are provided as Appendix F.

5.3 Building Maintenance

On October 18, 2024, plywood sheeting was re-installed over two windows on the former MGP building where the sheeting installed after completing the remedy was no longer present. One window was on the northeast-facing side of the building, and the second window was on the southeast-facing side. Before and after pictures are provided as photographs 1 through 4 in Appendix G.

5.4 Site Improvements

The adjacent property owner (to the west) obtained permission from NYSEG to allow a kayak and bicycle rental company to operate in the southwest corner of the site and to install a gravel parking lot on the site. To comply with the SMP (AECOM 2023), NYSEG submitted a Request to Import Material form to the NYSDEC project manager, which provided a project narrative, sieve information on proposed imported materials, and a project design map showing the limits of the new gravel parking lot. The NYSDEC project manager approved this submittal, and the gravel parking lot was installed in August 2024. The Request to Import Material Form and associated NYSDEC approval is provided as Appendix H. The site figures have been updated to show the gravel parking lot footprint.

6 Biotic Inspection

The SMP (AECOM 2023) requires that a one-time, post-remediation inspection be conducted to assess reestablishment of the Keuka Lake Outlet biotic community within the remediated areas. The inspection was completed August 30-31, 2022, and inspection activities and results are reported in Section 3.3.3 of the 2022 Restoration Monitoring Report, which is provided as Appendix I. A summary of the inspection and results is provided below.

Arcadis conducted benthic invertebrate community assessment in each restored sediment cell to determine whether the benthic community had re-colonized after remediation and backfilling. Field personnel collected a representative petite ponar grab sample within each restored sediment cell. Samples were collected in substrates that allowed enough surface penetration to obtain a suitable sample for resident benthic organism taxonomic identification. Sample locations are shown on Figure 4 in Appendix I. Samples were sieved and processed in the field, preserved with isopropanol, and sent to Normandeau Associates in Stowe, Pennsylvania, for identification and enumeration.

Restored substrates observed during sampling are a mix of predominately fine to coarse gravels with sands and silts. Organic materials include varying amounts of both fine and coarse particulate organic matter (i.e., leaf fragments, detritus, woody debris) and shell fragments (primarily zebra mussels and snail shells). Depositional silts and finer organic materials were observed in higher percentages within the shoreline of Cell 6A and Cell 2 when compared to sample locations in other cells. The remaining restored sediment cells had less fine-grained material and were typically composed of fine to coarse gravels and sand.

The benthic community taxonomy results are provided in Tables 4a through 4h in Appendix I and indicate re-colonization has occurred within the Keuka Outlet remediated areas as invertebrates were observed in each of the samples. Similar to typical lake outlet waters, several benthic organism orders were more prevalent, including Tubificida (aquatic worms), Gastropoda (aquatic snails), and Chironomidae (midge larvae).

Chironomidae (midges) were the most observed organism, comprising an approximate 40% average of the invertebrate population across the eight restored sediment cells. Midges were most common in Cell 6A and Cell 2, comprising 71% and 65% of the benthic invertebrate samples, respectively, due to a higher frequency of observed soft substrates (i.e., silts and clays) in these cells. Gastropoda and Tubificida averaged approximately 11% and 6% of the community within the six restored sediment cells, respectively. In addition to these benthic organism orders, freshwater bivalves species (Veneroidea), including pill clams and zebra mussels, were relatively abundant, comprising an approximate 13% average of the community across the restored sediment cells.

Several community metrics were derived from each sample to facilitate comparing results, as summarized below:

- Species richness – Species richness ranged from 8 to 25, with an average of 20, which is within the index range of 7 to 24 for similar outlet waters (NYSDEC 2021).
- EPT richness – EPT richness was low and ranged from 0 to 2, with an average of 1, which is within the index range of 0 to 12 (NYSDEC 2021). Lake outlet waters that receive cold-water hypolimnion releases tend to interfere with the life cycles of Ephemeroptera, Plecoptera, Trichoptera (EPT) species such as mayflies, stoneflies, and caddisflies (NYSDEC 2021). As a result, these species are not as common in lake outlet locations.

- Hilsenhoff biotic index (HBI) – HBI measures an organism’s potential to tolerate perturbation (i.e., nutrient loading or other pollution) and typically is a water quality indicator. A low HBI indicates organisms have a low tolerance to perturbation and, therefore, indicates a higher water quality. HBI observed within the restored sediment cells ranged from 6.26 to 7.38, with an average of 6.75, which is within the index range of 4.48 to 8.22 (NYSDEC 2021).
- Percent model affinity – The percent model affinity is a metric used to compare how similar a study site is with respect to a model non-impacted community and is based on the percent abundance of seven major macroinvertebrate groups (Novak and Bode 1992). The higher the percentage, the less potentially impacted the site. The restored sediment cell benthic community samples ranged from 39% to 71%, with an average of 58%, which is within the index range of 24% to 67% (NYSDEC 2021).

Overall, the benthic community results indicate successful restored sediment substrate re-colonization and the identified invertebrate community results are within the expected ranges for this type of system (i.e., lake outlet waters) in New York State.

7 Disturbance Activities in Potentially Impacted Areas

NYSEG is not aware of any intrusive activities that were conducted in potentially impacted areas during the reporting period, except for the monitoring well decommissioning activities detailed in Section 5.2. Furthermore, the gravel parking lot construction, detailed in Section 5.4, did not remove any portion of the post-remediation surface cover. The post-remediation surface cover remains intact underneath the gravel parking lot.

8 Conclusions and Recommendations

Conclusions and recommendations, based on the fourth year of site O&M, are presented below.

8.1 Conclusions

Conclusions based on results from the 2024 monitoring events are summarized below.

- Monitoring requirements were met during the reporting period.
- Annual Site Inspection:
 - Maintenance to the Upland and Bank covers is not required.
 - Maintenance to the Engineered Cap cover is not required.
- The groundwater flow direction in the shallow and deep groundwater-bearing units is generally consistent with historical conditions.
- Groundwater Quality:
 - BTEX and PAH concentrations in shallow and deep groundwater were consistent with historical results and show an overall decreasing trend (where detected).
 - Total cyanide concentrations in shallow groundwater are consistent with historical results and indicate stable concentrations. Total cyanide concentrations in deep groundwater are consistent with historical results and remained below detection limits.
- Monitoring Well Network:
 - Monitoring well network deficiencies identified in the Fourth Quarter 2023 Groundwater Monitoring Report (Arcadis 2023c) and First Quarter 2024 Groundwater Monitoring Report (Arcadis 2024) were addressed during the reporting period, and no deficiencies in the monitoring well network were identified during the reporting period that require repair.
- Benthic community sampling results indicated that the restored sediment areas have been re-colonized, and the community is similar to what would be expected in lake outlet waters observed in New York State.

8.2 Recommendations

Recommendations based on O&M of the NYSDEC-selected remedy during the reporting period are provided below.

- Monitoring and Sampling:
 - Continue conducting monitoring and sampling as described in the SMP (AECOM 2023).
 - Continue semi-annual monitoring well gauging as described in the SMP.
 - Continue semi-annual groundwater monitoring as described in the SMP.
- Continue preparing annual PRRs as described in the SMP.

9 Certification Statement

The completed NYSDEC Site Management PRR Institutional and Engineering Controls Certification Submittal Form, which certifies that site controls were in place and effective and no changes occurred during the reporting period that would impair the ability of the controls to protect public health and the environment, is included as Appendix J.

Please note that the Submittal Form identifies the reporting period as March 22, 2023 to October 31, 2024. Per correspondence with the NYSDEC project manager on May 21, 2024 (NYSDEC 2024) and as approved, this report provides data from the February and August 2024 monitoring events and defines the period as December 2023 to November 2024 to align with the assumed monitoring period moving forward (based on the PRR due date). The next PRR will cover the reporting period defined in the next Submittal Form and will include any required data/information.

10 References

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Arcadis. 2023b. Second Quarter 2023 Groundwater Monitoring Report, New York State Electric & Gas Corporation, Penn Yan Former Manufactured Gas Plant, Penn Yan, New York, NYSDEC Site No. 862009. August 25.

Arcadis. 2023c. Fourth Quarter 2023 Groundwater Monitoring Report, New York State Electric & Gas Corporation, Penn Yan Former Manufactured Gas Plant, Penn Yan, New York, NYSDEC Site No. 862009. December 21.

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NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. October 22, 1993, reissued June 1998.

NYSDEC 2012. Record of Decision, NYSEG Penn Yan Water St. MGP Site, Site Number 862009. December.

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NYSDEC. 2023. Letter from Gerald Pratt (NYSDEC) to John Ruspantini (NYSEG). Re: Second Quarter 2023 Groundwater Monitoring Report, Penn Yan Water St. MGP. October 20.

NYSDEC. 2024. Email from Gerald Pratt (NYSDEC) to Nicholas Beyrle (Arcadis). Re: NYSEG Penn Yan Water St (862009) – 2024 Q1 Report Submission. May 21.

Tables

Table 2
Gauging Data
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
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 Sediment Thickness (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
				August 3, 2022	10.84	720.27	-	29.61	0.29
				November 22, 2022	10.43	720.68	-	29.70	0.20
				February 8, 2023	10.78	720.33	-	29.68	0.22
				May 25, 2023	11.05	720.06	-	29.67	0.23
				August 23, 2023	10.39	720.72	-	29.70	0.20
				November 9, 2023	10.91	720.20	-	29.65	0.25
				February 5, 2024	9.91	721.20	-	29.66	0.24
				August 28, 2024	10.57	720.54	-	29.68	0.22
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
				August 3, 2022	16.26	718.29	-	22.94	0.15
				November 22, 2022	15.76	718.79	-	23.05	0.04
				February 8, 2023	15.40	719.15	-	22.99	0.10
				May 25, 2023	15.52	719.03	-	22.96	0.13
				August 23, 2023	15.44	719.11	-	23.00	0.09
				November 9, 2023	16.26	718.29	-	23.00	0.09
				February 5, 2024	15.13	719.42	-	22.96	0.13
				August 28, 2024	15.91	718.64	-	23.03	0.06
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
				August 3, 2022	15.89	718.75	-	37.78	0.77
				November 22, 2022	15.82	718.82	-	38.09	0.46
				February 8, 2023	15.60	719.04	-	37.81	0.74
				May 25, 2023	15.49	719.15	-	37.84	0.71
				August 23, 2023	15.47	719.17	-	37.95	0.60
				November 9, 2023	16.03	718.61	-	37.10	1.45
				February 5, 2024	15.20	719.44	-	37.35	1.20
				August 28, 2024	15.77	718.87	-	38.10	0.45
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
				August 3, 2022	7.25	716.48	-	22.76	0.14
				November 22, 2022	7.42	716.31	-	22.80	0.10
				February 8, 2023	7.26	716.47	-	22.82	0.08
				May 25, 2023	7.13	716.60	-	22.80	0.10
				August 23, 2023	7.10	716.63	-	22.80	0.10
				November 9, 2023	7.38	716.35	-	22.83	0.07
				February 5, 2024	6.92	716.81	-	22.80	0.10
				August 28, 2024	7.18	716.55	-	22.79	0.11

See Notes on Page 4.

Table 2
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Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
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 Sediment Thickness (feet)
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
				August 3, 2022	5.85	717.96	-	35.78	0.47
				November 22, 2022	6.42	717.39	-	35.85	0.40
				February 8, 2023	6.04	717.77	-	35.81	0.44
				May 25, 2023	4.98	718.83	-	35.75	0.50
				August 23, 2023	5.75	718.06	-	36.15	0.10
				November 9, 2023	6.30	717.51	-	35.85	0.40
				February 5, 2024	5.53	718.28	-	35.80	0.45
				August 28, 2024	5.83	717.98	-	35.75	0.50
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
				August 3, 2022	7.20	714.72	-	27.05	0.25
				November 22, 2022	7.40	714.52	-	27.12	0.18
				February 8, 2023	7.10	714.82	-	27.10	0.20
				May 25, 2023	7.13	714.79	-	27.09	0.21
				August 23, 2023	7.02	714.90	-	27.11	0.19
				November 9, 2023	7.50	714.42	-	27.12	0.18
				February 5, 2024	6.44	715.48	-	27.10	0.20
				August 28, 2024	6.86	715.06	-	27.10	0.20
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
				August 3, 2022	6.84	713.88	-	22.54	0.16
				November 22, 2022	7.17	713.55	-	22.60	0.10
				February 8, 2023	7.34	713.38	-	22.59	0.11
				May 25, 2023	6.53	714.19	-	22.57	0.13
				August 23, 2023	6.59	714.13	-	22.63	0.07
				November 9, 2023	7.17	713.55	-	22.62	0.08
				February 5, 2024	6.60	714.12	-	22.58	0.12
				August 28, 2024	6.28	714.44	-	22.58	0.12
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
				August 3, 2022	3.58	717.16	-	31.59	1.68
				November 22, 2022	4.00	716.74	-	31.55	1.72
				February 8, 2023	3.63	717.11	-	31.59	1.68
				May 25, 2023	2.57	718.17	-	31.45	1.82
				August 23, 2023	3.31	717.43	-	33.02	0.25
				November 9, 2023	3.71	717.03	-	31.45	1.82
				February 5, 2024	2.91	717.83	-	33.08	0.19
				August 28, 2024	3.17	717.57	-	33.20	0.07

See Notes on Page 4.

Table 2
Gauging Data
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
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 Sediment Thickness (feet)
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
				August 3, 2022	6.08	715.02	-	23.00	0.20
				November 22, 2022	8.75	712.35	-	23.04	0.16
				February 8, 2023	6.16	714.94	-	23.05	0.15
				May 25, 2023	5.77	715.33	-	23.03	0.17
				August 23, 2023	5.85	715.25	-	23.09	0.11
				November 9, 2023	6.03	715.07	-	23.18	0.02
				February 5, 2024	5.88	715.22	-	23.05	0.15
				August 28, 2024	6.02	715.08	-	23.09	0.11
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
				August 3, 2022	3.82	717.40	-	36.84	0.21
				November 22, 2022	4.39	716.83	-	36.90	0.15
				February 8, 2023	4.10	717.12	-	36.90	0.15
				May 25, 2023	3.01	718.21	-	36.89	0.16
				August 23, 2023	2.72	718.50	-	36.90	0.15
				November 9, 2023	4.31	716.91	-	36.93	0.12
				February 5, 2024	3.62	717.60	-	36.89	0.16
				August 28, 2024	3.79	717.43	-	36.88	0.17
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	-
				August 3, 2022	5.45	718.00	-	63.25	-
				November 22, 2022	5.86	717.59	-	63.60	-
				February 8, 2023	5.58	717.87	-	63.28	-
				May 25, 2023	4.58	718.87	-	63.24	-
				August 23, 2023	5.49	717.96	-	63.25	-
				November 9, 2023	5.80	717.65	-	63.30	-
				February 5, 2024	5.10	718.35	-	63.25	-
				July 16, 2024	Decommissioned				
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	-	-	-
				August 3, 2022	1.07	718.17	-	-	-
				November 22, 2022	-	-	-	-	-
				February 8, 2023	1.32	717.92	-	-	-
				May 25, 2023	0.20	719.04	-	-	-
				August 23, 2023	0.98	718.26	-	-	-
				November 9, 2023	1.61	717.63	-	-	-
				February 5, 2024	0.81	718.43	-	-	-
				July 16, 2024	Decommissioned				

See Notes on Page 4.

Table 2
Gauging Data
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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 Sediment Thickness (feet)
TMW-2DR	719.23	60.18	50 - 60	August 3, 2022	1.17	718.06	-	59.20	0.98
				November 22, 2022	1.57	717.66	-	59.50	0.68
				February 8, 2023	1.35	717.88	-	59.08	1.10
				May 25, 2023	0.56	718.67	-	58.99	1.19
				August 23, 2023	1.31	717.92	-	59.32	0.86
				November 9, 2023	1.62	717.61	-	59.29	0.89
				February 5, 2024	1.00	718.23	-	59.14	1.04
				July 16, 2024	Decommissioned				

Notes:

1. Elevations in feet above mean sea level, 1929 National Geodetic Vertical Datum.
2. Depth calculated based on well installation information provided by Arcadis (TMW-2DR) and AECOM (all other wells).

Acronyms and Abbreviations:

"-" - measurement not taken or not available
TOC - top of casing

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-1S												
			05/26/21	08/23/21	11/29/21	02/25/22	06/01/22	08/04/22	11/22/22	02/08/23	05/25/23	08/23/23	11/09/23	02/05/24	08/28/24
Date Collected:															
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Acenaphthylene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.30 U	0.29 U	0.31 U	0.32 U	0.32 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.30 U	0.29 U	0.31 U	0.32 U	0.32 U
Benzo(a)pyrene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	0.17 U	0.17 U	0.18 U	0.17 U	0.19 U	0.19 U	0.19 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.30 U	0.29 U	0.31 U	0.32 U	0.32 U
Benzo(g,h,i)perylene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.30 U	0.29 U	0.31 U	0.32 UJ	0.32 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Dibenzo(a,h)anthracene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U	0.95 U	0.95 U	1.0 U	0.95 U	0.094 J	1.1 U	1.1 U
Phenanthrene	50	µg/L	5.2 U	5.0 UJB	5.0 U	0.20 U	0.19 U	5.0 U	0.19 U	0.19 U	0.20 U	0.19 U	0.21 U	0.22 U	0.21 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.49 U	5.0 U	0.48 U	0.48 U	0.51 U	0.48 U	0.52 U	0.54 U	0.53 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.094 J	ND	ND
Inorganics															
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.010 U	0.010 U	0.010 UJ

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-2D												
Date Collected:			05/25/21	08/25/21	11/30/21	02/25/22	06/01/22	08/04/22	11/22/22	02/08/23	05/25/23	08/23/23	11/09/23	02/05/24	08/28/24
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Acenaphthylene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.30 U	5.0 U	0.31 U	0.32 U	0.31 U	0.29 U	0.31 U	0.31 U	0.30 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 UJ	0.30 U	5.0 U	0.31 U	0.32 U	0.31 U	0.29 U	0.31 U	0.31 U	0.30 U
Benzo(a)pyrene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.19 UJ	0.18 U	5.0 U	0.19 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.18 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 UJ	0.30 U	5.0 U	0.31 U	0.32 U	0.31 U	0.29 U	0.31 U	0.31 U	0.30 U
Benzo(g,h,i)perylene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 UJ	0.30 U	5.0 U	0.31 U	0.32 U	0.31 U	0.29 U	0.31 U	0.31 UJ	0.30 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Dibenzo(a,h)anthracene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.52 UJ	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	0.098 J	1.1 U	1.0 U	0.97 U	1.0 U	1.0 U	1.0 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.21 U	0.20 U	5.0 U	0.21 U	0.21 U	0.21 U	0.19 U	0.20 U	0.21 U	0.20 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.50 U	5.0 U	0.52 U	0.53 U	0.52 U	0.49 U	0.51 U	0.52 U	0.50 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	ND	ND	0.098 J	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 UB	0.010 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.010 U	0.010 U	0.010 UJ

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-2S												
			05/25/21	08/24/21	11/30/21	02/25/22	06/01/22	08/04/22	11/22/22	02/08/23	05/25/23	08/23/23	11/09/23	02/05/24	08/28/24
Date Collected:															
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Acenaphthylene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.31 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.31 U
Benzo(a)pyrene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.18 U	0.18 U	5.0 U	0.18 U	0.17 U	0.18 U	0.17 U	0.17 U	0.19 U	0.19 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U	0.31 U	0.29 U	0.29 U	0.31 U	0.31 U
Benzo(g,h,i)perylene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.30 U	5.0 U	0.29 U	0.29 U	0.31 U	0.29 U	0.29 U	0.31 UJ	0.31 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Dibenzo(a,h)anthracene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	0.98 U	0.95 U	1.0 U	0.95 U	0.95 U	1.0 UB	1.0 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.20 U	0.20 U	5.0 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U	0.21 U	0.21 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.51 U	5.0 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U	0.52 U	0.52 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics															
Cyanide, Total	0.2	mg/L	0.015 J	0.064	0.09	0.077	0.078 J	0.010 U	0.0690 UB	0.078	0.086 B	0.094	0.11	0.100	0.11 J

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-3D												
			05/24/21	08/24/21	11/30/21	02/25/22	06/01/22	08/04/22	11/21/22	02/08/23	05/25/23	08/23/23	11/09/23	02/05/24	08/28/24
Date Collected:															
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Acenaphthylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 U	0.32 U	0.29 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 U	0.32 U	0.29 U
Benzo(a)pyrene	--	µg/L	5.2 U	5.0 U	5.0 U	0.19 U	0.17 U	5.0 U	0.18 U	0.18 U	0.17 U	0.18 U	0.19 U	0.19 U	0.17 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 U	0.32 U	0.29 U
Benzo(g,h,i)perylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 U	0.32 UJ	0.29 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Dibenzo(a,h)anthracene	--	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U	0.99 U	1.0 U	0.96 U	1.0 U	1.1 U	1.1 UB	0.95 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.21 U	0.19 U	5.0 U	0.20 U	0.20 U	0.19 U	0.20 U	0.21 U	0.21 U	0.19 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.49 U	5.0 U	0.50 U	0.50 U	0.48 U	0.51 U	0.53 U	0.53 U	0.48 U
Total PAHs	--	µg/L	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	0.010 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.010 U	0.010 U	0.010 UJ

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-3S												
			05/24/21	08/24/21	11/30/21	02/25/22	05/31/22	08/04/22	11/21/22	02/08/23	05/25/23	08/23/23	11/09/23	02/05/24	08/28/24
Date Collected:															
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	0.49 U	0.49 U	0.49 U	0.52 U	0.53 U	0.50 U	0.48 U
Acenaphthylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.29 U	0.29 U	0.31 U	0.32 U	0.30 U	0.29 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	0.49 U	0.49 U	0.49 U	0.52 U	0.53 U	0.50 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 UJ	5.0 U	0.29 UJ	0.29 U	0.29 U	0.31 UJ	0.32 U	0.30 UJ	0.29 U
Benzo(a)pyrene	--	µg/L	5.2 U	5.0 U	5.0 U	0.18 U	0.17 UJ	5.0 U	0.18 UJ	0.18 U	0.18 U	0.19 UJ	0.19 U	0.18 UJ	0.17 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 UJ	5.0 U	0.29 UJ	0.29 U	0.29 U	0.31 UJ	0.32 U	0.30 UJ	0.29 U
Benzo(g,h,i)perylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	0.49 U	0.49 U	0.49 U	0.52 UJ	0.53 U	0.50 UJ	0.48 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 UJ	5.0 U	0.29 U	0.29 U	0.29 U	0.31 UJ	0.32 U	0.30 UJ	0.29 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	0.49 UJ	0.49 UJ	0.49 U	0.52 UJ	0.53 U	0.50 UJ	0.48 U
Dibenzo(a,h)anthracene	--	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	0.49 U	0.49 U	0.49 U	0.52 UJ	0.53 U	0.50 UJ	0.48 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	0.49 U	0.49 U	0.49 U	0.52 U	0.53 U	0.50 U	0.48 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	0.49 U	0.49 UJ	0.49 U	0.52 U	0.53 U	0.50 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 UJ	5.0 U	0.49 U	0.49 U	0.49 U	0.52 UJ	0.53 U	0.50 UJ	0.48 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	0.97 U	5.0 U	0.98 U	0.98 U	0.98 U	1.0 U	1.1 U	1.0 UB	0.95 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U	0.20 U	0.20 U	0.20 U	0.21 U	0.21 U	0.20 U	0.19 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.49 U	5.0 U	0.49 U	0.49 U	0.49 U	0.52 U	0.53 U	0.50 U	0.48 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics															
Cyanide, Total	0.2	mg/L	0.011	0.01 U	0.27	0.010 U	0.010 U	0.010 UBJ	0.0100 U	0.010 U	0.010 UB	0.011	0.010 U	0.010 UB	0.010 U

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-4S												
			05/25/21	08/23/21	11/29/21	02/25/22	05/31/22	08/04/22	11/22/22	02/09/23	05/26/23	08/24/23	11/09/23	02/05/24	08/29/24
Date Collected:															
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Acenaphthylene	--	µg/L	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 U	0.30 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 U	0.30 U
Benzo(a)pyrene	--	µg/L	5.2 U	5.0 U	5.0 U	3.7 U	0.17 U	5.0 U	0.17 U	0.18 U	0.18 U	0.17 U	0.19 U	0.19 U	0.18 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 U	0.30 U
Benzo(g,h,i)perylene	--	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	6.1 U	0.29 U	5.0 U	0.29 U	0.30 U	0.30 U	0.29 U	0.31 U	0.32 UJ	0.30 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Dibenzo(a,h)anthracene	--	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	20 U	0.95.0 U	5.0 U	0.95 U	1.0 U	1.0 U	0.95 U	1.0 U	1.1 U	1.0 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	4.1 U	0.19 U	5.0 U	0.19 U	0.20 U	0.20 U	0.19 U	0.21 U	0.22 U	0.20 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	10 U	0.48 U	5.0 U	0.48 U	0.50 U	0.51 U	0.48 U	0.52 U	0.54 U	0.51 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics															
Cyanide, Total	0.2	mg/L	0.01 U	0.0072 J	0.01 U	0.010 U	0.0056 J	0.011 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.010 U	0.010 UB	0.010 UJ

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-5D												
			05/24/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22	11/21/22	02/09/23	05/26/23	08/24/23	11/10/23	02/06/24	08/28/24
Date Collected:															
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.055 J	0.048 J	5.0 U	0.039 J	0.50 U	0.041 J	0.058 J	0.058 J	0.53 U	0.48 U
Acenaphthylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	0.30 U	0.30 U	0.29 U	0.32 U	0.29 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.50 U	0.037 J	0.53 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	0.30 U	0.30 U	0.29 U	0.32 U	0.29 U
Benzo(a)pyrene	--	µg/L	5.2 U	5.0 U	5.0 U	0.18 U	0.18 U	5.0 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.19 U	0.17 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	0.30 U	0.30 U	0.29 U	0.32 U	0.29 U
Benzo(g,h,i)perylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.50 U	0.49 U	0.53 U	0.48 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.31 U	5.0 U	0.29 U	0.30 U	0.30 U	0.30 U	0.29 U	0.32 UJ	0.29 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.50 U	0.49 U	0.53 U	0.48 U
Dibenzo(a,h)anthracene	--	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.50 U	0.49 U	0.53 U	0.48 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.12 J	0.11 J	0.53 U	0.48 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.50 U	0.49 U	0.53 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.50 U	0.49 U	0.53 U	0.48 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	1.0 U	5.0 U	0.95 U	1.0 U	0.99 U	1.0 U	0.97 U	1.1 U	0.95 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.066 J	0.20 U	5.0 U	0.19 U	0.20 U	0.20 U	0.064 J	0.064 J	0.21 U	0.19 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.51 U	0.51 U	5.0 U	0.48 U	0.50 U	0.50 U	0.087 J	0.080 J	0.53 U	0.48 U
Total PAHs	--	µg/L	ND	ND	ND	0.12 J	0.048 J	ND	0.039 J	ND	0.041 J	0.33 J	0.349 J	ND	ND
Inorganics															
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.010 U	0.010 U	0.010 U

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Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-5S												
			05/25/21	08/25/21	11/30/21	02/25/22	05/31/22	08/03/22	11/21/22	02/09/23	05/26/23	08/24/23	11/10/23	02/06/24	08/29/24
Date Collected:															
BTEX															
Benzene	1	µg/L	23	21	27	14	16	12	6.1	7.6	1.4	4.3	2.6	1.7	1.9
Ethylbenzene	5	µg/L	2.4 J	3	5.9	3.3	5.7	4.5	2.4	2.0	0.89 J	2.3	1.2	0.82 J	1.1
Toluene	5	µg/L	0.75 J	0.9 J	1.6	0.65 J	0.95 J	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	4.9 J	3.3	6.6	2.9	4.1	2.2	1.4 J	1.3	2.0 U	0.77 J	2.0 U	2.0 U	2.0 U
Total BTEX	- -	µg/L	31 J	28 J	41	21 J	27 J	19 J	9.9 J	10.9 J	2.3 J	7.4 J	3.8	2.52 J	3.0
PAHs															
Acenaphthene	20	µg/L	22	39	15	26 D	18 D	14 J	11	16	14	15	12	13	4.5
Acenaphthylene	- -	µg/L	4.4 J	7.6	3.4 J	5.2	3.5	2.7 J	1.9	2.6	2.2	2.3	1.9	1.8	0.61 J
Anthracene	50	µg/L	1.5 J	1.6 J	0.52 J	0.73	0.32 J	25.0 U	2.4 U	2.5 U	0.32 J	0.29 J	0.22 J	0.16 J	0.19 J
Benzo(a)anthracene	0.002	µg/L	5.2 U	0.39 J	5.0 U	0.32 U	0.055 J	25.0 U	1.4 U	1.5 U	1.4 U	1.5 U	1.5 U	0.31 U	1.4 U
Benzo(a)pyrene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.19 U	0.18 U	25.0 U	0.86 U	0.90 U	0.86 U	0.93 U	0.90 U	0.19 U	0.86 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.32 U	0.31 U	25.0 U	1.4 U	1.5 U	1.4 U	1.5 U	1.5 U	0.31 U	1.4 U
Benzo(g,h,i)perylene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.53 U	0.51 U	25.0 U	2.4 U	2.5 U	2.4 U	2.6 U	2.5 U	0.52 U	2.4 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.32 U	0.31 U	25.0 U	1.4 U	1.5 U	1.4 U	1.5 U	1.5 U	0.31 U	1.4 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.084 J	0.51 U	25.0 U	2.4 U	2.5 U	2.4 U	2.6 U	2.5 U	0.52 U	2.4 U
Dibenzo(a,h)anthracene	- -	µg/L	5.2 U	5.0 U	5.0 U	0.53 U	0.51 U	25.0 U	2.4 U	2.5 U	2.4 U	2.6 U	2.5 U	0.52 U	2.4 U
Fluoranthene	50	µg/L	3 J	5.5	2.1 J	2.5	1.5	25.0 U	1.3 J	1.3	1.5 J	1.4 J	0.95 J	0.78	0.66 J
Fluorene	50	µg/L	7	12	5.5	10	5.6	4.9 J	3.5	6.3	5.0	5.3	4.2	4.5	1.6 J
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.53 U	0.51 U	25.0 U	2.4 U	2.5 U	2.4 U	2.6 U	2.5 U	0.52 U	2.4 U
Naphthalene	10	µg/L	44	45	44	26 D	29 D	6.4 J	12	13	18	14	16	6.4	3.4 J
Phenanthrene	50	µg/L	8.2	21 B	5.7	9.8	3.8	2.8 J	1.4	2.4	2.3	1.7	0.95 J	0.94	0.37 J
Pyrene	50	µg/L	2 J	3.4 J	1.3 J	1.5	0.85	25.0 U	0.83 J	0.95	0.81 J	0.84 J	0.61 J	0.46 J	0.40 J
Total PAHs	- -	µg/L	92 J	140 J	78 J	82 J	63 J	31 J	31.9 J	42.6 J	44.1 J	41 J	36.8 J	28.0 J	11.7 J
Inorganics															
Cyanide, Total	0.2	mg/L	0.016	0.11	0.01 U	0.076	0.047 J	0.045	0.0110 UB	0.041 UB	0.030 UB	0.032	0.019 UB	0.0290	0.020

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Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-6D												
			05/25/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22	11/21/22	02/09/23	05/26/23	08/24/23	11/10/23	02/06/24	08/28/24
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.089 J	0.48 U
Acenaphthylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.29 U	0.29 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.29 U	0.29 U
Benzo(a)pyrene	--	µg/L	5.2 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.17 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.29 U	0.29 U
Benzo(g,h,i)perylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.30 U	0.29 U	5.0 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.29 UJ	0.29 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U
Dibenzo(a,h)anthracene	--	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.48 U	0.48 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	0.95.0 U	5.0 U	0.95 U	0.98 U	0.98 U	0.96 U	1.0 U	0.95 UB	0.95 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U	0.19 U	0.20 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.50 U	0.48 U	5.0 U	0.48 U	0.49 U	0.49 U	0.48 U	0.51 U	0.074 J	0.48 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.163 J	ND
Inorganics															
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.010 U	0.0060 J	0.010 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.010 U	0.010 U	0.010

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Guidance Values	Units	PRMW-6S												
			05/25/21	08/24/21	11/30/21	02/25/22	05/31/22	08/03/22	11/21/22	02/09/23	05/26/23	08/24/23	11/10/23	02/06/24	08/28/24
Date Collected:															
BTEX															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs															
Acenaphthene	20	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Acenaphthylene	- -	µg/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	0.31 U	0.29 U	0.29 U	0.33 U	0.29 U
Anthracene	50	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	0.31 U	0.29 U	0.29 U	0.33 U	0.29 U
Benzo(a)pyrene	- -	µg/L	5.4 U	5.0 U	5.0 U	0.18 U	0.17 U	5.0 U	0.17 U	0.18 U	0.19 U	0.17 U	0.17 U	0.20 U	0.17 U
Benzo(b)fluoranthene	0.002	µg/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	0.31 U	0.29 U	0.29 U	0.33 U	0.29 U
Benzo(g,h,i)perylene	- -	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Benzo(k)fluoranthene	0.002	µg/L	5.4 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.29 U	0.30 U	0.31 U	0.29 U	0.29 U	0.33 UJ	0.29 U
Chrysene	0.002	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Dibenzo(a,h)anthracene	- -	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Fluoranthene	50	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Fluorene	50	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Naphthalene	10	µg/L	5.4 U	5.0 U	5.0 U	1.0 U	0.96 U	5.0 U	0.95 U	1.0 U	1.0 U	0.95 U	0.086 J	1.1 UB	0.95 U
Phenanthrene	50	µg/L	5.4 U	5.0 U	5.0 U	0.20 U	0.19 U	5.0 U	0.19 U	0.20 U	0.21 U	0.19 U	0.19 U	0.22 U	0.19 U
Pyrene	50	µg/L	5.4 U	5.0 U	5.0 U	0.51 U	0.48 U	5.0 U	0.48 U	0.50 U	0.52 U	0.48 U	0.48 U	0.56 U	0.48 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.086 J	ND	ND
Inorganics															
Cyanide, Total	0.2	mg/L	0.01 U	0.01 U	0.051	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.010 U	0.010 U	0.010 U

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Location ID:	NYSDEC TOGS 1.1.1 Standards or Values	Units	TMW-1D										TMW-2D	TMW-2DR				
			05/26/21	08/25/21	11/30/21	02/25/22	06/01/22	08/03/22	11/21/22	02/09/23	05/26/23	08/23/23	02/24/21	08/03/22	11/21/22	02/08/23	05/25/23	08/23/23
BTEX																		
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs																		
Acenaphthene	20	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Acenaphthylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U	0.29 U	0.29 U
Anthracene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U	0.29 U	0.29 U
Benzo(a)pyrene	--	µg/L	5.2 U	5.0 U	5.0 U	0.19 U	0.17 U	5.0 U	0.18 U	0.18 U	0.18 U	0.18 U	5.4 U	5.0 U	0.19 U	0.18 U	0.17 U	0.17 U
Benzo(b)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U	0.29 U	0.29 U
Benzo(g,h,i)perylene	--	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Benzo(k)fluoranthene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.31 U	0.29 U	5.0 U	0.30 U	0.30 U	0.30 U	0.30 U	5.4 U	5.0 U	0.31 U	0.29 U	0.29 U	0.29 U
Chrysene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Dibenzo(a,h)anthracene	--	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Fluoranthene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Fluorene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Naphthalene	10	µg/L	5.2 U	5.0 U	5.0 U	1.0 U	0.96 U	5.0 U	0.99 U	1.0 U	1.0 U	1.0 U	5.4 U	5.0 U	1.0 U	0.98 U	0.95 U	0.95 U
Phenanthrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.21 U	0.19 U	5.0 U	0.20 U	0.20 U	0.20 U	0.20 U	5.4 U	5.0 U	0.21 U	0.20 U	0.19 U	0.19 U
Pyrene	50	µg/L	5.2 U	5.0 U	5.0 U	0.52 U	0.48 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.4 U	5.0 U	0.52 U	0.49 U	0.48 U	0.48 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics																		
Cyanide, Total	0.2	mg/L	0.01 UJ	0.01 U	0.01 U	0.010 U	0.010 U	0.010 UB	0.0100 U	0.010 U	0.010 UB	0.010 U	0.0081 J	0.010 U	0.0100 U	0.010 U	0.010 UB	0.010 UB

See Notes on Page 12.

Table 3
Groundwater Analytical Results
Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York

Notes:

1. Samples were submitted to Eurofins, Buffalo, New York, for analysis using United States Environmental Protection Agency SW-846 Methods 8260B (BTEX), 8270C (PAHs), and 9012B (cyanide).
2. Sample results detected above the Method Detection Limit are presented in bold font.
3. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value (NYSDEC 1998).
4. Groundwater samples were not collected from wells TMW-1D and TMW-2DR per NYSDEC approval of the Second Quarter 2023 Groundwater Monitoring Report (Arcadis 2023) in a letter dated October 20, 2023 (NYSDEC 2023).

Acronyms and Abbreviations:

"- -" - Standard or Guidance Value not established

µg/L - micrograms per liter

BTEX - Benzene, Ethylbenzene, Toluene, and Xylenes

mg/L - milligrams per liter

ND - not detected

NYSDEC - New York State Department of Environmental Conservation

PAH - Polycyclic Aromatic Hydrocarbon

TOGS - Technical and Operational Guidance Series

Laboratory Qualifiers:

B - The compound has been detected in the sample as well as its associated blank, its presence in the sample may be suspect.

D - Concentration is based on diluted sample analysis.

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UB - Compound is considered non-detect at the listed value due to associated blank contamination.

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.

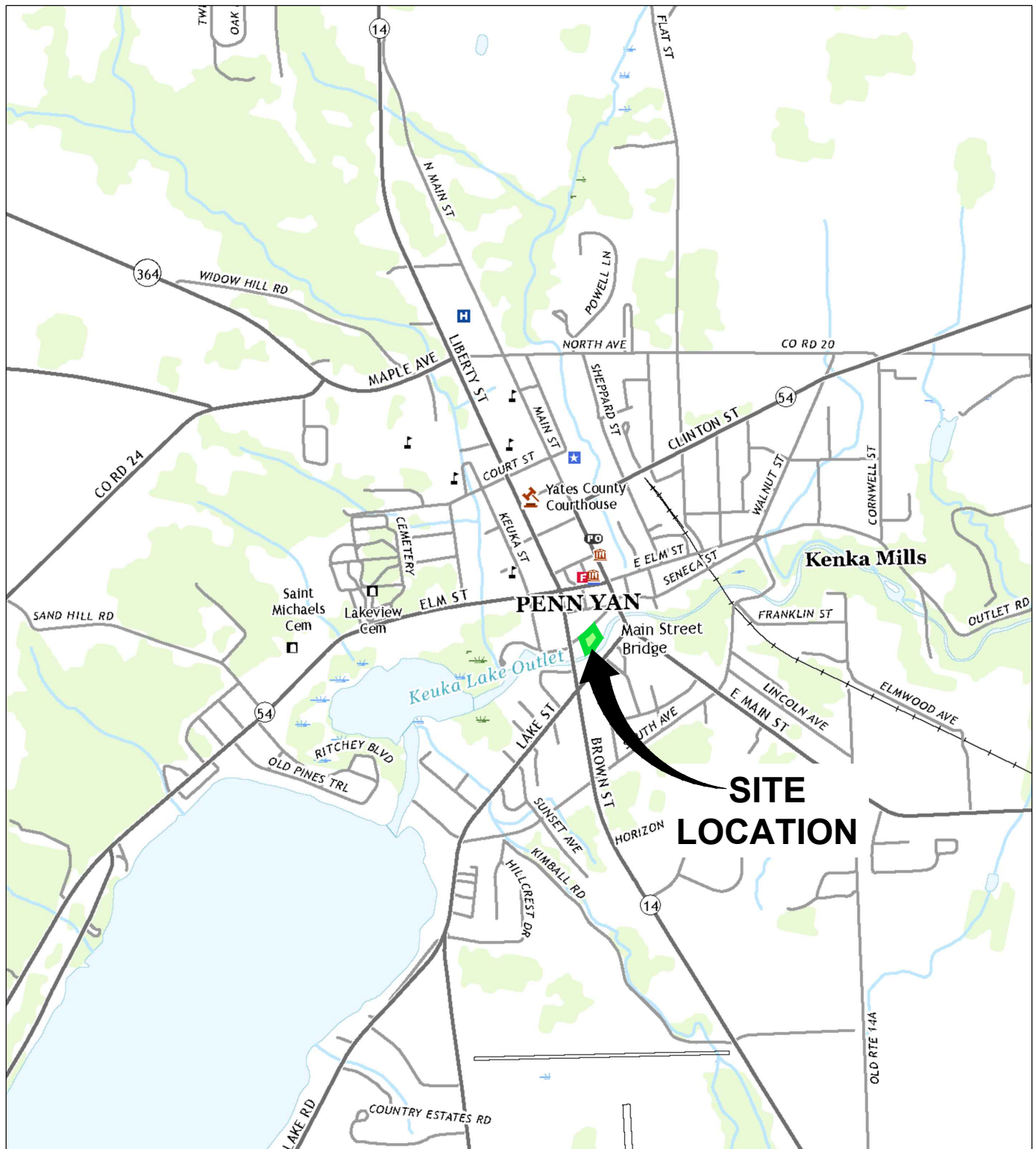
References:

Arcadis. 2023. Second Quarter 2023 Groundwater Monitoring Report, New York State Electric & Gas Corporation, Penn Yan Former Manufactured Gas Plant, Penn Yan, New York, NYSDEC Site No. 1. August 25.

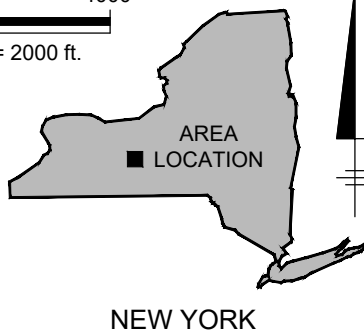
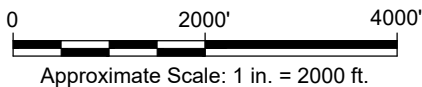
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. October 22, 1993, reissued June 1998.

NYSDEC. 2023. Letter from Gerald Pratt (NYSDEC) to John Ruspantini (NYSEG). Re: Second Quarter 2023 Groundwater Monitoring Report, Penn Yan Water St. MGP. October 20.

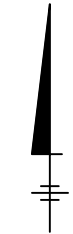
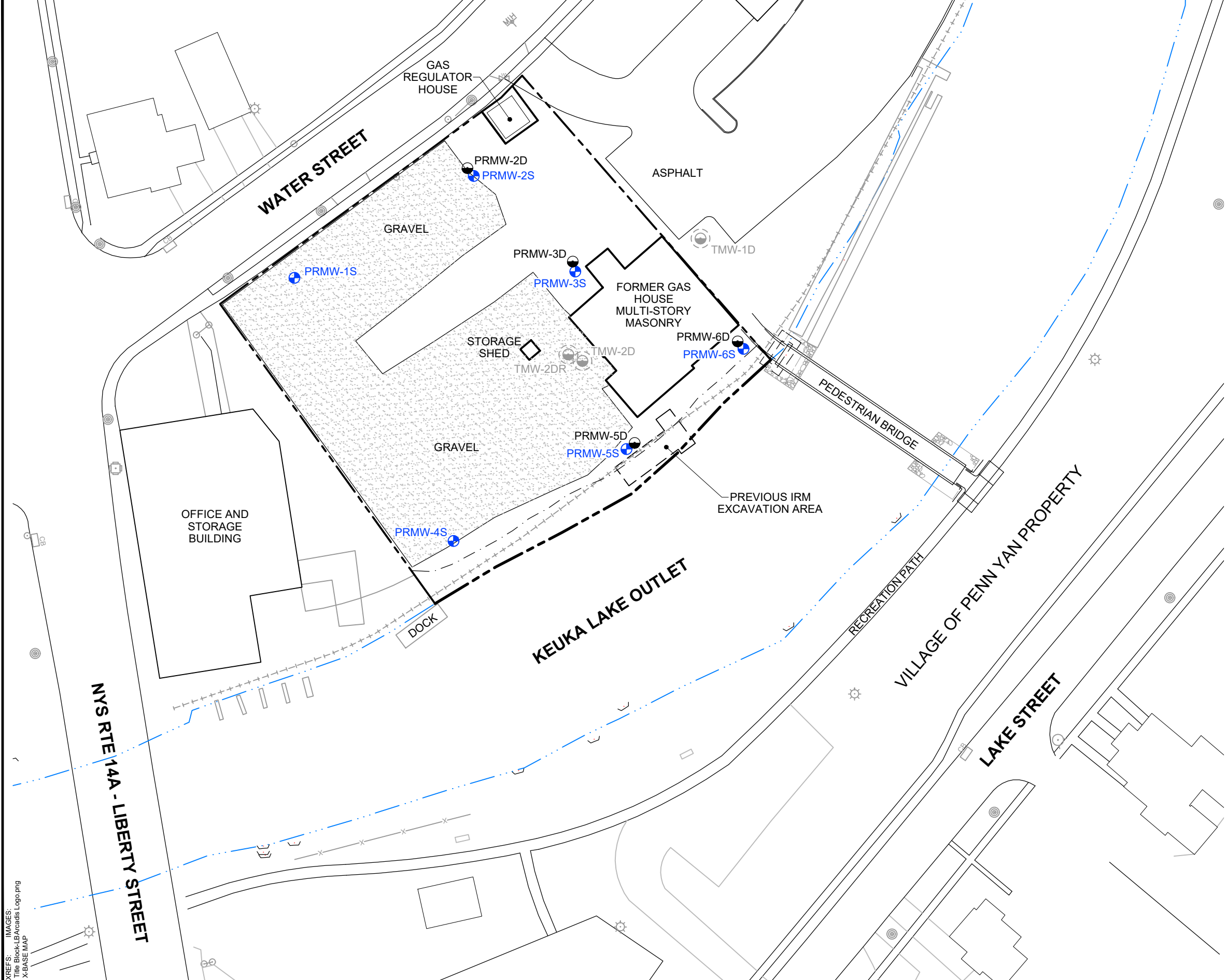
Figures



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



NYSEG FORMER MGP SITE PENN YAN, NEW YORK	
SITE LOCATION MAP	
	FIGURE 1

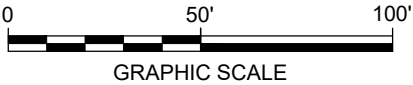


LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DECOMMISSIONED WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- TOP OF BANK
- HISTORICAL RAILROAD TRACKS

NOTES:

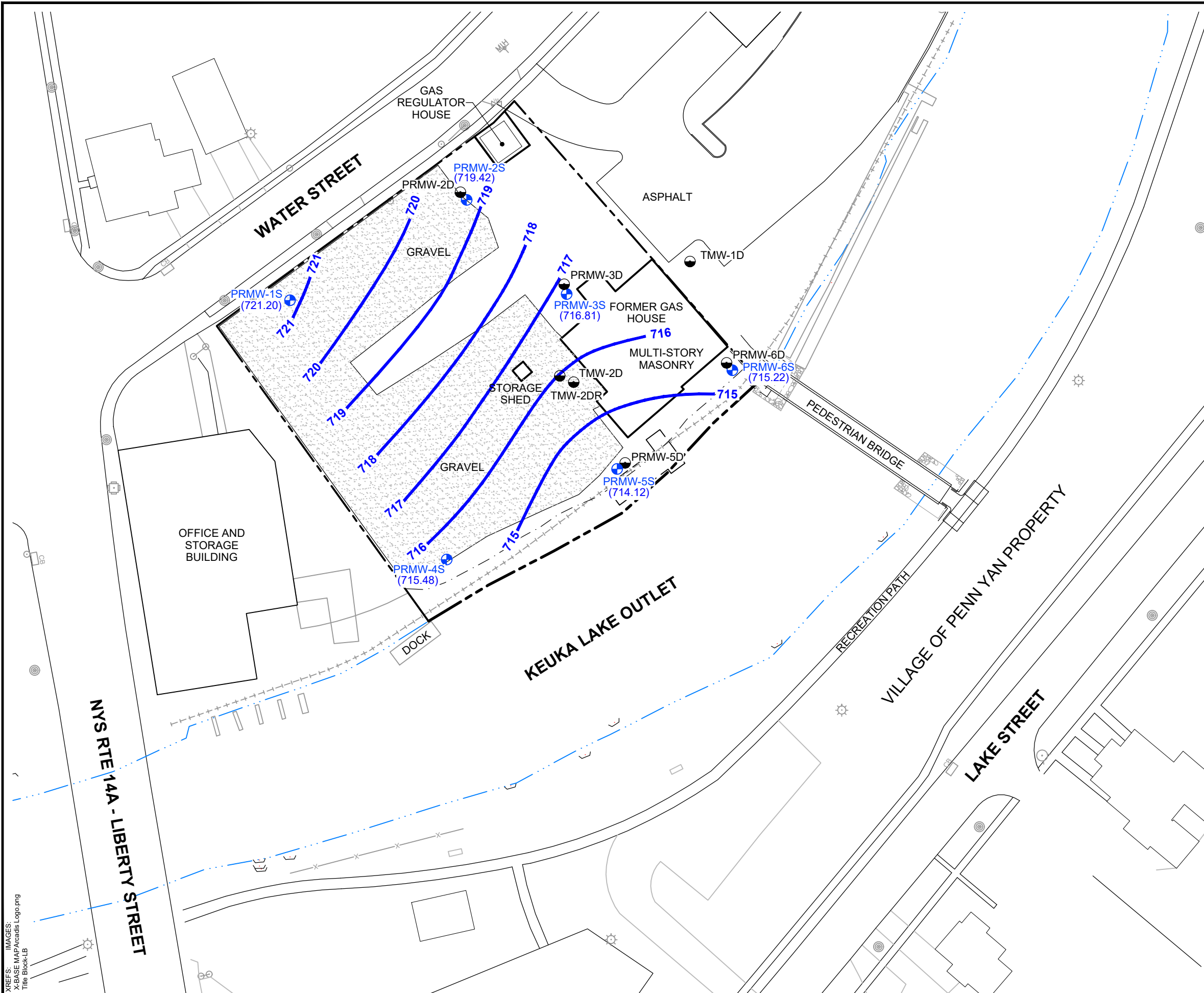
- ALL LOCATIONS ARE APPROXIMATE.
- FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.



NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

SITE LAYOUT

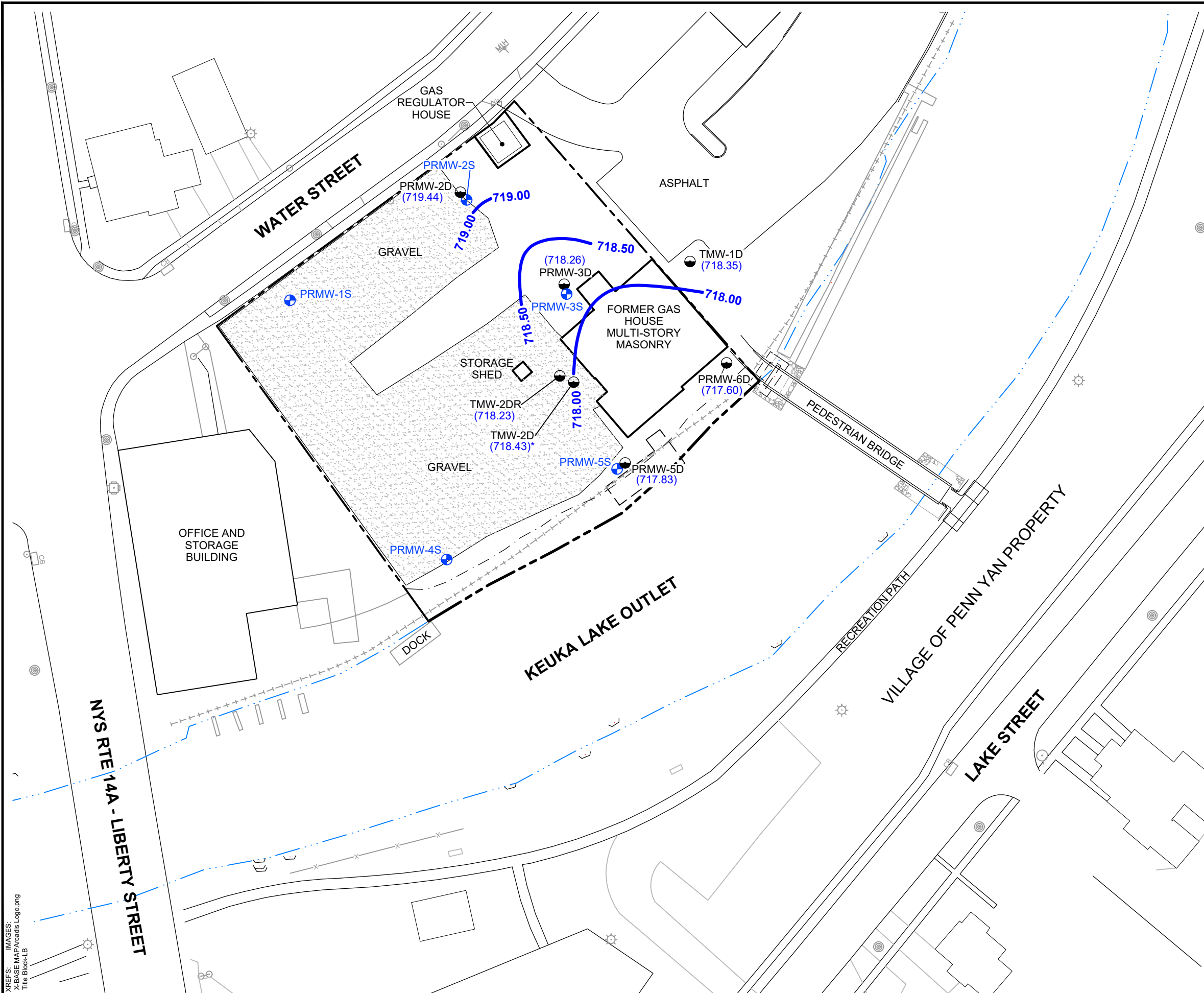




NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

**SHALLOW GROUNDWATER
CONTOUR MAP
FEBRUARY 5, 2024**



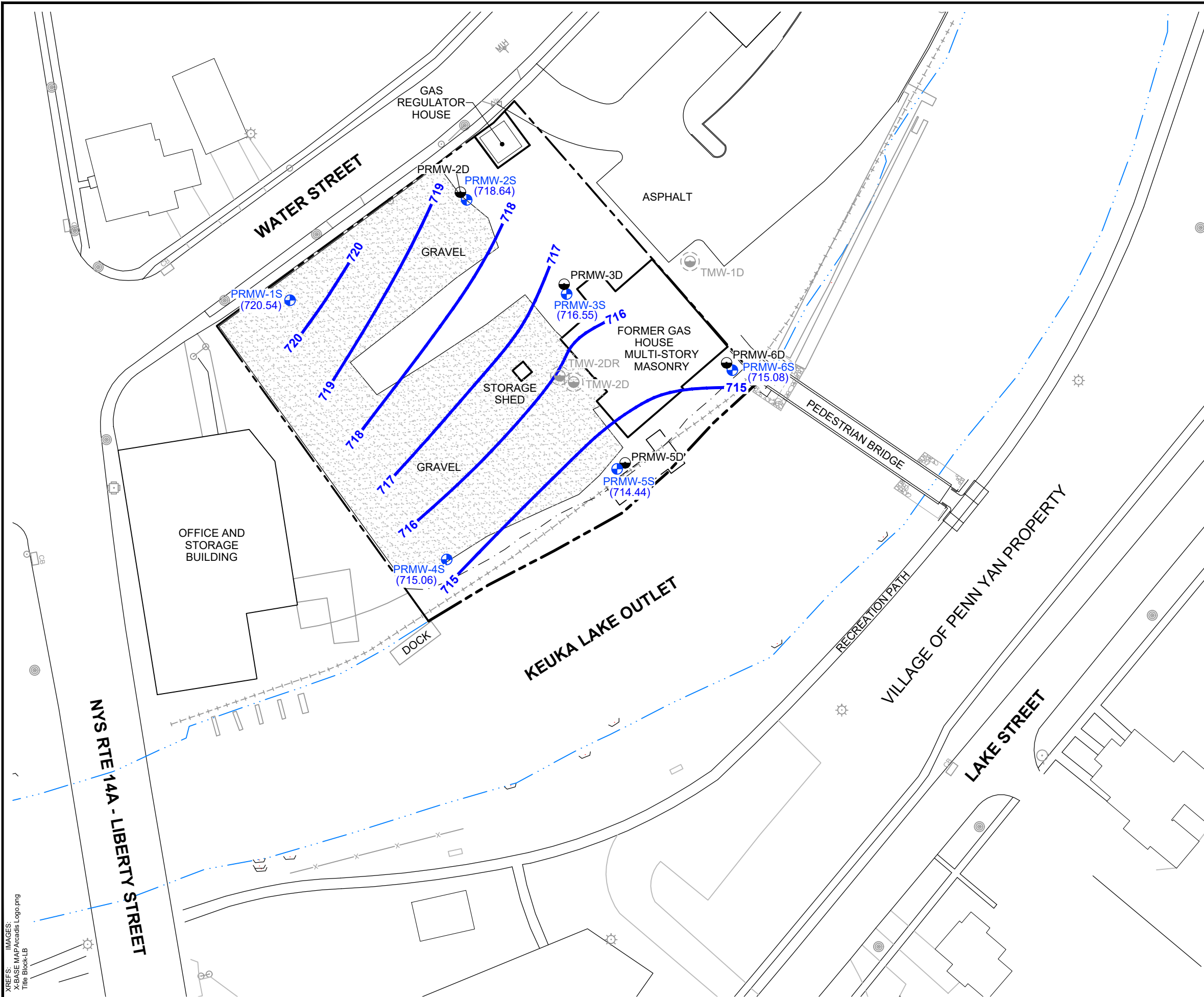


NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

**DEEP GROUNDWATER
CONTOUR MAP
FEBRUARY 5, 2024**



XREFS: IMAGES:
X-BASE MAP/Arcadis Logo.png
Title Block-LB

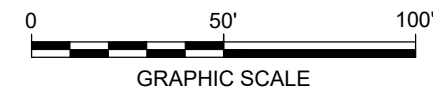


LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DECOMMISSIONED WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- TOP OF BANK
- HISTORICAL RAILROAD TRACKS
- (720.15) GROUNDWATER ELEVATION (ASML)
- 718 GROUNDWATER CONTOUR

NOTES:

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

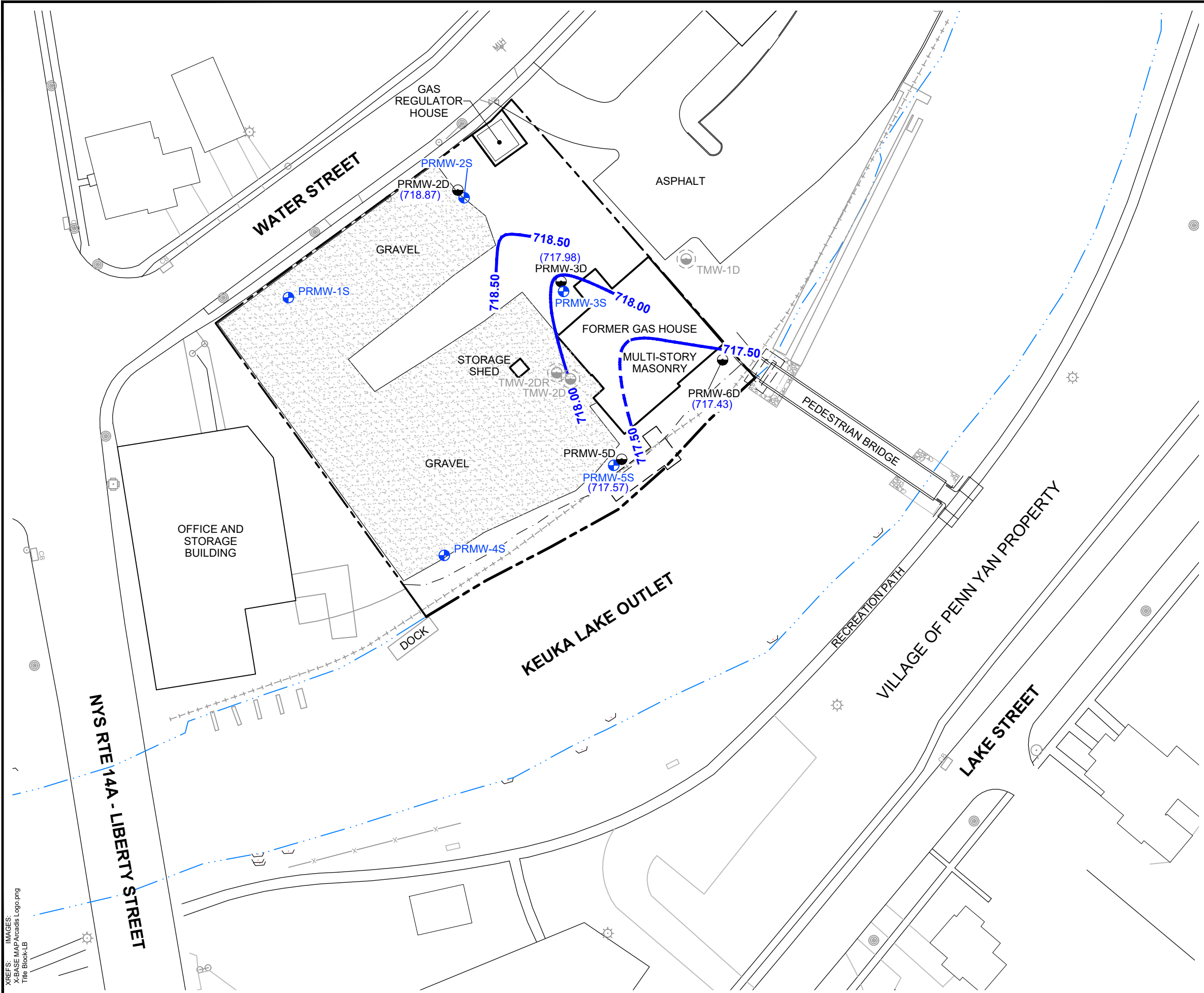


NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

**SHALLOW GROUNDWATER
CONTOUR MAP
AUGUST 28, 2024**



FIGURE
5

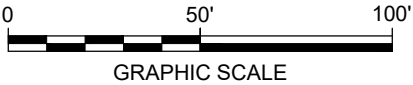


LEGEND:

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DECOMMISSIONED WELL
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- TOP OF BANK
- HISTORICAL RAILROAD TRACKS
- (717.98) GROUNDWATER ELEVATION (ASML)
- 718.00 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

NOTES:

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



NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

DEEP GROUNDWATER
CONTOUR MAP
AUGUST 28, 2024



Appendix A

Site Inspection Form

Site-Wide Inspection Form
NYSEG Penn Yan Former Manufactured Gas Plant Site
(NYSDEC Site #862009)
Penn Yan, New York


Engineering Control (s): Site Cover

Inspection Date: August 29, 2024

Item	Yes	No	N/A	Comments
Does the Engineering Control continue to perform as designed?	X			
Does the Engineering Control continue to protect human health and the environment?	X			
Does the Engineering Control comply with requirements established in the SMP?	X			
Has remedial performance criteria been achieved or maintained?	X			
Has sampling and analysis of appropriate media been performed during the monitoring event?	X			Semi-annual groundwater monitoring for BTEX, PAHs, and cyanide.
Have there been any modifications made to the remedial or monitoring system?		X		
Does the remedial or monitoring system need to be changed or altered at this time?		X		
Has there been any intrusive activity, excavation, or construction occurred at the site?	X			Construction of a gravel parking lot. No intrusive activity.
Were the activities mentioned above, performed in accordance with the SMP?	X			
Was there a change in the use of the site or were there new structures constructed on the site?	X			Construction of a gravel parking lot. No intrusive activity.
In case a new occupied structure is constructed or the use of the current building changed, was a vapor intrusion evaluation done?			X	
Were new mitigation systems installed based on monitoring results?		X		
Were the groundwater wells in the monitoring network inspected during this site inspection? If so, were the Monitoring Well Field Inspection Logs Completed?	X			Monitoring well inspection logs were completed and kept in the project file. No deficiencies were noted.

Note: Upon completion of the form any non-conforming items warranting corrective action should be identified here within.

Name of Inspector: Kaitlyn Fleming
Inspector's Company: Arcadis

Signature of Inspector: 
Date: August 29, 2024

IMMEDIATELY REPORT ANY FAILURE OR DEFECT TO THE PROJECT MANAGER SO A COUNTERMEASURE PLAN CAN BE IMPLEMENTED.

Appendix B

Site Inspection Photographic Log

Appendix B Site Inspection Photographic Log



Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Photograph: 1

Description:

Upland cover in good condition, no repair needed.

Direction: SE

Photograph taken by:
AJS

Date: 8/29/2024



Photograph: 2

Description:

Upland cover in good condition, no repair needed.

Direction: SW

Photograph taken by:
AJS

Date: 8/29/2024

Appendix B Site Inspection Photographic Log

Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Photograph: 3

Description:
Upland cover in good condition, no repair needed.

Direction: E

Photograph taken by:
AJS

Date: 8/29/2024



Photograph: 4

Description:
Upland cover in good condition, no repair needed. Additional gravel was added after taking this photograph.

Direction: NE

Photograph taken by:
AJS

Date: 8/29/2024

Appendix B Site Inspection Photographic Log

Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Photograph: 5

Description:

Upland cover in good condition, no repair needed. Additional gravel was added after taking this photograph.

Direction: NE

Photograph taken by:

AJS

Date: 8/29/2024



Photograph: 6

Description:

Upland cover in good condition, no repair needed. Additional gravel was added after taking this photograph.

Direction: NE

Photograph taken by:

AJS

Date: 8/29/2024

Appendix B Site Inspection Photographic Log

Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Photograph: 7

Description:

Upland cover in good condition, no repair needed. Additional gravel was added after taking this photograph.

Direction: NE

Photograph taken by:
AJS

Date: 8/29/2024



Photograph: 8

Description:

Upland cover in good condition, no repair needed. Additional gravel was added after taking this photograph.

Direction: NE

Photograph taken by:
AJS

Date: 8/29/2024

Appendix B Site Inspection Photographic Log

Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Photograph: 9

Description:
Bank cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/29/2024



Photograph: 10

Description:
Bank cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/29/2024

Appendix B Site Inspection Photographic Log

Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Photograph: 11

Description:
Bank cover in good condition, no repair needed.

Direction: NE

Photograph taken by:
AJS

Date: 8/29/2024



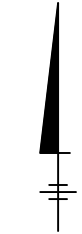
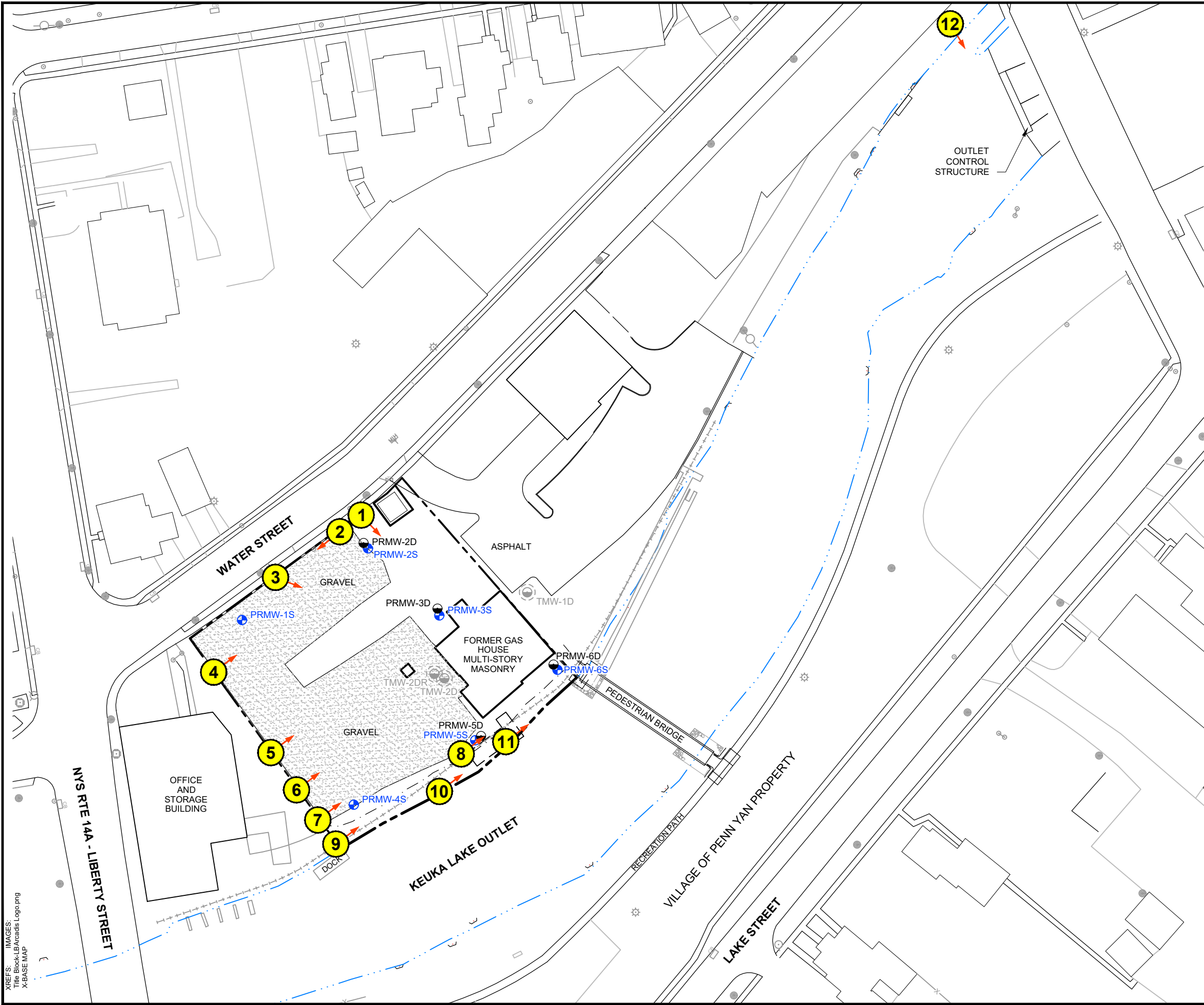
Photograph: 12

Description:
Keuka Lake Outlet water surface at Outlet Control Structure. Biological sheen observed on water surface.










Direction: SE

Photograph taken by:
AJS

Date: 8/29/2024



LEGEND:

-  SHALLOW MONITORING WELL
-  DEEP MONITORING WELL
-  DECOMMISSIONED WELL
-  CURRENT SITE FEATURE
-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE SHORE LINE
-  TOP OF BANK
-  HISTORICAL RAILROAD TRACKS
-  PHOTOGRAPH LOCATION / ORIENTATION / NUMBER

NOTES:

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



NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

PHOTOGRAPHIC ORIENTATION MAP



FIGURE
B-1

Appendix C

Laboratory Data Packages



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. John J Ruspantini
New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

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JOB DESCRIPTION

NYSEG Former MGP Site - Penn Yan
NYSEG - Penn Yan Former MGP

JOB NUMBER

480-216887-1

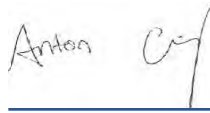
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

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

Job ID: 480-216887-1

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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
Project: NYSEG Former MGP Site - Penn Yan

Job ID: 480-216887-1

Job ID: 480-216887-1

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Job Narrative 480-216887-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/7/2024 10:30 AM. 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 2.0°C, 2.1°C, 2.3°C and 2.5°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: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: PRMW-3S MSD (480-216887-7[MSD]).

Method 8270D_LL: The laboratory control sample (LCS) for preparation batch 480-700227 and analytical batch 480-700337 recovered outside control limits for the following analytes: Benzo[k]fluoranthene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

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

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Detection Summary

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

Job ID: 480-216887-1

Client Sample ID: EQUIPMENT BLANK-20240206

Lab Sample ID: 480-216887-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.19	J	1.0	0.066	ug/L	1		8270D LL	Total/NA

Client Sample ID: FIELD BLANK-20240206

Lab Sample ID: 480-216887-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0046	J B F1	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-1S

Lab Sample ID: 480-216887-3

No Detections.

Client Sample ID: PRMW-2D

Lab Sample ID: 480-216887-4

No Detections.

Client Sample ID: PRMW-2S

Lab Sample ID: 480-216887-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.13	J	1.0	0.066	ug/L	1		8270D LL	Total/NA
Cyanide, Total	0.10	B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-3D

Lab Sample ID: 480-216887-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.14	J	1.1	0.068	ug/L	1		8270D LL	Total/NA

Client Sample ID: PRMW-3S

Lab Sample ID: 480-216887-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.32	J	1.0	0.064	ug/L	1		8270D LL	Total/NA
Cyanide, Total	0.0065	J B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-4S

Lab Sample ID: 480-216887-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0070	J B	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-5D

Lab Sample ID: 480-216887-9

No Detections.

Client Sample ID: PRMW-5S

Lab Sample ID: 480-216887-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	0.82	J	1.0	0.74	ug/L	1		8260C	Total/NA
Acenaphthene	13		0.52	0.037	ug/L	1		8270D LL	Total/NA
Acenaphthylene	1.8		0.31	0.058	ug/L	1		8270D LL	Total/NA
Anthracene	0.16	J	0.52	0.035	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.78		0.52	0.082	ug/L	1		8270D LL	Total/NA
Fluorene	4.5		0.52	0.060	ug/L	1		8270D LL	Total/NA
Naphthalene	6.4		1.0	0.066	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.94		0.21	0.064	ug/L	1		8270D LL	Total/NA
Pyrene	0.46	J	0.52	0.078	ug/L	1		8270D LL	Total/NA
Cyanide, Total	0.029	B	0.010	0.0041	mg/L	1		9012B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 480-216887-1

Client Sample ID: PRMW-6D

Lab Sample ID: 480-216887-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.089	J	0.48	0.034	ug/L	1		8270D LL	Total/NA
Naphthalene	0.11	J	0.95	0.061	ug/L	1		8270D LL	Total/NA
Pyrene	0.074	J	0.48	0.072	ug/L	1		8270D LL	Total/NA

Client Sample ID: PRMW-6S

Lab Sample ID: 480-216887-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.079	J	1.1	0.071	ug/L	1		8270D LL	Total/NA

Client Sample ID: DUP-20240205

Lab Sample ID: 480-216887-13

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-216887-14

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: EQUIPMENT BLANK-20240206

Lab Sample ID: 480-216887-1

Date Collected: 02/06/24 12:15

Matrix: WQ

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 18:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 18:48	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 18:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/07/24 18:48	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 18:48	1
Dibromofluoromethane (Surr)	99		75 - 123		02/07/24 18:48	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 18:48	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.037	ug/L		02/08/24 10:57	02/09/24 17:30	1
Acenaphthylene	ND		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 17:30	1
Anthracene	ND		0.52	0.035	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[k]fluoranthene	ND	+	0.31	0.072	ug/L		02/08/24 10:57	02/09/24 17:30	1
Chrysene	ND		0.52	0.076	ug/L		02/08/24 10:57	02/09/24 17:30	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		02/08/24 10:57	02/09/24 17:30	1
Fluoranthene	ND		0.52	0.082	ug/L		02/08/24 10:57	02/09/24 17:30	1
Fluorene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 17:30	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 17:30	1
Naphthalene	0.19	J	1.0	0.066	ug/L		02/08/24 10:57	02/09/24 17:30	1
Phenanthrene	ND		0.21	0.064	ug/L		02/08/24 10:57	02/09/24 17:30	1
Pyrene	ND		0.52	0.078	ug/L		02/08/24 10:57	02/09/24 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		37 - 120	02/08/24 10:57	02/09/24 17:30	1
Nitrobenzene-d5 (Surr)	78		26 - 120	02/08/24 10:57	02/09/24 17:30	1
p-Terphenyl-d14 (Surr)	109		64 - 127	02/08/24 10:57	02/09/24 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 20:18	1

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Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: FIELD BLANK-20240206

Lab Sample ID: 480-216887-2

Date Collected: 02/06/24 11:20

Matrix: WQ

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 19:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 19:10	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 19:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/07/24 19:10	1
4-Bromofluorobenzene (Surr)	102		73 - 120		02/07/24 19:10	1
Dibromofluoromethane (Surr)	102		75 - 123		02/07/24 19:10	1
Toluene-d8 (Surr)	105		80 - 120		02/07/24 19:10	1

Method: SW846 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		02/08/24 10:57	02/09/24 17:58	1
Acenaphthylene	ND		0.30	0.055	ug/L		02/08/24 10:57	02/09/24 17:58	1
Anthracene	ND		0.50	0.034	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[b]fluoranthene	ND		0.30	0.062	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[g,h,i]perylene	ND		0.50	0.057	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[k]fluoranthene	ND	+	0.30	0.069	ug/L		02/08/24 10:57	02/09/24 17:58	1
Chrysene	ND		0.50	0.073	ug/L		02/08/24 10:57	02/09/24 17:58	1
Dibenz(a,h)anthracene	ND		0.50	0.069	ug/L		02/08/24 10:57	02/09/24 17:58	1
Fluoranthene	ND		0.50	0.079	ug/L		02/08/24 10:57	02/09/24 17:58	1
Fluorene	ND		0.50	0.057	ug/L		02/08/24 10:57	02/09/24 17:58	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/08/24 10:57	02/09/24 17:58	1
Naphthalene	ND		0.99	0.063	ug/L		02/08/24 10:57	02/09/24 17:58	1
Phenanthrene	ND		0.20	0.061	ug/L		02/08/24 10:57	02/09/24 17:58	1
Pyrene	ND		0.50	0.075	ug/L		02/08/24 10:57	02/09/24 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		37 - 120	02/08/24 10:57	02/09/24 17:58	1
Nitrobenzene-d5 (Surr)	83		26 - 120	02/08/24 10:57	02/09/24 17:58	1
p-Terphenyl-d14 (Surr)	117		64 - 127	02/08/24 10:57	02/09/24 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0046	J B F1	0.010	0.0041	mg/L			02/08/24 21:02	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-1S

Lab Sample ID: 480-216887-3

Date Collected: 02/05/24 11:40

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 19:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 19:32	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 19:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/07/24 19:32	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 19:32	1
Dibromofluoromethane (Surr)	102		75 - 123		02/07/24 19:32	1
Toluene-d8 (Surr)	98		80 - 120		02/07/24 19:32	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.54	0.039	ug/L		02/08/24 10:57	02/09/24 18:26	1
Acenaphthylene	ND		0.32	0.060	ug/L		02/08/24 10:57	02/09/24 18:26	1
Anthracene	ND		0.54	0.037	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[a]anthracene	ND		0.32	0.037	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[b]fluoranthene	ND		0.32	0.068	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[g,h,i]perylene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[k]fluoranthene	ND	+	0.32	0.075	ug/L		02/08/24 10:57	02/09/24 18:26	1
Chrysene	ND		0.54	0.080	ug/L		02/08/24 10:57	02/09/24 18:26	1
Dibenz(a,h)anthracene	ND		0.54	0.075	ug/L		02/08/24 10:57	02/09/24 18:26	1
Fluoranthene	ND		0.54	0.086	ug/L		02/08/24 10:57	02/09/24 18:26	1
Fluorene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.54	0.12	ug/L		02/08/24 10:57	02/09/24 18:26	1
Naphthalene	ND		1.1	0.069	ug/L		02/08/24 10:57	02/09/24 18:26	1
Phenanthrene	ND		0.22	0.067	ug/L		02/08/24 10:57	02/09/24 18:26	1
Pyrene	ND		0.54	0.082	ug/L		02/08/24 10:57	02/09/24 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		37 - 120	02/08/24 10:57	02/09/24 18:26	1
Nitrobenzene-d5 (Surr)	81		26 - 120	02/08/24 10:57	02/09/24 18:26	1
p-Terphenyl-d14 (Surr)	93		64 - 127	02/08/24 10:57	02/09/24 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:13	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-2D

Lab Sample ID: 480-216887-4

Date Collected: 02/05/24 13:15

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 19:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 19:54	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 19:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/07/24 19:54	1
4-Bromofluorobenzene (Surr)	102		73 - 120		02/07/24 19:54	1
Dibromofluoromethane (Surr)	102		75 - 123		02/07/24 19:54	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 19:54	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		02/08/24 10:57	02/09/24 18:53	1
Acenaphthylene	ND		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 18:53	1
Anthracene	ND		0.52	0.035	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[b]fluoranthene	ND		0.31	0.066	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[k]fluoranthene	ND	+	0.31	0.073	ug/L		02/08/24 10:57	02/09/24 18:53	1
Chrysene	ND		0.52	0.077	ug/L		02/08/24 10:57	02/09/24 18:53	1
Dibenz(a,h)anthracene	ND		0.52	0.073	ug/L		02/08/24 10:57	02/09/24 18:53	1
Fluoranthene	ND		0.52	0.083	ug/L		02/08/24 10:57	02/09/24 18:53	1
Fluorene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 18:53	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 18:53	1
Naphthalene	ND		1.0	0.067	ug/L		02/08/24 10:57	02/09/24 18:53	1
Phenanthrene	ND		0.21	0.065	ug/L		02/08/24 10:57	02/09/24 18:53	1
Pyrene	ND		0.52	0.079	ug/L		02/08/24 10:57	02/09/24 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		37 - 120	02/08/24 10:57	02/09/24 18:53	1
Nitrobenzene-d5 (Surr)	80		26 - 120	02/08/24 10:57	02/09/24 18:53	1
p-Terphenyl-d14 (Surr)	95		64 - 127	02/08/24 10:57	02/09/24 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:15	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-2S

Lab Sample ID: 480-216887-5

Date Collected: 02/05/24 14:30

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 20:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 20:17	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 20:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/07/24 20:17	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 20:17	1
Dibromofluoromethane (Surr)	103		75 - 123		02/07/24 20:17	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 20:17	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.037	ug/L		02/08/24 10:57	02/09/24 19:21	1
Acenaphthylene	ND		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 19:21	1
Anthracene	ND		0.52	0.035	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[k]fluoranthene	ND	+	0.31	0.072	ug/L		02/08/24 10:57	02/09/24 19:21	1
Chrysene	ND		0.52	0.076	ug/L		02/08/24 10:57	02/09/24 19:21	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		02/08/24 10:57	02/09/24 19:21	1
Fluoranthene	ND		0.52	0.082	ug/L		02/08/24 10:57	02/09/24 19:21	1
Fluorene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 19:21	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 19:21	1
Naphthalene	0.13	J	1.0	0.066	ug/L		02/08/24 10:57	02/09/24 19:21	1
Phenanthrene	ND		0.21	0.064	ug/L		02/08/24 10:57	02/09/24 19:21	1
Pyrene	ND		0.52	0.078	ug/L		02/08/24 10:57	02/09/24 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		37 - 120	02/08/24 10:57	02/09/24 19:21	1
Nitrobenzene-d5 (Surr)	79		26 - 120	02/08/24 10:57	02/09/24 19:21	1
p-Terphenyl-d14 (Surr)	93		64 - 127	02/08/24 10:57	02/09/24 19:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.10	B	0.010	0.0041	mg/L			02/08/24 21:18	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-3D

Lab Sample ID: 480-216887-6

Date Collected: 02/05/24 15:35

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 20:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 20:39	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 20:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		02/07/24 20:39	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/07/24 20:39	1
Dibromofluoromethane (Surr)	102		75 - 123		02/07/24 20:39	1
Toluene-d8 (Surr)	101		80 - 120		02/07/24 20:39	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/08/24 10:57	02/09/24 19:50	1
Acenaphthylene	ND		0.32	0.060	ug/L		02/08/24 10:57	02/09/24 19:50	1
Anthracene	ND		0.53	0.036	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[b]fluoranthene	ND		0.32	0.067	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[g,h,i]perylene	ND		0.53	0.062	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[k]fluoranthene	ND	+	0.32	0.074	ug/L		02/08/24 10:57	02/09/24 19:50	1
Chrysene	ND		0.53	0.079	ug/L		02/08/24 10:57	02/09/24 19:50	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/08/24 10:57	02/09/24 19:50	1
Fluoranthene	ND		0.53	0.085	ug/L		02/08/24 10:57	02/09/24 19:50	1
Fluorene	ND		0.53	0.062	ug/L		02/08/24 10:57	02/09/24 19:50	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		02/08/24 10:57	02/09/24 19:50	1
Naphthalene	0.14	J	1.1	0.068	ug/L		02/08/24 10:57	02/09/24 19:50	1
Phenanthrene	ND		0.21	0.066	ug/L		02/08/24 10:57	02/09/24 19:50	1
Pyrene	ND		0.53	0.081	ug/L		02/08/24 10:57	02/09/24 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		37 - 120	02/08/24 10:57	02/09/24 19:50	1
Nitrobenzene-d5 (Surr)	81		26 - 120	02/08/24 10:57	02/09/24 19:50	1
p-Terphenyl-d14 (Surr)	104		64 - 127	02/08/24 10:57	02/09/24 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:20	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-3S

Lab Sample ID: 480-216887-7

Date Collected: 02/05/24 13:15

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 21:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 21:01	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 21:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/07/24 21:01	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/07/24 21:01	1
Dibromofluoromethane (Surr)	98		75 - 123		02/07/24 21:01	1
Toluene-d8 (Surr)	101		80 - 120		02/07/24 21:01	1

Method: SW846 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		02/08/24 10:57	02/09/24 17:01	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/08/24 10:57	02/09/24 17:01	1
Anthracene	ND		0.50	0.034	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[a]anthracene	ND	F1 F2	0.30	0.034	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[a]pyrene	ND	F1 F2	0.18	0.13	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[b]fluoranthene	ND	F1 F2	0.30	0.063	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[g,h,i]perylene	ND	F1 F2	0.50	0.058	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[k]fluoranthene	ND	F1 *+ F2	0.30	0.070	ug/L		02/08/24 10:57	02/09/24 17:01	1
Chrysene	ND	F1 F2	0.50	0.074	ug/L		02/08/24 10:57	02/09/24 17:01	1
Dibenz(a,h)anthracene	ND	F1 F2	0.50	0.070	ug/L		02/08/24 10:57	02/09/24 17:01	1
Fluoranthene	ND		0.50	0.080	ug/L		02/08/24 10:57	02/09/24 17:01	1
Fluorene	ND		0.50	0.058	ug/L		02/08/24 10:57	02/09/24 17:01	1
Indeno[1,2,3-cd]pyrene	ND	F1 F2	0.50	0.11	ug/L		02/08/24 10:57	02/09/24 17:01	1
Naphthalene	0.32	J	1.0	0.064	ug/L		02/08/24 10:57	02/09/24 17:01	1
Phenanthrene	ND		0.20	0.062	ug/L		02/08/24 10:57	02/09/24 17:01	1
Pyrene	ND		0.50	0.076	ug/L		02/08/24 10:57	02/09/24 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	115		37 - 120	02/08/24 10:57	02/09/24 17:01	1
Nitrobenzene-d5 (Surr)	92		26 - 120	02/08/24 10:57	02/09/24 17:01	1
p-Terphenyl-d14 (Surr)	112		64 - 127	02/08/24 10:57	02/09/24 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0065	J B	0.010	0.0041	mg/L			02/08/24 21:35	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-4S

Lab Sample ID: 480-216887-8

Date Collected: 02/05/24 11:40

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 21:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 21:23	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 21:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/07/24 21:23	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 21:23	1
Dibromofluoromethane (Surr)	100		75 - 123		02/07/24 21:23	1
Toluene-d8 (Surr)	103		80 - 120		02/07/24 21:23	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.54	0.039	ug/L		02/08/24 10:57	02/09/24 20:18	1
Acenaphthylene	ND		0.32	0.060	ug/L		02/08/24 10:57	02/09/24 20:18	1
Anthracene	ND		0.54	0.037	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[a]anthracene	ND		0.32	0.037	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[b]fluoranthene	ND		0.32	0.068	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[g,h,i]perylene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[k]fluoranthene	ND	+	0.32	0.075	ug/L		02/08/24 10:57	02/09/24 20:18	1
Chrysene	ND		0.54	0.080	ug/L		02/08/24 10:57	02/09/24 20:18	1
Dibenz(a,h)anthracene	ND		0.54	0.075	ug/L		02/08/24 10:57	02/09/24 20:18	1
Fluoranthene	ND		0.54	0.086	ug/L		02/08/24 10:57	02/09/24 20:18	1
Fluorene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 20:18	1
Indeno[1,2,3-cd]pyrene	ND		0.54	0.12	ug/L		02/08/24 10:57	02/09/24 20:18	1
Naphthalene	ND		1.1	0.069	ug/L		02/08/24 10:57	02/09/24 20:18	1
Phenanthrene	ND		0.22	0.067	ug/L		02/08/24 10:57	02/09/24 20:18	1
Pyrene	ND		0.54	0.082	ug/L		02/08/24 10:57	02/09/24 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120	02/08/24 10:57	02/09/24 20:18	1
Nitrobenzene-d5 (Surr)	79		26 - 120	02/08/24 10:57	02/09/24 20:18	1
p-Terphenyl-d14 (Surr)	105		64 - 127	02/08/24 10:57	02/09/24 20:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0070	J B	0.010	0.0041	mg/L			02/08/24 21:42	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-5D

Lab Sample ID: 480-216887-9

Date Collected: 02/06/24 11:25

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 21:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 21:45	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 21:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/07/24 21:45	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 21:45	1
Dibromofluoromethane (Surr)	99		75 - 123		02/07/24 21:45	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 21:45	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/08/24 10:57	02/09/24 20:47	1
Acenaphthylene	ND		0.32	0.059	ug/L		02/08/24 10:57	02/09/24 20:47	1
Anthracene	ND		0.53	0.036	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[k]fluoranthene	ND	+	0.32	0.074	ug/L		02/08/24 10:57	02/09/24 20:47	1
Chrysene	ND		0.53	0.078	ug/L		02/08/24 10:57	02/09/24 20:47	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/08/24 10:57	02/09/24 20:47	1
Fluoranthene	ND		0.53	0.084	ug/L		02/08/24 10:57	02/09/24 20:47	1
Fluorene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 20:47	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		02/08/24 10:57	02/09/24 20:47	1
Naphthalene	ND		1.1	0.067	ug/L		02/08/24 10:57	02/09/24 20:47	1
Phenanthrene	ND		0.21	0.065	ug/L		02/08/24 10:57	02/09/24 20:47	1
Pyrene	ND		0.53	0.080	ug/L		02/08/24 10:57	02/09/24 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		37 - 120	02/08/24 10:57	02/09/24 20:47	1
Nitrobenzene-d5 (Surr)	90		26 - 120	02/08/24 10:57	02/09/24 20:47	1
p-Terphenyl-d14 (Surr)	104		64 - 127	02/08/24 10:57	02/09/24 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:45	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-5S

Lab Sample ID: 480-216887-10

Date Collected: 02/06/24 10:10

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.7		1.0	0.41	ug/L			02/07/24 22:08	1
Ethylbenzene	0.82	J	1.0	0.74	ug/L			02/07/24 22:08	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 22:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/07/24 22:08	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/07/24 22:08	1
Dibromofluoromethane (Surr)	101		75 - 123		02/07/24 22:08	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 22:08	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	13		0.52	0.037	ug/L		02/08/24 10:57	02/09/24 21:15	1
Acenaphthylene	1.8		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 21:15	1
Anthracene	0.16	J	0.52	0.035	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[k]fluoranthene	ND	+	0.31	0.072	ug/L		02/08/24 10:57	02/09/24 21:15	1
Chrysene	ND		0.52	0.076	ug/L		02/08/24 10:57	02/09/24 21:15	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		02/08/24 10:57	02/09/24 21:15	1
Fluoranthene	0.78		0.52	0.082	ug/L		02/08/24 10:57	02/09/24 21:15	1
Fluorene	4.5		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 21:15	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 21:15	1
Naphthalene	6.4		1.0	0.066	ug/L		02/08/24 10:57	02/09/24 21:15	1
Phenanthrene	0.94		0.21	0.064	ug/L		02/08/24 10:57	02/09/24 21:15	1
Pyrene	0.46	J	0.52	0.078	ug/L		02/08/24 10:57	02/09/24 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120	02/08/24 10:57	02/09/24 21:15	1
Nitrobenzene-d5 (Surr)	80		26 - 120	02/08/24 10:57	02/09/24 21:15	1
p-Terphenyl-d14 (Surr)	98		64 - 127	02/08/24 10:57	02/09/24 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.029	B	0.010	0.0041	mg/L			02/08/24 21:47	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-6D

Lab Sample ID: 480-216887-11

Date Collected: 02/06/24 10:50

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 22:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 22:30	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 22:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/07/24 22:30	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/07/24 22:30	1
Dibromofluoromethane (Surr)	100		75 - 123		02/07/24 22:30	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 22:30	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.089	J	0.48	0.034	ug/L		02/08/24 10:57	02/09/24 21:43	1
Acenaphthylene	ND		0.29	0.053	ug/L		02/08/24 10:57	02/09/24 21:43	1
Anthracene	ND		0.48	0.032	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[k]fluoranthene	ND	+	0.29	0.067	ug/L		02/08/24 10:57	02/09/24 21:43	1
Chrysene	ND		0.48	0.070	ug/L		02/08/24 10:57	02/09/24 21:43	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		02/08/24 10:57	02/09/24 21:43	1
Fluoranthene	ND		0.48	0.076	ug/L		02/08/24 10:57	02/09/24 21:43	1
Fluorene	ND		0.48	0.055	ug/L		02/08/24 10:57	02/09/24 21:43	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		02/08/24 10:57	02/09/24 21:43	1
Naphthalene	0.11	J	0.95	0.061	ug/L		02/08/24 10:57	02/09/24 21:43	1
Phenanthrene	ND		0.19	0.059	ug/L		02/08/24 10:57	02/09/24 21:43	1
Pyrene	0.074	J	0.48	0.072	ug/L		02/08/24 10:57	02/09/24 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	117		37 - 120	02/08/24 10:57	02/09/24 21:43	1
Nitrobenzene-d5 (Surr)	94		26 - 120	02/08/24 10:57	02/09/24 21:43	1
p-Terphenyl-d14 (Surr)	118		64 - 127	02/08/24 10:57	02/09/24 21:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:50	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-6S

Lab Sample ID: 480-216887-12

Date Collected: 02/06/24 09:50

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 22:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 22:52	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 22:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		02/07/24 22:52	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/07/24 22:52	1
Dibromofluoromethane (Surr)	100		75 - 123		02/07/24 22:52	1
Toluene-d8 (Surr)	101		80 - 120		02/07/24 22:52	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.56	0.040	ug/L		02/08/24 10:57	02/09/24 22:10	1
Acenaphthylene	ND		0.33	0.062	ug/L		02/08/24 10:57	02/09/24 22:10	1
Anthracene	ND		0.56	0.038	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[a]anthracene	ND		0.33	0.038	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[a]pyrene	ND		0.20	0.14	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[b]fluoranthene	ND		0.33	0.070	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[g,h,i]perylene	ND		0.56	0.064	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[k]fluoranthene	ND	+	0.33	0.078	ug/L		02/08/24 10:57	02/09/24 22:10	1
Chrysene	ND		0.56	0.082	ug/L		02/08/24 10:57	02/09/24 22:10	1
Dibenz(a,h)anthracene	ND		0.56	0.078	ug/L		02/08/24 10:57	02/09/24 22:10	1
Fluoranthene	ND		0.56	0.089	ug/L		02/08/24 10:57	02/09/24 22:10	1
Fluorene	ND		0.56	0.064	ug/L		02/08/24 10:57	02/09/24 22:10	1
Indeno[1,2,3-cd]pyrene	ND		0.56	0.12	ug/L		02/08/24 10:57	02/09/24 22:10	1
Naphthalene	0.079	J	1.1	0.071	ug/L		02/08/24 10:57	02/09/24 22:10	1
Phenanthrene	ND		0.22	0.069	ug/L		02/08/24 10:57	02/09/24 22:10	1
Pyrene	ND		0.56	0.084	ug/L		02/08/24 10:57	02/09/24 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		37 - 120	02/08/24 10:57	02/09/24 22:10	1
Nitrobenzene-d5 (Surr)	73		26 - 120	02/08/24 10:57	02/09/24 22:10	1
p-Terphenyl-d14 (Surr)	90		64 - 127	02/08/24 10:57	02/09/24 22:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:53	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: DUP-20240205

