

May 7, 2026

Mr. Michael Squire  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, BURC  
625 Broadway  
Albany, New York 12233-7014

**Re:           *National Grid Johnstown Former MGP Site  
NYSDEC Site No. 518020  
Johnstown, New York  
2026 Periodic Review Report***

Dear Mr. Squire:

Enclosed for your review is the 2026 Periodic Review Report (PRR) for the National Grid Johnstown MGP Site. The PRR pertains to the period from April 15, 2025 through April 15, 2026 and includes a brief report and Institutional Controls/Engineering Controls (IC/EC) Certification Form.

Please feel free to contact me at 315.540.0829.

Sincerely,



for NAS

Nicholas A. Smith, P.G.  
Senior Program Manager  
National Grid

Enclosures

Cc: Devin T. Shay - Groundwater & Environmental Services, Inc.

## **I. Introduction**

### **A. Brief Site Summary –**

The Johnstown, New York Former Manufactured Gas Plant (MGP) Site (the Site) was previously owned by a series of predecessor companies to Niagara Mohawk Power Corporation. An investigation of the Site began in 1997 with a Preliminary Site Assessment (PSA), which found that the Site was impacted with MGP wastes. A Supplemental PSA was then conducted at the Site in 1998, which was followed by a remedial investigation (RI) in January 2000 and subsequent remedial measures. Remedial measures are discussed separately below in this section.

A 2009 Supplemental RI was initiated to collect data to address potential residual MGP-related contaminants remaining in groundwater at the Site and to assess hydrogeologic conditions and groundwater quality on the Site. The results of the Supplemental RI were used to formulate potential remedial alternatives for groundwater and residual soil contamination. The Supplemental RI results were evaluated and presented in the 2010 Feasibility Study (FS) Report.

Several interim remedial measures (IRMs) were performed to address the MGP impacts. In 2002 and 2003, the former holders and associated impacted soil were removed. During this IRM, former Holder #2 and the northern half of former Holder #3 were demolished and removed from the Site. Approximately 13,870 cubic yards of soil were excavated and disposed off-site at a NYSDEC-approved facility. Permanent steel sheeting was left in place along the northeastern perimeter of the Site to avoid disturbance of the roadway and to provide containment of residual material left at depth.

Between 2005 and 2006, National Grid provided support to the City of Johnstown for subsurface work associated with the replacement of the North Market Street Bridge across Cayadutta Creek. Approximately 1,413 cubic yards of impacted soil were excavated from within the cofferdam area and disposed off-site at a NYSDEC-approved facility.

In August 2009, the rip-rap area along the bank of Cayadutta Creek that had been restored during the previous IRMs was enhanced to allow for establishment of stream-side vegetation. Post-IRM inspections of the restored Cayadutta Creek bank were conducted in September 2009 and May 2010.

A