Lab Sample ID: 480-216887-13

Date Collected: 02/05/24 00:00

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 23:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 23:14	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 23:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/07/24 23:14	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/07/24 23:14	1
Dibromofluoromethane (Surr)	101		75 - 123		02/07/24 23:14	1
Toluene-d8 (Surr)	104		80 - 120		02/07/24 23:14	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/08/24 10:57	02/09/24 22:38	1
Acenaphthylene	ND		0.32	0.059	ug/L		02/08/24 10:57	02/09/24 22:38	1
Anthracene	ND		0.53	0.036	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[k]fluoranthene	ND	+	0.32	0.074	ug/L		02/08/24 10:57	02/09/24 22:38	1
Chrysene	ND		0.53	0.078	ug/L		02/08/24 10:57	02/09/24 22:38	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/08/24 10:57	02/09/24 22:38	1
Fluoranthene	ND		0.53	0.084	ug/L		02/08/24 10:57	02/09/24 22:38	1
Fluorene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 22:38	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		02/08/24 10:57	02/09/24 22:38	1
Naphthalene	ND		1.1	0.067	ug/L		02/08/24 10:57	02/09/24 22:38	1
Phenanthrene	ND		0.21	0.065	ug/L		02/08/24 10:57	02/09/24 22:38	1
Pyrene	ND		0.53	0.080	ug/L		02/08/24 10:57	02/09/24 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	116		37 - 120	02/08/24 10:57	02/09/24 22:38	1
Nitrobenzene-d5 (Surr)	94		26 - 120	02/08/24 10:57	02/09/24 22:38	1
p-Terphenyl-d14 (Surr)	121		64 - 127	02/08/24 10:57	02/09/24 22:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:55	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-216887-14

Date Collected: 02/05/24 00:00

Matrix: WQ

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 23:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 23:36	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 23:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/07/24 23:36	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/07/24 23:36	1
Dibromofluoromethane (Surr)	103		75 - 123		02/07/24 23:36	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 23:36	1

Surrogate Summary

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

Job ID: 480-216887-1

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-216887-3	PRMW-1S	103	100	102	98
480-216887-4	PRMW-2D	102	102	102	102
480-216887-5	PRMW-2S	103	100	103	100
480-216887-6	PRMW-3D	104	98	102	101
480-216887-7	PRMW-3S	101	101	98	101
480-216887-7 MS	PRMW-3S MS	101	101	100	102
480-216887-7 MSD	PRMW-3S MSD	101	99	100	101
480-216887-8	PRMW-4S	101	100	100	103
480-216887-9	PRMW-5D	102	100	99	100
480-216887-10	PRMW-5S	102	101	101	102
480-216887-11	PRMW-6D	101	99	100	100
480-216887-12	PRMW-6S	100	101	100	101
480-216887-13	DUP-20240205	103	101	101	104

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-700098/6	Lab Control Sample	98	100	100	99
MB 480-700098/8	Method Blank	102	100	103	102

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-216887-1	EQUIPMENT BLANK-20240206	101	100	99	100
480-216887-2	FIELD BLANK-20240206	102	102	102	105
480-216887-14	TRIP BLANK	102	99	103	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Surrogate Summary

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

Job ID: 480-216887-1

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

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (37-120)	NBZ (26-120)	TPHd14 (64-127)
480-216887-3	PRMW-1S	99	81	93
480-216887-4	PRMW-2D	99	80	95
480-216887-5	PRMW-2S	98	79	93
480-216887-6	PRMW-3D	101	81	104
480-216887-7	PRMW-3S	115	92	112
480-216887-7 MS	PRMW-3S MS	105	100	67
480-216887-7 MSD	PRMW-3S MSD	110	106	78
480-216887-8	PRMW-4S	97	79	105
480-216887-9	PRMW-5D	110	90	104
480-216887-10	PRMW-5S	97	80	98
480-216887-11	PRMW-6D	117	94	118
480-216887-12	PRMW-6S	89	73	90
480-216887-13	DUP-20240205	116	94	121

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (37-120)	NBZ (26-120)	TPHd14 (64-127)
LCS 480-700227/2-A	Lab Control Sample	103	98	107
MB 480-700227/1-A	Method Blank	103	83	119

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: WQ

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (37-120)	NBZ (26-120)	TPHd14 (64-127)
480-216887-1	EQUIPMENT BLANK-20240206	98	78	109
480-216887-2	FIELD BLANK-20240206	102	83	117

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

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

Job ID: 480-216887-1

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

Lab Sample ID: MB 480-700098/8

Matrix: Water

Analysis Batch: 700098

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			02/07/24 15:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 15:07	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 15:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 15:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/07/24 15:07	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 15:07	1
Dibromofluoromethane (Surr)	103		75 - 123		02/07/24 15:07	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 15:07	1

Lab Sample ID: LCS 480-700098/6

Matrix: Water

Analysis Batch: 700098

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	24.3		ug/L		97	71 - 124
Ethylbenzene	25.0	25.6		ug/L		102	77 - 123
Toluene	25.0	24.4		ug/L		98	80 - 122
Xylenes, Total	50.0	51.1		ug/L		102	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 480-216887-7 MS

Matrix: Ground Water

Analysis Batch: 700098

Client Sample ID: PRMW-3S MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		25.0	27.1		ug/L		108	71 - 124
Ethylbenzene	ND		25.0	28.3		ug/L		113	77 - 123
Toluene	ND		25.0	27.9		ug/L		112	80 - 122
Xylenes, Total	ND		50.0	56.5		ug/L		113	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	102		80 - 120

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QC Sample Results

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

Job ID: 480-216887-1

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

Lab Sample ID: 480-216887-7 MSD

Matrix: Ground Water

Analysis Batch: 700098

Client Sample ID: PRMW-3S MSD

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	27.4		ug/L		110	71 - 124	1	13
Ethylbenzene	ND		25.0	28.4		ug/L		114	77 - 123	1	15
Toluene	ND		25.0	27.7		ug/L		111	80 - 122	1	15
Xylenes, Total	ND		50.0	56.3		ug/L		113	76 - 122	0	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	101		80 - 120

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

Lab Sample ID: MB 480-700227/1-A

Matrix: Water

Analysis Batch: 700337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 700227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		02/08/24 10:57	02/09/24 15:08	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/08/24 10:57	02/09/24 15:08	1
Anthracene	ND		0.50	0.034	ug/L		02/08/24 10:57	02/09/24 15:08	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/08/24 10:57	02/09/24 15:08	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/08/24 10:57	02/09/24 15:08	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		02/08/24 10:57	02/09/24 15:08	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		02/08/24 10:57	02/09/24 15:08	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		02/08/24 10:57	02/09/24 15:08	1
Chrysene	ND		0.50	0.074	ug/L		02/08/24 10:57	02/09/24 15:08	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		02/08/24 10:57	02/09/24 15:08	1
Fluoranthene	ND		0.50	0.080	ug/L		02/08/24 10:57	02/09/24 15:08	1
Fluorene	ND		0.50	0.058	ug/L		02/08/24 10:57	02/09/24 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/08/24 10:57	02/09/24 15:08	1
Naphthalene	ND		1.0	0.064	ug/L		02/08/24 10:57	02/09/24 15:08	1
Phenanthrene	ND		0.20	0.062	ug/L		02/08/24 10:57	02/09/24 15:08	1
Pyrene	ND		0.50	0.076	ug/L		02/08/24 10:57	02/09/24 15:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		37 - 120	02/08/24 10:57	02/09/24 15:08	1
Nitrobenzene-d5 (Surr)	83		26 - 120	02/08/24 10:57	02/09/24 15:08	1
p-Terphenyl-d14 (Surr)	119		64 - 127	02/08/24 10:57	02/09/24 15:08	1

Lab Sample ID: LCS 480-700227/2-A

Matrix: Water

Analysis Batch: 700337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 700227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	8.00	8.56		ug/L		107	62 - 120
Acenaphthylene	8.00	8.54		ug/L		107	57 - 120
Anthracene	8.00	9.20		ug/L		115	65 - 123

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QC Sample Results

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

Job ID: 480-216887-1

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

Lab Sample ID: LCS 480-700227/2-A

Matrix: Water

Analysis Batch: 700337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 700227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene	8.00	8.53		ug/L		107	77 - 123
Benzo[a]pyrene	8.00	8.88		ug/L		111	72 - 120
Benzo[b]fluoranthene	8.00	9.63		ug/L		120	73 - 123
Benzo[g,h,i]perylene	8.00	8.28		ug/L		103	48 - 150
Benzo[k]fluoranthene	8.00	9.67	*+	ug/L		121	68 - 120
Chrysene	8.00	8.91		ug/L		111	75 - 120
Dibenz(a,h)anthracene	8.00	8.74		ug/L		109	54 - 147
Fluoranthene	8.00	9.26		ug/L		116	74 - 133
Fluorene	8.00	8.68		ug/L		108	64 - 120
Indeno[1,2,3-cd]pyrene	8.00	9.21		ug/L		115	55 - 150
Naphthalene	8.00	7.76		ug/L		97	40 - 138
Phenanthrene	8.00	9.03		ug/L		113	71 - 122
Pyrene	8.00	9.18		ug/L		115	65 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	103		37 - 120
Nitrobenzene-d5 (Surr)	98		26 - 120
p-Terphenyl-d14 (Surr)	107		64 - 127

Lab Sample ID: 480-216887-7 MS

Matrix: Ground Water

Analysis Batch: 700337

Client Sample ID: PRMW-3S MS

Prep Type: Total/NA

Prep Batch: 700227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	ND		8.89	9.86		ug/L		111	35 - 125
Acenaphthylene	ND		8.89	9.54		ug/L		107	43 - 141
Anthracene	ND		8.89	10.1		ug/L		113	65 - 123
Benzo[a]anthracene	ND	F1 F2	8.89	4.88	F1	ug/L		55	68 - 132
Benzo[a]pyrene	ND	F1 F2	8.89	4.15	F1	ug/L		47	60 - 137
Benzo[b]fluoranthene	ND	F1 F2	8.89	3.84	F1	ug/L		43	68 - 129
Benzo[g,h,i]perylene	ND	F1 F2	8.89	4.03	F1	ug/L		45	48 - 150
Benzo[k]fluoranthene	ND	F1 *+ F2	8.89	4.43	F1	ug/L		50	55 - 142
Chrysene	ND	F1 F2	8.89	5.02	F1	ug/L		56	66 - 144
Dibenz(a,h)anthracene	ND	F1 F2	8.89	4.19	F1	ug/L		47	54 - 138
Fluoranthene	ND		8.89	9.15		ug/L		103	63 - 146
Fluorene	ND		8.89	10.0		ug/L		113	54 - 137
Indeno[1,2,3-cd]pyrene	ND	F1 F2	8.89	4.28	F1	ug/L		48	55 - 140
Naphthalene	0.32	J	8.89	8.80		ug/L		95	25 - 138
Phenanthrene	ND		8.89	10.1		ug/L		114	60 - 143
Pyrene	ND		8.89	9.38		ug/L		106	65 - 139

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	105		37 - 120
Nitrobenzene-d5 (Surr)	100		26 - 120
p-Terphenyl-d14 (Surr)	67		64 - 127

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QC Sample Results

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

Job ID: 480-216887-1

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

Lab Sample ID: 480-216887-7 MSD

Matrix: Ground Water

Analysis Batch: 700337

Client Sample ID: PRMW-3S MSD

Prep Type: Total/NA

Prep Batch: 700227

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		9.09	10.5		ug/L		116	35 - 125	6	24
Acenaphthylene	ND		9.09	10.4		ug/L		114	43 - 141	8	18
Anthracene	ND		9.09	10.8		ug/L		119	65 - 123	7	15
Benzo[a]anthracene	ND	F1 F2	9.09	6.76	F2	ug/L		74	68 - 132	32	15
Benzo[a]pyrene	ND	F1 F2	9.09	6.29	F2	ug/L		69	60 - 137	41	15
Benzo[b]fluoranthene	ND	F1 F2	9.09	6.42	F2	ug/L		71	68 - 129	50	15
Benzo[g,h,i]perylene	ND	F1 F2	9.09	6.14	F2	ug/L		68	48 - 150	41	15
Benzo[k]fluoranthene	ND	F1 *+ F2	9.09	6.61	F2	ug/L		73	55 - 142	40	22
Chrysene	ND	F1 F2	9.09	7.16	F2	ug/L		79	66 - 144	35	15
Dibenz(a,h)anthracene	ND	F1 F2	9.09	6.46	F2	ug/L		71	54 - 138	43	15
Fluoranthene	ND		9.09	10.4		ug/L		115	63 - 146	13	15
Fluorene	ND		9.09	10.7		ug/L		117	54 - 137	6	15
Indeno[1,2,3-cd]pyrene	ND	F1 F2	9.09	6.64	F2	ug/L		73	55 - 140	43	15
Naphthalene	0.32	J	9.09	9.57		ug/L		102	25 - 138	8	29
Phenanthrene	ND		9.09	11.2		ug/L		123	60 - 143	10	15
Pyrene	ND		9.09	10.3		ug/L		113	65 - 139	9	19

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	110		37 - 120
Nitrobenzene-d5 (Surr)	106		26 - 120
p-Terphenyl-d14 (Surr)	78		64 - 127

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-700345/21

Matrix: Water

Analysis Batch: 700345

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			02/08/24 19:46	1

Lab Sample ID: MB 480-700345/47

Matrix: Water

Analysis Batch: 700345

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00430	J	0.010	0.0041	mg/L			02/08/24 20:55	1

Lab Sample ID: HLCS 480-700345/22

Matrix: Water

Analysis Batch: 700345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.387		mg/L		97	90 - 110

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QC Sample Results

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

Job ID: 480-216887-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-700345/23

Matrix: Water

Analysis Batch: 700345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Lab Sample ID: LCS 480-700345/48

Matrix: Water

Analysis Batch: 700345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.247		mg/L		99	90 - 110

Lab Sample ID: 480-216887-1 MS

Matrix: WQ

Analysis Batch: 700345

Client Sample ID: EQUIPMENT BLANK-20240206

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND		0.100	0.0946		mg/L		95	90 - 110

Lab Sample ID: 480-216887-2 MS

Matrix: WQ

Analysis Batch: 700345

Client Sample ID: FIELD BLANK-20240206

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0046	J B F1	0.100	0.0908	F1	mg/L		86	90 - 110

Lab Sample ID: 480-216887-7 MS

Matrix: Ground Water

Analysis Batch: 700345

Client Sample ID: PRMW-3S MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0065	J B	0.100	0.0994		mg/L		93	90 - 110

Lab Sample ID: 480-216887-7 MSD

Matrix: Ground Water

Analysis Batch: 700345

Client Sample ID: PRMW-3S MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0065	J B	0.100	0.100		mg/L		94	90 - 110	1	15

Lab Sample ID: 480-216887-2 DU

Matrix: WQ

Analysis Batch: 700345

Client Sample ID: FIELD BLANK-20240206

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.0046	J B F1	ND		mg/L		NC	15

QC Association Summary

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

Job ID: 480-216887-1

GC/MS VOA

Analysis Batch: 700098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216887-1	EQUIPMENT BLANK-20240206	Total/NA	WQ	8260C	
480-216887-2	FIELD BLANK-20240206	Total/NA	WQ	8260C	
480-216887-3	PRMW-1S	Total/NA	Ground Water	8260C	
480-216887-4	PRMW-2D	Total/NA	Ground Water	8260C	
480-216887-5	PRMW-2S	Total/NA	Ground Water	8260C	
480-216887-6	PRMW-3D	Total/NA	Ground Water	8260C	
480-216887-7	PRMW-3S	Total/NA	Ground Water	8260C	
480-216887-8	PRMW-4S	Total/NA	Ground Water	8260C	
480-216887-9	PRMW-5D	Total/NA	Ground Water	8260C	
480-216887-10	PRMW-5S	Total/NA	Ground Water	8260C	
480-216887-11	PRMW-6D	Total/NA	Ground Water	8260C	
480-216887-12	PRMW-6S	Total/NA	Ground Water	8260C	
480-216887-13	DUP-20240205	Total/NA	Ground Water	8260C	
480-216887-14	TRIP BLANK	Total/NA	WQ	8260C	
MB 480-700098/8	Method Blank	Total/NA	Water	8260C	
LCS 480-700098/6	Lab Control Sample	Total/NA	Water	8260C	
480-216887-7 MS	PRMW-3S MS	Total/NA	Ground Water	8260C	
480-216887-7 MSD	PRMW-3S MSD	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 700227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216887-1	EQUIPMENT BLANK-20240206	Total/NA	WQ	3510C	
480-216887-2	FIELD BLANK-20240206	Total/NA	WQ	3510C	
480-216887-3	PRMW-1S	Total/NA	Ground Water	3510C	
480-216887-4	PRMW-2D	Total/NA	Ground Water	3510C	
480-216887-5	PRMW-2S	Total/NA	Ground Water	3510C	
480-216887-6	PRMW-3D	Total/NA	Ground Water	3510C	
480-216887-7	PRMW-3S	Total/NA	Ground Water	3510C	
480-216887-8	PRMW-4S	Total/NA	Ground Water	3510C	
480-216887-9	PRMW-5D	Total/NA	Ground Water	3510C	
480-216887-10	PRMW-5S	Total/NA	Ground Water	3510C	
480-216887-11	PRMW-6D	Total/NA	Ground Water	3510C	
480-216887-12	PRMW-6S	Total/NA	Ground Water	3510C	
480-216887-13	DUP-20240205	Total/NA	Ground Water	3510C	
MB 480-700227/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-700227/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-216887-7 MS	PRMW-3S MS	Total/NA	Ground Water	3510C	
480-216887-7 MSD	PRMW-3S MSD	Total/NA	Ground Water	3510C	

Analysis Batch: 700337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216887-1	EQUIPMENT BLANK-20240206	Total/NA	WQ	8270D LL	700227
480-216887-2	FIELD BLANK-20240206	Total/NA	WQ	8270D LL	700227
480-216887-3	PRMW-1S	Total/NA	Ground Water	8270D LL	700227
480-216887-4	PRMW-2D	Total/NA	Ground Water	8270D LL	700227
480-216887-5	PRMW-2S	Total/NA	Ground Water	8270D LL	700227
480-216887-6	PRMW-3D	Total/NA	Ground Water	8270D LL	700227
480-216887-7	PRMW-3S	Total/NA	Ground Water	8270D LL	700227
480-216887-8	PRMW-4S	Total/NA	Ground Water	8270D LL	700227

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QC Association Summary

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

Job ID: 480-216887-1

GC/MS Semi VOA (Continued)

Analysis Batch: 700337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216887-9	PRMW-5D	Total/NA	Ground Water	8270D LL	700227
480-216887-10	PRMW-5S	Total/NA	Ground Water	8270D LL	700227
480-216887-11	PRMW-6D	Total/NA	Ground Water	8270D LL	700227
480-216887-12	PRMW-6S	Total/NA	Ground Water	8270D LL	700227
480-216887-13	DUP-20240205	Total/NA	Ground Water	8270D LL	700227
MB 480-700227/1-A	Method Blank	Total/NA	Water	8270D LL	700227
LCS 480-700227/2-A	Lab Control Sample	Total/NA	Water	8270D LL	700227
480-216887-7 MS	PRMW-3S MS	Total/NA	Ground Water	8270D LL	700227
480-216887-7 MSD	PRMW-3S MSD	Total/NA	Ground Water	8270D LL	700227

General Chemistry

Analysis Batch: 700345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-216887-1	EQUIPMENT BLANK-20240206	Total/NA	WQ	9012B	
480-216887-2	FIELD BLANK-20240206	Total/NA	WQ	9012B	
480-216887-3	PRMW-1S	Total/NA	Ground Water	9012B	
480-216887-4	PRMW-2D	Total/NA	Ground Water	9012B	
480-216887-5	PRMW-2S	Total/NA	Ground Water	9012B	
480-216887-6	PRMW-3D	Total/NA	Ground Water	9012B	
480-216887-7	PRMW-3S	Total/NA	Ground Water	9012B	
480-216887-8	PRMW-4S	Total/NA	Ground Water	9012B	
480-216887-9	PRMW-5D	Total/NA	Ground Water	9012B	
480-216887-10	PRMW-5S	Total/NA	Ground Water	9012B	
480-216887-11	PRMW-6D	Total/NA	Ground Water	9012B	
480-216887-12	PRMW-6S	Total/NA	Ground Water	9012B	
480-216887-13	DUP-20240205	Total/NA	Ground Water	9012B	
MB 480-700345/21	Method Blank	Total/NA	Water	9012B	
MB 480-700345/47	Method Blank	Total/NA	Water	9012B	
HLCS 480-700345/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-700345/23	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-700345/48	Lab Control Sample	Total/NA	Water	9012B	
480-216887-1 MS	EQUIPMENT BLANK-20240206	Total/NA	WQ	9012B	
480-216887-2 MS	FIELD BLANK-20240206	Total/NA	WQ	9012B	
480-216887-7 MS	PRMW-3S MS	Total/NA	Ground Water	9012B	
480-216887-7 MSD	PRMW-3S MSD	Total/NA	Ground Water	9012B	
480-216887-2 DU	FIELD BLANK-20240206	Total/NA	WQ	9012B	

Lab Chronicle

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

Job ID: 480-216887-1

Client Sample ID: EQUIPMENT BLANK-20240206

Lab Sample ID: 480-216887-1

Date Collected: 02/06/24 12:15

Matrix: WQ

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 18:48
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 17:30
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 20:18

Client Sample ID: FIELD BLANK-20240206

Lab Sample ID: 480-216887-2

Date Collected: 02/06/24 11:20

Matrix: WQ

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 19:10
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 17:58
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:02

Client Sample ID: PRMW-1S

Lab Sample ID: 480-216887-3

Date Collected: 02/05/24 11:40

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 19:32
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 18:26
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:13

Client Sample ID: PRMW-2D

Lab Sample ID: 480-216887-4

Date Collected: 02/05/24 13:15

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 19:54
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 18:53
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:15

Client Sample ID: PRMW-2S

Lab Sample ID: 480-216887-5

Date Collected: 02/05/24 14:30

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 20:17
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 19:21
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:18

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-216887-1

Client Sample ID: PRMW-3D

Lab Sample ID: 480-216887-6

Date Collected: 02/05/24 15:35

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 20:39
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 19:50
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:20

Client Sample ID: PRMW-3S

Lab Sample ID: 480-216887-7

Date Collected: 02/05/24 13:15

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 21:01
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 17:01
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:35

Client Sample ID: PRMW-4S

Lab Sample ID: 480-216887-8

Date Collected: 02/05/24 11:40

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 21:23
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 20:18
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:42

Client Sample ID: PRMW-5D

Lab Sample ID: 480-216887-9

Date Collected: 02/06/24 11:25

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 21:45
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 20:47
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:45

Client Sample ID: PRMW-5S

Lab Sample ID: 480-216887-10

Date Collected: 02/06/24 10:10

Matrix: Ground Water

Date Received: 02/07/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 22:08
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 21:15
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:47

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-216887-1

Client Sample ID: PRMW-6D

Date Collected: 02/06/24 10:50

Date Received: 02/07/24 10:30

Lab Sample ID: 480-216887-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 22:30
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 21:43
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:50

Client Sample ID: PRMW-6S

Date Collected: 02/06/24 09:50

Date Received: 02/07/24 10:30

Lab Sample ID: 480-216887-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 22:52
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 22:10
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:53

Client Sample ID: DUP-20240205

Date Collected: 02/05/24 00:00

Date Received: 02/07/24 10:30

Lab Sample ID: 480-216887-13

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 23:14
Total/NA	Prep	3510C			700227	JMP	EET BUF	02/08/24 10:57
Total/NA	Analysis	8270D LL		1	700337	EMD	EET BUF	02/09/24 22:38
Total/NA	Analysis	9012B		1	700345	GW	EET BUF	02/08/24 21:55

Client Sample ID: TRIP BLANK

Date Collected: 02/05/24 00:00

Date Received: 02/07/24 10:30

Lab Sample ID: 480-216887-14

Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	700098	AXK	EET BUF	02/07/24 23:36

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 480-216887-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

- 1
- 2
- 3
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- 14
- 15

Method Summary

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

Job ID: 480-216887-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 480-216887-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-216887-1	EQUIPMENT BLANK-20240206	WQ	02/06/24 12:15	02/07/24 10:30
480-216887-2	FIELD BLANK-20240206	WQ	02/06/24 11:20	02/07/24 10:30
480-216887-3	PRMW-1S	Ground Water	02/05/24 11:40	02/07/24 10:30
480-216887-4	PRMW-2D	Ground Water	02/05/24 13:15	02/07/24 10:30
480-216887-5	PRMW-2S	Ground Water	02/05/24 14:30	02/07/24 10:30
480-216887-6	PRMW-3D	Ground Water	02/05/24 15:35	02/07/24 10:30
480-216887-7	PRMW-3S	Ground Water	02/05/24 13:15	02/07/24 10:30
480-216887-8	PRMW-4S	Ground Water	02/05/24 11:40	02/07/24 10:30
480-216887-9	PRMW-5D	Ground Water	02/06/24 11:25	02/07/24 10:30
480-216887-10	PRMW-5S	Ground Water	02/06/24 10:10	02/07/24 10:30
480-216887-11	PRMW-6D	Ground Water	02/06/24 10:50	02/07/24 10:30
480-216887-12	PRMW-6S	Ground Water	02/06/24 09:50	02/07/24 10:30
480-216887-13	DUP-20240205	Ground Water	02/05/24 00:00	02/07/24 10:30
480-216887-14	TRIP BLANK	WQ	02/05/24 00:00	02/07/24 10:30

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

Chain of Custody Record

Client Information		Lab PM		COC No	
1601 Wyn Fleming & Bailey L.		Schove, John R		480-192151-36782.1	
Phone (619-727-1921)		E-Mail John.Schove@et.eurofinsus.com		Page 1 of 2	
Company ARCADIS US Inc		PWSID:		Job #	
Address: 2995 Woodcliff Drive, Suite 301		City Fairport		State of New York	
Fairport		State Zip: NY, 14450		Page 1 of 2	
Phone:		PO # 4506273390		Job #	
Email: nicholas.beyrle@arcadis.com		WO #		Job #	
Project Name: NYSEG Former MGP Site - Penn Yan		Project # 48024595		Job #	
Site New York		SSOW#		Job #	
Sample Identification		Sample Date		Sample Time	
PRMW-1S		2/5/2024		1140	
PRMW-2S		2/5/2024		1315	
PRMW-2D		2/5/2024		1430	
PRMW-3S		2/5/2024		1315	
PRMW-3D		2/5/2024		1535	
PRMW-4S		2/5/2024		1140	
PRMW-5S		2/6/2024		1010	
PRMW-5D		2/6/2024		1125	
PRMW-6S		2/6/2024		0950	
PRMW-6D		2/6/2024		1050	
PRMW-6D		2/5/2024		---	
Possible Hazard Identification		Empty Kit Relinquished by:		Date:	
Non-Hazard		Empty Kit Relinquished by:		Date:	
Flammable		Empty Kit Relinquished by:		Date:	
Skin Irritant		Empty Kit Relinquished by:		Date:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Empty Kit Relinquished by:		Date:	
Return To Client		Empty Kit Relinquished by:		Date:	
Disposal By Lab		Empty Kit Relinquished by:		Date:	
Archive For		Empty Kit Relinquished by:		Date:	
Months		Empty Kit Relinquished by:		Date:	
Special Instructions/QC Requirements:		Empty Kit Relinquished by:		Date:	
Matrix (Water, Soil, Other)		Empty Kit Relinquished by:		Date:	
Sample Type (G=grab, G=grab)		Empty Kit Relinquished by:		Date:	
Preservation Code		Empty Kit Relinquished by:		Date:	
Field Filtered Sample (Yes or No)		Empty Kit Relinquished by:		Date:	
Perform MS/MSD (Yes or No)		Empty Kit Relinquished by:		Date:	
8260C - BTEX		Empty Kit Relinquished by:		Date:	
8270D - LL - Low Level PAH Semivolatiles		Empty Kit Relinquished by:		Date:	
9012B - Cyanide, Total		Empty Kit Relinquished by:		Date:	
Total Number of Containers		Empty Kit Relinquished by:		Date:	
Special Instructions/Note:		Empty Kit Relinquished by:		Date:	
M - Hexane		Empty Kit Relinquished by:		Date:	
N - None		Empty Kit Relinquished by:		Date:	
O - AsNaO2		Empty Kit Relinquished by:		Date:	
P - Na2O4S		Empty Kit Relinquished by:		Date:	
Q - Na2SO3		Empty Kit Relinquished by:		Date:	
R - Na2S2O3		Empty Kit Relinquished by:		Date:	
S - H2SO4		Empty Kit Relinquished by:		Date:	
T - TSP Dodecahydral		Empty Kit Relinquished by:		Date:	
U - Acetone		Empty Kit Relinquished by:		Date:	
V - MCAA		Empty Kit Relinquished by:		Date:	
W - pH 4-5		Empty Kit Relinquished by:		Date:	
Y - Trizma		Empty Kit Relinquished by:		Date:	
Z - other (specify)		Empty Kit Relinquished by:		Date:	
Other:		Empty Kit Relinquished by:		Date:	
J - DI Water		Empty Kit Relinquished by:		Date:	
K - EDTA		Empty Kit Relinquished by:		Date:	
L - EDA		Empty Kit Relinquished by:		Date:	
Preservation Codes:		Empty Kit Relinquished by:		Date:	
HCL		Empty Kit Relinquished by:		Date:	
NaOH		Empty Kit Relinquished by:		Date:	
Zn Acetate		Empty Kit Relinquished by:		Date:	
Nitric Acid		Empty Kit Relinquished by:		Date:	
NaHSO4		Empty Kit Relinquished by:		Date:	
MeOH		Empty Kit Relinquished by:		Date:	
Ascorbic Acid		Empty Kit Relinquished by:		Date:	
Ice		Empty Kit Relinquished by:		Date:	
480-216887 Chain of Custody		Empty Kit Relinquished by:		Date:	
Barcode		Empty Kit Relinquished by:		Date:	
Analysis Requested		Empty Kit Relinquished by:		Date:	
Date Requested:		Empty Kit Relinquished by:		Date:	
TAT Requested (days):		Empty Kit Relinquished by:		Date:	
Standard		Empty Kit Relinquished by:		Date:	
Compliance Project: Δ Yes Δ No		Empty Kit Relinquished by:		Date:	
PO #		Empty Kit Relinquished by:		Date:	
4506273390		Empty Kit Relinquished by:		Date:	
WO #		Empty Kit Relinquished by:		Date:	
Project #		Empty Kit Relinquished by:		Date:	
48024595		Empty Kit Relinquished by:		Date:	
SSOW#		Empty Kit Relinquished by:		Date:	
Relinquished by:		Empty Kit Relinquished by:		Date:	
Relinquished by:		Empty Kit Relinquished by:		Date:	
Relinquished by:		Empty Kit Relinquished by:		Date:	
Custody Seal No.:		Empty Kit Relinquished by:		Date:	
Δ Yes Δ No		Empty Kit Relinquished by:		Date:	

Client Information Client Name: <u>Nicholas Beyle</u> Client Contact: <u>ARCADIS US Inc</u> Address: <u>295 Woodcliff Drive, Suite 301</u> City: <u>Fairport</u> State: <u>NY</u> Zip: <u>14450</u> Phone: _____			Carrier Tracking No(s): <u>480-192151-36782.2</u> State of Origin: <u>Syracuse</u> Page 2 of 2 Job #: <u>#225</u>		
Due Date Requested: _____ TAT Requested (days): <u>Standard</u> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: <u>4506273390</u> WO #: _____ Project #: <u>48024595</u> SSOW#: _____			Lab PM: <u>Schove, John R</u> E-Mail: <u>John.Schove@et.eurofinsus.com</u>		
Sample Identification Sample ID: <u>125/2024</u> Sample Description: <u>Trip Blank</u> FIELD BLANK - 20240206 EQUIPMENT BLANK - 20240206			Analysis Requested: _____ Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other: _____		
Sample Date: _____ Sample Time: _____ Sample Type (C=comp, G=grab): _____ Matrix (Water, Soil, Other): _____ Preservation Code: _____			Special Instructions/Note: _____		
Sample Date: <u>1/25/2024</u> Sample Time: _____ Sample Type: _____ Matrix: _____ Preservation Code: _____			Special Instructions/Note: _____		
Sample Date: <u>2/6/2024</u> Sample Time: <u>1120</u> Sample Type: _____ Matrix: _____ Preservation Code: _____			Special Instructions/Note: _____		
Sample Date: <u>2/6/2024</u> Sample Time: <u>1215</u> Sample Type: _____ Matrix: _____ Preservation Code: _____			Special Instructions/Note: _____		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) _____

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

Empty Kit Relinquished by: _____ Date: _____		Method of Shipment: _____	
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____	Received by: _____ Received by: _____ Received by: _____	Date/Time: <u>2-6-24 1536</u> Date/Time: _____ Date/Time: _____	Company: <u>Acadix</u> Company: _____ Company: _____

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Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-216887-1

Login Number: 216887

List Number: 1

Creator: Stopa, Erik S

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.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. John J Ruspantini
New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Generated 9/9/2024 5:40:08 PM

JOB DESCRIPTION

NYSEG Former MGP Site - Penn Yan
NYSEG - Penn Yan Former MGP

JOB NUMBER

480-222956-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

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

Job ID: 480-222956-1

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
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
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.

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
Project: NYSEG Former MGP Site - Penn Yan

Job ID: 480-222956-1

Job ID: 480-222956-1

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Job Narrative 480-222956-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/29/2024 12:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 10.1°C, 10.3°C and 10.5°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 due to color, appearance, and viscosity: PRMW-5S (480-222956-7). Elevated reporting limits (RL) are provided.

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

General Chemistry

Method 9012B_NP: The continuing calibration verification (CCV) associated with batch 480-724217 recovered above the upper control limit for Cyanide, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. PRMW-1S (480-222956-1), PRMW-2D (480-222956-3), PRMW-3D (480-222956-5) and PRMW-4S (480-222956-6)

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

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Detection Summary

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

Job ID: 480-222956-1

Client Sample ID: PRMW-1S

Lab Sample ID: 480-222956-1

No Detections.

Client Sample ID: PRMW-2S

Lab Sample ID: 480-222956-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.11	F1	0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-2D

Lab Sample ID: 480-222956-3

No Detections.

Client Sample ID: PRMW-3S

Lab Sample ID: 480-222956-4

No Detections.

Client Sample ID: PRMW-3D

Lab Sample ID: 480-222956-5

No Detections.

Client Sample ID: PRMW-4S

Lab Sample ID: 480-222956-6

No Detections.

Client Sample ID: PRMW-5S

Lab Sample ID: 480-222956-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.9		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0	0.74	ug/L	1		8260C	Total/NA
Acenaphthene	4.5		2.4	0.17	ug/L	5		8270D LL	Total/NA
Acenaphthylene	0.61	J	1.4	0.27	ug/L	5		8270D LL	Total/NA
Anthracene	0.19	J	2.4	0.16	ug/L	5		8270D LL	Total/NA
Fluoranthene	0.66	J	2.4	0.38	ug/L	5		8270D LL	Total/NA
Fluorene	1.6	J	2.4	0.28	ug/L	5		8270D LL	Total/NA
Naphthalene	3.4	J	4.8	0.30	ug/L	5		8270D LL	Total/NA
Phenanthrene	0.37	J	0.95	0.30	ug/L	5		8270D LL	Total/NA
Pyrene	0.40	J	2.4	0.36	ug/L	5		8270D LL	Total/NA
Cyanide, Total	0.020		0.010	0.0041	mg/L	1		9012B	Total/NA

Client Sample ID: PRMW-5D

Lab Sample ID: 480-222956-8

No Detections.

Client Sample ID: PRMW-6S

Lab Sample ID: 480-222956-9

No Detections.

Client Sample ID: PRMW-6D

Lab Sample ID: 480-222956-10

No Detections.

Client Sample ID: DUP-20240829

Lab Sample ID: 480-222956-11

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-222956-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.52	J	1.0	0.51	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-1S

Lab Sample ID: 480-222956-1

Date Collected: 08/28/24 10:40

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 00:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 00:16	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 00:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		08/30/24 00:16	1
4-Bromofluorobenzene (Surr)	105		73 - 120		08/30/24 00:16	1
Dibromofluoromethane (Surr)	112		75 - 123		08/30/24 00:16	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 00:16	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		08/30/24 13:14	09/03/24 13:20	1
Acenaphthylene	ND		0.32	0.059	ug/L		08/30/24 13:14	09/03/24 13:20	1
Anthracene	ND		0.53	0.036	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[k]fluoranthene	ND		0.32	0.074	ug/L		08/30/24 13:14	09/03/24 13:20	1
Chrysene	ND		0.53	0.078	ug/L		08/30/24 13:14	09/03/24 13:20	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		08/30/24 13:14	09/03/24 13:20	1
Fluoranthene	ND		0.53	0.084	ug/L		08/30/24 13:14	09/03/24 13:20	1
Fluorene	ND		0.53	0.061	ug/L		08/30/24 13:14	09/03/24 13:20	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		08/30/24 13:14	09/03/24 13:20	1
Naphthalene	ND		1.1	0.067	ug/L		08/30/24 13:14	09/03/24 13:20	1
Phenanthrene	ND		0.21	0.065	ug/L		08/30/24 13:14	09/03/24 13:20	1
Pyrene	ND		0.53	0.080	ug/L		08/30/24 13:14	09/03/24 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		37 - 120	08/30/24 13:14	09/03/24 13:20	1
Nitrobenzene-d5 (Surr)	81		26 - 120	08/30/24 13:14	09/03/24 13:20	1
p-Terphenyl-d14 (Surr)	106		64 - 127	08/30/24 13:14	09/03/24 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	^+	0.010	0.0041	mg/L			09/06/24 10:20	1

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Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-2S

Lab Sample ID: 480-222956-2

Date Collected: 08/28/24 12:05

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 00:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 00:38	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 00:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		08/30/24 00:38	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 00:38	1
Dibromofluoromethane (Surr)	109		75 - 123		08/30/24 00:38	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 00:38	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		08/30/24 13:14	09/03/24 13:47	1
Acenaphthylene	ND		0.31	0.058	ug/L		08/30/24 13:14	09/03/24 13:47	1
Anthracene	ND		0.52	0.035	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[b]fluoranthene	ND		0.31	0.066	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[k]fluoranthene	ND		0.31	0.073	ug/L		08/30/24 13:14	09/03/24 13:47	1
Chrysene	ND		0.52	0.077	ug/L		08/30/24 13:14	09/03/24 13:47	1
Dibenz(a,h)anthracene	ND		0.52	0.073	ug/L		08/30/24 13:14	09/03/24 13:47	1
Fluoranthene	ND		0.52	0.083	ug/L		08/30/24 13:14	09/03/24 13:47	1
Fluorene	ND		0.52	0.060	ug/L		08/30/24 13:14	09/03/24 13:47	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		08/30/24 13:14	09/03/24 13:47	1
Naphthalene	ND		1.0	0.067	ug/L		08/30/24 13:14	09/03/24 13:47	1
Phenanthrene	ND		0.21	0.065	ug/L		08/30/24 13:14	09/03/24 13:47	1
Pyrene	ND		0.52	0.079	ug/L		08/30/24 13:14	09/03/24 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		37 - 120	08/30/24 13:14	09/03/24 13:47	1
Nitrobenzene-d5 (Surr)	80		26 - 120	08/30/24 13:14	09/03/24 13:47	1
p-Terphenyl-d14 (Surr)	105		64 - 127	08/30/24 13:14	09/03/24 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	F1	0.010	0.0041	mg/L			09/09/24 09:23	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-2D

Lab Sample ID: 480-222956-3

Date Collected: 08/28/24 13:25

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 01:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 01:00	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 01:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		08/30/24 01:00	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 01:00	1
Dibromofluoromethane (Surr)	109		75 - 123		08/30/24 01:00	1
Toluene-d8 (Surr)	111		80 - 120		08/30/24 01:00	1

Method: SW846 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		08/30/24 13:14	09/03/24 14:15	1
Acenaphthylene	ND		0.30	0.056	ug/L		08/30/24 13:14	09/03/24 14:15	1
Anthracene	ND		0.50	0.034	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		08/30/24 13:14	09/03/24 14:15	1
Chrysene	ND		0.50	0.074	ug/L		08/30/24 13:14	09/03/24 14:15	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		08/30/24 13:14	09/03/24 14:15	1
Fluoranthene	ND		0.50	0.080	ug/L		08/30/24 13:14	09/03/24 14:15	1
Fluorene	ND		0.50	0.058	ug/L		08/30/24 13:14	09/03/24 14:15	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		08/30/24 13:14	09/03/24 14:15	1
Naphthalene	ND		1.0	0.064	ug/L		08/30/24 13:14	09/03/24 14:15	1
Phenanthrene	ND		0.20	0.062	ug/L		08/30/24 13:14	09/03/24 14:15	1
Pyrene	ND		0.50	0.076	ug/L		08/30/24 13:14	09/03/24 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		37 - 120	08/30/24 13:14	09/03/24 14:15	1
Nitrobenzene-d5 (Surr)	77		26 - 120	08/30/24 13:14	09/03/24 14:15	1
p-Terphenyl-d14 (Surr)	107		64 - 127	08/30/24 13:14	09/03/24 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	^+	0.010	0.0041	mg/L			09/06/24 10:42	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-3S

Lab Sample ID: 480-222956-4

Date Collected: 08/28/24 12:40

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 01:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 01:22	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 01:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		08/30/24 01:22	1
4-Bromofluorobenzene (Surr)	105		73 - 120		08/30/24 01:22	1
Dibromofluoromethane (Surr)	111		75 - 123		08/30/24 01:22	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 01:22	1

Method: SW846 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		08/30/24 13:14	09/03/24 12:52	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 12:52	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 12:52	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 12:52	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 12:52	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 12:52	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 12:52	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 12:52	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 12:52	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 12:52	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		37 - 120	08/30/24 13:14	09/03/24 12:52	1
Nitrobenzene-d5 (Surr)	81		26 - 120	08/30/24 13:14	09/03/24 12:52	1
p-Terphenyl-d14 (Surr)	110		64 - 127	08/30/24 13:14	09/03/24 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			09/06/24 11:35	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-3D

Lab Sample ID: 480-222956-5

Date Collected: 08/28/24 14:45

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 01:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 01:44	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 01:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 01:44	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 01:44	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 01:44	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 01:44	1

Method: SW846 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		08/30/24 13:14	09/03/24 14:42	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 14:42	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 14:42	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 14:42	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 14:42	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 14:42	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 14:42	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 14:42	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 14:42	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 14:42	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		37 - 120	08/30/24 13:14	09/03/24 14:42	1
Nitrobenzene-d5 (Surr)	75		26 - 120	08/30/24 13:14	09/03/24 14:42	1
p-Terphenyl-d14 (Surr)	104		64 - 127	08/30/24 13:14	09/03/24 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	^+	0.010	0.0041	mg/L			09/06/24 10:48	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-4S

Lab Sample ID: 480-222956-6

Date Collected: 08/28/24 09:20

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 02:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 02:06	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 02:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		08/30/24 02:06	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 02:06	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 02:06	1
Toluene-d8 (Surr)	111		80 - 120		08/30/24 02:06	1

Method: SW846 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		08/30/24 13:14	09/03/24 15:10	1
Acenaphthylene	ND		0.30	0.057	ug/L		08/30/24 13:14	09/03/24 15:10	1
Anthracene	ND		0.51	0.034	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[b]fluoranthene	ND		0.30	0.064	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[k]fluoranthene	ND		0.30	0.071	ug/L		08/30/24 13:14	09/03/24 15:10	1
Chrysene	ND		0.51	0.075	ug/L		08/30/24 13:14	09/03/24 15:10	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		08/30/24 13:14	09/03/24 15:10	1
Fluoranthene	ND		0.51	0.081	ug/L		08/30/24 13:14	09/03/24 15:10	1
Fluorene	ND		0.51	0.059	ug/L		08/30/24 13:14	09/03/24 15:10	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		08/30/24 13:14	09/03/24 15:10	1
Naphthalene	ND		1.0	0.065	ug/L		08/30/24 13:14	09/03/24 15:10	1
Phenanthrene	ND		0.20	0.063	ug/L		08/30/24 13:14	09/03/24 15:10	1
Pyrene	ND		0.51	0.077	ug/L		08/30/24 13:14	09/03/24 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		37 - 120	08/30/24 13:14	09/03/24 15:10	1
Nitrobenzene-d5 (Surr)	82		26 - 120	08/30/24 13:14	09/03/24 15:10	1
p-Terphenyl-d14 (Surr)	106		64 - 127	08/30/24 13:14	09/03/24 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	^+	0.010	0.0041	mg/L			09/06/24 10:51	1

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-5S

Lab Sample ID: 480-222956-7

Date Collected: 08/28/24 08:35

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.9		1.0	0.41	ug/L			08/30/24 02:28	1
Ethylbenzene	1.1		1.0	0.74	ug/L			08/30/24 02:28	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 02:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		08/30/24 02:28	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 02:28	1
Dibromofluoromethane (Surr)	111		75 - 123		08/30/24 02:28	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 02:28	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.5		2.4	0.17	ug/L		08/30/24 13:14	09/03/24 15:37	5
Acenaphthylene	0.61	J	1.4	0.27	ug/L		08/30/24 13:14	09/03/24 15:37	5
Anthracene	0.19	J	2.4	0.16	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[a]anthracene	ND		1.4	0.16	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[a]pyrene	ND		0.86	0.62	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[b]fluoranthene	ND		1.4	0.30	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[g,h,i]perylene	ND		2.4	0.28	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[k]fluoranthene	ND		1.4	0.33	ug/L		08/30/24 13:14	09/03/24 15:37	5
Chrysene	ND		2.4	0.35	ug/L		08/30/24 13:14	09/03/24 15:37	5
Dibenz(a,h)anthracene	ND		2.4	0.33	ug/L		08/30/24 13:14	09/03/24 15:37	5
Fluoranthene	0.66	J	2.4	0.38	ug/L		08/30/24 13:14	09/03/24 15:37	5
Fluorene	1.6	J	2.4	0.28	ug/L		08/30/24 13:14	09/03/24 15:37	5
Indeno[1,2,3-cd]pyrene	ND		2.4	0.52	ug/L		08/30/24 13:14	09/03/24 15:37	5
Naphthalene	3.4	J	4.8	0.30	ug/L		08/30/24 13:14	09/03/24 15:37	5
Phenanthrene	0.37	J	0.95	0.30	ug/L		08/30/24 13:14	09/03/24 15:37	5
Pyrene	0.40	J	2.4	0.36	ug/L		08/30/24 13:14	09/03/24 15:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		37 - 120	08/30/24 13:14	09/03/24 15:37	5
Nitrobenzene-d5 (Surr)	48		26 - 120	08/30/24 13:14	09/03/24 15:37	5
p-Terphenyl-d14 (Surr)	72		64 - 127	08/30/24 13:14	09/03/24 15:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.020		0.010	0.0041	mg/L			09/09/24 09:29	1

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Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-5D

Lab Sample ID: 480-222956-8

Date Collected: 08/28/24 14:40

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 02:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 02:50	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 02:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 02:50	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 02:50	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 02:50	1
Toluene-d8 (Surr)	113		80 - 120		08/30/24 02:50	1

Method: SW846 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		08/30/24 13:14	09/03/24 16:05	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 16:05	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 16:05	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 16:05	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 16:05	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 16:05	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:05	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 16:05	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 16:05	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 16:05	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		37 - 120	08/30/24 13:14	09/03/24 16:05	1
Nitrobenzene-d5 (Surr)	59		26 - 120	08/30/24 13:14	09/03/24 16:05	1
p-Terphenyl-d14 (Surr)	104		64 - 127	08/30/24 13:14	09/03/24 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			09/03/24 13:18	1

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-6S

Lab Sample ID: 480-222956-9

Date Collected: 08/28/24 11:10

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 03:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 03:13	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 03:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		08/30/24 03:13	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 03:13	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 03:13	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 03:13	1

Method: SW846 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		08/30/24 13:14	09/03/24 16:32	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 16:32	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 16:32	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 16:32	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 16:32	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 16:32	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:32	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 16:32	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 16:32	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 16:32	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		37 - 120	08/30/24 13:14	09/03/24 16:32	1
Nitrobenzene-d5 (Surr)	44		26 - 120	08/30/24 13:14	09/03/24 16:32	1
p-Terphenyl-d14 (Surr)	91		64 - 127	08/30/24 13:14	09/03/24 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			09/03/24 13:24	1

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Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-6D

Lab Sample ID: 480-222956-10

Date Collected: 08/28/24 09:55

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 03:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 03:35	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 03:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 03:35	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 03:35	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 03:35	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 03:35	1

Method: SW846 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		08/30/24 13:14	09/03/24 17:00	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 17:00	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 17:00	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 17:00	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 17:00	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 17:00	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:00	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 17:00	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 17:00	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 17:00	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		37 - 120	08/30/24 13:14	09/03/24 17:00	1
Nitrobenzene-d5 (Surr)	47		26 - 120	08/30/24 13:14	09/03/24 17:00	1
p-Terphenyl-d14 (Surr)	103		64 - 127	08/30/24 13:14	09/03/24 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			09/03/24 13:28	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: DUP-20240829

Lab Sample ID: 480-222956-11

Date Collected: 08/28/24 00:00

Matrix: WQ

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 03:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 03:57	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 03:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 03:57	1
4-Bromofluorobenzene (Surr)	104		73 - 120		08/30/24 03:57	1
Dibromofluoromethane (Surr)	108		75 - 123		08/30/24 03:57	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 03:57	1

Method: SW846 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		08/30/24 13:14	09/03/24 17:28	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 17:28	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 17:28	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 17:28	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 17:28	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 17:28	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:28	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 17:28	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 17:28	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 17:28	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		37 - 120	08/30/24 13:14	09/03/24 17:28	1
Nitrobenzene-d5 (Surr)	50		26 - 120	08/30/24 13:14	09/03/24 17:28	1
p-Terphenyl-d14 (Surr)	96		64 - 127	08/30/24 13:14	09/03/24 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			09/03/24 13:31	1

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Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-222956-12

Date Collected: 08/28/24 00:00

Matrix: WQ

Date Received: 08/29/24 12:52

Method: SW846 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			08/30/24 04:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 04:19	1
Toluene	0.52	J	1.0	0.51	ug/L			08/30/24 04:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		08/30/24 04:19	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 04:19	1
Dibromofluoromethane (Surr)	111		75 - 123		08/30/24 04:19	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 04:19	1

Surrogate Summary

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

Job ID: 480-222956-1

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

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-222956-1	PRMW-1S	111	105	112	112
480-222956-2	PRMW-2S	110	103	109	110
480-222956-3	PRMW-2D	106	102	109	111
480-222956-4	PRMW-3S	109	105	111	112
480-222956-4 MS	PRMW-3S	104	99	104	110
480-222956-4 MSD	PRMW-3S	107	101	109	112
480-222956-5	PRMW-3D	108	102	110	110
480-222956-6	PRMW-4S	110	103	110	111
480-222956-7	PRMW-5S	111	102	111	112
480-222956-8	PRMW-5D	108	102	110	113
480-222956-9	PRMW-6S	110	103	110	110
480-222956-10	PRMW-6D	108	102	110	110

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-723561/6	Lab Control Sample	112	101	106	110
LCSD 480-723561/7	Lab Control Sample Dup	112	101	106	109
MB 480-723561/9	Method Blank	109	104	110	109

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-222956-11	DUP-20240829	108	104	108	110
480-222956-12	TRIP BLANK	109	103	111	112

Surrogate Legend

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

Surrogate Summary

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

Job ID: 480-222956-1

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

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (37-120)	NBZ (26-120)	TPHd14 (64-127)
480-222956-1	PRMW-1S	92	81	106
480-222956-2	PRMW-2S	94	80	105
480-222956-3	PRMW-2D	99	77	107
480-222956-4	PRMW-3S	96	81	110
480-222956-4 MS	PRMW-3S	94	91	92
480-222956-4 MSD	PRMW-3S	93	87	90
480-222956-5	PRMW-3D	88	75	104
480-222956-6	PRMW-4S	94	82	106
480-222956-7	PRMW-5S	56	48	72
480-222956-8	PRMW-5D	74	59	104
480-222956-9	PRMW-6S	51	44	91
480-222956-10	PRMW-6D	54	47	103

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (37-120)	NBZ (26-120)	TPHd14 (64-127)
LCS 480-723663/2-A	Lab Control Sample	102	94	99
MB 480-723663/1-A	Method Blank	95	79	107

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: WQ

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (37-120)	NBZ (26-120)	TPHd14 (64-127)
480-222956-11	DUP-20240829	57	50	96

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

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

Job ID: 480-222956-1

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

Lab Sample ID: MB 480-723561/9

Matrix: Water

Analysis Batch: 723561

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			08/29/24 20:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/29/24 20:34	1
Toluene	ND		1.0	0.51	ug/L			08/29/24 20:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/29/24 20:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		08/29/24 20:34	1
4-Bromofluorobenzene (Surr)	104		73 - 120		08/29/24 20:34	1
Dibromofluoromethane (Surr)	110		75 - 123		08/29/24 20:34	1
Toluene-d8 (Surr)	109		80 - 120		08/29/24 20:34	1

Lab Sample ID: LCS 480-723561/6

Matrix: Water

Analysis Batch: 723561

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	24.0		ug/L		96	71 - 124
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
Toluene	25.0	24.1		ug/L		96	80 - 122
Xylenes, Total	50.0	47.5		ug/L		95	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123
Toluene-d8 (Surr)	110		80 - 120

Lab Sample ID: LCSD 480-723561/7

Matrix: Water

Analysis Batch: 723561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	25.0	24.9		ug/L		100	71 - 124	4	13
Ethylbenzene	25.0	24.9		ug/L		99	77 - 123	5	15
Toluene	25.0	24.7		ug/L		99	80 - 122	2	15
Xylenes, Total	50.0	48.5		ug/L		97	76 - 122	2	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123
Toluene-d8 (Surr)	109		80 - 120

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QC Sample Results

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

Job ID: 480-222956-1

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

Lab Sample ID: 480-222956-4 MS

Matrix: Ground Water

Analysis Batch: 723561

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	26.9		ug/L		108	71 - 124
Ethylbenzene	ND		25.0	28.0		ug/L		112	77 - 123
Toluene	ND		25.0	27.6		ug/L		110	80 - 122
Xylenes, Total	ND		50.0	55.8		ug/L		112	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123
Toluene-d8 (Surr)	110		80 - 120

Lab Sample ID: 480-222956-4 MSD

Matrix: Ground Water

Analysis Batch: 723561

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	27.2		ug/L		109	71 - 124	1	13
Ethylbenzene	ND		25.0	26.8		ug/L		107	77 - 123	4	15
Toluene	ND		25.0	27.0		ug/L		108	80 - 122	2	15
Xylenes, Total	ND		50.0	53.6		ug/L		107	76 - 122	4	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	109		75 - 123
Toluene-d8 (Surr)	112		80 - 120

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

Lab Sample ID: MB 480-723663/1-A

Matrix: Water

Analysis Batch: 723772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 723663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.036	ug/L		08/30/24 13:14	09/03/24 11:02	1
Acenaphthylene	ND		0.30	0.056	ug/L		08/30/24 13:14	09/03/24 11:02	1
Anthracene	ND		0.50	0.034	ug/L		08/30/24 13:14	09/03/24 11:02	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		08/30/24 13:14	09/03/24 11:02	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		08/30/24 13:14	09/03/24 11:02	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		08/30/24 13:14	09/03/24 11:02	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		08/30/24 13:14	09/03/24 11:02	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		08/30/24 13:14	09/03/24 11:02	1
Chrysene	ND		0.50	0.074	ug/L		08/30/24 13:14	09/03/24 11:02	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		08/30/24 13:14	09/03/24 11:02	1
Fluoranthene	ND		0.50	0.080	ug/L		08/30/24 13:14	09/03/24 11:02	1
Fluorene	ND		0.50	0.058	ug/L		08/30/24 13:14	09/03/24 11:02	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		08/30/24 13:14	09/03/24 11:02	1
Naphthalene	ND		1.0	0.064	ug/L		08/30/24 13:14	09/03/24 11:02	1

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QC Sample Results

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

Job ID: 480-222956-1

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

Lab Sample ID: MB 480-723663/1-A

Matrix: Water

Analysis Batch: 723772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 723663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.20	0.062	ug/L		08/30/24 13:14	09/03/24 11:02	1
Pyrene	ND		0.50	0.076	ug/L		08/30/24 13:14	09/03/24 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		37 - 120	08/30/24 13:14	09/03/24 11:02	1
Nitrobenzene-d5 (Surr)	79		26 - 120	08/30/24 13:14	09/03/24 11:02	1
p-Terphenyl-d14 (Surr)	107		64 - 127	08/30/24 13:14	09/03/24 11:02	1

Lab Sample ID: LCS 480-723663/2-A

Matrix: Water

Analysis Batch: 723772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 723663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	8.00	9.05		ug/L		113	62 - 120
Acenaphthylene	8.00	8.69		ug/L		109	57 - 120
Anthracene	8.00	8.73		ug/L		109	65 - 123
Benzo[a]anthracene	8.00	8.46		ug/L		106	77 - 123
Benzo[a]pyrene	8.00	9.02		ug/L		113	72 - 120
Benzo[b]fluoranthene	8.00	9.70		ug/L		121	73 - 123
Benzo[g,h,i]perylene	8.00	9.60		ug/L		120	48 - 150
Benzo[k]fluoranthene	8.00	9.01		ug/L		113	68 - 120
Chrysene	8.00	8.48		ug/L		106	75 - 120
Dibenz(a,h)anthracene	8.00	9.80		ug/L		122	54 - 147
Fluoranthene	8.00	9.03		ug/L		113	74 - 133
Fluorene	8.00	9.08		ug/L		113	64 - 120
Indeno[1,2,3-cd]pyrene	8.00	9.77		ug/L		122	55 - 150
Naphthalene	8.00	7.52		ug/L		94	40 - 138
Phenanthrene	8.00	9.00		ug/L		113	71 - 122
Pyrene	8.00	8.58		ug/L		107	65 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	102		37 - 120
Nitrobenzene-d5 (Surr)	94		26 - 120
p-Terphenyl-d14 (Surr)	99		64 - 127

Lab Sample ID: 480-222956-4 MS

Matrix: Ground Water

Analysis Batch: 723772

Client Sample ID: PRMW-3S

Prep Type: Total/NA

Prep Batch: 723663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	ND		7.62	8.04		ug/L		106	35 - 125
Acenaphthylene	ND		7.62	7.70		ug/L		101	43 - 141
Anthracene	ND		7.62	8.10		ug/L		106	65 - 123
Benzo[a]anthracene	ND		7.62	7.77		ug/L		102	68 - 132
Benzo[a]pyrene	ND		7.62	7.90		ug/L		104	60 - 137
Benzo[b]fluoranthene	ND		7.62	8.72		ug/L		114	68 - 129
Benzo[g,h,i]perylene	ND		7.62	7.92		ug/L		104	48 - 150
Benzo[k]fluoranthene	ND		7.62	8.64		ug/L		113	55 - 142

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QC Sample Results

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

Job ID: 480-222956-1

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

Lab Sample ID: 480-222956-4 MS

Matrix: Ground Water

Analysis Batch: 723772

Client Sample ID: PRMW-3S

Prep Type: Total/NA

Prep Batch: 723663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chrysene	ND		7.62	7.58		ug/L		99	66 - 144
Dibenz(a,h)anthracene	ND		7.62	8.21		ug/L		108	54 - 138
Fluoranthene	ND		7.62	8.67		ug/L		114	63 - 146
Fluorene	ND		7.62	8.10		ug/L		106	54 - 137
Indeno[1,2,3-cd]pyrene	ND		7.62	8.13		ug/L		107	55 - 140
Naphthalene	ND		7.62	6.84		ug/L		90	25 - 138
Phenanthrene	ND		7.62	8.15		ug/L		107	60 - 143
Pyrene	ND		7.62	7.72		ug/L		101	65 - 139

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	94		37 - 120
Nitrobenzene-d5 (Surr)	91		26 - 120
p-Terphenyl-d14 (Surr)	92		64 - 127

Lab Sample ID: 480-222956-4 MSD

Matrix: Ground Water

Analysis Batch: 723772

Client Sample ID: PRMW-3S

Prep Type: Total/NA

Prep Batch: 723663

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	ND		7.62	7.93		ug/L		104	35 - 125	1	24
Acenaphthylene	ND		7.62	7.68		ug/L		101	43 - 141	0	18
Anthracene	ND		7.62	7.92		ug/L		104	65 - 123	2	15
Benzo[a]anthracene	ND		7.62	7.97		ug/L		105	68 - 132	2	15
Benzo[a]pyrene	ND		7.62	8.02		ug/L		105	60 - 137	2	15
Benzo[b]fluoranthene	ND		7.62	8.55		ug/L		112	68 - 129	2	15
Benzo[g,h,i]perylene	ND		7.62	7.99		ug/L		105	48 - 150	1	15
Benzo[k]fluoranthene	ND		7.62	8.88		ug/L		117	55 - 142	3	22
Chrysene	ND		7.62	7.76		ug/L		102	66 - 144	2	15
Dibenz(a,h)anthracene	ND		7.62	8.20		ug/L		108	54 - 138	0	15
Fluoranthene	ND		7.62	8.45		ug/L		111	63 - 146	3	15
Fluorene	ND		7.62	8.12		ug/L		107	54 - 137	0	15
Indeno[1,2,3-cd]pyrene	ND		7.62	8.20		ug/L		108	55 - 140	1	15
Naphthalene	ND		7.62	6.69		ug/L		88	25 - 138	2	29
Phenanthrene	ND		7.62	8.13		ug/L		107	60 - 143	0	15
Pyrene	ND		7.62	7.75		ug/L		102	65 - 139	0	19

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	93		37 - 120
Nitrobenzene-d5 (Surr)	87		26 - 120
p-Terphenyl-d14 (Surr)	90		64 - 127

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QC Sample Results

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

Job ID: 480-222956-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-723873/103

Matrix: Water

Analysis Batch: 723873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			09/03/24 13:12	1

Lab Sample ID: MB 480-723873/47

Matrix: Water

Analysis Batch: 723873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			09/03/24 10:06	1

Lab Sample ID: HLCS 480-723873/22

Matrix: Water

Analysis Batch: 723873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCS 480-723873/104

Matrix: Water

Analysis Batch: 723873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.230		mg/L		92	90 - 110

Lab Sample ID: LCS 480-723873/23

Matrix: Water

Analysis Batch: 723873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Lab Sample ID: 480-222956-8 MS

Matrix: Ground Water

Analysis Batch: 723873

Client Sample ID: PRMW-5D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND		0.100	0.0905		mg/L		91	90 - 110

Lab Sample ID: MB 480-724217/47

Matrix: Water

Analysis Batch: 724217

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND	^+	0.010	0.0041	mg/L			09/06/24 09:55	1

Lab Sample ID: MB 480-724217/75

Matrix: Water

Analysis Batch: 724217

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			09/06/24 11:29	1

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QC Sample Results

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

Job ID: 480-222956-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: HLCS 480-724217/22
Matrix: Water
Analysis Batch: 724217

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.398		mg/L		99	90 - 110

Lab Sample ID: LCS 480-724217/48
Matrix: Water
Analysis Batch: 724217

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.254	^+	mg/L		102	90 - 110

Lab Sample ID: LCS 480-724217/76
Matrix: Water
Analysis Batch: 724217

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.261		mg/L		105	90 - 110

Lab Sample ID: 480-222956-3 MS
Matrix: Ground Water
Analysis Batch: 724217

Client Sample ID: PRMW-2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND	^+	0.100	0.102	^+	mg/L		102	90 - 110

Lab Sample ID: 480-222956-4 MS
Matrix: Ground Water
Analysis Batch: 724217

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
Cyanide, Total	ND		0.100	0.0961		mg/L		96	90 - 110

Lab Sample ID: 480-222956-4 MSD
Matrix: Ground Water
Analysis Batch: 724217

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
Cyanide, Total	ND		0.100	0.0992		mg/L		99	90 - 110	3	15

Lab Sample ID: MB 480-724412/21
Matrix: Water
Analysis Batch: 724412

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			09/09/24 09:09	1

Lab Sample ID: HLCS 480-724412/22
Matrix: Water
Analysis Batch: 724412

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

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

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QC Sample Results

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

Job ID: 480-222956-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: LCS 480-724412/23

Matrix: Water

Analysis Batch: 724412

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.245		mg/L		98	90 - 110		

Lab Sample ID: 480-222956-2 MS

Matrix: Ground Water

Analysis Batch: 724412

Client Sample ID: PRMW-2S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.11	F1	0.100	0.259	F1	mg/L		146	90 - 110		

QC Association Summary

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

Job ID: 480-222956-1

GC/MS VOA

Analysis Batch: 723561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222956-1	PRMW-1S	Total/NA	Ground Water	8260C	
480-222956-2	PRMW-2S	Total/NA	Ground Water	8260C	
480-222956-3	PRMW-2D	Total/NA	Ground Water	8260C	
480-222956-4	PRMW-3S	Total/NA	Ground Water	8260C	
480-222956-5	PRMW-3D	Total/NA	Ground Water	8260C	
480-222956-6	PRMW-4S	Total/NA	Ground Water	8260C	
480-222956-7	PRMW-5S	Total/NA	Ground Water	8260C	
480-222956-8	PRMW-5D	Total/NA	Ground Water	8260C	
480-222956-9	PRMW-6S	Total/NA	Ground Water	8260C	
480-222956-10	PRMW-6D	Total/NA	Ground Water	8260C	
480-222956-11	DUP-20240829	Total/NA	WQ	8260C	
480-222956-12	TRIP BLANK	Total/NA	WQ	8260C	
MB 480-723561/9	Method Blank	Total/NA	Water	8260C	
LCS 480-723561/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-723561/7	Lab Control Sample Dup	Total/NA	Water	8260C	
480-222956-4 MS	PRMW-3S	Total/NA	Ground Water	8260C	
480-222956-4 MSD	PRMW-3S	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 723663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222956-1	PRMW-1S	Total/NA	Ground Water	3510C	
480-222956-2	PRMW-2S	Total/NA	Ground Water	3510C	
480-222956-3	PRMW-2D	Total/NA	Ground Water	3510C	
480-222956-4	PRMW-3S	Total/NA	Ground Water	3510C	
480-222956-5	PRMW-3D	Total/NA	Ground Water	3510C	
480-222956-6	PRMW-4S	Total/NA	Ground Water	3510C	
480-222956-7	PRMW-5S	Total/NA	Ground Water	3510C	
480-222956-8	PRMW-5D	Total/NA	Ground Water	3510C	
480-222956-9	PRMW-6S	Total/NA	Ground Water	3510C	
480-222956-10	PRMW-6D	Total/NA	Ground Water	3510C	
480-222956-11	DUP-20240829	Total/NA	WQ	3510C	
MB 480-723663/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-723663/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-222956-4 MS	PRMW-3S	Total/NA	Ground Water	3510C	
480-222956-4 MSD	PRMW-3S	Total/NA	Ground Water	3510C	

Analysis Batch: 723772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222956-1	PRMW-1S	Total/NA	Ground Water	8270D LL	723663
480-222956-2	PRMW-2S	Total/NA	Ground Water	8270D LL	723663
480-222956-3	PRMW-2D	Total/NA	Ground Water	8270D LL	723663
480-222956-4	PRMW-3S	Total/NA	Ground Water	8270D LL	723663
480-222956-5	PRMW-3D	Total/NA	Ground Water	8270D LL	723663
480-222956-6	PRMW-4S	Total/NA	Ground Water	8270D LL	723663
480-222956-7	PRMW-5S	Total/NA	Ground Water	8270D LL	723663
480-222956-8	PRMW-5D	Total/NA	Ground Water	8270D LL	723663
480-222956-9	PRMW-6S	Total/NA	Ground Water	8270D LL	723663
480-222956-10	PRMW-6D	Total/NA	Ground Water	8270D LL	723663
480-222956-11	DUP-20240829	Total/NA	WQ	8270D LL	723663

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QC Association Summary

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

Job ID: 480-222956-1

GC/MS Semi VOA (Continued)

Analysis Batch: 723772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-723663/1-A	Method Blank	Total/NA	Water	8270D LL	723663
LCS 480-723663/2-A	Lab Control Sample	Total/NA	Water	8270D LL	723663
480-222956-4 MS	PRMW-3S	Total/NA	Ground Water	8270D LL	723663
480-222956-4 MSD	PRMW-3S	Total/NA	Ground Water	8270D LL	723663

General Chemistry

Analysis Batch: 723873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222956-8	PRMW-5D	Total/NA	Ground Water	9012B	
480-222956-9	PRMW-6S	Total/NA	Ground Water	9012B	
480-222956-10	PRMW-6D	Total/NA	Ground Water	9012B	
480-222956-11	DUP-20240829	Total/NA	WQ	9012B	
MB 480-723873/103	Method Blank	Total/NA	Water	9012B	
MB 480-723873/47	Method Blank	Total/NA	Water	9012B	
HLCS 480-723873/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-723873/104	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-723873/23	Lab Control Sample	Total/NA	Water	9012B	
480-222956-8 MS	PRMW-5D	Total/NA	Ground Water	9012B	

Analysis Batch: 724217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222956-1	PRMW-1S	Total/NA	Ground Water	9012B	
480-222956-3	PRMW-2D	Total/NA	Ground Water	9012B	
480-222956-4	PRMW-3S	Total/NA	Ground Water	9012B	
480-222956-5	PRMW-3D	Total/NA	Ground Water	9012B	
480-222956-6	PRMW-4S	Total/NA	Ground Water	9012B	
MB 480-724217/47	Method Blank	Total/NA	Water	9012B	
MB 480-724217/75	Method Blank	Total/NA	Water	9012B	
HLCS 480-724217/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-724217/48	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-724217/76	Lab Control Sample	Total/NA	Water	9012B	
480-222956-3 MS	PRMW-2D	Total/NA	Ground Water	9012B	
480-222956-4 MS	PRMW-3S	Total/NA	Ground Water	9012B	
480-222956-4 MSD	PRMW-3S	Total/NA	Ground Water	9012B	

Analysis Batch: 724412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222956-2	PRMW-2S	Total/NA	Ground Water	9012B	
480-222956-7	PRMW-5S	Total/NA	Ground Water	9012B	
MB 480-724412/21	Method Blank	Total/NA	Water	9012B	
HLCS 480-724412/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-724412/23	Lab Control Sample	Total/NA	Water	9012B	
480-222956-2 MS	PRMW-2S	Total/NA	Ground Water	9012B	

Lab Chronicle

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

Job ID: 480-222956-1

Client Sample ID: PRMW-1S

Date Collected: 08/28/24 10:40

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 00:16
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 13:20
Total/NA	Analysis	9012B		1	724217	CLT	EET BUF	09/06/24 10:20

Client Sample ID: PRMW-2S

Date Collected: 08/28/24 12:05

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 00:38
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 13:47
Total/NA	Analysis	9012B		1	724412	CLT	EET BUF	09/09/24 09:23

Client Sample ID: PRMW-2D

Date Collected: 08/28/24 13:25

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 01:00
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 14:15
Total/NA	Analysis	9012B		1	724217	CLT	EET BUF	09/06/24 10:42

Client Sample ID: PRMW-3S

Date Collected: 08/28/24 12:40

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 01:22
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 12:52
Total/NA	Analysis	9012B		1	724217	CLT	EET BUF	09/06/24 11:35

Client Sample ID: PRMW-3D

Date Collected: 08/28/24 14:45

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 01:44
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 14:42
Total/NA	Analysis	9012B		1	724217	CLT	EET BUF	09/06/24 10:48

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Lab Chronicle

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

Job ID: 480-222956-1

Client Sample ID: PRMW-4S

Date Collected: 08/28/24 09:20

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 02:06
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 15:10
Total/NA	Analysis	9012B		1	724217	CLT	EET BUF	09/06/24 10:51

Client Sample ID: PRMW-5S

Date Collected: 08/28/24 08:35

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 02:28
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		5	723772	JMM	EET BUF	09/03/24 15:37
Total/NA	Analysis	9012B		1	724412	CLT	EET BUF	09/09/24 09:29

Client Sample ID: PRMW-5D

Date Collected: 08/28/24 14:40

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 02:50
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 16:05
Total/NA	Analysis	9012B		1	723873	CLT	EET BUF	09/03/24 13:18

Client Sample ID: PRMW-6S

Date Collected: 08/28/24 11:10

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 03:13
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 16:32
Total/NA	Analysis	9012B		1	723873	CLT	EET BUF	09/03/24 13:24

Client Sample ID: PRMW-6D

Date Collected: 08/28/24 09:55

Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 03:35
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 17:00
Total/NA	Analysis	9012B		1	723873	CLT	EET BUF	09/03/24 13:28

Eurofins Buffalo

Lab Chronicle

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

Job ID: 480-222956-1

Client Sample ID: DUP-20240829
Date Collected: 08/28/24 00:00
Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-11
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 03:57
Total/NA	Prep	3510C			723663	LSC	EET BUF	08/30/24 13:14
Total/NA	Analysis	8270D LL		1	723772	JMM	EET BUF	09/03/24 17:28
Total/NA	Analysis	9012B		1	723873	CLT	EET BUF	09/03/24 13:31

Client Sample ID: TRIP BLANK
Date Collected: 08/28/24 00:00
Date Received: 08/29/24 12:52

Lab Sample ID: 480-222956-12
Matrix: WQ

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	723561	AXK	EET BUF	08/30/24 04:19

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

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

Job ID: 480-222956-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

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

Job ID: 480-222956-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 480-222956-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-222956-1	PRMW-1S	Ground Water	08/28/24 10:40	08/29/24 12:52
480-222956-2	PRMW-2S	Ground Water	08/28/24 12:05	08/29/24 12:52
480-222956-3	PRMW-2D	Ground Water	08/28/24 13:25	08/29/24 12:52
480-222956-4	PRMW-3S	Ground Water	08/28/24 12:40	08/29/24 12:52
480-222956-5	PRMW-3D	Ground Water	08/28/24 14:45	08/29/24 12:52
480-222956-6	PRMW-4S	Ground Water	08/28/24 09:20	08/29/24 12:52
480-222956-7	PRMW-5S	Ground Water	08/28/24 08:35	08/29/24 12:52
480-222956-8	PRMW-5D	Ground Water	08/28/24 14:40	08/29/24 12:52
480-222956-9	PRMW-6S	Ground Water	08/28/24 11:10	08/29/24 12:52
480-222956-10	PRMW-6D	Ground Water	08/28/24 09:55	08/29/24 12:52
480-222956-11	DUP-20240829	WQ	08/28/24 00:00	08/29/24 12:52
480-222956-12	TRIP BLANK	WQ	08/28/24 00:00	08/29/24 12:52

Chain of Custody Record

[illegible]

Chain of Custody Record

Client Information		Sampler: <u>Kaitlyn Fleming</u>		Lab PM: <u>Schove, John R</u>	Carrier Tracking #: <u>Syracuse</u>	QC No: <u>10-195975-36782.2</u>
Client Contact: <u>Nicholas Beyrie</u>		Phone: <u>619-727-1921</u>		E-Mail: <u>John.Schove@eurofins.com</u>	State of Origin: <u>NY</u>	Page: <u>2</u> of <u>2</u>
Company: <u>Arcadis U.S., Inc.</u>		PWSID: <u></u>		Job # <u>#225</u>		
Address: <u>295 Woodcliff Drive, Suite 301</u>		Due Date Requested: <u></u>		Analysis Requested: <u></u>		
City: <u>Fairport</u>		TAT Requested (days): <u></u>		Preservation Codes: A - HCL N - None B - NaOH		
State, Zip: <u>NY, 14450</u>		Compliance Project: <u>Δ</u> Yes <u>Δ</u> No		Other: <u></u>		
Phone: <u></u>		PO #: <u>4506628846</u>				
Email: <u>nicholas.beyrie@arcadis.com</u>		WO #: <u></u>				
Project Name: <u>NYSEG Former MGP Site - Penn Yan</u>		Project #: <u>48024595</u>				
Site: <u>New York</u>		SSOW#: <u></u>				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sediment, Other)	Preservation Code: (B=Tris, A=Alk)
<u>TMW-2DR</u>		<u>8/28/24</u>	<u>—</u>	<u>G</u>	<u>Water</u>	<u></u>
<u>DUP-20240829</u>					<u>Water</u>	<u></u>
					<u>Water</u>	<u></u>
					<u>Water</u>	<u></u>
					<u>Water</u>	<u></u>
					<u>Water</u>	<u></u>
					<u>Water</u>	<u></u>
<u>TRIP BLANK</u>					<u>Water</u>	<u></u>
<u>TRIP BLANK</u>					<u>Water</u>	<u></u>
<u>FIELD BLANK</u>					<u>Water</u>	<u></u>
<u>EQUIPMENT BLANK</u>					<u>Water</u>	<u></u>
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				
Deliverable Requested: I, II, III, IV, Other (specify) <u></u>						
Empty Kit Relinquished by:		Time: <u></u>				
Relinquished by: <u>Adam Schove</u>		Date/Time: <u>8/29/24 1252</u>	Company: <u>Arcadis</u>			
Relinquished by: <u></u>		Date/Time: <u></u>	Company: <u></u>			
Relinquished by: <u></u>		Date/Time: <u></u>	Company: <u></u>			
Custody Seals Intact: <u>Δ</u> Yes <u>Δ</u> No		Cooler Temperature(s) °C and Other Remarks: <u></u>				

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-222956-1

Login Number: 222956

List Number: 1

Creator: Stapleton, Kaitlyn

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	10.1, 10.3, 10.5 #1 ice
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.	True	Arcadis US
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix D

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 # 480-216887-1

Analyses Performed By:
Eurofins Buffalo
Amherst, New York

Report # 53209R
Review Level: Tier III
Project: 30174322.2

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-216887-1 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
EQUIPMENT BLANK-20240206	480-216887-1	Water	2/6/2024		X	X	X
FIELD BLANK-20240206	480-216887-2	Water	2/6/2024		X	X	X
PRMW-1S	480-216887-3	Water	2/5/2024		X	X	X
PRMW-2D	480-216887-4	Water	2/5/2024		X	X	X
PRMW-2S	480-216887-5	Water	2/5/2024		X	X	X
PRMW-3D	480-216887-6	Water	2/5/2024		X	X	X
PRMW-3S	480-216887-7	Water	2/5/2024		X	X	X
PRMW-4S	480-216887-8	Water	2/5/2024		X	X	X
PRMW-5D	480-216887-9	Water	2/6/2024		X	X	X
PRMW-5S	480-216887-10	Water	2/6/2024		X	X	X
PRMW-6D	480-216887-11	Water	2/6/2024		X	X	X
PRMW-6S	480-216887-12	Water	2/6/2024		X	X	X
DUP-20240205	480-216887-13	Water	2/5/2024	PRMW-3S	X	X	X
TRIP BLANK	480-216887-14	Water	2/5/2024		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-20240205	All target compounds	U	U	AC

Notes:

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/Field 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						

Data Usability Summary Report

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.

Naphthalene 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-2S PRMW-3D PRMW-3S PRMW-6D PRMW-6S	Naphthalene (EB)	Detected sample results <RL and <BAL	"UB" at RL

Notes:

EB = equipment blank

RL = reporting limit

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. Qualification of sample results were also applied to sample DUP-20240205 which is the duplicate sample of PRMW-3S.

Sample ID	Compounds	MS Recovery	MSD Recovery
PRMW-3S	Benzo[a]anthracene	<LL but >10%	AC
	Benzo[a]pyrene	<LL but >10%	AC
	Benzo[b]fluoranthene	<LL but >10%	AC
	Benzo[g,h,i]perylene	<LL but >10%	AC
	Benzo[k]fluoranthene	<LL but >10%	AC
	Chrysene	<LL but >10%	AC
	Dibenz(a,h)anthracene	<LL but >10%	AC
	Indeno[1,2,3-cd]pyrene	<LL but >10%	AC

Notes:

AC = Acceptable

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.

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
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
PRMW-3S	Benzo[a]anthracene
	Benzo[a]pyrene
	Benzo[b]fluoranthene

Sample Locations	Compound
	Benzo[g,h,i]perylene
	Benzo[k]fluoranthene
	Chrysene
	Dibenz(a,h)anthracene
	Indeno[1,2,3-cd]pyrene

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

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

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.

Sample locations associated with LCS/LCSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample ID	Compound
EQUIPMENT BLANK-20240206 FIELD BLANK-20240206 PRMW-1S PRMW-2D PRMW-2S PRMW-3D PRMW-3S PRMW-4S PRMW-5D PRMW-5S PRMW-6D PRMW-6S DUP-20240205	Benzo[k]fluoranthene

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

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

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-20240205	Naphthalene	0.32 J	1.1 U	AC

Notes:

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 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/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		
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		

Data Usability Summary Report

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-3S PRMW-4S	Cyanide (MB/FB)	Detected sample results <RL and <BAL	"UB" at RL

Notes:

MB = method blank

FB = field 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 samples PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs.

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 sample within 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-20240205	Cyanide	0.0065 J	0.010 U	AC

Note:

U = Non detect

AC = Acceptable

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

6. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries 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

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹			Noncompliance
					VOC	SVOC	CYANIDE	
480-216887-1	2/6/2024	SW846	EQUIPMENT BLANK-20240206	Water	Yes	No	Yes	SVOC – LCS %Recovery
	2/6/2024	SW846	FIELD BLANK-20240206	Water	Yes	No	Yes	SVOC – LCS %Recovery
	2/5/2024	SW846	PRMW-1S	Water	Yes	No	Yes	SVOC – LCS %Recovery
	2/5/2024	SW846	PRMW-2D	Water	Yes	No	Yes	SVOC – LCS %Recovery
	2/5/2024	SW846	PRMW-2S	Water	Yes	No	Yes	SVOC – LCS %Recovery, Blank contamination
	2/5/2024	SW846	PRMW-3D	Water	Yes	No	Yes	SVOC – LCS %Recovery, Blank contamination
	2/5/2024	SW846	PRMW-3S	Water	Yes	No	No	SVOC – LCS %Recovery, MS %Recovery, MS/MSD RPD, Blank contamination Cyanide – Blank contamination
	2/5/2024	SW846	PRMW-4S	Water	Yes	No	No	SVOC – LCS %Recovery Cyanide – Blank contamination
	2/6/2024	SW846	PRMW-5D	Water	Yes	No	Yes	SVOC – LCS %Recovery
	2/6/2024	SW846	PRMW-5S	Water	Yes	No	Yes	SVOC – LCS %Recovery
	2/6/2024	SW846	PRMW-6D	Water	Yes	No	Yes	SVOC – LCS %Recovery, Blank contamination
	2/6/2024	SW846	PRMW-6S	Water	Yes	No	Yes	SVOC – LCS %Recovery, Blank contamination
	2/5/2024	SW846	DUP-20240205	Water	Yes	No	Yes	SVOC – LCS %Recovery, MS %Recovery, MS/MSD RPD
	2/5/2024	SW846	TRIP BLANK	Water	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.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:



DATE: March 11, 2024

PEER REVIEW: Joe Houser

DATE: March 13, 2024

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



Environment Testing

Client Information		Sampler: <u>Kaitlyn Fleming & Bailey K.</u>		Lab PM: <u>Schove, John R</u>		Carrier: <u>Syracuse #225</u>		COC No: <u>480-192151-36782.1</u>				
Client Contact: <u>Nicholas Beyrle</u>		Phone: <u>619-727-1921</u>		E-Mail: <u>John.Schove@et.eurofinsus.com</u>		State of Origin: <u>NY</u>		Page: <u>Page 1 of 2</u>				
Company: <u>ARCADIS US Inc</u>		PWSID:		Analysis Requested		Job #:		Preservation Codes:				
Address: <u>295 Woodcliff Drive, Suite 301</u>		Due Date Requested:		Barcode: <u>480-216887 Chain of Custody</u>		TAT Requested (days): <u>Standard</u>		M - Hexane				
City: <u>Fairport</u>		Compliance Project: <u>Δ Yes Δ No</u>		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		N - None				
State, Zip: <u>NY, 14450</u>		PO #: <u>4506273390</u>		8260C - BTEX		8270D_LL - Low Level PAH Semivolatiles		O - AsNaO2				
Phone:		WO #:		9012B - Cyanide, Total		Total Number of Containers		P - Na2O4S				
Email: <u>nicholas.beyrle@arcadis.com</u>		Project #: <u>48024595</u>		SSOW#:		Special Instructions/Note:		Q - Na2SO3				
Project Name: <u>NYSEG Former MGP Site - Penn Yan</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		R - Na2S2O3				
Site: <u>New York</u>		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		X X A N B		S - H2SO4				
PRMW-1S		2/5/2024	1140	G	Water	N	N	X	X	X	6	
PRMW-2S		2/5/2024	1315	G	Water	N	N	X	X	X	6	
PRMW-2D		2/5/2024	1430	G	Water	N	N	X	X	X	6	
PRMW-3S		2/5/2024	1315	G	Water	N	Y	X	X	X	18	
PRMW-3D		2/5/2024	1535	G	Water	N	N	X	X	X	6	
PRMW-4S		2/5/2024	1140	G	Water	N	N	X	X	X	6	
PRMW-5S		2/6/2024	1010	G	Water	N	N	X	X	X	6	
PRMW-5D		2/6/2024	1125	G	Water	N	N	X	X	X	6	
PRMW-6S		2/6/2024	0950	G	Water	N	N	X	X	X	6	
PRMW-6D		2/6/2024	1050	G	Water	N	N	X	X	X	6	
PRMW-6D (LCP) Dup-20240205		2/5/2024	—	G	Water	N	N	X	X	X	6	

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> 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: <u>[Signature]</u>		Date/Time: <u>2-6-24 1536</u>		Company: <u>Arcadis</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2/6/24 1536</u>		Company: <u>EGT</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.3 2.1 2.5 2.0 ICE</u>							

Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins

Environment Testing

Client Information		Sampler: <i>Kaitlyn Fleming & Bailey Kudla Williams</i>		Lab PM: Schove, John R		Carrier Tracking No(s):		COC No: 480-192151-36782.2	
Client Contact: Nicholas Beyrle		Phone: 619-727-1921		E-Mail: John.Schove@et.eurofinsus.com		State of Origin: Syracuse		Page: Page 2 of 2	
Company: ARCADIS US Inc		PWSID:		Analysis Requested: #225		Job #:		Preservation Codes:	
Address: 295 Woodcliff Drive, Suite 301		Due Date Requested:		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		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 Y - Trizma Z - other (specify)	
City: Fairport		TAT Requested (days): <i>Standard</i>						Other:	
State, Zip: NY, 14450		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone:		PO #: 4506273390							
Email: nicholas.beyrle@arcadis.com		WO #:							
Project Name: NYSEG Former MGP Site - Penn Yan		Project #: 48024595							
Site: New York		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			Special Instructions/Note:	
				Preservation Code:					
WATER <i>(LCF)</i>					Water				
					Water				
					Water				
					Water				
					Water				
					Water				
WATER <i>Trip Blank</i>		1/25/2024	—	—	Water	N N X		2	
WATER					Water				
FIELD BLANK - 20240206		2/6/2024	1120	G	Water	N N X X X		6	
EQUIPMENT BLANK - 20240206		2/6/2024	1215	G	Water	N N X X X		6	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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: <i>[Signature]</i>		Date/Time: 2-6-24 1536		Company: Arcadis		Received by: <i>[Signature]</i>		Date/Time: 2/6/24 1536	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: EQUIPMENT BLANK-20240206

Lab Sample ID: 480-216887-1

Date Collected: 02/06/24 12:15

Matrix: WQ

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 18:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 18:48	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 18:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 18:48	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					02/07/24 18:48	1
4-Bromofluorobenzene (Surr)	100		73 - 120					02/07/24 18:48	1
Dibromofluoromethane (Surr)	99		75 - 123					02/07/24 18:48	1
Toluene-d8 (Surr)	100		80 - 120					02/07/24 18:48	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.037	ug/L		02/08/24 10:57	02/09/24 17:30	1
Acenaphthylene	ND		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 17:30	1
Anthracene	ND		0.52	0.035	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 17:30	1
Benzo[k]fluoranthene	ND	UJ	0.31	0.072	ug/L		02/08/24 10:57	02/09/24 17:30	1
Chrysene	ND		0.52	0.076	ug/L		02/08/24 10:57	02/09/24 17:30	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		02/08/24 10:57	02/09/24 17:30	1
Fluoranthene	ND		0.52	0.082	ug/L		02/08/24 10:57	02/09/24 17:30	1
Fluorene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 17:30	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 17:30	1
Naphthalene	0.19	J	1.0	0.066	ug/L		02/08/24 10:57	02/09/24 17:30	1
Phenanthrene	ND		0.21	0.064	ug/L		02/08/24 10:57	02/09/24 17:30	1
Pyrene	ND		0.52	0.078	ug/L		02/08/24 10:57	02/09/24 17:30	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		37 - 120				02/08/24 10:57	02/09/24 17:30	1
Nitrobenzene-d5 (Surr)	78		26 - 120				02/08/24 10:57	02/09/24 17:30	1
p-Terphenyl-d14 (Surr)	109		64 - 127				02/08/24 10:57	02/09/24 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 20:18	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: FIELD BLANK-20240206

Lab Sample ID: 480-216887-2

Date Collected: 02/06/24 11:20

Matrix: WQ

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 19:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 19:10	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 19:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 19:10	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120			02/07/24 19:10	1
4-Bromofluorobenzene (Surr)	102		73 - 120			02/07/24 19:10	1
Dibromofluoromethane (Surr)	102		75 - 123			02/07/24 19:10	1
Toluene-d8 (Surr)	105		80 - 120			02/07/24 19:10	1

Method: SW846 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		02/08/24 10:57	02/09/24 17:58	1
Acenaphthylene	ND		0.30	0.055	ug/L		02/08/24 10:57	02/09/24 17:58	1
Anthracene	ND		0.50	0.034	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[b]fluoranthene	ND		0.30	0.062	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[g,h,i]perylene	ND		0.50	0.057	ug/L		02/08/24 10:57	02/09/24 17:58	1
Benzo[k]fluoranthene	ND	✖ JJ	0.30	0.069	ug/L		02/08/24 10:57	02/09/24 17:58	1
Chrysene	ND		0.50	0.073	ug/L		02/08/24 10:57	02/09/24 17:58	1
Dibenz(a,h)anthracene	ND		0.50	0.069	ug/L		02/08/24 10:57	02/09/24 17:58	1
Fluoranthene	ND		0.50	0.079	ug/L		02/08/24 10:57	02/09/24 17:58	1
Fluorene	ND		0.50	0.057	ug/L		02/08/24 10:57	02/09/24 17:58	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		02/08/24 10:57	02/09/24 17:58	1
Naphthalene	ND		0.99	0.063	ug/L		02/08/24 10:57	02/09/24 17:58	1
Phenanthrene	ND		0.20	0.061	ug/L		02/08/24 10:57	02/09/24 17:58	1
Pyrene	ND		0.50	0.075	ug/L		02/08/24 10:57	02/09/24 17:58	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	102		37 - 120		02/08/24 10:57	02/09/24 17:58	1
Nitrobenzene-d5 (Surr)	83		26 - 120		02/08/24 10:57	02/09/24 17:58	1
p-Terphenyl-d14 (Surr)	117		64 - 127		02/08/24 10:57	02/09/24 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0046	J B F1	0.010	0.0041	mg/L			02/08/24 21:02	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-1S

Lab Sample ID: 480-216887-3

Date Collected: 02/05/24 11:40

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 19:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 19:32	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 19:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/07/24 19:32	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 19:32	1
Dibromofluoromethane (Surr)	102		75 - 123		02/07/24 19:32	1
Toluene-d8 (Surr)	98		80 - 120		02/07/24 19:32	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.54	0.039	ug/L		02/08/24 10:57	02/09/24 18:26	1
Acenaphthylene	ND		0.32	0.060	ug/L		02/08/24 10:57	02/09/24 18:26	1
Anthracene	ND		0.54	0.037	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[a]anthracene	ND		0.32	0.037	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[b]fluoranthene	ND		0.32	0.068	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[g,h,i]perylene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 18:26	1
Benzo[k]fluoranthene	ND	UU	0.32	0.075	ug/L		02/08/24 10:57	02/09/24 18:26	1
Chrysene	ND		0.54	0.080	ug/L		02/08/24 10:57	02/09/24 18:26	1
Dibenz(a,h)anthracene	ND		0.54	0.075	ug/L		02/08/24 10:57	02/09/24 18:26	1
Fluoranthene	ND		0.54	0.086	ug/L		02/08/24 10:57	02/09/24 18:26	1
Fluorene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.54	0.12	ug/L		02/08/24 10:57	02/09/24 18:26	1
Naphthalene	ND		1.1	0.069	ug/L		02/08/24 10:57	02/09/24 18:26	1
Phenanthrene	ND		0.22	0.067	ug/L		02/08/24 10:57	02/09/24 18:26	1
Pyrene	ND		0.54	0.082	ug/L		02/08/24 10:57	02/09/24 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		37 - 120	02/08/24 10:57	02/09/24 18:26	1
Nitrobenzene-d5 (Surr)	81		26 - 120	02/08/24 10:57	02/09/24 18:26	1
p-Terphenyl-d14 (Surr)	93		64 - 127	02/08/24 10:57	02/09/24 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:13	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-2D

Lab Sample ID: 480-216887-4

Date Collected: 02/05/24 13:15

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 19:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 19:54	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 19:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 19:54	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					02/07/24 19:54	1
4-Bromofluorobenzene (Surr)	102		73 - 120					02/07/24 19:54	1
Dibromofluoromethane (Surr)	102		75 - 123					02/07/24 19:54	1
Toluene-d8 (Surr)	102		80 - 120					02/07/24 19:54	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.038	ug/L		02/08/24 10:57	02/09/24 18:53	1
Acenaphthylene	ND		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 18:53	1
Anthracene	ND		0.52	0.035	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[b]fluoranthene	ND		0.31	0.066	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 18:53	1
Benzo[k]fluoranthene	ND	UU	0.31	0.073	ug/L		02/08/24 10:57	02/09/24 18:53	1
Chrysene	ND		0.52	0.077	ug/L		02/08/24 10:57	02/09/24 18:53	1
Dibenz(a,h)anthracene	ND		0.52	0.073	ug/L		02/08/24 10:57	02/09/24 18:53	1
Fluoranthene	ND		0.52	0.083	ug/L		02/08/24 10:57	02/09/24 18:53	1
Fluorene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 18:53	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 18:53	1
Naphthalene	ND		1.0	0.067	ug/L		02/08/24 10:57	02/09/24 18:53	1
Phenanthrene	ND		0.21	0.065	ug/L		02/08/24 10:57	02/09/24 18:53	1
Pyrene	ND		0.52	0.079	ug/L		02/08/24 10:57	02/09/24 18:53	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		37 - 120				02/08/24 10:57	02/09/24 18:53	1
Nitrobenzene-d5 (Surr)	80		26 - 120				02/08/24 10:57	02/09/24 18:53	1
p-Terphenyl-d14 (Surr)	95		64 - 127				02/08/24 10:57	02/09/24 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:15	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-2S

Lab Sample ID: 480-216887-5

Date Collected: 02/05/24 14:30

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 20:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 20:17	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 20:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 20:17	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					02/07/24 20:17	1
4-Bromofluorobenzene (Surr)	100		73 - 120					02/07/24 20:17	1
Dibromofluoromethane (Surr)	103		75 - 123					02/07/24 20:17	1
Toluene-d8 (Surr)	100		80 - 120					02/07/24 20:17	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.52	0.037	ug/L		02/08/24 10:57	02/09/24 19:21	1
Acenaphthylene	ND		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 19:21	1
Anthracene	ND		0.52	0.035	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 19:21	1
Benzo[k]fluoranthene	ND	UJ	0.31	0.072	ug/L		02/08/24 10:57	02/09/24 19:21	1
Chrysene	ND		0.52	0.076	ug/L		02/08/24 10:57	02/09/24 19:21	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		02/08/24 10:57	02/09/24 19:21	1
Fluoranthene	ND		0.52	0.082	ug/L		02/08/24 10:57	02/09/24 19:21	1
Fluorene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 19:21	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 19:21	1
Naphthalene	0.13	J UB	1.0	0.066	ug/L		02/08/24 10:57	02/09/24 19:21	1
Phenanthrene	ND		0.21	0.064	ug/L		02/08/24 10:57	02/09/24 19:21	1
Pyrene	ND		0.52	0.078	ug/L		02/08/24 10:57	02/09/24 19:21	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		37 - 120				02/08/24 10:57	02/09/24 19:21	1
Nitrobenzene-d5 (Surr)	79		26 - 120				02/08/24 10:57	02/09/24 19:21	1
p-Terphenyl-d14 (Surr)	93		64 - 127				02/08/24 10:57	02/09/24 19:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.10	B	0.010	0.0041	mg/L			02/08/24 21:18	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-3D

Lab Sample ID: 480-216887-6

Date Collected: 02/05/24 15:35

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 20:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 20:39	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 20:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		02/07/24 20:39	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/07/24 20:39	1
Dibromofluoromethane (Surr)	102		75 - 123		02/07/24 20:39	1
Toluene-d8 (Surr)	101		80 - 120		02/07/24 20:39	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/08/24 10:57	02/09/24 19:50	1
Acenaphthylene	ND		0.32	0.060	ug/L		02/08/24 10:57	02/09/24 19:50	1
Anthracene	ND		0.53	0.036	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[b]fluoranthene	ND		0.32	0.067	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[g,h,i]perylene	ND		0.53	0.062	ug/L		02/08/24 10:57	02/09/24 19:50	1
Benzo[k]fluoranthene	ND	UJ	0.32	0.074	ug/L		02/08/24 10:57	02/09/24 19:50	1
Chrysene	ND		0.53	0.079	ug/L		02/08/24 10:57	02/09/24 19:50	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/08/24 10:57	02/09/24 19:50	1
Fluoranthene	ND		0.53	0.085	ug/L		02/08/24 10:57	02/09/24 19:50	1
Fluorene	ND		0.53	0.062	ug/L		02/08/24 10:57	02/09/24 19:50	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		02/08/24 10:57	02/09/24 19:50	1
Naphthalene	0.14	J UB	1.1	0.068	ug/L		02/08/24 10:57	02/09/24 19:50	1
Phenanthrene	ND		0.21	0.066	ug/L		02/08/24 10:57	02/09/24 19:50	1
Pyrene	ND		0.53	0.081	ug/L		02/08/24 10:57	02/09/24 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	101		37 - 120	02/08/24 10:57	02/09/24 19:50	1
Nitrobenzene-d5 (Surr)	81		26 - 120	02/08/24 10:57	02/09/24 19:50	1
p-Terphenyl-d14 (Surr)	104		64 - 127	02/08/24 10:57	02/09/24 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:20	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-3S

Lab Sample ID: 480-216887-7

Date Collected: 02/05/24 13:15

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 21:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 21:01	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 21:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/07/24 21:01	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/07/24 21:01	1
Dibromofluoromethane (Surr)	98		75 - 123		02/07/24 21:01	1
Toluene-d8 (Surr)	101		80 - 120		02/07/24 21:01	1

Method: SW846 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		02/08/24 10:57	02/09/24 17:01	1
Acenaphthylene	ND		0.30	0.056	ug/L		02/08/24 10:57	02/09/24 17:01	1
Anthracene	ND		0.50	0.034	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[a]anthracene	ND	F1 F2	0.30	0.034	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[a]pyrene	ND	F1 F2	0.18	0.13	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[b]fluoranthene	ND	F1 F2	0.30	0.063	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[g,h,i]perylene	ND	F1 F2	0.50	0.058	ug/L		02/08/24 10:57	02/09/24 17:01	1
Benzo[k]fluoranthene	ND	F1 + F2	0.30	0.070	ug/L		02/08/24 10:57	02/09/24 17:01	1
Chrysene	ND	F1 F2	0.50	0.074	ug/L		02/08/24 10:57	02/09/24 17:01	1
Dibenz(a,h)anthracene	ND	F1 F2	0.50	0.070	ug/L		02/08/24 10:57	02/09/24 17:01	1
Fluoranthene	ND		0.50	0.080	ug/L		02/08/24 10:57	02/09/24 17:01	1
Fluorene	ND		0.50	0.058	ug/L		02/08/24 10:57	02/09/24 17:01	1
Indeno[1,2,3-cd]pyrene	ND	F1 F2	0.50	0.11	ug/L		02/08/24 10:57	02/09/24 17:01	1
Naphthalene	0.32	J UB	1.0	0.064	ug/L		02/08/24 10:57	02/09/24 17:01	1
Phenanthrene	ND		0.20	0.062	ug/L		02/08/24 10:57	02/09/24 17:01	1
Pyrene	ND		0.50	0.076	ug/L		02/08/24 10:57	02/09/24 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	115		37 - 120	02/08/24 10:57	02/09/24 17:01	1
Nitrobenzene-d5 (Surr)	92		26 - 120	02/08/24 10:57	02/09/24 17:01	1
p-Terphenyl-d14 (Surr)	112		64 - 127	02/08/24 10:57	02/09/24 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0065	J B UB	0.010	0.0041	mg/L			02/08/24 21:35	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-4S

Lab Sample ID: 480-216887-8

Date Collected: 02/05/24 11:40

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 21:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 21:23	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 21:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/07/24 21:23	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/07/24 21:23	1
Dibromofluoromethane (Surr)	100		75 - 123		02/07/24 21:23	1
Toluene-d8 (Surr)	103		80 - 120		02/07/24 21:23	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.54	0.039	ug/L		02/08/24 10:57	02/09/24 20:18	1
Acenaphthylene	ND		0.32	0.060	ug/L		02/08/24 10:57	02/09/24 20:18	1
Anthracene	ND		0.54	0.037	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[a]anthracene	ND		0.32	0.037	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[b]fluoranthene	ND		0.32	0.068	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[g,h,i]perylene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 20:18	1
Benzo[k]fluoranthene	ND	*+ UJ	0.32	0.075	ug/L		02/08/24 10:57	02/09/24 20:18	1
Chrysene	ND		0.54	0.080	ug/L		02/08/24 10:57	02/09/24 20:18	1
Dibenz(a,h)anthracene	ND		0.54	0.075	ug/L		02/08/24 10:57	02/09/24 20:18	1
Fluoranthene	ND		0.54	0.086	ug/L		02/08/24 10:57	02/09/24 20:18	1
Fluorene	ND		0.54	0.062	ug/L		02/08/24 10:57	02/09/24 20:18	1
Indeno[1,2,3-cd]pyrene	ND		0.54	0.12	ug/L		02/08/24 10:57	02/09/24 20:18	1
Naphthalene	ND		1.1	0.069	ug/L		02/08/24 10:57	02/09/24 20:18	1
Phenanthrene	ND		0.22	0.067	ug/L		02/08/24 10:57	02/09/24 20:18	1
Pyrene	ND		0.54	0.082	ug/L		02/08/24 10:57	02/09/24 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120	02/08/24 10:57	02/09/24 20:18	1
Nitrobenzene-d5 (Surr)	79		26 - 120	02/08/24 10:57	02/09/24 20:18	1
p-Terphenyl-d14 (Surr)	105		64 - 127	02/08/24 10:57	02/09/24 20:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0070	J B UB	0.010	0.0041	mg/L			02/08/24 21:42	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-5D

Lab Sample ID: 480-216887-9

Date Collected: 02/06/24 11:25

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 21:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 21:45	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 21:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 21:45	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					02/07/24 21:45	1
4-Bromofluorobenzene (Surr)	100		73 - 120					02/07/24 21:45	1
Dibromofluoromethane (Surr)	99		75 - 123					02/07/24 21:45	1
Toluene-d8 (Surr)	100		80 - 120					02/07/24 21:45	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/08/24 10:57	02/09/24 20:47	1
Acenaphthylene	ND		0.32	0.059	ug/L		02/08/24 10:57	02/09/24 20:47	1
Anthracene	ND		0.53	0.036	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 20:47	1
Benzo[k]fluoranthene	ND	✖ UJ	0.32	0.074	ug/L		02/08/24 10:57	02/09/24 20:47	1
Chrysene	ND		0.53	0.078	ug/L		02/08/24 10:57	02/09/24 20:47	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/08/24 10:57	02/09/24 20:47	1
Fluoranthene	ND		0.53	0.084	ug/L		02/08/24 10:57	02/09/24 20:47	1
Fluorene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 20:47	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		02/08/24 10:57	02/09/24 20:47	1
Naphthalene	ND		1.1	0.067	ug/L		02/08/24 10:57	02/09/24 20:47	1
Phenanthrene	ND		0.21	0.065	ug/L		02/08/24 10:57	02/09/24 20:47	1
Pyrene	ND		0.53	0.080	ug/L		02/08/24 10:57	02/09/24 20:47	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		37 - 120				02/08/24 10:57	02/09/24 20:47	1
Nitrobenzene-d5 (Surr)	90		26 - 120				02/08/24 10:57	02/09/24 20:47	1
p-Terphenyl-d14 (Surr)	104		64 - 127				02/08/24 10:57	02/09/24 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:45	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-5S

Lab Sample ID: 480-216887-10

Date Collected: 02/06/24 10:10

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.7		1.0	0.41	ug/L			02/07/24 22:08	1
Ethylbenzene	0.82	J	1.0	0.74	ug/L			02/07/24 22:08	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 22:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 22:08	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					02/07/24 22:08	1
4-Bromofluorobenzene (Surr)	101		73 - 120					02/07/24 22:08	1
Dibromofluoromethane (Surr)	101		75 - 123					02/07/24 22:08	1
Toluene-d8 (Surr)	102		80 - 120					02/07/24 22:08	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	13		0.52	0.037	ug/L		02/08/24 10:57	02/09/24 21:15	1
Acenaphthylene	1.8		0.31	0.058	ug/L		02/08/24 10:57	02/09/24 21:15	1
Anthracene	0.16	J	0.52	0.035	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[a]pyrene	ND		0.19	0.13	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[b]fluoranthene	ND		0.31	0.065	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 21:15	1
Benzo[k]fluoranthene	ND	UU	0.31	0.072	ug/L		02/08/24 10:57	02/09/24 21:15	1
Chrysene	ND		0.52	0.076	ug/L		02/08/24 10:57	02/09/24 21:15	1
Dibenz(a,h)anthracene	ND		0.52	0.072	ug/L		02/08/24 10:57	02/09/24 21:15	1
Fluoranthene	0.78		0.52	0.082	ug/L		02/08/24 10:57	02/09/24 21:15	1
Fluorene	4.5		0.52	0.060	ug/L		02/08/24 10:57	02/09/24 21:15	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		02/08/24 10:57	02/09/24 21:15	1
Naphthalene	6.4		1.0	0.066	ug/L		02/08/24 10:57	02/09/24 21:15	1
Phenanthrene	0.94		0.21	0.064	ug/L		02/08/24 10:57	02/09/24 21:15	1
Pyrene	0.46	J	0.52	0.078	ug/L		02/08/24 10:57	02/09/24 21:15	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		37 - 120				02/08/24 10:57	02/09/24 21:15	1
Nitrobenzene-d5 (Surr)	80		26 - 120				02/08/24 10:57	02/09/24 21:15	1
p-Terphenyl-d14 (Surr)	98		64 - 127				02/08/24 10:57	02/09/24 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.029	B	0.010	0.0041	mg/L			02/08/24 21:47	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-6D

Lab Sample ID: 480-216887-11

Date Collected: 02/06/24 10:50

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 22:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 22:30	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 22:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/07/24 22:30	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/07/24 22:30	1
Dibromofluoromethane (Surr)	100		75 - 123		02/07/24 22:30	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 22:30	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.089	J	0.48	0.034	ug/L		02/08/24 10:57	02/09/24 21:43	1
Acenaphthylene	ND		0.29	0.053	ug/L		02/08/24 10:57	02/09/24 21:43	1
Anthracene	ND		0.48	0.032	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		02/08/24 10:57	02/09/24 21:43	1
Benzo[k]fluoranthene	ND	UJ	0.29	0.067	ug/L		02/08/24 10:57	02/09/24 21:43	1
Chrysene	ND		0.48	0.070	ug/L		02/08/24 10:57	02/09/24 21:43	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		02/08/24 10:57	02/09/24 21:43	1
Fluoranthene	ND		0.48	0.076	ug/L		02/08/24 10:57	02/09/24 21:43	1
Fluorene	ND		0.48	0.055	ug/L		02/08/24 10:57	02/09/24 21:43	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		02/08/24 10:57	02/09/24 21:43	1
Naphthalene	0.41	J UB	0.95	0.061	ug/L		02/08/24 10:57	02/09/24 21:43	1
Phenanthrene	ND		0.19	0.059	ug/L		02/08/24 10:57	02/09/24 21:43	1
Pyrene	0.074	J	0.48	0.072	ug/L		02/08/24 10:57	02/09/24 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	117		37 - 120	02/08/24 10:57	02/09/24 21:43	1
Nitrobenzene-d5 (Surr)	94		26 - 120	02/08/24 10:57	02/09/24 21:43	1
p-Terphenyl-d14 (Surr)	118		64 - 127	02/08/24 10:57	02/09/24 21:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:50	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: PRMW-6S

Lab Sample ID: 480-216887-12

Date Collected: 02/06/24 09:50

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 22:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 22:52	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 22:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		02/07/24 22:52	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/07/24 22:52	1
Dibromofluoromethane (Surr)	100		75 - 123		02/07/24 22:52	1
Toluene-d8 (Surr)	101		80 - 120		02/07/24 22:52	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.56	0.040	ug/L		02/08/24 10:57	02/09/24 22:10	1
Acenaphthylene	ND		0.33	0.062	ug/L		02/08/24 10:57	02/09/24 22:10	1
Anthracene	ND		0.56	0.038	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[a]anthracene	ND		0.33	0.038	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[a]pyrene	ND		0.20	0.14	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[b]fluoranthene	ND		0.33	0.070	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[g,h,i]perylene	ND		0.56	0.064	ug/L		02/08/24 10:57	02/09/24 22:10	1
Benzo[k]fluoranthene	ND	UJ	0.33	0.078	ug/L		02/08/24 10:57	02/09/24 22:10	1
Chrysene	ND		0.56	0.082	ug/L		02/08/24 10:57	02/09/24 22:10	1
Dibenz(a,h)anthracene	ND		0.56	0.078	ug/L		02/08/24 10:57	02/09/24 22:10	1
Fluoranthene	ND		0.56	0.089	ug/L		02/08/24 10:57	02/09/24 22:10	1
Fluorene	ND		0.56	0.064	ug/L		02/08/24 10:57	02/09/24 22:10	1
Indeno[1,2,3-cd]pyrene	ND		0.56	0.12	ug/L		02/08/24 10:57	02/09/24 22:10	1
Naphthalene	0.079	J UB	1.1	0.071	ug/L		02/08/24 10:57	02/09/24 22:10	1
Phenanthrene	ND		0.22	0.069	ug/L		02/08/24 10:57	02/09/24 22:10	1
Pyrene	ND		0.56	0.084	ug/L		02/08/24 10:57	02/09/24 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	89		37 - 120	02/08/24 10:57	02/09/24 22:10	1
Nitrobenzene-d5 (Surr)	73		26 - 120	02/08/24 10:57	02/09/24 22:10	1
p-Terphenyl-d14 (Surr)	90		64 - 127	02/08/24 10:57	02/09/24 22:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:53	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: DUP-20240205

Lab Sample ID: 480-216887-13

Date Collected: 02/05/24 00:00

Matrix: Ground Water

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 23:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 23:14	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 23:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 23:14	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120			02/07/24 23:14	1
4-Bromofluorobenzene (Surr)	101		73 - 120			02/07/24 23:14	1
Dibromofluoromethane (Surr)	101		75 - 123			02/07/24 23:14	1
Toluene-d8 (Surr)	104		80 - 120			02/07/24 23:14	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.53	0.038	ug/L		02/08/24 10:57	02/09/24 22:38	1
Acenaphthylene	ND		0.32	0.059	ug/L		02/08/24 10:57	02/09/24 22:38	1
Anthracene	ND		0.53	0.036	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[a]anthracene	ND	UJ	0.32	0.036	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 22:38	1
Benzo[k]fluoranthene	ND		0.32	0.074	ug/L		02/08/24 10:57	02/09/24 22:38	1
Chrysene	ND		0.53	0.078	ug/L		02/08/24 10:57	02/09/24 22:38	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		02/08/24 10:57	02/09/24 22:38	1
Fluoranthene	ND		0.53	0.084	ug/L		02/08/24 10:57	02/09/24 22:38	1
Fluorene	ND		0.53	0.061	ug/L		02/08/24 10:57	02/09/24 22:38	1
Indeno[1,2,3-cd]pyrene	ND	UJ	0.53	0.12	ug/L		02/08/24 10:57	02/09/24 22:38	1
Naphthalene	ND		1.1	0.067	ug/L		02/08/24 10:57	02/09/24 22:38	1
Phenanthrene	ND		0.21	0.065	ug/L		02/08/24 10:57	02/09/24 22:38	1
Pyrene	ND		0.53	0.080	ug/L		02/08/24 10:57	02/09/24 22:38	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	116		37 - 120		02/08/24 10:57	02/09/24 22:38	1
Nitrobenzene-d5 (Surr)	94		26 - 120		02/08/24 10:57	02/09/24 22:38	1
p-Terphenyl-d14 (Surr)	121		64 - 127		02/08/24 10:57	02/09/24 22:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0041	mg/L			02/08/24 21:55	1

Client Sample Results

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

Job ID: 480-216887-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-216887-14

Date Collected: 02/05/24 00:00

Matrix: WQ

Date Received: 02/07/24 10:30

Method: SW846 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			02/07/24 23:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/24 23:36	1
Toluene	ND		1.0	0.51	ug/L			02/07/24 23:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/07/24 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					02/07/24 23:36	1
4-Bromofluorobenzene (Surr)	99		73 - 120					02/07/24 23:36	1
Dibromofluoromethane (Surr)	103		75 - 123					02/07/24 23:36	1
Toluene-d8 (Surr)	100		80 - 120					02/07/24 23:36	1

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 # 480-222956-1

Analyses Performed By:
Eurofins Buffalo
Amherst, New York

Report # 55890R
Review Level: Tier III
Project: 30174322.2

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-222956-1 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	480-222956-1	Water	8/28/2024		X	X	X
PRMW-2S	480-222956-2	Water	8/28/2024		X	X	X
PRMW-2D	480-222956-3	Water	8/28/2024		X	X	X
PRMW-3S	480-222956-4	Water	8/28/2024		X	X	X
PRMW-3D	480-222956-5	Water	8/28/2024		X	X	X
PRMW-4S	480-222956-6	Water	8/29/2024		X	X	X
PRMW-5S	480-222956-7	Water	8/29/2024		X	X	X
PRMW-5D	480-222956-8	Water	8/28/2024		X	X	X
PRMW-6S	480-222956-9	Water	8/28/2024		X	X	X
PRMW-6D	480-222956-10	Water	8/28/2024		X	X	X
DUP-20240829	480-222956-11	Water	8/28/2024	PRMW-3S	X	X	X
TRIP BLANK	480-222956-12	Water	8/28/2024		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

Sample collection date for samples PRMW-4S and PRMW-5S were updated as 08/28/24 instead of 08/29/24. Form1s and text updated as per the chain if custody.

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.

The samples that exceeded temperature preservation are presented in the following table.

Sample IDs	Temperature	Criteria
PRMW-1S PRMW-2S PRMW-2D PRMW-3S PRMW-3D PRMW-4S PRMW-5S PRMW-5D PRMW-6S PRMW-6D DUP-20240829 TRIP BLANK	> 10°C	< 6°C

Sample results associated with sample locations analyzed by analytical method SW-846 8260C were qualified, as specified in the table below. All other samples met temperature preservation requirements.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Temperature > 6°C	J	UJ

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.

Toluene was detected in the associated TRIP BLANK; however, the associated sample results were non-detect. Therefore, no other qualification of the sample results was required.

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-20240829	All target compounds	U	U	AC

Notes:

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/Preservation		X	X			
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks/Field 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						

Data Usability Summary Report

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.

The samples that exceeded temperature preservation are presented in the following table.

Sample ID	Temperature	Criteria
PRMW-1S PRMW-2S PRMW-2D PRMW-3S PRMW-3D PRMW-4S PRMW-5S PRMW-5D PRMW-6S PRMW-6D DUP-20240829	> 10°C	< 6°C

Sample results associated with sample locations analyzed by analytical method SW-846 8270D were qualified, as specified in the table below. All other samples met temperature preservation requirements.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Temperature > 6°C	J	UJ

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.

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-20240829	All target compounds	U	U	AC

Notes:

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 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/Preservation		X	X			
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks/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		
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		

Data Usability Summary Report

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.

The samples that exceeded temperature preservation are presented in the following table.

Sample ID	Temperature	Criteria
PRMW-1S PRMW-2S PRMW-2D PRMW-3S PRMW-3D PRMW-4S PRMW-5S PRMW-5D PRMW-6S PRMW-6D DUP-20240829	> 10°C	< 6°C

Sample results associated with sample locations analyzed by analytical method 9012B were qualified, as specified in the table below. All other samples met temperature preservation requirements.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Temperature > 6°C	J	UJ

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

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.

All analytes associated with calibration standard recoveries were within control limits, with the exception of the analytes presented in the following table.

Sample ID	Initial/Continuing	Analyte	Standard Recovery
PRMW-1S PRMW-2D PRMW-3D PRMW-4S	CCV	Cyanide	112%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Control Limit	Sample Result	Qualification
< 90%	Non-detect	J
	Detect	UJ
> 110%	Non-detect	J
	Detect	UJ

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.

Data Usability Summary Report

The MS/MSD analysis performed on samples PRMW-2D, PRMW-5D, PRMW-2S and PRMW-3S. The MS/MSD analysis exhibited acceptable recoveries and RPDs. All analytes associated with MS recoveries were within control limits with the exception of the following analytes present in the table below.

Sample ID	Analyte	MS Recovery
PRMW-2S	Cyanide, Total	146%

The criteria used to evaluate MS recoveries are presented in the following table. In the case of an MS deviation, the sample results are qualified. The qualifications are applied to all sample results associated with this SDG.

Control limit	Sample Result	Qualification
MS percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS percent recovery <30%	Non-detect	R
	Detect	J
MS percent recovery >125%	Non-detect	No Action
	Detect	J

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 sample within 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-20240829	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 (LCS) Analysis

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

The LCS analysis exhibited recoveries 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/Preservation		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

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹			Noncompliance
					VOC	SVOC	CYANIDE	
480-222956-1	8/28/2024	SW846	PRMW-1S	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance, CCV %D
	8/28/2024	SW846	PRMW-2S	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance, MS %R recovery
	8/28/2024	SW846	PRMW-2D	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance, CCV %D
	8/28/2024	SW846	PRMW-3S	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance
	8/28/2024	SW846	PRMW-3D	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance, CCV %D
	8/28/2024	SW846	PRMW-4S	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance, CCV %D
	8/28/2024	SW846	PRMW-5S	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance
	8/28/2024	SW846	PRMW-5D	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance
	8/28/2024	SW846	PRMW-6S	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance
	8/28/2024	SW846	PRMW-6D	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance

DATA USABILITY SUMMARY REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹			Noncompliance
					VOC	SVOC	CYANIDE	
	8/28/2024	SW846	DUP-20240829	Water	No	No	No	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance
	8/28/2024	SW846	TRIP BLANK	Water	No	--	--	VOC – Temperature exceedance SVOC – Temperature exceedance Cyanide - Temperature exceedance

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.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:



DATE: September 23, 2024

PEER REVIEW: Joe Houser

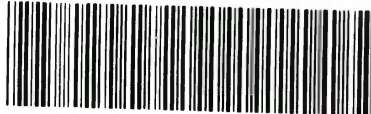
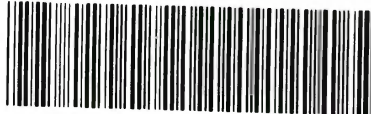
DATE: September 24, 2024

Chain of Custody Corrected Sample Analysis Data Sheets

Chain of Custody Record



Environment Testing

Client Information		Sampler: <i>Kathlyn Fleming B Adam Sjorsson</i>		Lab PM: Schove, John R		Carryover: <i>Syracuse</i>		COC No: 480-195975-36782.1				
Client Contact: Nicholas Beyrle		Phone: <i>619-727-1921</i>		E-Mail: John.Schove@et.eurofinsus.com		State of Origin: <i>NY #225</i>		Page: Page 1 of 2				
Company: Arcadis U.S., Inc.		PWSID:		Analysis Requested								
Address: 295 Woodcliff Drive, Suite 301		Due Date Requested:		 480-222956 Chain of Custody								
City: Fairport		TAT Requested (days):										
State, Zip: NY, 14450		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Phone:		PO #: 4506628846										
Email: nicholas.beyrle@arcadis.com		WO #:										
Project Name: NYSEG Former MGP Site - Penn Yan		Project #: 48024595		 480-222956 Chain of Custody								
Site: New York		SSOW#:										
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/MS (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number	Special Instructions/Note:
				Preservation Code:				A	N	B		
PRMW-1S		8/28/24	1040	G	Water	N	N	X	X	X	6	
PRMW-2S		8/28/24	1205	G	Water	N	N	X	X	X	6	
PRMW-2D		8/28/24	1325	G	Water	N	N	X	X	X	6	
PRMW-3S		8/28/24	1240	G	Water	N	N	X	X	X	18	
PRMW-3D		8/28/24	1445	G	Water	N	N	X	X	X	6	
PRMW-4S		8/29/24	0920	G	Water	N	N	X	X	X	6	
PRMW-5S		8/29/24	0835	G	Water	N	N	X	X	X	6	
PRMW-5D		8/28/24	1440	G	Water	N	N	X	X	X	6	
PRMW-6S		8/28/24	1110	G	Water	N	N	X	X	X	6	
PRMW-6D		8/28/24	0955	G	Water	N	N	X	X	X	6	
PRMW-1D					Water						6	
Possible Hazard Identification												
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological												
Deliverable Requested: I, II, III, IV, Other (specify)						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements:												
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____												
Relinquished by: <i>Adam Sjorsson</i>		Date/Time: 8/29/24/1252		Company: Arcadis		Received by: KS		Date/Time: 8/29/24/1252		Company:		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 10.1, 10.3, 10.5 #1/ice								

Ver: 06/08/2021

Chain of Custody Record

Client Information		Sampler: <u>Kaitlyn Fleming B</u> <u>Adam Svensson</u>		Lab PM: Schove, John R		Carrier: <u>Syracuse</u>		COC No: 190-195975-36782.2																															
Client Contact: Nicholas Beyrle		Phone: <u>619-727-1921</u>		E-Mail: John.Schove@et.eurofinsus.com		State of Origin: <u>NY</u>		Page: Page 2 of 2																															
Company: Arcadis U.S., Inc.		PWSID:		Analysis Requested																																			
Address: 295 Woodcliff Drive, Suite 301		Due Date Requested:		<table border="1"><thead><tr><th>Field Filtered Sample (Yes or No)</th><th>Perform MS/MS (Yes or No)</th><th>8260C - BTEX</th><th>8270D_LL - Low Level PAH Semivolatiles</th><th>9012B - Cyanide, Total</th><th>Total Number of containers</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>						Field Filtered Sample (Yes or No)	Perform MS/MS (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number of containers																								
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City: Fairport		TAT Requested (days):		<table border="1"><thead><tr><th>Preservation Codes:</th></tr><tr><td>A - HCL</td></tr><tr><td>N - None</td></tr><tr><td>B - NaOH</td></tr></thead></table>						Preservation Codes:	A - HCL	N - None	B - NaOH																										
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Other:																																							
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Email: nicholas.beyrle@arcadis.com		WO #:																																					
Project Name: NYSEG Former MGP Site - Penn Yan		Project #: 48024595		<table border="1"><thead><tr><th>Special Instructions/Note:</th></tr></thead></table>						Special Instructions/Note:																													
Special Instructions/Note:																																							
Site: New York		SSOW#:																																					

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/MS (Yes or No)	8260C - BTEX	8270D_LL - Low Level PAH Semivolatiles	9012B - Cyanide, Total	Total Number of containers	Special Instructions/Note:
TMW-2DR				Water	X	X	A	N	B		
<u>DUP-20240829</u>	<u>8/28/24</u>	<u>—</u>	<u>G</u>	Water	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>6</u>	
				Water							
				Water							
				Water							
				Water							
				Water							
<u>TRIP BLANK</u>				Water							
<u>TRIP BLANK</u>	<u>—</u>	<u>—</u>	<u>—</u>	Water	<u>N</u>	<u>N</u>	<u>X</u>			<u>2</u>	
<u>FIELD BLANK</u>				Water							
<u>EQUIPMENT BLANK</u>				Water							

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> 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: <u>Adam Svensson</u>		Date/Time: <u>8/29/24 1252</u>		Company: <u>Arcadis</u>		Received by: <u>KS</u>		
Relinquished by:		Date/Time:		Company:		Date/Time: <u>8/29/24 1252</u>		
Relinquished by:		Date/Time:		Company:		Date/Time:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-1S

Lab Sample ID: 480-222956-1

Date Collected: 08/28/24 10:40

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 00:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 00:16	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 00:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		08/30/24 00:16	1
4-Bromofluorobenzene (Surr)	105		73 - 120		08/30/24 00:16	1
Dibromofluoromethane (Surr)	112		75 - 123		08/30/24 00:16	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 00:16	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.53	0.038	ug/L		08/30/24 13:14	09/03/24 13:20	1
Acenaphthylene	ND		0.32	0.059	ug/L		08/30/24 13:14	09/03/24 13:20	1
Anthracene	ND		0.53	0.036	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[a]anthracene	ND		0.32	0.036	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[b]fluoranthene	ND		0.32	0.066	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[g,h,i]perylene	ND		0.53	0.061	ug/L		08/30/24 13:14	09/03/24 13:20	1
Benzo[k]fluoranthene	ND		0.32	0.074	ug/L		08/30/24 13:14	09/03/24 13:20	1
Chrysene	ND		0.53	0.078	ug/L		08/30/24 13:14	09/03/24 13:20	1
Dibenz(a,h)anthracene	ND		0.53	0.074	ug/L		08/30/24 13:14	09/03/24 13:20	1
Fluoranthene	ND		0.53	0.084	ug/L		08/30/24 13:14	09/03/24 13:20	1
Fluorene	ND		0.53	0.061	ug/L		08/30/24 13:14	09/03/24 13:20	1
Indeno[1,2,3-cd]pyrene	ND		0.53	0.12	ug/L		08/30/24 13:14	09/03/24 13:20	1
Naphthalene	ND		1.1	0.067	ug/L		08/30/24 13:14	09/03/24 13:20	1
Phenanthrene	ND		0.21	0.065	ug/L		08/30/24 13:14	09/03/24 13:20	1
Pyrene	ND		0.53	0.080	ug/L		08/30/24 13:14	09/03/24 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		37 - 120	08/30/24 13:14	09/03/24 13:20	1
Nitrobenzene-d5 (Surr)	81		26 - 120	08/30/24 13:14	09/03/24 13:20	1
p-Terphenyl-d14 (Surr)	106		64 - 127	08/30/24 13:14	09/03/24 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/06/24 10:20	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-2S

Lab Sample ID: 480-222956-2

Date Collected: 08/28/24 12:05

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 00:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 00:38	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 00:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		08/30/24 00:38	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 00:38	1
Dibromofluoromethane (Surr)	109		75 - 123		08/30/24 00:38	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 00:38	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.52	0.038	ug/L		08/30/24 13:14	09/03/24 13:47	1
Acenaphthylene	ND		0.31	0.058	ug/L		08/30/24 13:14	09/03/24 13:47	1
Anthracene	ND		0.52	0.035	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[a]anthracene	ND		0.31	0.035	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[a]pyrene	ND		0.19	0.14	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[b]fluoranthene	ND		0.31	0.066	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[g,h,i]perylene	ND		0.52	0.060	ug/L		08/30/24 13:14	09/03/24 13:47	1
Benzo[k]fluoranthene	ND		0.31	0.073	ug/L		08/30/24 13:14	09/03/24 13:47	1
Chrysene	ND		0.52	0.077	ug/L		08/30/24 13:14	09/03/24 13:47	1
Dibenz(a,h)anthracene	ND		0.52	0.073	ug/L		08/30/24 13:14	09/03/24 13:47	1
Fluoranthene	ND		0.52	0.083	ug/L		08/30/24 13:14	09/03/24 13:47	1
Fluorene	ND		0.52	0.060	ug/L		08/30/24 13:14	09/03/24 13:47	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.11	ug/L		08/30/24 13:14	09/03/24 13:47	1
Naphthalene	ND		1.0	0.067	ug/L		08/30/24 13:14	09/03/24 13:47	1
Phenanthrene	ND		0.21	0.065	ug/L		08/30/24 13:14	09/03/24 13:47	1
Pyrene	ND		0.52	0.079	ug/L		08/30/24 13:14	09/03/24 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		37 - 120	08/30/24 13:14	09/03/24 13:47	1
Nitrobenzene-d5 (Surr)	80		26 - 120	08/30/24 13:14	09/03/24 13:47	1
p-Terphenyl-d14 (Surr)	105		64 - 127	08/30/24 13:14	09/03/24 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	F+ J	0.010	0.0041	mg/L			09/09/24 09:23	1

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-2D

Lab Sample ID: 480-222956-3

Date Collected: 08/28/24 13:25

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 01:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 01:00	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 01:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		08/30/24 01:00	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 01:00	1
Dibromofluoromethane (Surr)	109		75 - 123		08/30/24 01:00	1
Toluene-d8 (Surr)	111		80 - 120		08/30/24 01:00	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.50	0.036	ug/L		08/30/24 13:14	09/03/24 14:15	1
Acenaphthylene	ND		0.30	0.056	ug/L		08/30/24 13:14	09/03/24 14:15	1
Anthracene	ND		0.50	0.034	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[b]fluoranthene	ND		0.30	0.063	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[g,h,i]perylene	ND		0.50	0.058	ug/L		08/30/24 13:14	09/03/24 14:15	1
Benzo[k]fluoranthene	ND		0.30	0.070	ug/L		08/30/24 13:14	09/03/24 14:15	1
Chrysene	ND		0.50	0.074	ug/L		08/30/24 13:14	09/03/24 14:15	1
Dibenz(a,h)anthracene	ND		0.50	0.070	ug/L		08/30/24 13:14	09/03/24 14:15	1
Fluoranthene	ND		0.50	0.080	ug/L		08/30/24 13:14	09/03/24 14:15	1
Fluorene	ND		0.50	0.058	ug/L		08/30/24 13:14	09/03/24 14:15	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.11	ug/L		08/30/24 13:14	09/03/24 14:15	1
Naphthalene	ND		1.0	0.064	ug/L		08/30/24 13:14	09/03/24 14:15	1
Phenanthrene	ND		0.20	0.062	ug/L		08/30/24 13:14	09/03/24 14:15	1
Pyrene	ND		0.50	0.076	ug/L		08/30/24 13:14	09/03/24 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	99		37 - 120	08/30/24 13:14	09/03/24 14:15	1
Nitrobenzene-d5 (Surr)	77		26 - 120	08/30/24 13:14	09/03/24 14:15	1
p-Terphenyl-d14 (Surr)	107		64 - 127	08/30/24 13:14	09/03/24 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/06/24 10:42	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-3S

Lab Sample ID: 480-222956-4

Date Collected: 08/28/24 12:40

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 01:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 01:22	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 01:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		08/30/24 01:22	1
4-Bromofluorobenzene (Surr)	105		73 - 120		08/30/24 01:22	1
Dibromofluoromethane (Surr)	111		75 - 123		08/30/24 01:22	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 01:22	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.48	0.034	ug/L		08/30/24 13:14	09/03/24 12:52	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 12:52	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 12:52	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 12:52	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 12:52	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 12:52	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 12:52	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 12:52	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 12:52	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 12:52	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 12:52	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		37 - 120	08/30/24 13:14	09/03/24 12:52	1
Nitrobenzene-d5 (Surr)	81		26 - 120	08/30/24 13:14	09/03/24 12:52	1
p-Terphenyl-d14 (Surr)	110		64 - 127	08/30/24 13:14	09/03/24 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/06/24 11:35	1

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Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-3D

Lab Sample ID: 480-222956-5

Date Collected: 08/28/24 14:45

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 01:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 01:44	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 01:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 01:44	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 01:44	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 01:44	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 01:44	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.48	0.034	ug/L		08/30/24 13:14	09/03/24 14:42	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 14:42	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 14:42	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 14:42	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 14:42	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 14:42	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 14:42	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 14:42	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 14:42	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 14:42	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 14:42	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		37 - 120	08/30/24 13:14	09/03/24 14:42	1
Nitrobenzene-d5 (Surr)	75		26 - 120	08/30/24 13:14	09/03/24 14:42	1
p-Terphenyl-d14 (Surr)	104		64 - 127	08/30/24 13:14	09/03/24 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/06/24 10:48	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-4S

Lab Sample ID: 480-222956-6

Date Collected: ~~08/28/24~~ 09:20 08/29/24

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 02:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 02:06	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 02:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		08/30/24 02:06	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 02:06	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 02:06	1
Toluene-d8 (Surr)	111		80 - 120		08/30/24 02:06	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.51	0.036	ug/L		08/30/24 13:14	09/03/24 15:10	1
Acenaphthylene	ND		0.30	0.057	ug/L		08/30/24 13:14	09/03/24 15:10	1
Anthracene	ND		0.51	0.034	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[a]anthracene	ND		0.30	0.034	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[a]pyrene	ND		0.18	0.13	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[b]fluoranthene	ND		0.30	0.064	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[g,h,i]perylene	ND		0.51	0.059	ug/L		08/30/24 13:14	09/03/24 15:10	1
Benzo[k]fluoranthene	ND		0.30	0.071	ug/L		08/30/24 13:14	09/03/24 15:10	1
Chrysene	ND		0.51	0.075	ug/L		08/30/24 13:14	09/03/24 15:10	1
Dibenz(a,h)anthracene	ND		0.51	0.071	ug/L		08/30/24 13:14	09/03/24 15:10	1
Fluoranthene	ND		0.51	0.081	ug/L		08/30/24 13:14	09/03/24 15:10	1
Fluorene	ND		0.51	0.059	ug/L		08/30/24 13:14	09/03/24 15:10	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.11	ug/L		08/30/24 13:14	09/03/24 15:10	1
Naphthalene	ND		1.0	0.065	ug/L		08/30/24 13:14	09/03/24 15:10	1
Phenanthrene	ND		0.20	0.063	ug/L		08/30/24 13:14	09/03/24 15:10	1
Pyrene	ND		0.51	0.077	ug/L		08/30/24 13:14	09/03/24 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	94		37 - 120	08/30/24 13:14	09/03/24 15:10	1
Nitrobenzene-d5 (Surr)	82		26 - 120	08/30/24 13:14	09/03/24 15:10	1
p-Terphenyl-d14 (Surr)	106		64 - 127	08/30/24 13:14	09/03/24 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/06/24 10:51	1

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Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-5S

Lab Sample ID: 480-222956-7

Date Collected: ~~08/26/24~~ 08:35 08/29/24

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.9	J	1.0	0.41	ug/L			08/30/24 02:28	1
Ethylbenzene	1.1	J	1.0	0.74	ug/L			08/30/24 02:28	1
Toluene	ND	UU	1.0	0.51	ug/L			08/30/24 02:28	1
Xylenes, Total	ND	UU	2.0	0.66	ug/L			08/30/24 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		08/30/24 02:28	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 02:28	1
Dibromofluoromethane (Surr)	111		75 - 123		08/30/24 02:28	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 02:28	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.5	J	2.4	0.17	ug/L		08/30/24 13:14	09/03/24 15:37	5
Acenaphthylene	0.61	J J	1.4	0.27	ug/L		08/30/24 13:14	09/03/24 15:37	5
Anthracene	0.19	J J	2.4	0.16	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[a]anthracene	ND	UU	1.4	0.16	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[a]pyrene	ND		0.86	0.62	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[b]fluoranthene	ND		1.4	0.30	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[g,h,i]perylene	ND		2.4	0.28	ug/L		08/30/24 13:14	09/03/24 15:37	5
Benzo[k]fluoranthene	ND		1.4	0.33	ug/L		08/30/24 13:14	09/03/24 15:37	5
Chrysene	ND		2.4	0.35	ug/L		08/30/24 13:14	09/03/24 15:37	5
Dibenz(a,h)anthracene	ND		2.4	0.33	ug/L		08/30/24 13:14	09/03/24 15:37	5
Fluoranthene	0.66	J J	2.4	0.38	ug/L		08/30/24 13:14	09/03/24 15:37	5
Fluorene	1.6	J J	2.4	0.28	ug/L		08/30/24 13:14	09/03/24 15:37	5
Indeno[1,2,3-cd]pyrene	ND	UU	2.4	0.52	ug/L		08/30/24 13:14	09/03/24 15:37	5
Naphthalene	3.4	J J	4.8	0.30	ug/L		08/30/24 13:14	09/03/24 15:37	5
Phenanthrene	0.37	J J	0.95	0.30	ug/L		08/30/24 13:14	09/03/24 15:37	5
Pyrene	0.40	J J	2.4	0.36	ug/L		08/30/24 13:14	09/03/24 15:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		37 - 120	08/30/24 13:14	09/03/24 15:37	5
Nitrobenzene-d5 (Surr)	48		26 - 120	08/30/24 13:14	09/03/24 15:37	5
p-Terphenyl-d14 (Surr)	72		64 - 127	08/30/24 13:14	09/03/24 15:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.020	J	0.010	0.0041	mg/L			09/09/24 09:29	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-5D

Lab Sample ID: 480-222956-8

Date Collected: 08/28/24 14:40

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 02:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 02:50	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 02:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 02:50	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 02:50	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 02:50	1
Toluene-d8 (Surr)	113		80 - 120		08/30/24 02:50	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.48	0.034	ug/L		08/30/24 13:14	09/03/24 16:05	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 16:05	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:05	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 16:05	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 16:05	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 16:05	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 16:05	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:05	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 16:05	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 16:05	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 16:05	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		37 - 120	08/30/24 13:14	09/03/24 16:05	1
Nitrobenzene-d5 (Surr)	59		26 - 120	08/30/24 13:14	09/03/24 16:05	1
p-Terphenyl-d14 (Surr)	104		64 - 127	08/30/24 13:14	09/03/24 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/03/24 13:18	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-6S

Lab Sample ID: 480-222956-9

Date Collected: 08/28/24 11:10

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 03:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 03:13	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 03:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		08/30/24 03:13	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 03:13	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 03:13	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 03:13	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.48	0.034	ug/L		08/30/24 13:14	09/03/24 16:32	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 16:32	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:32	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 16:32	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 16:32	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 16:32	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 16:32	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 16:32	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 16:32	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 16:32	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 16:32	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		37 - 120	08/30/24 13:14	09/03/24 16:32	1
Nitrobenzene-d5 (Surr)	44		26 - 120	08/30/24 13:14	09/03/24 16:32	1
p-Terphenyl-d14 (Surr)	91		64 - 127	08/30/24 13:14	09/03/24 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/03/24 13:24	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: PRMW-6D

Lab Sample ID: 480-222956-10

Date Collected: 08/28/24 09:55

Matrix: Ground Water

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 03:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 03:35	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 03:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 03:35	1
4-Bromofluorobenzene (Surr)	102		73 - 120		08/30/24 03:35	1
Dibromofluoromethane (Surr)	110		75 - 123		08/30/24 03:35	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 03:35	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.48	0.034	ug/L		08/30/24 13:14	09/03/24 17:00	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 17:00	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:00	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 17:00	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 17:00	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 17:00	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 17:00	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:00	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 17:00	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 17:00	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 17:00	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		37 - 120	08/30/24 13:14	09/03/24 17:00	1
Nitrobenzene-d5 (Surr)	47		26 - 120	08/30/24 13:14	09/03/24 17:00	1
p-Terphenyl-d14 (Surr)	103		64 - 127	08/30/24 13:14	09/03/24 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/03/24 13:28	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: DUP-20240829

Lab Sample ID: 480-222956-11

Date Collected: 08/28/24 00:00

Matrix: WQ

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 03:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/30/24 03:57	1
Toluene	ND		1.0	0.51	ug/L			08/30/24 03:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/30/24 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		08/30/24 03:57	1
4-Bromofluorobenzene (Surr)	104		73 - 120		08/30/24 03:57	1
Dibromofluoromethane (Surr)	108		75 - 123		08/30/24 03:57	1
Toluene-d8 (Surr)	110		80 - 120		08/30/24 03:57	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	UJ	0.48	0.034	ug/L		08/30/24 13:14	09/03/24 17:28	1
Acenaphthylene	ND		0.29	0.053	ug/L		08/30/24 13:14	09/03/24 17:28	1
Anthracene	ND		0.48	0.032	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[a]anthracene	ND		0.29	0.032	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[a]pyrene	ND		0.17	0.12	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[b]fluoranthene	ND		0.29	0.060	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[g,h,i]perylene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:28	1
Benzo[k]fluoranthene	ND		0.29	0.067	ug/L		08/30/24 13:14	09/03/24 17:28	1
Chrysene	ND		0.48	0.070	ug/L		08/30/24 13:14	09/03/24 17:28	1
Dibenz(a,h)anthracene	ND		0.48	0.067	ug/L		08/30/24 13:14	09/03/24 17:28	1
Fluoranthene	ND		0.48	0.076	ug/L		08/30/24 13:14	09/03/24 17:28	1
Fluorene	ND		0.48	0.055	ug/L		08/30/24 13:14	09/03/24 17:28	1
Indeno[1,2,3-cd]pyrene	ND		0.48	0.10	ug/L		08/30/24 13:14	09/03/24 17:28	1
Naphthalene	ND		0.95	0.061	ug/L		08/30/24 13:14	09/03/24 17:28	1
Phenanthrene	ND		0.19	0.059	ug/L		08/30/24 13:14	09/03/24 17:28	1
Pyrene	ND		0.48	0.072	ug/L		08/30/24 13:14	09/03/24 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		37 - 120	08/30/24 13:14	09/03/24 17:28	1
Nitrobenzene-d5 (Surr)	50		26 - 120	08/30/24 13:14	09/03/24 17:28	1
p-Terphenyl-d14 (Surr)	96		64 - 127	08/30/24 13:14	09/03/24 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND	UJ	0.010	0.0041	mg/L			09/03/24 13:31	1

Eurofins Buffalo

Client Sample Results

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

Job ID: 480-222956-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-222956-12

Date Collected: 08/28/24 00:00

Matrix: WQ

Date Received: 08/29/24 12:52

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	UJ	1.0	0.41	ug/L			08/30/24 04:19	1
Ethylbenzene	ND	UJ	1.0	0.74	ug/L			08/30/24 04:19	1
Toluene	0.52	J	1.0	0.51	ug/L			08/30/24 04:19	1
Xylenes, Total	ND	UJ	2.0	0.66	ug/L			08/30/24 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		08/30/24 04:19	1
4-Bromofluorobenzene (Surr)	103		73 - 120		08/30/24 04:19	1
Dibromofluoromethane (Surr)	111		75 - 123		08/30/24 04:19	1
Toluene-d8 (Surr)	112		80 - 120		08/30/24 04:19	1

Appendix E

Field Sampling Logs

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-15

Client / Job Number: NYSEG / 30174322

Date: 2/5/2024

Weather: cloudy, 33°

Time In: 1000

Time Out: 1200

Well Information

Depth to Water: 9.91 (feet TIC)
Total Depth: 29.69 (feet TIC)
Length of Water Column: 19.78 (feet)
Volume of Water in Well: 3.22 (gal)
Screen Interval: NA (feet)
Depth to pump Intake: ~28 (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:
Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: 110 (min)
Average Pumping Rate: 120 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
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
Volume Purged (gal)	1020	1025	1030	1035	1040	1045	1050	1055	1100	1105	1110	1115	1120
Rate (mL/min)		0.5				1.0				1.5			
Depth to Water (ft.)	120	120	120	120	120	120	120	120	120	120	120	120	120
pH	11.99	12.21	12.67	13.02	13.65	14.08	14.61	15.07	15.48	15.89	16.31	16.56	16.82
Temp. (C)	8.43	8.43	8.44	8.44	8.44	8.44	8.43	8.40	8.24	8.06	7.89	7.76	7.70
Conductivity (mS/cm)	10.9	10.7	10.7	10.6	10.5	10.7	10.8	10.8	10.9	11.0	10.9	10.5	10.6
Dissolved Oxygen (mg/l)	0.405	0.406	0.407	0.405	0.405	0.405	0.407	0.417	0.474	0.571	0.687	0.858	0.899
ORP (mV)	9.77	9.71	9.70	9.64	9.64	9.58	9.59	9.55	9.32	8.87	8.31	7.57	6.97
Turbidity (NTU)	106.3	81.9	66.1	40.4	40.5	52.2	59.8	63.5	71.5	81.4	90.7	100.1	105.0
Notes:	227.92	225.12	207.51	218.77	213.17	215.05	215.88	205.41	206.69	187.57	169.14	146.67	126.82

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane		Buffalo-Test America
Sample ID: PRMW-15		Sample Time: 1140
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID		Dup. Time:
Chain of Custody Signed By:	KCF	

Initial Purge:

Pump on @ 1010

Final Purge:

Pump off @ 1200

turbid, no odor
turbid, no odor

* Tried bringing tubing up & emptying flow thru cell.

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID:

Client / Job Number: NYSEG / 30174322

Date:

Weather:

Time In:

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:
Tubing/Bailer Material: St Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: (min)
Average Pumping Rate: (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: (gal) Did well go dry: Yes No

Conversion Factors				
gal / ft ³ of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L, 128/85 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
Volume Purged (gal)	1125	1130	1135	1140									
Rate (mL/min)	2.0			5									
Depth to Water (ft.)	120	120	120	A									
pH	17.32	17.63	18.03	M									
Temp. (C)	7.65	7.63	7.63	P									
Conductivity (mS/cm)	9.6	9.9	9.2	L									
Dissolved Oxygen (mg/l)	1.080	1.108	1.087	E									
ORP (mV)	7.13	7.27	7.02										
Turbidity (NTU)	110.4	112.7	118.7										
Notes:	151.22	129.07	119.63	↓									

Sampling Information

Problems / Observations

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

Initial Purge:

Final Purge:

See
Page 1

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-2S

Client / Job Number: NYSEG / 30174322

Date: 2/5/2024

Weather: cloudy, 33° + Partly Sunny

Time In: 1200

Time Out: 1340

Well Information

Depth to Water: 15.13 (feet TIC)
Total Depth: 22.96 (feet TIC)
Length of Water Column: 7.83 (feet)
Volume of Water in Well: 1.27 (gal)
Screen Interval: NA (feet)
Depth to pump Intake: ~21.5 (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:
Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: 85 (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 2.0 (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
Volume Purged (gal)	1215	1220	1225	1230	1235	1240	1245	1250	1255	1300	1305	1310	1315
Rate (mL/min)				0.5				1.0				1.5	S
Depth to Water (ft.)	15.32	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	M
pH	7.39	7.41	7.41	7.40	7.39	7.39	7.38	7.38	7.37	7.36	7.36	7.36	P
Temp. (C)	10.0	10.2	10.1	10.4	10.4	9.8	10.0	10.3	10.1	10.1	10.0	10.0	L
Conductivity (mS/cm)	1.665	1.667	1.677	1.708	1.743	1.764	1.775	1.787	1.803	1.821	1.830	1.838	E
Dissolved Oxygen (mg/l)	4.12	3.90	3.65	3.22	2.78	2.63	2.38	2.20	2.04	1.86	1.73	1.71	
ORP (mV)	203.3	185.6	171.0	163.9	159.9	158.0	158.0	159.1	160.6	163.3	165.7	168.2	
Turbidity (NTU)	23.96	21.10	14.64	11.20	11.30	7.96	7.78	7.35	6.61	5.74	5.54	5.00	↓
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-dichlorobenzene		Buffalo-Test America
Sample ID: PRMW-2S	Sample Time: 1315	
MS/MSD:	Yes <u>No</u>	
Duplicate:	Yes <u>No</u>	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	KCF	

Initial Purge:

Pump on @ 1210 ; clear, no odor

Final Purge:

Pump off @ 1335 ; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-2D

Client / Job Number: NYSEG / 30174322

Date: 2/5/2024

Weather: Partly cloudy, 33°

Time In: 1340

Time Out: 1450

Well Information

Depth to Water: 15.20 (feet TIC)
Total Depth: 36.78 (feet TIC)
Length of Water Column: 21.58 (feet)
Volume of Water in Well: 3.51 (gal)
Screen Interval: NA (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:
Tubing/Bailer Material: St. Steel (Polyethylene) Teflon Other:
Sampling Method: Bailer (Peristaltic) Grundfos Other:
Duration of Pumping: 50 (min)
Average Pumping Rate: 140 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
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
Volume Purged (gal)	1345	1350	1355	1400	1405	1410	1415	1420	1425	1430			
Rate (mL/min)	140	Flow	140	140	Flow	140	140	140	140	140			
Depth to Water (ft.)	16.03	Thru cell	18.02	18.60	Thru	20.01	20.56	21.02	22.22	S			
pH	7.72	cell	7.63	7.65	cell	7.76	7.84	7.86	7.86	A			
Temp. (C)	10.4	raise	10.7	10.2		10.3	10.3	10.1	10.2	M			
Conductivity (mS/cm)	0.664	tubing	0.653	0.651		0.643	0.641	0.640	0.639	P			
Dissolved Oxygen (mg/l)	1.83		1.29	1.63		3.91	5.05	5.28	5.40	L			
ORP (mV)	68.7		65.3	69.2		68.8	76.7	81.4	85.4	E			
Turbidity (NTU)	354.06		90.42	90.10		53.17	48.55	46.75	46.23				
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
Spill Response		Buffalo-Test America
Sample ID: PRMW-2D	Sample Time: 1430	
MSMSD: Yes	(No)	
Duplicate: Yes	(No)	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	KCF	

Initial Purge:

Pump on @ 1340 ~~1340~~ (KCF); slightly turbid, no odor

Final Purge:

Pump off @ 1450; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-35

Client / Job Number: NYSEG / 30174322

Date: 2-5-24

Weather: ~35, partly cloudy

Time In: 1220

Time Out: 1440

Well Information

Depth to Water: 6.92 (feet TIC)
Total Depth: 22.80 (feet TIC)
Length of Water Column: 15.88 (feet)
Volume of Water in Well: 2.59 (gal)
Screen Interval: n/a (feet)
Depth to pump Intake: ~21.5 (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:
Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: 127 (min)
Average Pumping Rate: ~153 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 1.25 (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
Volume Purged (gal)	1230	1235	1240	1245	1250	1255	1300	1305	1310	1315			
Rate (mL/min)	Pump on	200	180	150	150	150	150	125	125	A			
Depth to Water (ft.)	6.91	7.58	7.73	7.87	7.95	8.05	8.05	8.09		m			
pH		7.42	7.41	7.39	7.38	7.37	7.37	7.36	7.36	p			
Temp. (C)		8.2	7.4	7.5	7.9	7.5	7.9	7.7	7.5	L			
Conductivity (mS/cm)		0.632	0.618	0.611	0.610	0.598	0.603	0.599	0.599	E			
Dissolved Oxygen (mg/l)		2.47	2.10	1.74	1.60	1.39	1.25	1.24	1.20	D			
ORP (mV)		104.2	108.8	111.0	111.5	112.1	111.6	110.7	109.7				
Turbidity (NTU)		3.05	2.62	2.29	2.50	3.16	2.87	2.98	3.44				
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	12	Buffalo-Test America
PAHs	8	Buffalo-Test America
Cyanide	4	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-35	Sample Time: 1315	
MS/MSD: <u>Yes</u>	No	
Duplicate: <u>Yes</u>	No	
Duplicate ID: DUP-20240205	Dup. Time: —	
Chain of Custody Signed By: KCF		

Initial Purge: Pump on at 1230: clear, no odor

Final Purge: Pump off at 1437: clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-3D

Client / Job Number: NYSEG / 30174322

Date: 2-5-24

Weather: 35°F, Sun

Time In: 1440

Time Out: 1600

Well Information

Depth to Water: 5.53 (feet TIC)
Total Depth: 35.80 (feet TIC)
Length of Water Column: 30.27 (feet)
Volume of Water in Well: 4.93 (gal)
Screen Interval: n/a (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:
Tubing/Bailer Material: St. Steel (Polyethylene) Teflon Other:
Sampling Method: Bailer (Peristaltic) Grundfos Other:
Duration of Pumping: 70 (min)
Average Pumping Rate: ~100 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
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
Volume Purged (gal)	Pump			0.5			1.0		1.25			1.5	
Rate (mL/min)	0.1	120	120	120	100	100	100	100	100	100	100	100	
Depth to Water (ft.)	5.56	6.20	6.43	6.57	6.60	6.79	6.90	6.95	6.92	6.92	6.93	S	
pH		7.79	7.72	7.70	7.69	7.68	7.68	7.67	7.67	7.67	7.67	A	
Temp. (C)		7.3	7.7	7.9	7.8	8.0	7.8	7.8	8.2	8.4	8.3	m	
Conductivity (mS/cm)		0.427	0.423	0.420	0.418	0.416	0.416	0.415	0.415	0.416	0.417	p	
Dissolved Oxygen (mg/l)		3.06	1.46	0.89	0.71	0.59	0.52	0.48	0.45	0.44	0.43	L	
ORP (mV)		82.7	81.3	75.1	64.1	43.3	6.4	-7.5	-18.3	-20.2	-26.7	E	
Turbidity (NTU)		19.24	19.04	18.78	19.28	17.40	16.73	16.98	16.40	15.39	15.87	D	
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane		Buffalo-Test America
Sample ID: PRMW-3D	Sample Time: 1535	
MS/MSD: Yes	(No)	
Duplicate: Yes	(No)	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	KCF	

Initial Purge: Pump on at: 1440, clear, no odor

Final Purge: Pump off at: 1550: clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-45

Client / Job Number: NYSEG / 30174322

Date: 2/5/24

Weather: ~30°F, overcast

Time In: 1150

Time Out: 1200

Well Information

Depth to Water: 6.44 (feet TIC)
Total Depth: 27.10 (feet TIC)
Length of Water Column: 20.66 (feet)
Volume of Water in Well: 3.37 (gal)
Screen Interval: 1/2 (feet)
Depth to pump Intake: ~25.5 (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:
Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: 113 (min)
Average Pumping Rate: 130 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 2.75 (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
Volume Purged (gal)	1005	1010	1015	1020	1025	1030	1035	1040	1045	1050	1055	1100	1105
Rate (mL/min)	Pump			0.5			1.0			1.25		1.5	
Depth to Water (ft.)	6.43	6.41	7.85	7.82	7.83	7.85	7.89	7.92	7.96	7.95	7.92	7.92	7.92
pH		7.20	7.33	7.34	7.31	7.28	7.26	7.25	7.23	7.23	7.20	7.20	7.20
Temp. (C)		8.5	8.6	8.0	7.6	7.7	7.8	8.0	8.1	7.8	7.9	7.8	7.8
Conductivity (mS/cm)		0.585	0.592	0.595	0.621	0.652	0.696	0.735	0.767	0.783	0.836	0.859	0.878
Dissolved Oxygen (mg/l)		1.47	1.18	0.99	0.91	0.85	0.76	0.69	0.65	0.62	0.57	0.53	0.51
ORP (mV)		148.3	138.1	134.1	133.0	131.4	128.8	125.5	123.3	119.4	117.3	114.8	111.9
Turbidity (NTU)		57.40	63.02	69.15	59.48	49.48	42.19	34.40	30.81	30.59	28.10	24.79	24.40
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-45	Sample Time: 1140	
MS/MSD:	Yes	<u>No</u>
Duplicate:	Yes	<u>No</u>
Duplicate ID	—	Dup. Time: —
Chain of Custody Signed By:	KCF	

Initial Purge: Pump on at 1005: yellow/brown color, no odor

Final Purge: Pump off at 1158: Clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMU-45

Client / Job Number: NYSEG / 30174322

Date:

Weather:

Time In:

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:

Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:

Sampling Method: Bailer Peristaltic Grundfos Other:

Duration of Pumping: (min)

Average Pumping Rate: (ml/min)

Water-Quality Meter Type: YSI/Lamotte 2020

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
Volume Purged (gal)	1.75		2.0		2.5		S						
Rate (mL/min)	130	130	130	130	130	130	A						
Depth to Water (ft.)	7.92	7.93	7.94	7.94	7.94	7.94	M						
pH	7.20	7.18	7.18	7.17	7.17	7.17	P						
Temp. (C)	7.8	7.7	7.9	7.9	7.8	7.9	L						
Conductivity (mS/cm)	0.892	0.921	0.951	0.973	0.979	1.001	E						
Dissolved Oxygen (mg/l)	0.49	0.47	0.45	0.43	0.42	0.41	D						
ORP (mV)	108.3	105.9	103.0	100.2	97.5	95.4							
Turbidity (NTU)	21.94	22.06	20.35	19.75	19.60	18.16							
Notes:													

Sampling Information

Problems / Observations

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

Initial Purge:

Final Purge:

See page 1

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-55

Client / Job Number: NYSEG / 30174322

Date: 2-6-24

Weather: 30°F, sun

Time In: 0845

Time Out: 1040

Well Information

Depth to Water: 6.60 (feet TIC)
Total Depth: 22.58 (feet TIC)
Length of Water Column: 15.98 (feet)
Volume of Water in Well: 2.60 (gal)
Screen Interval: n/a (feet)
Depth to pump intake: ~ 21.5 (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:
Tubing/Bailer Material: St. Steel ~~Polyethylene~~ Teflon Other:
Sampling Method: Bailer ~~Peristaltic~~ Grundfos Other:
Duration of Pumping: 95 (min)
Average Pumping Rate: 130 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
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
Volume Purged (gal)	Pump		0.5		1.0		1.25		1.5		1.75		2.0
Rate (mL/min)	0.1	130	130	130	130	130	130	130	130	130	130	130	130
Depth to Water (ft.)	6.609	6.90	6.90	6.92	6.93	6.93	6.93	6.94	6.96	6.97	6.97	6.97	6.98
pH		7.43	7.38	7.35	7.34	7.34	7.34	7.33	7.33	7.33	7.33	7.33	7.32
Temp. (C)		7.8	7.7	7.7	7.8	7.8	8.0	8.1	8.1	8.2	8.2	8.1	8.3
Conductivity (mS/cm)		0.488	0.485	0.486	0.488	0.490	0.490	0.497	0.496	0.497	0.498	0.501	0.503
Dissolved Oxygen (mg/l)		0.94	0.68	0.52	0.48	0.41	0.38	0.34	0.33	0.32	0.31	0.30	0.30
ORP (mV)		93.6	90.8	78.1	68.2	43.1	29.5	9.1	2.7	-1.8	-7.9	-15.8	-20.2
Turbidity (NTU)		7.82	5.12	4.22	4.10	4.16	4.39	2.32	3.81	2.86	2.22	1.99	1.81
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-55	Sample Time: 100	
MS/MSD: Yes	No	
Duplicate: Yes	No	
Duplicate ID	Dup. Time: —	
Chain of Custody Signed By:	LCF	

Problems / Observations

Initial Purge: Pump on at 0900; clear, no odor

Final Purge: Pump off at 1035; clear, slight odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-5S

Client / Job Number: NYSEG / 30174322

Date:

Weather:

Time In:

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:

Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:

Sampling Method: Bailer Peristaltic Grundfos Other:

Duration of Pumping: (min)

Average Pumping Rate: (mL/min) Water-Quality Meter Type: YSI/Lamotte 2020

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
Volume Purged (gal)	1005	110											
Rate (mL/min)	130	A											
Depth to Water (ft.)	6.99	M											
pH	7.32	P											
Temp. (C)	8.4	L											
Conductivity (mS/cm)	0.503	E											
Dissolved Oxygen (mg/l)	0.29	D											
ORP (mV)	-24.5												
Turbidity (NTU)	2.13												
Notes:													

Sampling Information

Problems / Observations

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

Initial Purge:

Final Purge:

See Page 1

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-5D

Client / Job Number: NYSEG / 30174322

Date: 2-6-24

Weather: ~30°F, Sun

Time In: 1040

Time Out: 1145

Well Information

Depth to Water: 2.91 (feet TIC)
Total Depth: 31.14 (feet TIC)
Length of Water Column: 28.23 (feet)
Volume of Water in Well: 4.60 (gal)
Screen Interval: 1/2 (feet)
Depth to pump Intake: ~28 (feet TIC)

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

Purging Information

Purging Method: Bailer (Peristaltic) Grundfos Other:
Tubing/Bailer Material: St. Steel (Polyethylene) Teflon Other:
Sampling Method: Bailer (Peristaltic) Grundfos Other:
Duration of Pumping: 60 (min)
Average Pumping Rate: ~116 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 1.0 (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	0.853	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
Volume Purged (gal)	1040	1045	1050	1055	1100	1105	1110	1115	1120	1125			
Rate (mL/min)	Pump			0.5			0.75			S			
Depth to Water (ft.)	2.96	3.97	4.40	4.78	5.08	5.38	5.57	5.82	5.99	m			
pH		7.68	7.64	7.62	7.61	7.60	7.60	7.60	7.60	P			
Temp. (C)		8.9	8.8	9.1	9.2	9.5	9.6	9.5	9.5	L			
Conductivity (mS/cm)		0.401	0.397	0.398	0.396	0.396	0.396	0.397	0.397	E			
Dissolved Oxygen (mg/l)		1.98	0.97	0.67	0.52	0.44	0.38	0.37	0.34	D			
ORP (mV)		54.6	37.4	13.4	-4.9	-17.3	-26.3	-32.0	-35.8				
Turbidity (NTU)		15.7	13.35	13.22	12.59	12.56	13.12	13.69	13.41				
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
1,4-Dioxane	—	Buffalo-Test America
Sample ID: PRMW-5D	Sample Time: 1125	
MS/MSD:	Yes (No)	
Duplicate:	Yes (No)	
Duplicate ID	Dup. Time: —	
Chain of Custody Signed By:	KCF	

Initial Purge: Pump on at 1040: clear, no odor

Final Purge: Pump off at 1140: clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming Well ID: PRMW-6S
Client / Job Number: NYSEG / 30174322 Date: 2/6/2024
Weather: 27°, Sunny Time In: 0840 Time Out: 1010

Well Information

Depth to Water: 5.88 (feet TIC)
Total Depth: 23.05 (feet TIC)
Length of Water Column: 17.17 (feet)
Volume of Water in Well: 2.79 (gal)
Screen Interval: NA (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:
Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: 70 min (min)
Average Pumping Rate: 100 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: ~1.7 (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
Volume Purged (gal)	0905	0910	0915	0920	0925	0930	0935	0940	0945	0950			
Rate (mL/min)	100	100	100	100	100	100	100	100	100	A			
Depth to Water (ft.)	5.96	7.75	9.61	9.61	9.61	10.72	10.72	12.03		M			
pH	7.87	7.85	7.84		7.84	7.84	7.83	7.83	7.83	P			
Temp. (C)	7.8	7.3	8.0		8.5	8.7	8.8	9.0	8.9	L			
Conductivity (mS/cm)	0.405	0.405	0.399		0.401	0.402	0.403	0.403	0.405	F			
Dissolved Oxygen (mg/l)	0.74	0.48	0.37		0.24	0.22	0.20	0.20	0.21				
ORP (mV)	59.2	47.0	39.8		27.4	21.3	16.6	11.2	6.8				
Turbidity (NTU)	17.42	18.72	18.17		15.92	18.32	18.24	18.30	18.99				
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
MS/MSD		Buffalo-Test America
Sample ID: PRMW-6S		Sample Time: 0950
MS/MSD:	Yes	<u>No</u>
Duplicate:	Yes	<u>No</u>
Duplicate ID		Dup. Time:
Chain of Custody Signed By:	KCF	

Initial Purge:

Pump on @ 0900; clear, no odor

Final Purge:

Pump off @ 1010; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

NYSEG Penn Yan, NY

Event: February 2024 GWS

Sampling Personnel: Bailey KudlaWilliams / Kaitlyn Fleming

Well ID: PRMW-6D

Client / Job Number: NYSEG / 30174322

Date: 2/6/2024

Weather: Sunny, 27°

Time In: 1010

Time Out: 1110

Well Information

Depth to Water: 3.62 (feet TIC)
Total Depth: 36.89 (feet TIC)
Length of Water Column: 33.27 (feet)
Volume of Water in Well: 5.42 (gal)
Screen Interval: NA (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:
Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: 55 (min)
Average Pumping Rate: 125 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
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
Volume Purged (gal)	1020	1025	1030	1035	1040	1045	1050						
Rate (mL/min)	125	125	125	125	125	125	A						
Depth to Water (ft.)	4.19	4.19	4.65	4.65	4.92	4.92	M						
pH	7.86	7.86	7.86	7.86	7.86	7.86	P						
Temp. (C)	9.9	9.3	9.5	10.0	9.7	10.2	L						
Conductivity (mS/cm)	0.438	0.436	0.439	0.437	0.439	0.438	E						
Dissolved Oxygen (mg/l)	0.87	0.60	0.42	0.34	0.32	0.26							
ORP (mV)	-63.9	-71.4	-78.3	-91.9	-92.0	-101.4							
Turbidity (NTU)	5.96	6.30	6.54	5.87	5.98	5.38	↓						
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
PAHs	2	Buffalo-Test America
Cyanide	1	Buffalo-Test America
MS/MSD		Buffalo-Test America
Sample ID: PRMW-6D	Sample Time: 1050	
MS/MSD: Yes	<u>No</u>	
Duplicate: Yes	<u>No</u>	
Duplicate ID	Dup Time:	
Chain of Custody Signed By:	KCF	

Initial Purge:

Pump on @ 1015 ; clear, no odor

Final Purge:

Pump off @ 1110 ; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-15

Client / Job Number: NYSEG / 30229918.1

Date: 8/28/2024

Weather: cloudy, 73°

Time In: 0905 Time Out: 1105

Well Information

Depth to Water 10.57 (feet TIC)
Total Depth 29.68 (feet TIC)
Length of Water Column 19.11 (feet)
Volume of Water in Well 3.11 (gal)
Screen Interval NA (feet)
Depth to pump Intake ~28 (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:
Tubing/Bailer Material: St. Steel Polyethylene Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other:
Duration of Pumping: (min)
Average Pumping Rate: 120 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
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
Volume Purged (gal)	0915	0920	0925	0930	0935	0940	0945	0950	0955	1000	1005	1010	1015
Rate (ml/min)			0.5				1.0			1.5			
Depth to Water (ft)	11.27	12.39	13.01	13.55	14.18	14.71	15.28	15.85	16.23	16.63	17.10	17.50	17.92
pH	7.16	7.25	7.26	7.19	7.14	7.10	7.10	7.08	7.06	7.06	7.06	7.04	7.03
Temp. (C)	17.9	17.9	17.7	17.5	17.5	17.3	17.3	17.2	17.3	17.2	17.3	17.4	17.3
Conductivity (mS/cm)	1.553	1.366	1.340	1.460	1.587	1.749	1.766	1.882	1.961	2.046	2.107	2.242	2.343
Dissolved Oxygen (mg/l)	5.04	5.47	5.61	5.38	5.09	4.77	4.68	4.46	4.29	4.17	4.03	3.85	3.72
ORP (mV)	153.0	147.1	143.1	144.2	143.4	142.3	139.3	137.6	136.3	134.6	132.0	130.7	129.5
Turbidity (NTU)	185.68	186.80	175.33	160.48	146.95	133.97	128.08	112.80	105.06	98.83	93.96	72.85	115.17
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
Sample ID: PRMW-15	Sample Time: 1040	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	AJ5	

Initial Purge:

Pump on @ 0910; turbid, no odor

Final Purge:

Pump off @ 1100; turbid, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PMW-15

Client / Job Number: NYSEG / 30229918.1

Date: 8/28/2024

Weather:

Time In:

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
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other
Sampling Method:	Bailer	Peristaltic	Grundfos	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)		Water-Quality Meter Type:	YSILamotte 2020
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
Volume Purged (gal)	1020	1025	1030	1035	1040								
Rate (mL/min)	120	120	120	120	A								
Depth to Water (ft.)	18.34	18.68	19.09	19.72	M								
pH	7.02	7.02	7.01	7.00	P								
Temp. (C)	17.2	17.3	17.3	17.4	L								
Conductivity (mS/cm)	2.429	2.517	2.535	2.529	E								
Dissolved Oxygen (mg/l)	3.62	3.54	3.45	3.38									
ORP (mV)	127.9	126.3	125.2	120.6									
Turbidity (NTU)	88.08	83.46	85.21	81.39									
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs		Buffalo-Test America
Low-Level PAHs		Buffalo-Test America
Total Cyanide		Buffalo-Test America
		Buffalo-Test America
Sample ID:		Sample Time:
MSMSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID		Dup. Time
Chain of Custody Signed By:		

Initial Purge:

Final Purge:

See Page 1

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-25

Client / Job Number: NYSEG / 30229918 1

Date: 8/28/2023

Weather: cloudy, 76°

Time In: 1110

Time Out: 1225

Well Information

Depth to Water 15.91 (feet TIC)
Total Depth 23.03 (feet TIC)
Length of Water Column 7.12 (feet)
Volume of Water in Well 1.16 (gal)
Screen Interval NA (feet)
Depth to pump Intake ~21.5 (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
Tubing/Bailer Material St. Steel Polyethylene Teflon Other
Sampling Method Bailer Peristaltic Grundfos Other
Duration of Pumping 70 (min)
Average Pumping Rate 100 (ml/min) Water-Quality Meter Type YSI/Lamotte 2020
Total Volume Removed 1.7 (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
Volume Purged (gal)	1120	1125	1130	1135	1140	1145	1150	1155	1200	1205			
Rate (mL/min)	100	100	100	100	100	100	100	100	100	A			
Depth to Water (ft.)	16.12	16.15	16.15	16.19	16.19	16.19	16.19	16.19	16.19	M			
pH	7.36	7.29	7.30	7.29	7.28	7.27	7.25	7.25	7.25	P			
Temp. (C)	18.6	18.3	18.4	18.5	18.8	18.8	18.6	18.6	18.7	L			
Conductivity (mS/cm)	1.722	1.701	1.691	1.753	1.780	1.786	1.836	1.853	1.858	E			
Dissolved Oxygen (mg/l)	0.99	1.06	1.21	1.33	1.33	1.36	1.29	1.24	1.23				
ORP (mV)	144.8	136.0	125.3	115.2	107.2	102.2	100.2	98.0	93.8				
Turbidity (NTU)	8.34	12.05	16.20	19.28	23.66	23.50	23.93	23.28	23.10				
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
Sample ID: PRMW-25	Sample Time: 1205	
MS/MSD: Yes	<u>No</u>	
Duplicate: Yes	<u>No</u>	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	ATS	

Initial Purge:

Pump on @ 1115; clear, no odor

Final Purge:

Pump off @ 1225; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-2D

Client / Job Number: NYSEG / 30229918.1

Date: 8/28/2024

Weather: Partly cloudy, 75°

Time In: 1225 Time Out: 1345

Well Information

Depth to Water: 15.77 (feet TIC)
Total Depth: 37.32 (feet TIC)
Length of Water Column: 21.55 (feet)
Volume of Water in Well: 3.51 (gal)
Screen Interval: NA (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
Tubing/Bailer Material: St. Steel Teflon Other:
Sampling Method: Bailer Peristaltic Grundfos Other
Duration of Pumping: 70 (min)
Average Pumping Rate: 130 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed: 1.7 (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
Volume Purged (gal)	1235	1240	1245	1250	1255	1300	1305	1310	1315	1320	1325		
Rate (mL/min)			0.5			1.0			1.5		S		
Depth to Water (ft.)	130	130	130	130	130	130	130	130	130	130	A		
pH	17.15	18.55	19.02	19.80	20.23	20.94	22.08	22.70	23.40	24.27	M		
Temp. (C)	7.74	7.73	7.72	7.72	7.71	7.71	7.70	7.69	7.69	7.69	P		
Conductivity (mS/cm)	19.5	19.8	18.9	19.0	19.6	19.1	19.9	20.3	20.6	19.8	L		
Dissolved Oxygen (mg/l)	0.704	0.705	0.701	0.703	0.703	0.702	0.703	0.704	0.704	0.703	E		
ORP (mV)	1.23	1.17	1.12	1.08	1.05	1.04	1.01	0.99	0.99	0.99			
Turbidity (NTU)	104.9	96.2	88.9	82.3	73.8	70.0	62.5	56.3	50.9	53.0			
Notes:	24.85	24.92	26.65	30.39	30.31	30.02	30.37	30.49	30.07	30.56			

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
Sample ID: PRMW-2D	Sample Time: 1325	
MS/MSD: Yes <u>No</u>		
Duplicate: Yes <u>No</u>		
Duplicate ID: —	Dup. Time: —	
Chain of Custody Signed By: <u>ATS</u>		

Initial Purge:

Pump on @ 1230 ; clear, no odor

Final Purge:

Pump off @ 1340 ; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-35

Client / Job Number: NYSEG / 30229918.1

Date: 8/28/24

Weather: 75°F Cloudy

Time In: 1140

Time Out: 1330

Well Information

Depth to Water	7.18	(feet TIC)
Total Depth	22.79	(feet TIC)
Length of Water Column	15.61	(feet)
Volume of Water in Well	2.5	(gal)
Screen Interval	NA	(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
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	Other
Sampling Method:	Bailer	Peristaltic	Grundfos	Other
Duration of Pumping	90	(min)		
Average Pumping Rate:	150	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed:	1.3	(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
± 1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
Volume Purged (gal)	1200	1205	1210	1215	1220	1225	1230	1235	1240				
Rate (mL/min)	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.1	S				
Depth to Water (ft.)	150	150	150	150	150	150	150	150	A				
pH	7.53	7.72	7.90	8.00	8.11	8.21	8.31	8.41	m				
Temp. (C)	7.24	7.22	7.22	7.21	7.21	7.21	7.19	7.18	P				
Conductivity (mS/cm)	18.5	18.8	18.7	18.7	18.2	17.7	18.3	18.2	L				
Dissolved Oxygen (mg/l)	0.736	0.737	0.736	0.739	0.731	0.723	0.731	0.736	E				
ORP (mV)	3.21	1.04	0.81	0.72	0.67	0.64	0.61	0.59					
Turbidity (NTU)	107.8	92.7	80.9	73.0	68.2	64.3	61.9	58.7					
Notes:	18.20	9.03	7.26	2.46	2.51	1.12	1.25	1.36					

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	12	Buffalo-Test America
Low-Level PAHs	8	Buffalo-Test America
Total Cyanide	4	Buffalo-Test America
Sample ID	PRMW-35	Sample Time: 1240
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	DUP-20240828	Dup. Time: —
Chain of Custody Signed By:	AJS	

Initial Purge: pump on @ 1155

Clear, no odor

Final Purge: pump off @ 1325

Clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-3D

Client / Job Number: NYSEG / 30229918.1

Date: 8/28/24

Weather: 75°F cloudy

Time In: 1345

Time Out: 1500

Well Information

Depth to Water	5.83	(feet TIC)
Total Depth	35.75	(feet TIC)
Length of Water Column	29.92	(feet)
Volume of Water in Well	4.9	(gal)
Screen Interval	NA	(feet)
Depth to pump Intake	~34	(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
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other
Sampling Method	Bailer	Peristaltic	Grundfos	Other
Duration of Pumping	65	(min)		
Average Pumping Rate	150	(ml/min)	Water-Quality Meter Type	YSI/Lamotte 2020
Total Volume Removed	1.5	(gal)	Did well go dry:	Yes <input checked="" type="checkbox"/> 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
Volume Purged (gal)	1355	1400	1405	1410	1415	1420	1425	1430	1435	1440	1445		
Rate (mL/min)	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.1	1.2	1.3	S		
Depth to Water (ft.)	150	150	150	150	150	150	150	150	150	150	A		
pH	6.82	7.14	7.45	7.76	7.84	7.92	7.81	7.70	7.74	7.69	M		
Temp (C)	7.64	7.61	7.60	7.58	7.52	7.52	7.51	7.51	7.53	7.52	P		
Conductivity (mS/cm)	18.1	18.0	17.2	16.9	16.9	16.8	17.0	17.8	17.9	18.0	L		
Dissolved Oxygen (mg/l)	0.456	0.450	0.442	0.438	0.438	0.437	0.440	0.443	0.449	0.451	E		
ORP (mV)	3.41	3.25	0.98	1.54	1.01	0.78	0.67	0.63	0.63	0.61			
Turbidity (NTU)	259	-76.5	-99.9	-93.5	-99.4	-103.7	-107.2	-108.6	-113.0	-117.0			
Notes:	180.31	179.27	93.62	157.41	70.25	58.71	42.37	21.41	20.86	21.30			
	Emptied cell		Emptied cell	Emptied cell									

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
Sample ID: PRMW-3D	Sample Time: 1445	
MSMSD:	Yes <input checked="" type="checkbox"/> No	
Duplicate:	Yes <input checked="" type="checkbox"/> No	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By	AJS	

Problems / Observations

Initial Purge: pump on @ 1350
clear, no odor

Final Purge: pump off @ 1455
clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-45

Client / Job Number: NYSEG / 30229918.1

Date: 8/29/2024

Weather: Partly cloudy, 61°

Time In: 0750 Time Out: 0945

Well Information

Depth to Water 6.86 (feet TIC)
Total Depth 27.10 (feet TIC)
Length of Water Column 20.24 (feet)
Volume of Water in Well 3.29 (gal)
Screen Interval NA (feet)
Depth to pump Intake ~ 25.5 (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:
Tubing/Bailer Material St. Steel Polyethylene Teflon Other:
Sampling Method Bailer Peristaltic Grundfos Other:
Duration of Pumping: 110 (min)
Average Pumping Rate 130 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed 2.0 (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
Volume Purged (gal)	0800	0805	0810	0815	0820	0825	0830	0835	0840	0845	0850	0855	0900
Rate (mL/min)				0.5				1.0				1.5	
Depth to Water (ft.)	7.58	7.72	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75
pH	7.33	7.33	7.32	7.28	7.26	7.24	7.22	7.21	7.21	7.20	7.19	7.18	7.17
Temp. (C)	17.8	18.0	18.1	18.0	18.0	17.8	17.7	17.7	17.8	17.6	17.6	17.7	17.7
Conductivity (mS/cm)	0.811	0.810	0.831	0.905	0.979	1.040	1.079	1.101	1.143	1.163	1.195	1.228	1.255
Dissolved Oxygen (mg/l)	0.91	0.68	0.61	0.57	0.54	0.50	0.46	0.45	0.45	0.44	0.43	0.43	0.42
ORP (mV)	-75.2	-96.1	-101.8	-101.9	-100.4	-98.5	-97.0	-95.7	-94.4	-92.4	-90.5	-89.2	-87.2
Turbidity (NTU)	33.12	31.80	36.02	49.92	49.76	49.39	49.05	49.89	49.26	49.45	49.78	49.16	49.71
Notes:													

Sampling Information

Problems / Observations

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
Buffalo-Test America		
Sample ID: PRMW-45	Sample Time: 0920	
MS/MSD:	Yes	<u>No</u>
Duplicate:	Yes	<u>No</u>
Duplicate ID	Dup. Time: —	
Chain of Custody Signed By:	AJF	

Initial Purge:

Pump on @ 0755; clear, no odor

Final Purge:

Pump off @ 0940; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-45

Client / Job Number: NYSEG / 30229918.1

Date: 8/29/2024

Weather:

Time In:

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 4"

Purging Information

Purging Method Bailer Peristaltic Grundfos Other:
Tubing/Bailer Material St. Steel Polyethylene Teflon Other:
Sampling Method Bailer Peristaltic Grundfos Other:
Duration of Pumping (min)
Average Pumping Rate (ml/min) Water-Quality Meter Type YSI/Lamotte 2020
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
Volume Purged (gal)	0905	0910	0915	0920									
Rate (mL/min)	130	130	130	A									
Depth to Water (ft.)	7.75	7.75	7.75	M									
pH	7.15	7.15	7.14	P									
Temp. (C)	17.7	17.7	17.7	L									
Conductivity (mS/cm)	1.283	1.288	1.318	E									
Dissolved Oxygen (mg/l)	0.41	0.41	0.41										
ORP (mV)	-84.6	-83.5	-82.1										
Turbidity (NTU)	49.12	49.45	49.21										
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs		Buffalo-Test America
Low-Level PAHs		Buffalo-Test America
Total Cyanide		Buffalo-Test America
		Buffalo-Test America
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:

See Page 1

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-55

Client / Job Number: NYSEG / 30229918 1

Date: 8/29/24

Weather: 70°F cloudy

Time In: 0730

Time Out: 0900

Well Information

Depth to Water	6.28	(feet TIC)
Total Depth	22.58	(feet TIC)
Length of Water Column	16.30	(feet)
Volume of Water in Well	2.7	(gal)
Screen Interval	NA	(feet)
Depth to pump Intake	221	(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:
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other:
Sampling Method	Bailer	Peristaltic	Grundfos	Other:
Duration of Pumping	60	(min)		
Average Pumping Rate	150	(ml/min)	Water-Quality Meter Type	YSI/Lamotte 2020
Total Volume Removed	1.3	(gal)	Did well go dry:	Yes <input checked="" type="checkbox"/> 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
Volume Purged (gal)	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.1	S				
Rate (mL/min)	150	150	150	150	150	150	150	150	A				
Depth to Water (ft.)	6.48	6.49	6.50	6.51	6.52	6.52	6.52	6.52	m				
pH	7.43	7.38	7.38	7.38	7.38	7.38	7.38	7.38	P				
Temp (C)	16.6	16.2	16.4	16.6	16.6	16.7	16.8	16.9	L				
Conductivity (mS/cm)	0.521	0.515	0.516	0.519	0.521	0.524	0.525	0.527	E				
Dissolved Oxygen (mg/l)	4.23	1.29	0.95	0.86	0.78	0.74	0.72	0.69					
ORP (mV)	-107.0	-100.9	-101.9	-104.4	-108.6	-114.1	-117.8	-119.4					
Turbidity (NTU)	89.03	27.49	25.74	19.61	12.62	12.01	11.79	11.72					
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
		Buffalo-Test America
Sample ID: PRMW-55	Sample Time: 0835	
MS/MSD:	Yes <input checked="" type="checkbox"/> No	
Duplicate:	Yes <input checked="" type="checkbox"/> No	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: Pump on @ 0750

clear, no odor

Final Purge: pump off @ 0850

clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-5D

Client / Job Number: NYSEG / 30229918.1

Date: 8/28/2024

Weather: cloudy, 76°

Time In: 1400

Time Out: 1500

Well Information

Depth to Water 3.17 (feet TIC)
Total Depth 32.07 (feet TIC)
Length of Water Column 28.90 (feet)
Volume of Water in Well 4.71 (gal)
Screen Interval NA (feet)
Depth to pump intake ~28 (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
Tubing/Bailer Material St. Steel Polyethylene Teflon Other
Sampling Method Bailer Peristaltic Grundfos Other
Duration of Pumping 60 (min)
Average Pumping Rate 110 (ml/min) Water-Quality Meter Type: YSI/Lamotte 2020
Total Volume Removed 1.2 (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
Volume Purged (gal)	1405	1410	1415	1420	1425	1430	1435	1440					
Rate (mL/min)	110	110	110	110	110	110	110	A					
Depth to Water (ft.)	4.48	4.48	4.4	5.46	5.46	5.46	5.46	M					
pH	7.71	7.70	7.7	7.71	7.71	7.71	7.72	P					
Temp. (C)	19.8	20.1	19.4	19.5	19.1	18.8	18.1	L					
Conductivity (mS/cm)	0.465	0.465	0.465	0.463	0.463	0.460	0.462	E					
Dissolved Oxygen (mg/l)	0.63	0.50	0.45	0.41	0.40	0.38	0.36	I					
ORP (mV)	-135.6	-145.6	-150.0	-153.4	-155.0	-156.0	-156.8						
Turbidity (NTU)	46.31	41.66	45.78	45.57	45.10	45.81	45.46	↓					
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
		Buffalo-Test America
Sample ID: PRMW-5D	Sample Time: 1440	
MS/MSD:	Yes <u>No</u>	
Duplicate:	Yes <u>No</u>	
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge:

Pump on @ 1400; clear, no odor

Final Purge:

Pump off @ 1500; clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRMW-65

Client / Job Number: NYSEG / 30229918 1

Date: 8/28/24

Weather: 73°F cloudy

Time In: 10:20 Time Out: 11:30

Well Information

Depth to Water	6.02	(feet TIC)
Total Depth	23.09	(feet TIC)
Length of Water Column	17.07	(feet)
Volume of Water in Well	2.8	(gal)
Screen Interval	NA	(feet)
Depth to pump Intake	~22	(feet TIC)

Well Type	Flushmount	Shck-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
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other
Sampling Method	Bailer	Peristaltic	Grundfos	Other
Duration of Pumping	60	(min)		
Average Pumping Rate	150	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed	1.3	(gal)	Did well go dry:	Yes <input checked="" type="radio"/> No <input type="radio"/>

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:	1030 ¹	2	3	4	5	6	7	8	9	10	11	12	13
Volume Purged (gal)	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.1	S				
Rate (mL/min)	150	150	150	150	150	150	150	150	A				
Depth to Water (ft.)	6.16	7.68	8.69	9.51	10.34	11.17	12.00	12.96	m				
pH	7.61	7.60	7.59	7.58	7.57	7.58	7.58	7.59	P				
Temp. (C)	21.7	19.5	19.5	19.8	19.4	18.7	18.9	18.7	L				
Conductivity (mS/cm)	0.404	0.383	0.390	0.390	0.380	0.371	0.372	0.370	E				
Dissolved Oxygen (mg/l)	4.06	0.93	0.76	0.67	0.63	0.60	0.57	0.57					
ORP (mV)	-818	-127.6	-132.6	-139.8	-142.3	-145.6	-148.0	-150.6					
Turbidity (NTU)	13.14	9.75	1.94	4.12	3.08	3.71	3.81	1.28					
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
		Buffalo-Test America
Sample ID: PRMW-65		Sample Time: 1110
MS/MSD:	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Duplicate:	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Duplicate ID		Dup. Time:
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 1025

Clear, no odor

Final Purge: pump off @ 1125

Clear, no odor

GROUNDWATER SAMPLING LOG

Site: NYSEG Penn Yan Former MGP

Penn Yan, NY

Event: August 2024 GWS

Sampling Personnel: Adam Svensson / Kaitlyn Fleming

Well ID: PRmw-6D

Client / Job Number: NYSEG / 30229918 1

Date: 8/28/24

Weather: 75°F cloudy

Time In: 0700

Time Out: 1020

Well Information

Depth to Water	3.79	(feet TIC)
Total Depth	36.84	(feet TIC)
Length of Water Column	33.09	(feet)
Volume of Water in Well	5.4	(gal)
Screen Interval	NA	(feet)
Depth to pump Intake	~36	(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	Penstaltic	Grundfos	Other
Tubing/Bailer Material	St. Steel	Polyethylene	Teflon	Other
Sampling Method	Bailer	Penstaltic	Grundfos	Other
Duration of Pumping	70	(min)		
Average Pumping Rate	150	(ml/min)	Water-Quality Meter Type:	YSI/Lamotte 2020
Total Volume Removed	1.7	(gal)	Did well go dry:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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
Volume Purged (gal)	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.1	1.2	5			
Rate (mL/min)	150	150	150	150	150	150	150	150	150	A			
Depth to Water (ft)	4.39	4.62	4.85	4.91	4.98	4.98	4.99	4.99	4.99	m			
pH	7.64	7.56	7.58	7.58	7.58	7.59	7.59	7.59	7.60	P			
Temp. (C)	17.5	18.1	18.0	17.7	17.7	18.0	17.7	18.0	18.1	L			
Conductivity (mS/cm)	0.407	0.413	0.410	0.408	0.408	0.407	0.407	0.413	0.413	E			
Dissolved Oxygen (mg/l)	3.18	1.16	0.88	0.78	0.73	0.69	0.66	0.62	0.61				
ORP (mV)	-37.7	-44.7	-123.7	-133.2	-139.5	-142.5	-144.5	-147.3	-149.7				
Turbidity (NTU)	0.05	1.91	4.41	3.42	3.60	3.15	3.69	3.22	3.38				
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-Test America
Low-Level PAHs	2	Buffalo-Test America
Total Cyanide	1	Buffalo-Test America
		Buffalo-Test America
Sample ID: PRmw-6D		Sample Time: 0955
MS/MSD:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Duplicate:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Duplicate ID: —		Dup. Time: —
Chain of Custody Signed By:	AJS	

Problems / Observations

Initial Purge: pump on @ 0905
clear, no odor

Final Purge: pump off @ 1015
clear, no odor

Appendix F

Well Decommissioning Records

FIGURE 1

SITE NAME: NYSEG Penn Yan Former MGP
 Penn Yan, New York
MONITORING WELL FIELD INSPECTION LOG
NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.: No. 8620094
INSPECTOR: K. Fleming
DATE/TIME: 07/16/2024
WELL ID.: TMW-1D

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....	X	

	YES	NO
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:		
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED.....	NA	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Surface Road Box	
PROTECTIVE CASING MATERIAL TYPE:	Steel	
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	8 Inches	

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	63.20
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.12
MEASURE WELL DIAMETER (Inches):	2 Inches
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Good
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....	NA

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); **ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.**
 Well accessible to drill rig, no obstructions.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.
 Well in grass near sidewalk on east side of building.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT
 (e.g. Gas station, salt pile, etc.):
 None.

REMARKS:
 None.

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: NYSEG Former MGP Site	Well I.D.: TMW-1D
Site Location: Penn Yan, New York	Driller: Mark Eaves
Drilling Co.: Parratt-Wolff, Inc.	Inspector: Kaitlyn Fleming
	Date: 7/16/24

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*																																																
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Sean B. B. B.
Drilling Contractor

Department Representative

FIGURE 1

SITE NAME: NYSEG Penn Yan Former MGP
 Penn Yan, New York
MONITORING WELL FIELD INSPECTION LOG
NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.: No. 8620094
INSPECTOR: K. Fleming
DATE/TIME: 07/16/2024
WELL ID.: TMW-2D

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:		
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED.....	NA	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Surface Road Box	
PROTECTIVE CASING MATERIAL TYPE:	Steel	
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	8 Inches	

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

NA

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	39.21
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	1.50
MEASURE WELL DIAMETER (Inches):	2 Inches
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Good
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....	NA

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); **ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.**
Well accessible to drill rig, no obstructions.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Well in gravel on west side of building.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT
 (e.g. Gas station, salt pile, etc.):
None.

REMARKS:
None.

FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: NYSEG Former MGP Site	Well I.D.: TMW-2D
Site Location: Penn Yan, New York	Driller: Mark Eaves
Drilling Co.: Parratt-Wolff, Inc.	Inspector: Kaitlyn Fleming
	Date: 7/16/24

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Sean B. B.
Drilling Contractor

Department Representative

FIGURE 1

SITE NAME: NYSEG Penn Yan Former MGP
 Penn Yan, New York
 MONITORING WELL FIELD INSPECTION LOG
 NYSDEC WELL DECOMMISSIONING PROGRAM

SITE ID.: No. 8620094
INSPECTOR: K. Fleming
DATE/TIME: 07/16/2024
WELL ID.: TMW-2DR

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL I.D. VISIBLE?		X
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:		
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED.....	NA	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	Surface Road Box	
PROTECTIVE CASING MATERIAL TYPE:	Steel	
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	8 Inches	

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?	X	

NA

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	59.07
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	0.90
MEASURE WELL DIAMETER (Inches):	2 Inches
WELL CASING MATERIAL:	PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING:	Good
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	NA
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....	NA

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
 Well accessible to drill rig, no obstructions.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)
 AND ASSESS THE TYPE OF RESTORATION REQUIRED.
 Well in gravel on west side of building.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT
 (e.g. Gas station, salt pile, etc.):
 None.

REMARKS:
 None.

FIGURE 3 WELL DECOMMISSIONING RECORD

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Site Location: Penn Yan, New York	Driller: Mark Eaves
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Sean B. B.
Drilling Contractor

Department Representative

Appendix G

Former MGP Building Maintenance Photographic Log

Appendix G

Former MGP Building Maintenance Photographic Log



Periodic Review Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant
Penn Yan, New York



Photograph 1: Northeast-facing Window – Before



Photograph 2: Northeast-facing Window – After



Photograph 3: Southeast-facing Window – Before



Photograph 4: Southeast-facing Window – After

Appendix H

Request to Import Materials Document and NYSDEC Approval

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, NY 14604
United States
Phone: 585 385 0090
Fax: 585 546 1973
www.arcadis.com

Date: June 20, 2024, revised July 10, 2024
Our Ref: 30174322
Subject: **Request to Import Material - Revised**
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 New York State Electric & Gas Corporation (NYSEG), please find enclosed for your review and approval, Request to Import Material forms for proposed work at 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.

The adjacent property owner, Mrs. Cindy Rosato, is proposing to import Bank Run Gravel, Screened Gravel, and Rip-Rap material to the site to create parking for the site. Please see attached project narrative (Attachment 1) and project design map and profile (Attachment 2). Import request forms and associated information are included in Attachment 3. The mine is a NYSDEC registered mine (Permit No. 80856) and the mine owner attests that the material is virgin.

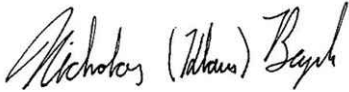
The Site Management Plan¹, prepared by AECOM, requires the soil cover at the site to be comprised of a minimum of 24-inches of clean soil. The material requested for import will be placed on top of the existing site cover, separated by geotextile fabric, and work proposed herein will not breach or reduce the site cover thickness or remove the current site cover system.

Please let NYSEG know if this request to import material is approved and/or if additional forms or information is required. Please contact John Ruspantini of NYSEG at 607.725.3801 or jruspantini@nyseg.com with any questions or comments.

¹ AECOM. 2023. *Site Management Plan*, Penn Yan Former Manufactured Gas Plant Site, Yates County, Penn Yan, New York. January.

Mr. Gerald Pratt, PG
New York State Department of Environmental Conservation
June 20, 2024, Revised June 10, 2024

Sincerely,
Arcadis of New York, Inc.

A handwritten signature in black ink that reads "Nicholas (Klaus) Beyrle". The signature is written in a cursive, flowing style.

Nicholas (Klaus) Beyrle, PG
Principal Geologist

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

CC. John Ruspantini, CHMM, NYSEG

Enclosures:

- Attachment 1 – Project Narrative
- Attachment 2 – Design Drawing and Profile
- Attachment 3 – Request to Import Forms and Supporting Information

Attachment 1

Project Narrative



GROVE

ENGINEERING

886777 STATE ROUTE 53
HIMROD, NEW YORK 14512
585-7977-3388 PHONE
groveengineering@yahoo.com

June 4, 2024

RE: Rosato Project
150 Water Street
Village of Penn Yan
Yates County, New York

Project Narrative

Cindy B. Rosato intends to hire Mike Morehouse to install gravel and rip-rap stone to be able to utilize the existing NYSEG remediation site at 150 Water Street in the Village of Penn Yan as an expanded parking area to serve the building she owns and operates at 111 Liberty Street. The parking area will consist of two terraces of parking, with the top terrace having 20 spaces and the lower terrace having 9 spaces.

Access will be maintained to the existing monitoring wells and storage shed on the property.

Materials used to construct the proposed parking area will be screened gravel and bank run gravel sourced from Mike Morehouse's gravel pit located at 895 Rice Road in Himrod, NY, DEC Mine #80856. A geotextile fabric, Mirafi 500X or equal, will be installed under the parking and driveway areas.

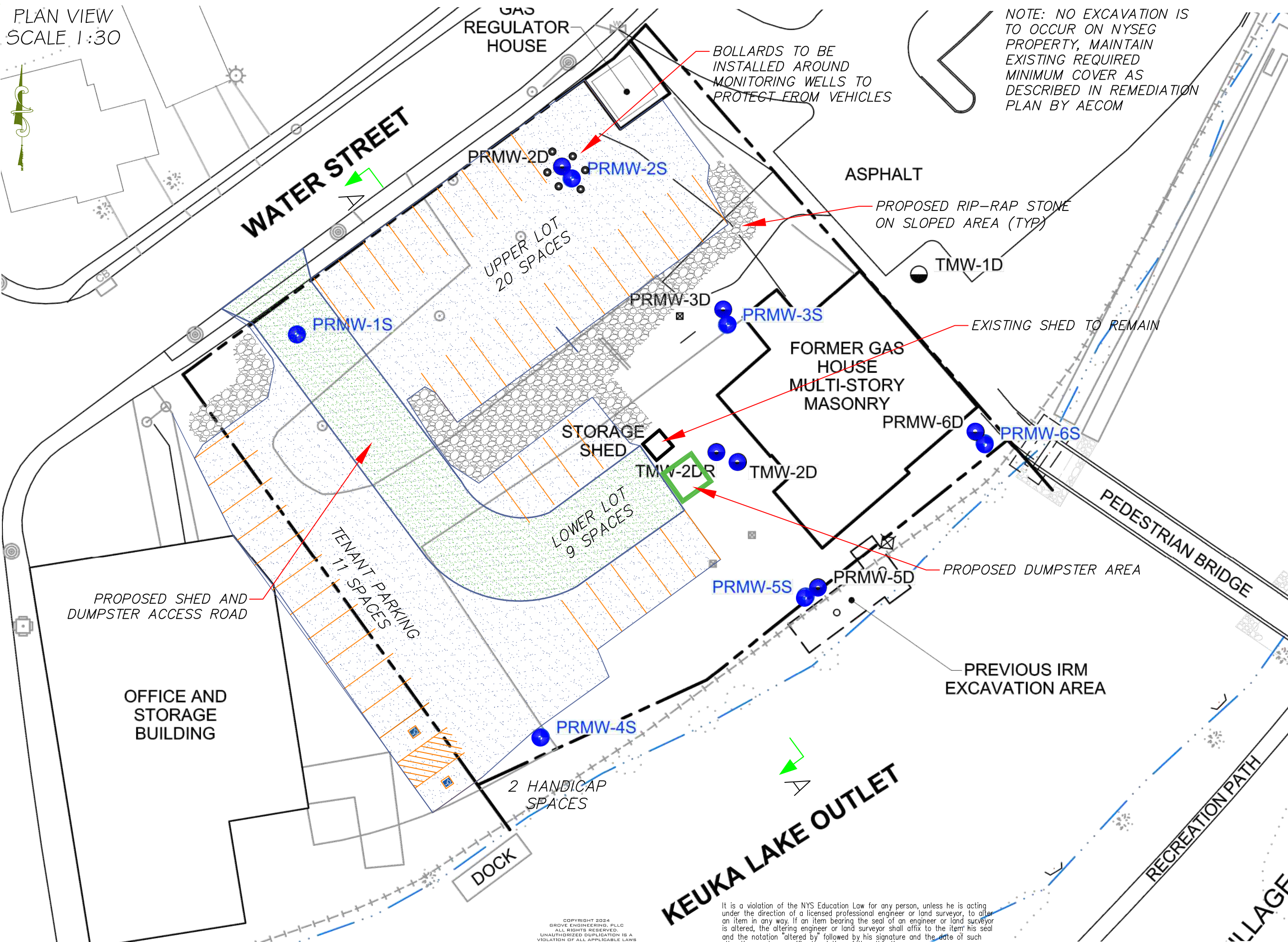
The proposed rip-rap stone sloped area will consist of approximately 24" of 4-12" cobble stone rip-rap sourced from Mike Morehouse's gravel pit located at 895 Rice Road in Himrod, NY, DEC Mine #80856.

No excavation will occur on the NYSEG property. Proposed work will not adversely affect the two-foot soil cover that is acting as an engineering control to reduce the potential for exposure to potentially impacted soils beneath, as described in the remediation plan prepared by AECOM.

Attachment 2

Design Drawing and Profile

PLAN VIEW
SCALE 1:30



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GROVE
ENGINEERING

8677 STATE ROUTE 53
NAPLES, NEW YORK 14512
585-797-3989 PHONE
grove.engineering@yahoo.com

PROPOSED
PARKING LOT
IMPROVEMENTS

NYSEG
PROPERTY

150 WATER STREET

TM# 49.75-1-55

VILLAGE OF PENN YAN
YATES COUNTY, NY

MAY 31, 2024

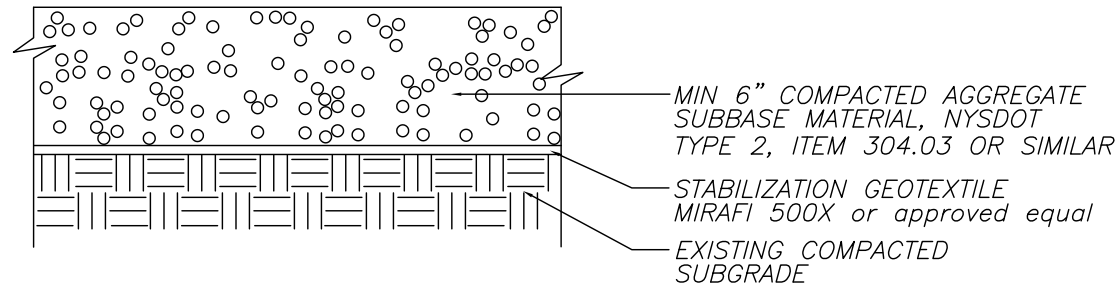
SHEET 1 OF 2



WILLIAM J. GROVE, PE
NYS LICENSE #084111

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It is a violation of the NYS Education Law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.



TYPICAL DRIVEWAY & PARKING SECTION

NOT TO SCALE



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NAPLES, NEW YORK 14512
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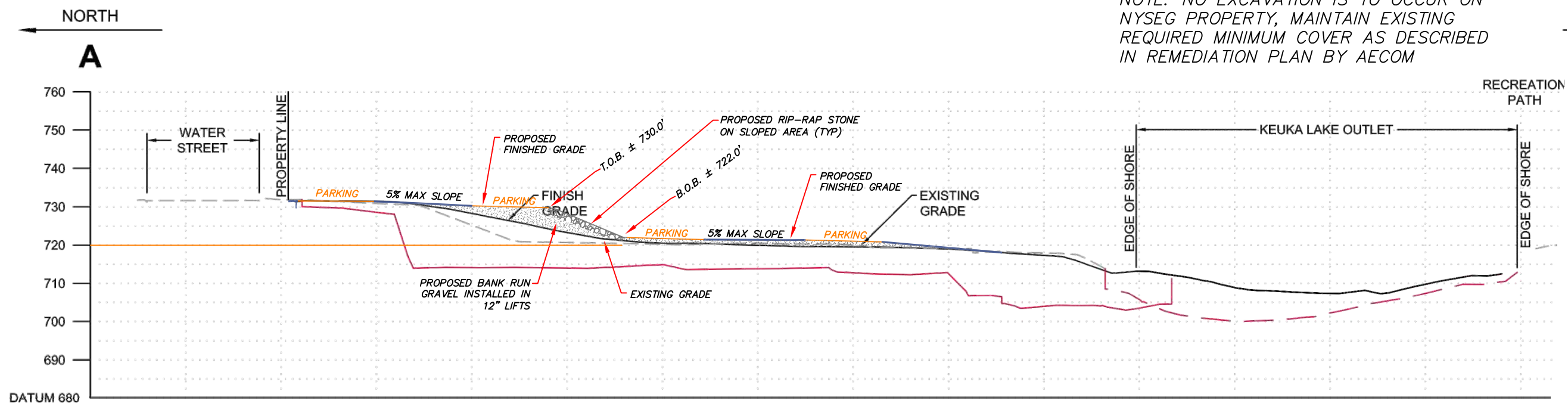
VILLAGE OF PENN YAN
YATES COUNTY, NY

MAY 31, 2024

SHEET 2 OF 2



WILLIAM J. GROVE, PE
NYS LICENSE #084111



NOTE: NO EXCAVATION IS TO OCCUR ON
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CROSS SECTION A-A
SCALE 1:30

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Attachment 3

Request to Import Forms and Supporting Information



**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Material: Bank Run Gravel

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Per DER-10 Section 5.4(e)5, chemical testing is not required for import of virgin stone containing an average of less than 10 percent by weight passing a No. 100 sieve.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Sieve results are attached.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Mike Morehouse, Owner, Morehouse Gravel

Location where fill was obtained:

895 Rice Road, Himrod, NY 14842

Identification of any state or local approvals as a fill source:

DEC Mine #80856

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

State of New York Quarry/Mine Permit
Sieve Analysis

The information provided on this form is accurate and complete.

Mike Morehouse

Signature

6/4/24

Date

Mike Morehouse

Print Name

Morehouse Gravel

Firm

Material Test Report

Report ID: MAT:03-24-1510-02

Issue No: 1

This issue replaces all previous issues of this report

Client: Morehouse Gravel
Project: 2400228 - 2024 Laboratory Testing Services
Location: Rochester, NY

CC: Ethel Barrera-Vasquez
Miko Morehouse

This report and the results contained herein are the exclusive property of CME Associates, Inc. and shall only be reproduced in full when written consent is provided by CME Associates, Inc.

PASLO

Submitted By: Peter Schedel, Division Manager / MSI
Date of Issue: 5/31/2024

Sample Details

Sample ID: 03-24-1510-02
Date Sampled: 5/21/2024
Material: Bank Run Gravel

Particle Size Distribution

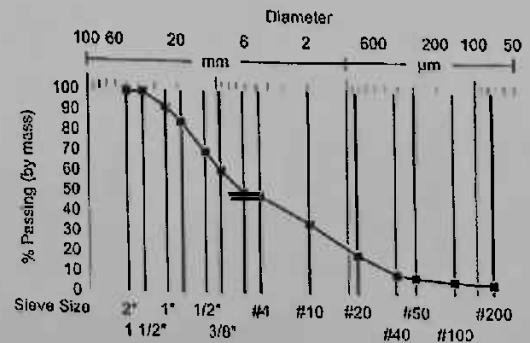
Method: ASTM C136
Drying By: None
Date Tested: 5/30/2024
Tested By: Michael Bedet

Sieve Size	% Passing	Limits
2in	100	
1½in	100	
1in	92	
¾in	85	
½in	70	
3/8in	62	
¼in	50	
No.4	49	
No.10	35	
No.20	20	
No.40	10	
No.50	8	
No.100	6	
No.200	5.1	

Other Test Results

Description	Method	Result	Limits
Cu	ASTM D2487	21.38	
Cc		0.59	
Procedure	ASTM C117	A	

Chart



Comments

N/A

The New York State
Department of Environmental Conservation
has issued a

MINING PERMIT

pursuant to the Environmental Conservation Law for the mining operation being conducted on this site. For more information regarding the nature and extent of work approved, contact the Mined Land Reclamation Specialist shown below. Please refer to the mine file number shown when contacting the DEC.

Mine File Number 80856 Permit Expiration Date 7-27-2019

DEC Contact

Phone Number

Steven M Army, NYSDC Minerals
585 5372
226

NOT A PERMIT

NOTE: THIS IS

NO. 1



**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Material:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Proposing not to collect analytical samples per DER-10 Section 5.4(e)5. Sieve results indicate exactly 10 percent by weight passed the No. 100 sieve. The Screened Gravel source is virgin Bank Run Gravel (glacial in origin) that is screened to limit the amount of larger sized components. Please see the import form and sieve results for the Bank Run Gravel (where less than 10 percent by weight passed the No. 100 sieve).

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Sieve results are attached.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Mike Morehouse, Owner, Morehouse Gravel

Location where fill was obtained:

895 Rice Road, Himrod, NY 14842

Identification of any state or local approvals as a fill source:

DEC Mine #80856

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

State of New York Quarry/Mine Permit
Sieve Analysis

The information provided on this form is accurate and complete.

Mike Morehouse

Signature

6/4/24

Date

Mike Morehouse

Print Name

Morehouse Gravel

Firm

Material Test Report

Report ID: MAT:03-24-1510-01

Issue No: 1

This issue replaces all previous issues of this report

Client: Morehouse Gravel

CC: Ethel Barrera-Vasquez
Mike Morehouse

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Project: 2400228 - 2024 Laboratory Testing Services

Location: Rochester, NY

Signature

Submitted By: Peter Schedel, Division Manager / MSI
Date of Issue: 5/31/2024

Sample Details

Sample ID: 03-24-1510-01
Date Sampled: 5/21/2024
Material: Screened Gravel

Particle Size Distribution

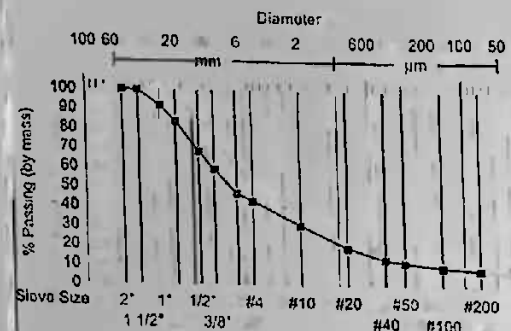
Method: ASTM C136
Drying By: None
Date Tested: 5/30/2024
Tested By: Michael Bedet

Sieve Size	% Passing	Limits
2in	100	
1½in	100	
1in	92	
¾in	84	
½in	68	
3/8in	59	
¼in	47	
No. 4	44	
No. 10	31	
No. 20	20	
No. 40	14	
No. 50	12	
No. 100	10	
No. 200	8.9	

Other Test Results

Description	Method	Result	Limits
Cu	ASTM D2487	74.70	
Cc		2.65	
Procedure	ASTM C117	A	

Chart



Comments

N/A

The New York State
Department of Environmental Conservation
has issued a

MINING PERMIT

pursuant to the Environmental Conservation Law for the mining operation being conducted on this site. For more information regarding the nature and extent of work approved, contact the Mined Land Reclamation Specialist shown below. Please refer to the mine file number shown when contacting the DEC.

Mine File Number 80856 Permit Expiration Date 7-27-2019

DEC Contact

Phone Number

Steven M Army, NYSDC Minerals
585 5372
226

NOT A PERMIT

NOTE: THIS IS

MA 1



**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Material:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Per DER-10 Section 5.4(e)5, chemical testing is not required for import of virgin stone containing an average of less than 10 percent by weight passing a No. 100 sieve.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

No sieve analysis required and the minimum particle size of the rip-rap stone is approximately 4 inches in diameter.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Mike Morehouse, Owner, Morehouse Gravel

Location where fill was obtained:

895 Rice Road, Himrod, NY 14842

Identification of any state or local approvals as a fill source:

DEC Mine #80856

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

State of New York Quarry/Mine Permit

The information provided on this form is accurate and complete.

Mike Morehouse
Signature

6/4/24
Date

Mike Morehouse
Print Name

Morehouse Gravel
Firm

The New York State
Department of Environmental Conservation
has issued a

MINING PERMIT

pursuant to the Environmental Conservation Law for the mining operation being conducted on this site. For more information regarding the nature and extent of work approved, contact the Mined Land Reclamation Specialist shown below. Please refer to the mine file number shown when contacting the DEC.

Mine File Number 808⁵⁶ Permit Expiration Date 7-27-2019

DEC Contact

Phone Number

Steven M. Army, NYSDC Minerals^E
585-5372
.226.

NOTE: THIS IS NOT A PERMIT

DEC-1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C

625 Broadway, 12th Floor, Albany, NY 12233-7014

P: (518) 402-9662 | F: (518) 402-9722

www.dec.ny.gov

Mr. John Ruspantini
New York State Electric and Gas
18 Link Dr, Binghamton, New York 13904
Binghamton, NY 13902-5224

Re: Proposed Parking Lot Improvements and Request to Import Material.

Dear: Mr Ruspantini,

The Department has reviewed the proposed work plan (July 10,2024) and included soil import forms for the proposed parking areas.

The Department approves of the work plan and will not require analytical testing of the imported materials.

Sincerely,



Gerald Pratt P.G.
Section Chief, Remedial Bureau C
Division of Environmental Remediation

ec: N. Beyrle (Arcadis)
Cindy B. Rosato (cindybrosato@gmail.com)



Department of
Environmental
Conservation

Appendix I

2022 Restoration Monitoring Report

New York State Electric & Gas

2022 Restoration Monitoring Report

Penn Yan Former Manufactured Gas Plant Site
NYSDEC Site Number: 862009

May 2023

2022 Restoration Monitoring Report

Penn Yan Former Manufactured Gas Plant Site

NYSDEC Site Number: 862009

May 2023

Prepared By:

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

Prepared For:

New York State Electric & Gas
18 Link Drive
Binghamton
New York 13904

Our Ref:

30126623

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Table 4a – Benthic Community Monitoring Petite Ponar Dredge Data – Cell 1-B

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Table 4h – Benthic Community Monitoring Petite Ponar Dredge Data – Cell 6B-B

Figures

Figure 1 – SLM

Figure 2 – Restoration Areas

Figure 3 – 2022 Vegetation Monitoring Locations

Figure 4 – 2022 Benthic Monitoring Locations

Appendices

Appendix A – Restoration Monitoring Photographs

Acronyms and Abbreviations

EPT	Ephemeroptera, Plecoptera, Trichoptera
HBI	Hilsenhoff biotic index
MGP	Manufactured Gas Plant
NYSDEC	New York State Department of Environmental Conservation
RD	Remedial Design Report
SAV	submerged aquatic vegetation
Site	Penn Yan Former Manufactured Gas Plant Site

1 Introduction

This Restoration Monitoring Report summarizes the 2022 Restoration Monitoring results for the restored upland, bank, and aquatic portions of the New York State Electric & Gas Penn Yan Former Manufactured Gas Plant (MGP) Site (Site). The Site is located on Water Street between Liberty Street and Main Street and the Keuka Lake Outlet in the Village of Penn Yan, Town of Milo, Yates County, New York (Figure 1).

The Restoration Plan (Remedial Design Report [RD] Appendix G [AECOM 2015]) requires post-construction monitoring and maintenance of the restored upland, bank, and submerged aquatic vegetation (SAV) beds to evaluate restoration performance and to identify proposed maintenance and/or corrective actions (if necessary) to remain compliant. This report summarizes the data collected during the August 30-31, 2022 Restoration Monitoring event.

1.1 Background

The Site is approximately 0.815 acres and comprises a vacant masonry building, 2 feet of grass-covered soil (meeting restricted-residential use soil cleanup objectives [6 New York Codes, Rules, and Regulations Part 375-6.7(d)]), an asphalt driveway and parking area, and a riparian area along the Keuka Lake Outlet. The off-site project area, which is adjacent and downstream of the Site, comprises approximately 1.7 acres of submerged sediments beneath the Keuka Lake Outlet (Class C waterway) restored with a 6-inch-thick geoweb infilled with 1 inch of AquaGate® overlain by 5 inches of Aquablok® and a minimum of 1 foot of clean soil (AECOM 2023).

AECOM completed the Site remedy between July 2015 and May 2020 in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved RD for the Site (AECOM 2015) and Design Modifications 001-004 (AECOM 2016 a, b and 2018a,b).

The Restoration Plan (RD Appendix G [AECOM 2015]) requires post-construction monitoring, maintenance, and reporting of the restored upland (approximately 0.76 acres), restored bank (approximately 1,800 square feet along the Keuka Lake Outlet), and restored SAV and near-shore emergent vegetation beds (collectively known as aquatic vegetation) (remediated sediment area within the Keuka Lake Outlet; approximately 1.7 acres) shown on Figure 2. The Restoration Plan specified annual monitoring during each of the first five full growing seasons following Site restoration construction and annual reports to assess vegetative community recovery. AECOM completed upland, bank, and aquatic vegetation restoration per the Restoration Plan by July 2, 2020, with any deviations detailed in the Final Engineering Report (AECOM 2023).

Additionally, the Interim Site Management Plan (AECOM 2020) stated that a one-time, post-remediation inspection to assess biotic community reestablishment within the Keuka Lake Outlet remediated area would be performed prior to the first Periodic Review Report.

1.2 Objectives

The objectives of this report are to:

- Summarize Site restoration;
- Summarize Site restoration evaluation methods;

2022 Restoration Monitoring Report

- Summarize the restoration monitoring data collected and compare the data/observations to the performance metrics;
- Evaluate the Keuka Lake Outlet restored bank stability;
- Assess benthic community reestablishment in the Keuka Lake Outlet remediated areas; and
- Summarize the completed and/or recommended corrective actions and proposed future restoration monitoring.

To document achieving the objectives, this report presents:

- Site-wide data collected during the 2022 Restoration Monitoring event; and
- Conclusions and monitoring modification recommendations, as appropriate.

2 Site Restoration

In general, the RD (AECOM 2015) required post-remediation vegetative cover material installation to reestablish the upland, bank, and aquatic Site areas shown on Figure 2. The remediation contractor restored the upland on August 21, 2019 and bank September 19-20, 2019 by placing a clean soil layer and applying a riparian seed mix to establish a native vegetation cover. In addition to the riparian seed mix, the bank restoration included planting the following within the approximately 1,800-square-foot area:

- Five shrub species (gray dogwood [*Cornus racemosa*], red-osier dogwood [*Cornus stolonifera*], pussy willow [*Salix discolor*], speckled alder [*Alnus rugosa*], and elderberry [*Sambucus canadensis*]) for a total of 25 shrubs, which were installed on December 13, 2019; and
- Three trees (two black walnut [*Juglans nigra*] and one silver maple [*Acer saccharinum*]), which were installed on July 2, 2020.

The remediation contractor planted SAV and near-shore emergent vegetation beds from June 21 through July 12, 2017, and May 27 to 28, 2020, within six near-shore areas covering approximately 1.7 acres (AECOM 2023). More than 18,000 individual plant plugs comprising five aquatic plant species were installed between 2017 and 2020 and included white water lily (*Nymphaea odorata*), long-leaved pondweed (*Potamogeton nodosus*), common arrowhead (*Sagittaria latifolia*), soft-stem bulrush (*Schoenoplectus tabernaemontani*), and wild celery (*Valisneria americana*). SAV restoration area limits are shown on Figure 2.

3 Restoration Monitoring and Sampling

Arcadis conducted 2022 Site upland, bank, and aquatic restoration monitoring that included the following:

- Quantitative total percent vegetation cover evaluation within the upland, bank, and restored SAV and near-shore emergent vegetation beds;
- Tree and shrub survival evaluation;
- Restored riverbank stability qualitative assessment;
- Benthic community sampling and assessment; and
- Wildlife observations.

3.1 Assessment Methods

Arcadis conducted vegetative cover quantitative assessments by placing a 1-square-meter quadrat at three random locations within both the seeded upland and bank Site areas, and five quadrats along a representative transect within each SAV and near-shore emergent vegetation bed planting area (Figure 3) to assess:

- Overall vegetative cover;
- Percent coverage by species;
- Predominant species observed;
- Invasive species observations; and
- Signs of stress or herbivory impacts.

Individual shrub and tree counts were performed to assess survivability. The restored riverbank was evaluated for evidence of significant erosion, excessive settlement, and/or drainage issues that may impact the riverbank stability. A petite ponar dredge was used to collect invertebrate samples to assess benthic community reestablishment within the restored channel bottom substrates installed in the Keuka Lake Outlet remediated sediment cells. Direct habitat and wildlife observations were made to assess the general wildlife community and the restored habitat's ability to support aquatic life and other wildlife.

3.2 Performance Criteria

The performance criteria specified in the Restoration Plan (RD Appendix G [AECOM 2015]) for the second year of monitoring (i.e., 2022) are as follows:

- 95% minimum vegetative cover;
- 100% tree and shrub survival;
- No invasive plant species currently listed as prohibited on the list of New York State Prohibited and Regulated Invasive Plants; and
- Less than 5% of any other invasive plant species not identified as prohibited.

3.3 Monitoring Activities and Results

Arcadis field personnel conducted the 2022 post-restoration monitoring and bank stability observation August 30-31, 2022. Monitoring activities and results are summarized in the following subsections.

3.3.1 Vegetation Monitoring

Arcadis performed an herbaceous ground cover, aquatic SAV cover, and tree vegetative cover quantitative assessment at the Site during the restoration monitoring event. Vegetation assessment observations and results are discussed in the following subsections.

3.3.1.1 Herbaceous Ground Cover

Arcadis field personnel conducted restored upland and bank area herbaceous ground cover monitoring at three randomly placed 1-square-meter quadrat locations in each area (i.e., Figure 3 – OU-1 through OU-3 and BK-1 through BK-3). Individual observed species were counted to provide the overall species richness (i.e., total number of species present within the vegetated habitat) and assigned an individual species cover. Total percent cover was visually estimated, using a cover class system (Table 1) based on the Daubenmire system (Barbour et al 1999), for each species identified in each quadrat. This revised cover class system provides a refined percent cover estimation by adding two cover classes and modifying the cover percentage range into seven classes. The percent cover type was also visually estimated for each quadrat by assigning an absolute percent cover value (ranging from 0% to 100%), as viewed from above, that does not account for overlapping cover types. Observed cover type categories included vegetation, bare soil, woody debris, and boulders/rock. This data was used to calculate target species percent cover (i.e., native species), invasive species percent cover, and total vegetation cover in the herbaceous layer.

Quadrat photographs and general Site condition photographs are included in Appendix A (see Photos 1 through 12). Summarized vegetation monitoring data by quadrat plot for the upland and bank restoration areas are provided in Table 2a and Table 2b, respectively.

Upland area quadrat results (UP-1, UP-2, and UP-3) indicate that overall vegetative cover was approximately 90%. The relative target species percent cover (i.e., native species) was approximately 48%, with the remaining 36% accounting for naturalized or introduced species. Invasive species observed within the quadrats included spotted knapweed (*Centaurea stoebe*), which accounted for approximately 5.6% of the relative percent cover. The species richness ranged from eight to nine herbaceous species observed. Birds-foot trefoil (*Lotus corniculatus*) and grass (*Poa sp.*) were the two dominant herbaceous plant species observed.

Bank area quadrat results (BK-1, BK-2, and BK-3) indicate that overall vegetative cover was approximately 98%. The relative target species percent cover was approximately 53%, with the remaining 45% accounting for naturalized or introduced species. No invasive species were observed within the quadrats. The species richness ranged from eight to 11 herbaceous species observed. Birds-foot trefoil and grass were the two dominant herbaceous plant species observed, similar to the upland results.

3.3.1.2 Shrubs

Field personnel conducted a planted stock and natural recruit meander survey in the bank area during the Restoration Monitoring event. From the initial 25 shrubs planted by AECOM in 2019, 12 shrubs were alive and

remained in the restored bank area. These shrubs included four red-osier dogwood, four pussy willow, two elderberry, and two gray dogwood. No speckled alder shrub plantings were present, despite being planted during Site restoration activities. The bank area condition suggested that shrubs were trampled from human and dog usage from the surrounding public access trail.

3.3.1.3 Trees

During the Restoration Monitoring event, Arcadis personnel observed two black walnut trees and one silver maple tree (i.e., consistent with the tree types that AECOM planted in 2019) in the bank area. The trees appeared to be in good health, fully leaved, and exhibited no signs of stress or herbivory. Tree photographs are included in Appendix A (see Photos 1 and 2).

3.3.1.4 Aquatic Vegetation

Arcadis field staff established one representative transect in each aquatic vegetation bed planting area, as shown on Figure 3. Five individual quadrats were assessed along each transect to estimate the planted and naturally occurring aquatic plant species vegetative cover and to evaluate the substrate. In addition, field personnel measured and recorded water depth and photographed each location. Tables 3a through 3f summarize observed SAV and emergent vegetation species within the six established Keuka Lake Outlet planting areas. Photographs 13-18 in Appendix A provide a representative quadrat picture from each planting area.

3.3.1.4.1 Aquatic Vegetation Area 1

Area 1 quadrat results (Table 3a) indicate that overall vegetative cover was approximately 63%. The relative target species percent cover was approximately 73%. Eurasian watermilfoil (*Myriophyllum spicatum*) was the only invasive species observed within the quadrats and accounted for approximately 25% of the relative cover. The species richness ranged from three to four species observed within each quadrat. Eight distinct species were observed across the Area 1 transect. Water star grass (*Heteranthera dubia*) and Eurasian watermilfoil were the two observed dominant herbaceous plant species.

3.3.1.4.2 Aquatic Vegetation Area 2

Area 2 quadrat results (Table 3b) indicate that overall vegetative cover was approximately 76%. The relative target species percent cover was approximately 95%. Eurasian watermilfoil was the only invasive species observed within the quadrats and accounted for approximately 5.1% of the relative cover. The species richness ranged from three to six species found within each quadrat. Seven distinct species were observed across the Area 2 transect. White water-lily (*Nymphaea odorata*) and long-leaved pondweed (*Potamogeton nodosus*) were the two observed dominant herbaceous plant species.

3.3.1.4.3 Aquatic Vegetation Area 3

Area 3 quadrat results (Table 3c) indicate that overall vegetative cover was approximately 84%. The relative target species percent cover was approximately 85%. Eurasian watermilfoil was the only invasive species observed within the quadrats and accounted for approximately 16% of the relative cover. The species richness ranged from one to six species observed within each quadrat. Seven distinct species were observed across the Area 3 transect. White water-lily and long-leaved pondweed were the two observed dominant herbaceous plant species.

3.3.1.4.4 Aquatic Vegetation Area 4

Area 4 quadrat results (Table 3d) indicate that overall vegetative cover was approximately 68%. The relative target species percent cover was approximately 97%. Eurasian watermilfoil was the only invasive species observed within the quadrats and accounted for approximately 3.1% of the relative cover. The species richness ranged from three to four species found within each quadrat. Seven distinct species were observed across the Area 4 transect. Coontail (*Ceratophyllum demersum*) and white water-lily were the two observed dominant herbaceous plant species.

3.3.1.4.5 Aquatic Vegetation Area 5

Area 5 quadrat results (Table 3e) indicate that overall vegetative cover was approximately 72%. The relative target species percent cover was approximately 93%. Eurasian watermilfoil was the only invasive species observed within the quadrats and accounted for approximately 7.4% of the relative cover. The species richness ranged from two to six species found within each quadrat. Nine distinct species were observed across the Area 5 transect. Water star grass and eelgrass (*Vallisneria spiralis*) were the two observed dominant herbaceous plant species.

3.3.1.4.6 Aquatic Vegetation Area 6

Area 6 quadrat results (Table 3f) indicate that overall vegetative cover was approximately 68%. The relative target species percent cover was approximately 93%. Eurasian watermilfoil was the only invasive species observed within the quadrats and accounted for approximately 7.2% of the relative cover. The species richness ranged from four to six species found within each quadrat. Eight distinct species were observed across the Area 6 transect. Water star grass and eelgrass were the two observed dominant herbaceous plant species.

3.3.1.4.7 Aquatic Vegetation Summary

Aquatic vegetation results overall indicate:

- Nine distinct submerged plant species, including one invasive species (Eurasian watermilfoil) and two emergent species (Arrowhead [*Sagittaria latifolia*] and flowering rush [*Butomus umbellatus*]) were observed in the SAV planting areas.
- Four of the five planted SAV species were observed along the planting area transects. Soft-stem bulrush was not observed in the transect quadrats but was observed within near-shore habitats within planting areas 1, 2, and 6A.
- The existing SAV vegetative cover in the planting areas ranged from 63% to 84%.
- Eurasian watermilfoil presence was observed across each planting area at relative covers ranging from 3.1% to 25%. The proposed remediation areas pre-dredging baseline assessment identified a coverage dominance of Eurasian watermilfoil, indicating that this species previously inhabited the areas and is not a result of remediation (AECOM 2015).

3.3.2 Restored Riverbank Qualitative Assessment

The restored bank qualitative assessment indicated that the overall vegetative cover spatial distribution was high throughout the restored bank area. Field personnel did not observe significant soil erosion or upland drainage

issues within the restored bank area. The near-shore emergent vegetation and riparian vegetation communities were observed to be healthy and well-established.

3.3.3 Benthic Invertebrate Community Assessment

Arcadis conducted benthic invertebrate community assessment in each restored sediment cell to determine whether the benthic community had re-colonized after remediation and backfilling. Field personnel collected a representative petite ponar grab sample within each restored sediment cell. Samples were collected in substrates that allowed enough surface penetration to obtain a suitable sample for resident benthic organism taxonomic identification. Sample locations are shown on Figure 4. Samples were sieved and processed in the field, preserved with isopropanol, and sent to Normandeau Associates in Stowe, Pennsylvania, for identification and enumeration.

Restored substrates observed during sampling are a mix of predominately fine to coarse gravels with sands and silts. Organic materials include varying amounts of both fine and coarse particulate organic matter (i.e., leaf fragments, detritus, woody debris) and shell fragments (primarily zebra mussels and snail shells). Depositional silts and finer organic materials were observed in higher percentages within the shoreline of Cell 6A and Cell 2 when compared to sample locations in other cells. The remaining restored sediment cells had less fine-grained material and were typically composed of fine to coarse gravels and sand. Representative substrate photographs are included in Appendix A (Photographs 19 through 22).

The benthic community taxonomy results are provided in Tables 4a through 4h and indicate re-colonization has occurred within the Keuka Outlet remediated areas as invertebrates were observed in each of the samples. Similar to typical lake outlet waters, several benthic organism orders were more prevalent, including Tubificida (aquatic worms), Gastropoda (aquatic snails), and Chironomidae (midge larvae).

Chironomidae (midges) were the most observed organism, comprising an approximate 40% average of the invertebrate population across the eight restored sediment cells. Midges were most common in Cell 6A and Cell 2, comprising 71% and 65% of the benthic invertebrate samples, respectively, due to a higher frequency of observed soft substrates (i.e., silts and clays) in these cells. Gastropoda and Tubificida averaged approximately 11% and 6% of the community within the six restored sediment cells, respectively. In addition to these benthic organism orders, freshwater bivalves species (Veneroidea), including pill clams and zebra mussels, were relatively abundant, comprising an approximate 13% average of the community across the restored sediment cells.

Several community metrics were derived from each sample to facilitate comparing results, as summarized below:

- Species richness – Species richness ranged from 8 to 25, with an average of 20, which is within the index range of 7 to 24 for similar outlet waters (NYSDEC 2021).
- EPT richness – EPT richness was low and ranged from 0 to 2, with an average of 1, which is within the index range of 0 to 12 (NYSDEC 2021). Lake outlet waters that receive cold-water hypolimnion releases tend to interfere with the life cycles of Ephemeroptera, Plecoptera, Trichoptera (EPT) species such as mayflies, stoneflies, and caddisflies (NYSDEC 2021). As a result, these species are not as common in lake outlet locations.
- Hilsenhoff biotic index (HBI) – HBI measures an organism's potential to tolerate perturbation (i.e., nutrient loading or other pollution) and typically is a water quality indicator. A low HBI indicates organisms have a low tolerance to perturbation and, therefore, indicates a higher water quality. HBI observed within the restored

sediment cells ranged from 6.26 to 7.38, with an average of 6.75, which is within the index range of 4.48 to 8.22 (NYSDEC 2021).

- Percent model affinity – The percent model affinity is a metric used to compare how similar a study site is with respect to a model non-impacted community and is based on the percent abundance of seven major macroinvertebrate groups (Novak and Bode 1992). The higher the percentage, the less potentially impacted the site. The restored sediment cell benthic community samples ranged from 39% to 71%, with an average of 58%, which is within the index range of 24% to 67% (NYSDEC 2021).

Overall, the benthic community results indicate successful restored sediment substrate re-colonization and the identified invertebrate community results are within the expected ranges for this type of system (i.e., lake outlet waters) in New York State.

3.3.4 Aquatic Wildlife Observations

Several sunfish species (i.e., bluegill and pumpkinseed), along with larger macroinvertebrates (i.e., crayfish), were observed within the near-shore SAV areas during the Restoration Monitoring event. Limited on-site wildlife was observed during the monitoring event; however, the near-shore habitat and observed ample aquatic vegetation would support both passerine bird species and common migratory birds, such as waterfowl and herons. Pioneering species and those planted during Site restoration work are performing well to provide a diverse aquatic habitat for fish cover and wildlife.

4 Recommended Corrective Actions

The following corrective actions are recommended to meet the desired performance standards detailed in the Restoration Plan:

- Plant 13 replacement shrubs in the fall of 2023 to achieve 25 total shrubs planted and alive and meet the 100% survival performance standard requirement in the RD (AECOM 2015). Considering the lack of speckled alder and very few gray dogwood, the 13 replacement shrubs should comprise pussy willow, elderberry, and red-osier dogwood.
- Overseed the upland area. Vegetative cover in the upland area is relatively stable at 90% but is slightly less than the 95% performance standard for this restored area. Overseeding using an upland seed mix similar to the one used during restoration activities should be applied in the fall of 2023, at a rate of 30 pounds per acre, to fill in any thin patches observed. Additionally, spotted knapweed observed in the upland restoration area may require maintenance and control during future visits, as its presence is slightly greater than 5%. This will continue to be monitored and, if needed, manual plant removal during late spring of 2024 will be recommended to target this species.

5 Conclusions

Overall, the 2022 Restoration Monitoring results indicate satisfactory vegetative cover that is supporting achieving the restoration objectives identified in the Restoration Plan (RD Appendix G [AECOM 2015]). Specific recommendations to meet the desired performance standards detailed in the Restoration Plan metrics (number of planted species alive, etc.) are provided in Section 4.

The restored upland area was stable with no observed erosion and exhibited a high vegetative cover spatial distribution. The restored bank area was stable and had a diverse mix of seeded species, along with some remaining planted shrubs within the understory. Three trees planted along the bank were healthy and did not exhibit signs of stress. Similar to the baseline assessment, SAV beds within the Keuka Lake Outlet indicated a diverse native and non-native species community. Invasive Eurasian watermilfoil was observed at a lower frequency/coverage relative to the baseline assessment when it was observed to be a dominant species in most areas identified for remediation. Biological drift from upstream plants within the Keuka Lake Outlet would make it difficult to meet the desired performance standard for invasive aquatic species control. Aquatic life and potential wildlife use is supported by upland, bank, and aquatic restoration areas, which provide in-water shelter and food, along with near-shore vegetation for nesting and cover. Benthic community sampling results indicated that the restored sediment areas have been re-colonized, and the community is similar to what would be expected in lake outlet waters observed in New York State.

Invasive Eurasian watermilfoil was observed in the restored SAVs. Additionally, invasive starry stonewort may also become established in the restored subaquatic areas as it has been observed in Keuka Lake. Manual pulling or chemical treatments could be used to reduce the invasive plant species' presence; however, this is not recommended at this time due to the risk of continued re-invasion from Keuka Lake and the fact that the invasive species' coverage is less than the coverages observed during the baseline assessment.

Site restoration monitoring will continue in 2023, constituting the third year post-remediation monitoring event.

6 References

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Tables

Table 1
Cover Class System



2022 Restoration Monitoring Report
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Percent Cover Classes		
Range of Cover (%)	Cover Class Midpoint	Class
<1%	0.5	0
1-5%	3.0	1
6-15%	10.5	2
16-25%	20.5	3
26-50%	38.0	4
51-75%	63.0	5
76-95%	85.5	6
>95%	98.0	7

Note:

1. Based on the Daubenmire cover class system (Barbour et al 1999).

Reference:

Barbour, M.G., J.H. Burk, and W.D. Pitts. 1999. Terrestrial plant ecology. 3rd edition. Benjamin/Cummings Publishing Company, Menlo Park, California.

Table 2a
Upland Vegetation Monitoring Quadrat Data



2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Upland Quadrat I.D.	Common Name	Growth Form	Indicator Status	Target Species (Y/N)	Invasive (Y/N)	Canopy Cover (%)	Species Composition (%)	Canopy Cover Class		
Scientific Name								Quadrat UP-1	Quadrat UP-2	Quadrat UP-3
<i>Poa sp.</i>	Grasses	graminoid	FACU	Y	N	29	24	4	4	2
<i>Symphotrichum pilosum</i>	Frostweed aster	herbaceous	FACU	Y	N	13	10	4	--	--
<i>Lotus corniculatus</i>	Birds-foot trefoil	herbaceous	FACU	N	N	46	38	4	4	5
<i>Festuca sp.</i>	Fescue	graminoid	FACU	Y	N	7.8	6.5	3	--	1
<i>Achillea millefolium</i>	Common yarrow	herbaceous	FACU	Y	N	2.0	1.7	1	1	--
<i>Trifolium pratense</i>	Red clover	herbaceous	FACU	Y	N	2.0	1.7	1	1	--
<i>Phleum pratense</i>	Timothy	graminoid	FACU	N	N	2.0	1.7	1	--	1
<i>Panicum sp.</i>	Switchgrass species	graminoid	FAC	Y	N	3.5	2.9	2	--	--
<i>Taraxacum officinale</i>	Common dandelion	herbaceous	FACU	N	N	3.0	2.5	1	1	1
<i>Aster sp.</i>	Aster species	herbaceous	FACU	Y	N	1.0	0.83	--	1	--
<i>Plantago major</i>	Common plantain	herbaceous	FACU	N	N	2.0	1.7	--	1	1
<i>Rumex crispus</i>	Curly dock	herbaceous	FAC	N	N	1.0	0.83	--	1	--
<i>Cichorium intybus</i>	Chicory	herbaceous	FACU	N	N	1.0	0.83	--	--	1
<i>Picris hieracioides</i>	Hawkweed oxtongue	herbaceous	NI	N	N	1.0	0.83	--	--	1
<i>Centaurea stoebe</i>	Spotted knapweed	herbaceous	NI	N	Y	6.8	5.6	--	--	3
Cover Type - % Cover										
Vegetation (Cover Class)								7	6	6
Vegetation (Raw Estimates)								98	85	98
Species Richness										
Species Richness								9	8	9

(Cover Class) Total Vegetative Percent Cover (%)	90
Relative Percent Cover of Target Species (%)	48
Relative Percent Cover of Invasive Species (%)	5.6

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Acronyms and Abbreviations:

FAC = Facultative
FACU = Facultative Upland
NI = No Indicator Status

Table 2b
Bank Vegetation Monitoring Quadrat Data



2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Bank Quadrat I.D.	Common Name	Growth Form	Indicator Status	Target Species (Y/N)	Invasive (Y/N)	Canopy Cover (%)	Species Composition (%)	Canopy Cover Class		
Scientific Name								Quadrat BK-1	Quadrat BK-2	Quadrat BK-3
<i>Poa sp.</i>	Grasses	graminoid	FACU	Y	N	3.5	3.1	--	2	--
<i>Daucus carota</i>	Queen Anne's lace	herbaceous	UPL	Y	N	4.5	4.0	--	1	2
<i>Mentha arvensis</i>	Wild mint	herbaceous	FACW	Y	N	1.0	0.89	--	1	--
<i>Verbena hastata</i>	Blue vervain	herbaceous	FACW	Y	N	1.0	0.89	--	--	1
<i>Solidago altissima</i>	Tall goldenrod	herbaceous	FACU	N	N	7.0	6.2	--	2	2
<i>Elymus riparius</i>	Riverbank rye	graminoid	FACW	Y	N	12.7	11.3	4	--	--
<i>Cirsium vulgare</i>	Bull thistle	herbaceous	FACU	Y	N	2.0	1.8	1	1	--
<i>Symphyotrichum pilosum</i>	Frostweed aster	herbaceous	FACU	Y	N	1.0	0.89	--	--	1
<i>Lotus corniculatus</i>	Birds-foot trefoil	herbaceous	FACU	N	N	32	29	3	4	4
<i>Festuca sp.</i>	Fescue	graminoid	FACU	Y	N	26	23	4	3	3
<i>Trifolium pratense</i>	Red clover	herbaceous	FACU	Y	N	8.0	7.1	1	2	2
<i>Phleum pratense</i>	Timothy	graminoid	FACU	N	N	1.0	0.9	1	--	--
<i>Plantago major</i>	Common plantain	herbaceous	FACU	N	N	2.0	1.8	--	1	1
<i>Rumex crispus</i>	Curly dock	herbaceous	FAC	N	N	2.0	1.8	1	1	--
<i>Cichorium intybus</i>	Chicory	herbaceous	FACU	N	N	1.0	0.89	1	--	--
<i>Picris hieracioides</i>	Hawkweed oxtongue	herbaceous	NI	N	N	7.0	6.2	--	2	2
Cover Type - % Cover										
Vegetation (Cover Class)								7	7	7
Vegetation (Raw Estimates)								100	100	100
Plant Height/Species Richness										
Species Richness								8	11	9

(Cover Class) Total Vegetative Percent Cover (%)	98
Relative Percent Cover of Target Species (%)	53
Relative Percent Cover of Invasive Species (%)	0.0

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Acronyms and Abbreviations:

FAC = Facultative
FACU = Facultative Upland
FACW = Facultative Wetland
NI = No Indicator Status
UPL = Upland

Table 3a
Submerged Aquatic Vegetation - Area 1

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Quadrat I.D.	Common Name	Target Species (Y/N)	Invasive (Y/N)	Cover (%)	Species Composition (%)	Canopy Cover Class				
Scientific Name						Quadrat 1-1	Quadrat 1-2	Quadrat 1-3	Quadrat 1-4	Quadrat 1-5
<i>Nymphaea odorata</i>	White water-lily	Y	N	2.1	3.2	--	--	--	--	2
<i>Sagittaria latifolia</i>	Arrowhead	Y	N	2.1	3.2	--	--	--	2	--
<i>Vallisneria americana</i>	Wild celery	Y	N	0.60	0.91	1	--	--	--	--
<i>Najas minor</i>	Brittle waternymph	Y	N	1.2	1.8	1	--	1	--	--
<i>Elodea canadensis</i>	Canada waterweed	Y	N	1.2	1.8	--	--	1	--	1
<i>Ceratophyllum demersum</i>	Coontail	Y	N	2.7	4.1	--	1	--	2	--
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	N	Y	17	25	3	2	2	1	4
<i>Heteranthera dubia</i>	Water star grass	Y	N	40	60	4	5	4	4	3
Cover Type - % Cover										
Vegetation (Cover Class)						5	5	5	4	6
Vegetation (Raw Estimates)						65	75	55	50	80
Species Richness										
Species Richness						4	3	4	4	4

(Cover Class) Total Vegetative Percent Cover (%)	63
Relative Percent Cover of Target Species (%)	75
Relative Percent Cover of Invasive Species (%)	25

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Table 3b
Submerged Aquatic Vegetation - Area 2

2022 Restoration Monitoring Report
New York State Electric & Gas
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Penn Yan, New York

Quadrat I.D.	Common Name	Target Species (Y/N)	Invasive (Y/N)	Cover (%)	Species Composition (%)	Canopy Cover Class				
Scientific Name						Quadrat 2-1	Quadrat 2-2	Quadrat 2-3	Quadrat 2-4	Quadrat 2-5
<i>Nymphaea odorata</i>	White water-lily	Y	N	45	49	6	4	4	5	--
<i>Vallisneria americana</i>	Wild celery	Y	N	1.2	1.3	--	--	1	1	--
<i>Elodea canadensis</i>	Canada waterweed	Y	N	1.2	1.3	--	1	1	--	--
<i>Potamogeton nodosus</i>	Long-leaved pondweed	Y	N	27	30	--	4	2	1	6
<i>Ceratophyllum demersum</i>	Coontail	Y	N	6.3	6.8	2	2		2	--
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	N	Y	4.7	5.1	--	3	1	--	--
<i>Heteranthera dubia</i>	Water star grass	Y	N	6.5	7.0	1	3	1	1	1
Cover Type - % Cover										
Vegetation (Cover Class)						6	6	4	6	6
Vegetation (Raw Estimates)						90	90	45	80	95
Species Richness										
Species Richness						3	6	6	5	2

(Cover Class) Total Vegetative Percent Cover (%)	76
Relative Percent Cover of Target Species (%)	95
Relative Percent Cover of Invasive Species (%)	5.1

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Table 3c
Submerged Aquatic Vegetation - Area 3

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Quadrat I.D.	Common Name	Target Species (Y/N)	Invasive (Y/N)	Cover (%)	Species Composition (%)	Canopy Cover Class				
Scientific Name						Quadrat 3-1	Quadrat 3-2	Quadrat 3-3	Quadrat 3-4	Quadrat 3-5
<i>Nymphaea odorata</i>	White water-lily	Y	N	25	25	4	4	2	--	4
<i>Potamogeton richardsonii</i>	Richardson's pondweed	Y	N	0.60	0.59	--	--	1	--	--
<i>Potamogeton nodosus</i>	Long-leaved pondweed	Y	N	35	35	4	--	1	7	4
<i>Ceratophyllum demersum</i>	Coontail	Y	N	2.1	2.1	2	--	--	--	--
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	N	Y	16	16	1	4	4	--	--
<i>Heteranthera dubia</i>	Water star grass	Y	N	16	16	1	4	4	--	--
<i>Najas minor</i>	Brittle waternymph	Y	N	6.8	6.7	1	--	3	--	2
Cover Type - % Cover										
Vegetation (Cover Class)						6	6	6	7	5
Vegetation (Raw Estimates)						95	85	85	100	75
Species Richness										
Species Richness						6	3	6	1	3

(Cover Class) Total Vegetative Percent Cover (%)	84
Relative Percent Cover of Target Species (%)	85
Relative Percent Cover of Invasive Species (%)	16

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Table 3d
Submerged Aquatic Vegetation - Area 4



2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Quadrat I.D.	Common Name	Target Species (Y/N)	Invasive (Y/N)	Cover (%)	Species Composition (%)	Canopy Cover Class				
Scientific Name						Quadrat 4-1	Quadrat 4-2	Quadrat 4-3	Quadrat 4-4	Quadrat 4-5
<i>Nymphaea odorata</i>	White water-lily	N	N	23	27	--	4	3	3	4
<i>Vallisneria americana</i>	Wild celery	Y	N	4.1	4.7	3	--	--	--	--
<i>Potamogeton nodosus</i>	Long-leaved pondweed	Y	N	7.6	8.8	--	--	--	--	4
<i>Potamogeton richardsonii</i>	Richardson's pondweed	Y	N	15	18	4	--	--	--	4
<i>Ceratophyllum demersum</i>	Coontail	N	N	27	31	3	4	4	4	--
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	N	Y	2.7	3.1	--	--	2	1	--
<i>Heteranthera dubia</i>	Water star grass	Y	N	6.9	7.9	2	1	--	2	2
Cover Type - % Cover										
Vegetation (Cover Class)						5	5	5	6	5
Vegetation (Raw Estimates)						75	70	75	80	65
Species Richness										
Species Richness						4	3	3	4	4

(Cover Class) Total Vegetative Percent Cover (%)	68
Relative Percent Cover of Target Species (%)	97
Relative Percent Cover of Invasive Species (%)	3.1

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Table 3e
Submerged Aquatic Vegetation - Area 5

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Quadrat I.D.	Common Name	Target Species (Y/N)	Invasive (Y/N)	Cover (%)	Species Composition (%)	Canopy Cover Class				
Scientific Name						Quadrat 5-1	Quadrat 5-2	Quadrat 5-3	Quadrat 5-4	Quadrat 5-5
<i>Nymphaea odorata</i>	White water-lily	Y	N	4.2	5.3	--	--	--	2	2
<i>Potamogeton nodosus</i>	Long-leaved pondweed	Y	N	7.6	9.5	4	--	--	--	--
<i>Potamogeton richardsonii</i>	Richardson's pondweed	Y	N	4.1	5.2	3	--	--	--	--
<i>Butomus umbellatus</i>	Flowering rush	Y	N	7.6	9.5	--	--	--	--	4
<i>Vallisneria americana</i>	Wild celery	Y	N	11	14	--	1	3	3	2
<i>Elodea canadensis</i>	Canada waterweed	Y	N	2.7	3.4	--	--	--	1	2
<i>Ceratophyllum demersum</i>	Coontail	Y	N	1.2	1.5	--	--	1	1	--
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	N	Y	5.9	7.4	1	--	1	1	3
<i>Heteranthera dubia</i>	Water star grass	Y	N	35	44	4	5	4	4	--
Cover Type - % Cover										
Vegetation (Cover Class)						6	5	5	5	6
Vegetation (Raw Estimates)						80	65	60	70	80
Species Richness										
Species Richness						4	2	4	6	5

(Cover Class) Total Vegetative Percent Cover (%)	72
Relative Percent Cover of Target Species (%)	93
Relative Percent Cover of Invasive Species (%)	7.4

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Table 3f
Submerged Aquatic Vegetation - Area 6



2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Quadrat I.D.	Common Name	Target Species (Y/N)	Invasive (Y/N)	Cover (%)	Species Composition (%)	Canopy Cover Class				
Scientific Name						Quadrat 6-1	Quadrat 6-2	Quadrat 6-3	Quadrat 6-4	Quadrat 6-5
<i>Nymphaea odorata</i>	White water-lily	N	N	8.3	9.9	2	--	3	2	--
<i>Vallisneria americana</i>	Wild celery	Y	N	25	30	--	4	2	4	4
<i>Potamogeton richardsonii</i>	Richardson's pondweed	Y	N	9.7	12	2	--	4	--	--
<i>Najas minor</i>	Brittle waternymph	Y	N	0.6	0.7	--	--	--	--	1
<i>Elodea canadensis</i>	Canada waterweed	N	N	0.60	0.72	--	--	--	--	1
<i>Ceratophyllum demersum</i>	Coontail	N	N	4.8	5.7	--	2	1	2	--
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	N	Y	6	7.2	1	2	2	1	1
<i>Heteranthera dubia</i>	Water star grass	Y	N	29	35	4	4	3	2	4
Cover Type - % Cover										
Vegetation (Cover Class)						5	6	5	5	5
Vegetation (Raw Estimates)						65	80	70	65	65
Species Richness										
Species Richness						4	4	6	5	5

(Cover Class) Total Vegetative Percent Cover (%)	68
Relative Percent Cover of Target Species (%)	93
Relative Percent Cover of Invasive Species (%)	7.2

Notes:

1. Vegetative cover of individual species estimated at each plot using cover class midpoints shown on Table 1.
2. Canopy cover values can add up to greater than 100% due to overlapping vegetation.
3. Species composition is a proportional scaling of 0% to 100% and represents the percent a species contributes to the total vegetative cover.
4. -- = not applicable.

Table 4a
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 1-B

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 1-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Hiridinida			
Erpobdellidae			
<i>Erpobdella sp.</i>	leech	2	1.7%
Tubificida			
Tubificinae			
<i>Limnodrilus sp.</i>	tube worm	27	23.1%
Gastropoda			
Hydrobiidae			
<i>Amnicola sp.</i>	dusky snail	2	1.7%
Planorbidae			
<i>Ferrissia sp.</i>	limpet snail	1	0.9%
<i>Gyraulus sp.</i>	orb snail	6	5.1%
Pisidiidae			
<i>Pisidium sp.</i>	pill clam	6	5.1%
Amphipoda			
Gammaridae			
<i>Gammarus sp.</i>	side swimmer	2	1.7%
Ephemeroptera			
Caenidae			
<i>Caenis sp.</i>	mayfly	3	2.6%
Odonata			
Coenagrionidae			
<i>Enallagma sp.</i>	damselfly	2	1.7%
Coleoptera			
Elmidae			
<i>Dubiraphia sp.</i>	rifle beetle	8	6.8%
Diptera			
Ceratopogonidae			
<i>Culicoides sp.</i>	sand fly	3	2.6%
Chironomidae			
<i>Ablabesmyia sp.</i>	midge	3	2.6%
<i>Clinotanytus pinguis</i>	midge	4	3.4%
<i>Cryptochironomus fulvus gr.</i>	midge	1	0.9%
<i>Cryptotendipes sp.</i>	midge	7	6.0%
<i>Labrundinea sp.</i>	midge	4	3.4%
<i>Microchironomus sp.</i>	midge	1	0.9%
Orthoclaadiinae	midge	7	6.0%
<i>Paratanytarsus sp.</i>	midge	16	13.7%
<i>Polypedilum illinoense gr.</i>	midge	6	5.1%
<i>Procladius sp.</i>	midge	4	3.4%
<i>Tanytarsus sp.</i>	midge	2	1.7%
Total Taxa:		22	
Total Specimens:		117	100%
Community Density (no. / square meter):		17,804	

Community Metrics:

Species Richness
Ephemeroptera, Plecoptera, Trichoptera Richness
Hilsenhoff Biotic Index
Percent Model Affinity (Ponar)

Value

22
1
7.38
68%

Table 4b
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 2-B

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 2-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Tubificida			
Tubificinae			
<i>Aulodrilus pigueti</i>	tube worm	2	2.2%
<i>Limnodrilus sp.</i>	tube worm	5	5.4%
Gastropoda			
Hydrobiidae			
<i>Amnicola sp.</i>	dusky snail	4	4.3%
Planorbidae			
<i>Gyraulus sp.</i>	orb snail	4	4.3%
<i>Planorbella sp.</i>	ram's-horn snail	2	2.2%
Veneroidea			
Pisidiidae			
<i>Pisidium sp.</i>	pill clam	2	2.2%
Odonata			
Coenagrionidae			
<i>Enallagma sp.</i>	damselfly	8	8.6%
Trichoptera			
Hydropsychidae			
<i>Hydropsyche sp.</i>	caddisfly	1	1.1%
Hydroptilidae			
<i>Oxyethira sp.</i>	caddisfly	1	1.1%
Diptera			
Ceratopogonidae			
<i>Probezzia sp.</i>	sand fly	1	1.1%
Chironomidae			
<i>Ablabesmyia sp.</i>	midge	3	3.2%
<i>Cladopelma sp.</i>	midge	2	2.2%
<i>Clinotanypus pinguis</i>	midge	2	2.2%
<i>Corynoneuria sp.</i>	midge	2	2.2%
<i>Dicrotendipes sp.</i>	midge	10	10.8%
<i>Guttipelopia sp.</i>	midge	1	1.1%
<i>Labrundinea sp.</i>	midge	1	1.1%
<i>Nanocladius sp.</i>	midge	5	5.4%
<i>Paratanytarsus sp.</i>	midge	7	7.5%
<i>Polypedilum halterale gr.</i>	midge	5	5.4%
<i>Polypedilum tritum</i>	midge	6	6.5%
<i>Procladius sp.</i>	midge	5	5.4%
<i>Psectrocladius sp.</i>	midge	2	2.2%
<i>Pseudochironomus sp.</i>	midge	3	3.2%
<i>Tanytarsus sp.</i>	midge	6	6.5%
Tabanidae			
<i>Chrysops sp.</i>	deer fly	3	3.2%
Total Taxa:		26	
Total Specimens:		93	100%
Community Density (no. / square meter):		4,043	

Community Metrics:

	<u>Value</u>
Species Richness	25
Ephemeroptera, Plecoptera, Trichoptera Richness	2
Hilsenhoff Biotic Index	6.86
Percent Model Affinity (Ponar)	55%

Table 4c
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 3-B

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 3-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Gastropoda			
Hydrobiidae			
<i>Amnicola sp.</i>	dusky snail	6	6.7%
Planorbidae			
<i>Micromenetus dilitatus</i>	orb snail	3	3.3%
Veneroidea			
Pisidiidae			
<i>Pisidium sp.</i>	pill clam	7	7.8%
Amphipoda			
Crangonyctidae			
<i>Crangonyx sp.</i>	side swimmer	1	1.1%
Gammaridae			
<i>Gammarus sp.</i>	side swimmer	4	4.4%
Odonata			
Coenagrionidae			
<i>Enallagma sp.</i>	damselfly	5	5.6%
Gomphidae			
<i>Gomphus sp.</i>	dragonfly	1	1.1%
Trichoptera			
Leptoceridae			
<i>Leptocerus americanus</i>	caddisfly	1	1.1%
Coleoptera			
Elmidae			
<i>Dubiraphia sp.</i>	rifle beetle	47	52.2%
Diptera			
Chironomidae			
<i>Clinotanytus pinguis</i>	midge	3	3.3%
<i>Cryptochironomus fulvus gr.</i>	midge	1	1.1%
<i>Paralaterborniella nigrohalteralis</i>	midge	3	3.3%
<i>Polypedilum halterale gr.</i>	midge	1	1.1%
<i>Procladius sp.</i>	midge	5	5.6%
<i>Tanytarsus sp.</i>	midge	1	1.1%
<i>Xenochironomus xenolabis</i>	midge	1	1.1%
Total Taxa:		16	
Total Specimens:		90	100%
Community Density (no. / square meter):		6,957	

Community Metrics:

	<u>Value</u>
Species Richness	16
Ephemeroptera, Plecoptera, Trichoptera Richness	1
Hilsenhoff Biotic Index	6.26
Percent Model Affinity (Ponar)	57%

Table 4d
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 4-B

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 4-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Tubificida			
Tubificinae			
<i>Spirosperma ferox</i>	tube worm	1	0.9%
Gastropoda			
Hydrobiidae			
<i>Amnicola sp.</i>	dusky snail	16	15.1%
Planorbidae			
<i>Ferrissia sp.</i>	limpet snail	3	2.8%
Veneroidea			
Dreissinidae			
<i>Dreissina polymorpha</i>	zebra mussel	3	2.8%
Pisidiidae			
<i>Musculium sp.</i>	finger nail clam	2	1.9%
<i>Pisidium sp.</i>	pill clam	17	16.0%
Amphipoda			
Gammaridae			
<i>Gammarus sp.</i>	side swimmer	2	1.9%
Decapoda			
Cambaridae			
<i>Orconectes sp.</i>	crayfish	1	0.9%
Odonata			
Coenagrionidae			
<i>Enallagma sp.</i>	damselfly	8	7.5%
Trichoptera			
Leptoceridae			
<i>Oecetis sp.</i>	caddisfly	1	0.9%
Coleoptera			
Elmidae			
<i>Dubiraphia sp.</i>	riffle beetle	25	23.6%
Diptera			
Chironomidae			
<i>Ablabesmyia sp.</i>	midge	2	1.9%
<i>Clinotanytus pinguis</i>	midge	2	1.9%
<i>Labrundinea sp.</i>	midge	1	0.9%
<i>Nanocladius sp.</i>	midge	4	3.8%
<i>Paralaterborniella nigrohalteralis</i>	midge	1	0.9%
<i>Paratanytarsus sp.</i>	midge	2	1.9%
<i>Polypedilum flavum</i>	midge	3	2.8%
<i>Procladius sp.</i>	midge	6	5.7%
<i>Tanytarsus sp.</i>	midge	5	4.7%
Tabanidae			
<i>Chrysops sp.</i>	deer fly	1	0.9%
Total Taxa:		21	
Total Specimens:		106	100%
Community Density (no. / square meter):		6,145	

Community Metrics:

	Value
Species Richness	20
Ephemeroptera, Plecoptera, Trichoptera Richness	1
Hilsenhoff Biotic Index	6.33
Percent Model Affinity (Ponar)	59%

Table 4e
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 5A-B

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 5A-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Tubificida			
Tubificinae			
<i>Ilyodrilus templetoni</i>	tube worm	6	5.9%
<i>Limnodrilus sp.</i>	tube worm	8	7.8%
Gastropoda			
Planorbidae			
<i>Gyraulus sp.</i>	orb snail	5	4.9%
Veneroidea			
Pisidiidae			
<i>Pisidium sp.</i>	pill clam	1	1.0%
Amphipoda			
Gammaridae			
<i>Gammarus sp.</i>	side swimmer	9	8.8%
Hyalellidae			
<i>Hyaella azteca</i>	side swimmer	3	2.9%
Ephemeroptera			
Caenidae			
<i>Caenis sp.</i>	mayfly	1	1.0%
Odonata			
Coenagrionidae			
<i>Enallagma sp.</i>	damselfly	14	13.7%
Gomphidae			
<i>Gomphus sp.</i>	dragonfly	1	1.0%
Trichoptera			
Hydroptilidae			
<i>Oxyethira sp.</i>	caddisfly	1	1.0%
Coleoptera			
Elmidae			
<i>Dubiraphia sp.</i>	riffle beetle	20	19.6%
Diptera			
Ceratopogonidae			
<i>Palpomyia gr.</i>	sand fly	1	1.0%
Chironomidae			
<i>Ablabesmyia sp.</i>	midge	5	4.9%
<i>Clinotanytus pinguis</i>	midge	4	3.9%
<i>Corynoneuria sp.</i>	midge	1	1.0%
<i>Dicrotendipes sp.</i>	midge	3	2.9%
<i>Labrundinea sp.</i>	midge	7	6.9%
<i>Nanocladius sp.</i>	midge	4	3.9%
<i>Paratanytarsus sp.</i>	midge	1	1.0%
<i>Polypedilum illinoense gr.</i>	midge	5	4.9%
<i>Procladius sp.</i>	midge	1	1.0%
<i>Tanytarsus sp.</i>	midge	1	1.0%
Total Taxa:		22	
Total Specimens:		102	100%
Community Density (no. / square meter):		4,435	

Community Metrics:

Species Richness	22
Ephemeroptera, Plecoptera, Trichoptera Richness	2
Hilsenhoff Biotic Index	7.24
Percent Model Affinity (Ponar)	71%

Table 4f
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 5B-B



2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 5B-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Hirudinida			
Glossophoniidae			
<i>Helobdella sp.</i>	leech	1	0.9%
Gastropoda			
Hydrobiidae			
<i>Amnicola sp.</i>	dusky snail	8	7.3%
Physidae			
<i>Physella sp.</i>	pouch snail	1	0.9%
Planorbidae			
<i>Ferrissia sp.</i>	limpet snail	4	3.6%
<i>Helisoma anceps</i>	ram's-horn snail	1	0.9%
<i>Planorbella sp.</i>	ram's-horn snail	3	2.7%
Pleuroceridae			
<i>Goniobasis virginica</i>	horn snail	1	0.9%
<i>Pleurocera acuta</i>	horn snail	2	1.8%
Viviparidae			
<i>Viviparus georgiana</i>	mystery snail	1	0.9%
Veneroidea			
Dreissinidae			
<i>Dreissina polymorpha</i>	zebra mussel	31	28.2%
Pisidiidae			
<i>Pisidium sp.</i>	pill clam	9	8.2%
Amphipoda			
Gammaridae			
<i>Gammarus sp.</i>	side swimmer	1	0.9%
Isopoda			
Asellidae			
<i>Caecidotea sp.</i>	water slater	3	2.7%
Odonata			
Coenagrionidae			
<i>Enallagma sp.</i>	damselfly	10	9.1%
Libellulidae			
	dragonfly	2	1.8%
Trichoptera			
Leptoceridae			
<i>Leptocerus americanus</i>	caddisfly	6	5.5%
Coleoptera			
Elmidae			
<i>Dubiraphia sp.</i>	rifle beetle	3	2.7%
Diptera			
Chironomidae			
<i>Ablabesmyia sp.</i>	midge	1	0.9%
<i>Chironomini</i>	midge	3	2.7%
<i>Cladopelma sp.</i>	midge	2	1.8%
<i>Dicrotendipes sp.</i>	midge	3	2.7%
<i>Nanocladius sp.</i>	midge	1	0.9%
<i>Polypedilum illinoense gr.</i>	midge	2	1.8%
<i>Procladius sp.</i>	midge	6	5.5%
<i>Pseudochironomus sp.</i>	midge	1	0.9%
<i>Tanytarsus sp.</i>	midge	4	3.6%
Total Taxa:		26	
Total Specimens:		110	100%
Community Density (no. / square meter):		6,377	

Community Metrics:

	Value
Species Richness	24
Ephemeroptera, Plecoptera, Trichoptera Richness	1
Hilsenhoff Biotic Index	6.84
Percent Model Affinity (Ponar)	59%

Table 4g
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 6A-B

2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 6A-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Hirudinida Glossophoniidae <i>Helobdella stagnalis</i>	leech	1	3.6%
Gastropoda Hydrobiidae <i>Amnicola</i> sp.	dusky snail	1	3.6%
Veneroidea Pisidiidae <i>Pisidium</i> sp.	pill clam	6	21.4%
Diptera Chironomidae Chironomini <i>Clinotanytus pinguis</i> <i>Dicrotendipes</i> sp. Tanypodinae Tanytarsini	midge midge midge midge midge	13 1 3 1 2	46.4% 3.6% 10.7% 3.6% 7.1%
Total Taxa:		8	
Total Specimens:		28	100%
Community Density (no. / square meter):		1,217	

<u>Community Metrics:</u>	<u>Value</u>
Species Richness	8
Ephemeroptera, Plecoptera, Trichoptera Richness	0
Hilsenhoff Biotic Index	6.36
Percent Model Affinity (Ponar)	39%

Note:

This matrix was processed in its entirety but did not produce enough specimens (100) to calculate valid community metrics. As a result, community metrics for Species and Ephemeroptera, Plecoptera, Trichoptera Richness are biased high.

Table 4h
Benthic Community Monitoring Petite Ponar Dredge Data - Cell 6B-B



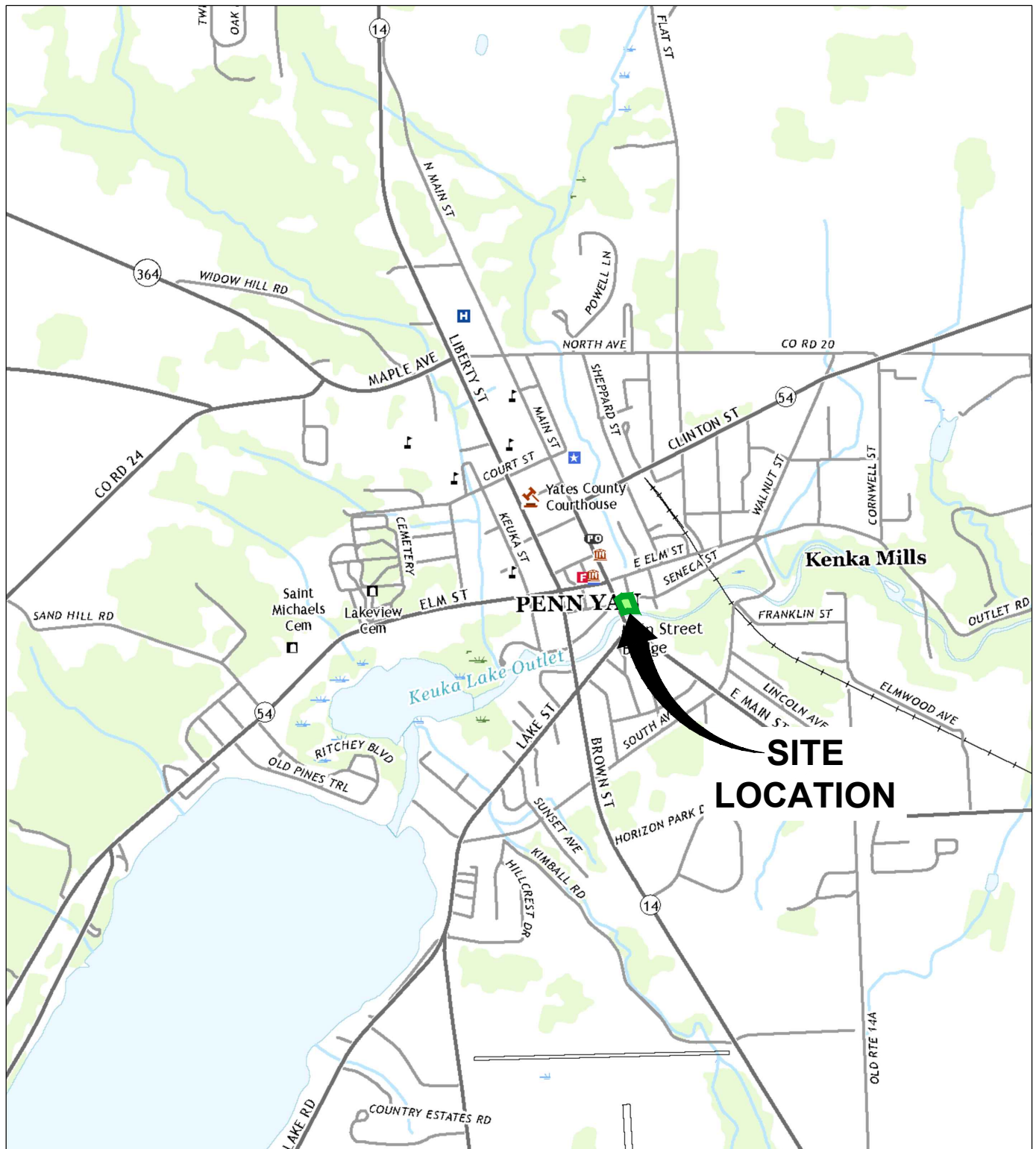
2022 Restoration Monitoring Report
New York State Electric & Gas
Penn Yan Former Manufactured Gas Plant Site
Penn Yan, New York

Location: Cell 6B-B			
Taxon	Common Name	Number of Individuals	Percent Abundance
Gastropoda			
Hydrobiidae			
<i>Amnicola sp.</i>	dusky snail	10	9.3%
Physidae			
<i>Physella sp.</i>	pouch snail	1	0.9%
Planorbidae			
<i>Helisoma anceps</i>	ram's-horn snail	3	2.8%
<i>Planorbella sp.</i>	ram's-horn snail	4	3.7%
Veneroidea			
Dreissinidae			
<i>Dreissina polymorpha</i>	zebra mussel	1	0.9%
Pisidiidae			
<i>Pisidium sp.</i>	pill clam	12	11.1%
Amphipoda			
Gammaridae			
<i>Gammarus sp.</i>	side swimmer	1	0.9%
Hyalellidae			
<i>Hyalella azteca</i>	side swimmer	1	0.9%
Odonata			
Coenagrionidae			
<i>Enallagma sp.</i>	damselfly	22	20.4%
Corduliidae			
<i>Epicordulia princeps</i>	dragonfly	1	0.9%
Libellulidae			
<i>Sympetrum sp.</i>	dragonfly	2	1.9%
<i>Sympetrum sp.</i>	dragonfly	1	0.9%
Diptera			
Ceratopogonidae			
<i>Culicoides sp.</i>	sand fly	2	1.9%
<i>Sphaeromais sp.</i>	sand fly	2	1.9%
Chironomidae			
<i>Ablabesmyia sp.</i>	midge	2	1.9%
<i>Clinotanytus pinguis</i>	midge	1	0.9%
<i>Dicrotendipes sp.</i>	midge	10	9.3%
<i>Endochironomus nigricans</i>	midge	1	0.9%
<i>Phaenopsectra punctipes gr.</i>	midge	1	0.9%
<i>Polypedilum halterale gr.</i>	midge	1	0.9%
<i>Polypedilum illinoense gr.</i>	midge	12	11.1%
<i>Procladius sp.</i>	midge	4	3.7%
<i>Pseudochironomus sp.</i>	midge	9	8.3%
<i>Tanytarsus sp.</i>	midge	2	1.9%
Tabanidae			
<i>Chrysops sp.</i>	deer fly	2	1.9%
Total Taxa:		25	
Total Specimens:		108	100%
Community Density (no. / square meter):		5,366	

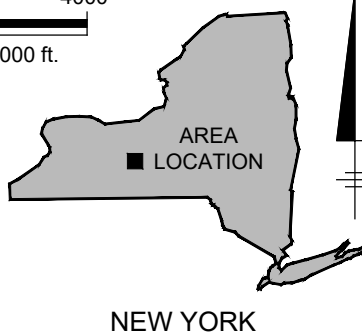
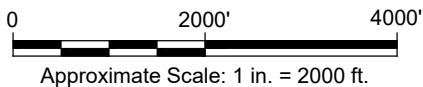
Community Metrics:

	Value
Species Richness	24
Ephemeroptera, Plecoptera, Trichoptera Richness	0
Hilsenhoff Biotic Index	6.72
Percent Model Affinity (Ponar)	57%

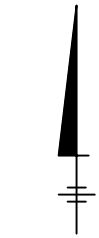
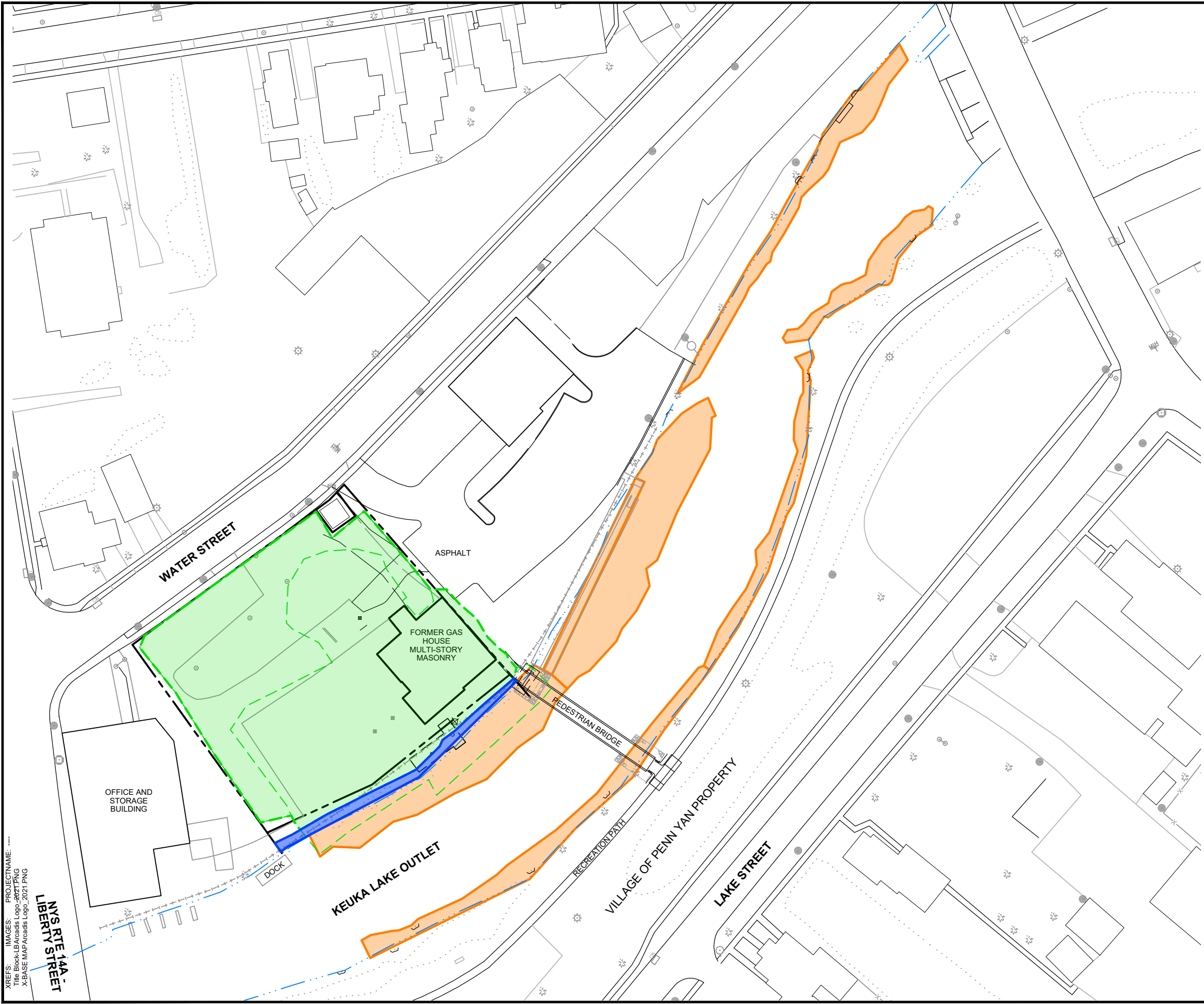
Figures



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



NYSEG FORMER MGP SITE PENN YAN, NEW YORK	
SITE LOCATION MAP	
	FIGURE 1

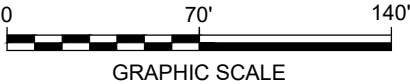


LEGEND:

- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- SUBMERGED AQUATIC VEGETATION RESTORATION AREAS
- UPLAND RESTORATION AREA
- BANK RESTORATION AREA (APPROXIMATE)

NOTE:

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



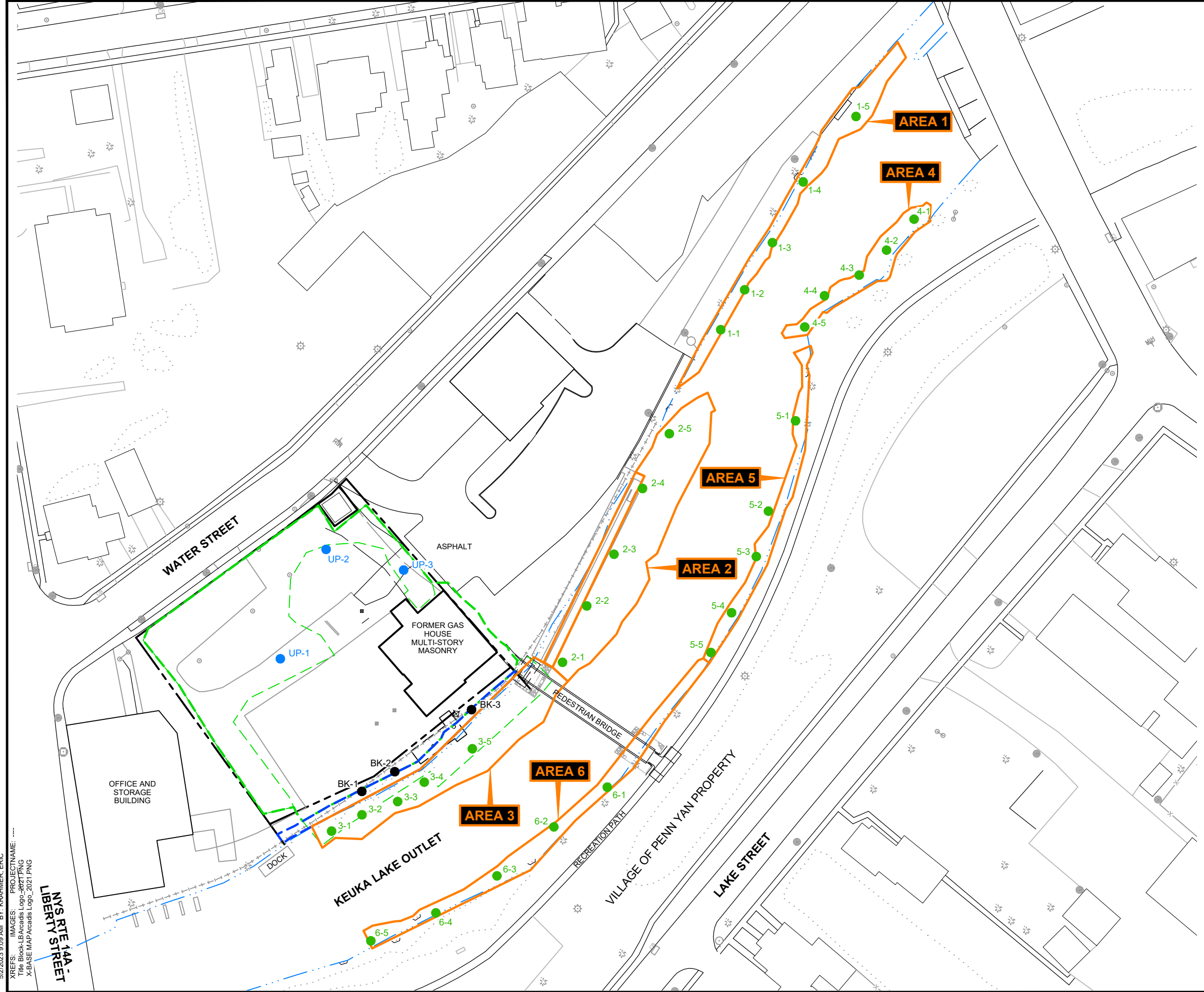
NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

RESTORATION AREAS



C:\Users\krahen\ACD\Drawings\ARCADIS\NYSEG\FORMER MGP SITE\PENN VAN New York\Project Files\2023\01-In Progress\01-DWG\PPY_NY_MGP_2022 VEG MON LOC.dwg LAYOUT: 3 SAVED: 5/2/2023 9:08 AM ACADVER: 24.25 (LMS TECH) PAGES: 1 OF 1 PLOTTED: 5/2/2023 9:09 AM BY: KRAHMER, ERIC

PROJECTNAME: 2022 VEG MON LOC
Title Block: Arcadis Logo_2021.PNG
X-BASE MAP: Arcadis Logo_2021.PNG



LEGEND:

- UPLAND VEGETATION MONITORING LOCATION
- BANK VEGETATION MONITORING LOCATION
- AQUATIC VEGETATION MONITORING LOCATION
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- .-.- APPROXIMATE SHORE LINE
- SUBMERGED AQUATIC VEGETATION RESTORATION LIMITS
- .-.- UPLAND RESTORATION LIMITS
- .-.- BANK RESTORATION LIMITS (APPROXIMATE)

NOTE:

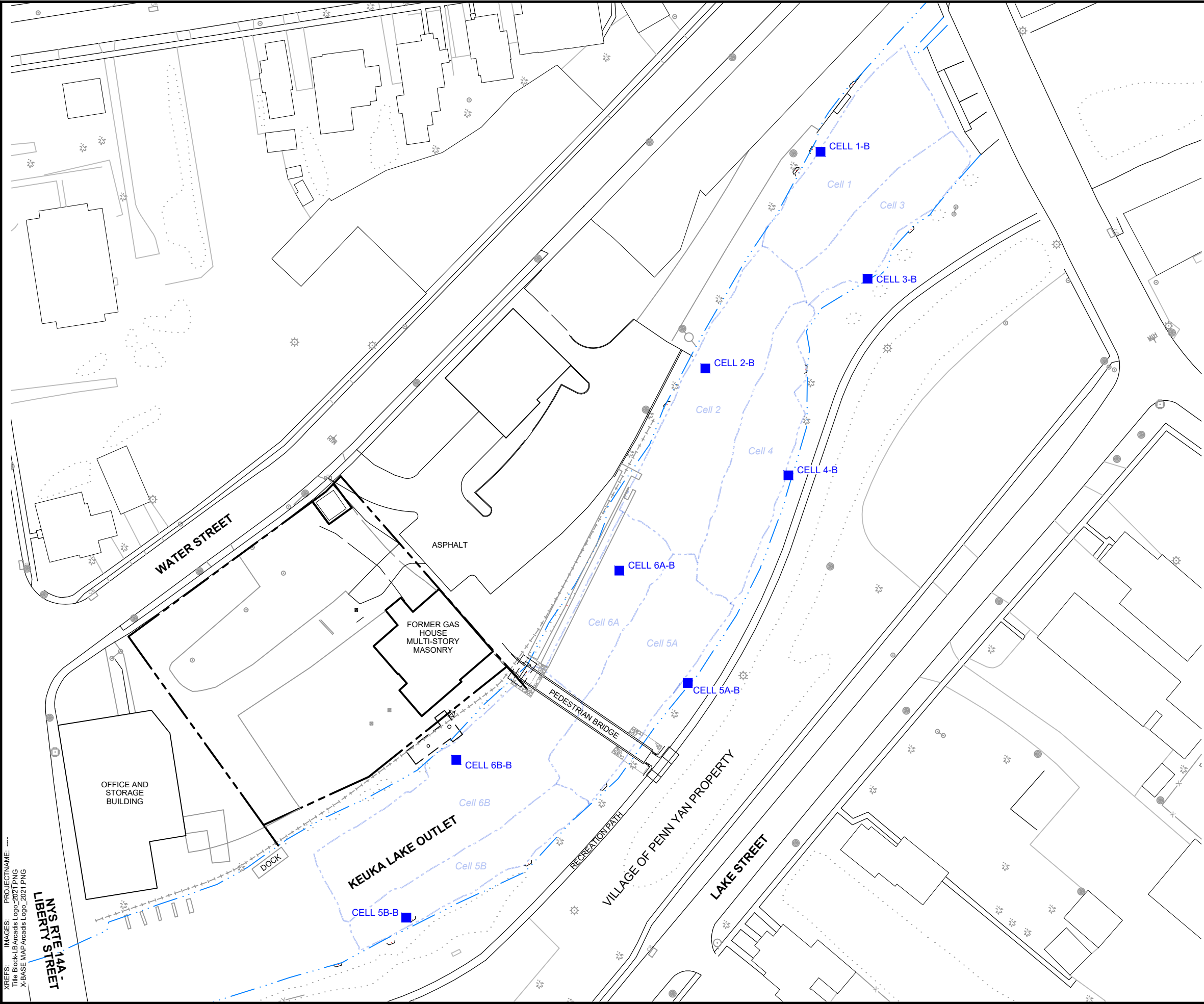
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURE BASED ON "MONITORING WELL LOCATION PLAN" BY AECOM, DATED SEPTEMBER 2021.



NYSEG
FORMER MGP SITE
PENN VAN, NEW YORK

2022 VEGETATION
MONITORING LOCATIONS



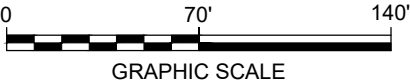


LEGEND:

- BENTHIC COMMUNITY MONITORING LOCATION
- CURRENT SITE FEATURE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SHORE LINE
- DREDGE CELL LIMITS

NOTE:

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



NYSEG
FORMER MGP SITE
PENN YAN, NEW YORK

2022 BENTHIC
MONITORING LOCATIONS



Appendix A

Restoration Monitoring Photographs

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 1

Location: Former MGP Site;
Penn Yan, NY.

Description: Planted and healthy black walnut trees (*Juglans nigra*). Photographed at Liberty St. bridge, facing southwest.



Photo: 2

Location: Former MGP Site;
Penn Yan, NY.

Description: Planted and healthy silver maple (*Acer saccharinum*). Facing northeast; Keuka Lake Outlet Trail bridge and former MGP building in background.

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 3

Location: Former MGP Site;
Penn Yan, NY.

Description: Restored
upland area. Facing north;
former MGP Building in the
background



Photo: 4

Location: Former MGP Site;
Penn Yan, NY.

Description: Restored
upland area. Facing
northwest; Water Street in
background.

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 5

Location: Former MGP Site;
Penn Yan, NY.

Description: Restored
upland area. Facing east;
Water Street in background.



Photo: 6

Location: Former MGP Site;
Penn Yan, NY.

Description: Restored bank
area. Facing east; Keuka
Lake Outlet Trail Bridge in
background.

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 7

Location: Quadrat UP-1

Description: Upland vegetation quadrat UP-1.



Photo: 8

Location: Quadrat UP-2

Description: Upland vegetation quadrat UP-2.

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 9

Location: Quadrat UP-3

Description: Upland vegetation quadrat UP-3.



Photo: 10

Location: Quadrat BK-1

Description: Bank vegetation quadrat BK-1.

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 11

Location: Quadrat BK-2

Description: Bank
vegetation quadrat BK-2.



Photo: 12

Location: Quadrat BK-3

Description: Bank
vegetation quadrat BK-3.

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 13

Location: SAV Area 1;
Quadrat 1-1.

Description: Example submerged aquatic vegetation quadrat from SAV Area 1. A total of 5 quadrats surveyed in SAV Area 1.



Photo: 14

Location: SAV Area 2;
Quadrat 2-1.

Description: Example submerged aquatic vegetation quadrat from SAV Area 2. A total of 5 quadrats surveyed in SAV Area 2.

Appendix A Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 15

Location: SAV Area 3;
Quadrat 3-1.

Description: Example submerged aquatic vegetation quadrat from SAV Area 3. A total of 5 quadrats surveyed in SAV Area 3.



Photo: 16

Location: SAV Area 4;
Quadrat 4-1.

Description: Example submerged aquatic vegetation quadrat from SAV Area 4. A total of 5 quadrats surveyed in SAV Area 4.

Appendix A

Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 17

Location: SAV Area 5;
Quadrat 5-1.

Description: Example submerged aquatic vegetation quadrat from SAV Area 5. A total of 5 quadrats surveyed in SAV Area 5.



Photo: 18

Location: SAV Area 6;
Quadrat 6-1.

Description: Example submerged aquatic vegetation quadrat from SAV Area 6. A total of 5 quadrats surveyed in SAV Area 6.

Appendix A
Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 19

Location: Benthic Cell 2-B

Description: Benthic sample
Cell 2-B prior to being
sieved.



Photo: 20

Location: Benthic Cell 2-B

Description: Benthic sample
Cell 2-B post-sieving.

Appendix A
Restoration Monitoring Photographs

NYSEG Former MGP Site
Penn Yan, New York



Photo: 21

Location: Benthic Cell 5B-B

Description: Benthic sample Cell 5B-B prior to being sieved.



Photo: 22

Location: Benthic Cell 5B-B

Description: Benthic sample Cell5B-B post-sieving.

Appendix J

Certification Statements

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C

625 Broadway, 12th Floor, Albany, NY 12233-7014

P: (518) 402-9543 | F: (518) 402-9722

www.dec.ny.gov

8/9/2024

John Ruspantini
Environmental Analyst
NYSEG
18 Link Drive
P.O. Box 5224
Binghamton, NY 13902-5224
JJRuspantini@nyseg.com

Please note that edits to this certification form are presented in RED font to update items in Boxes 3 and 4 in accordance with the Site Management Plan as well as to appropriately number the boxes presenting information/questions. Signing this IC/EC Certification Submittal assumes the Department accepts these edits.

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: NYSEG - Penn Yan Water St. MGP

Site No.: 862009

Site Address: Water St Penn Yan, NY 14527-

Dear John Ruspantini:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **November 30, 2024**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



Department of
Environmental
Conservation

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Gerald Pratt, the Project Manager, at 518-402-9667 or gerald.pratt@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway
Albany, NY 12233-7014

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Nys Electric & Gas Corporation - jjruspantini@nyseg.com

ec: w/ enclosures

Gerald Pratt, Chief Bureau C

Sarah Saucier, Director Bureau C

David Pratt, Hazardous Waste Remediation Supervisor, Region 8

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.
2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.
3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Box 1

Site No. 862009

Site Name NYSEG - Penn Yan Water St. MGP

Site Address: Water St Zip Code: 14527-
City/Town: Penn Yan
County: Yates
Site Acreage: 0.889

Reporting Period: March 22, 2023 to October 31, 2024

YES NO

1. Is the information above correct?

☒ ☐

 If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☒

~~**Box 2**~~

YES NO **Box 2**

6. Is the current site use consistent with the use(s) listed below?
 Restricted-Residential, Commercial, and Industrial

☒ ☐

7. Are all ICs in place and functioning as designed?

☒ ☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control

049.75-1-55
049.75-1-56

NYS Electric & Gas Corporation

Site Management Plan

Ground Water Use Restriction

Soil Management Plan

Landuse Restriction

Monitoring Plan

~~Site Management Plan~~

IC/EC Plan

~~Ground Water Use Restriction~~

~~Soil Management Plan~~

~~Landuse Restriction~~

~~Monitoring Plan~~

~~IC/EC Plan~~

Description of Engineering ControlsParcelEngineering Control

049.75-1-55
049.75-1-56

Cover System Upland Cover and AquaGate/AquaBlok Cover

~~Monitoring Wells~~

Controlled Low Strength Material

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 862009

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE


I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Ruspantini at 18 Link Dr, Binghamton, NY 13904,
print name print business address

am certifying as NYSEG/Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

For NYSEG



Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

11-20-24

Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Ruspantini at 18 Link Dr, Binghamton, NY 13904,
print name print business address

am certifying as a Qualified Environmental Professional for the NYSEG/Remedial Party
(Owner or Remedial Party)

For NYSEG



CHMM 10302

11/20/24

Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;

1. whether all requirements of each plan were met during the reporting period
2. any requirements not met
3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals

1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

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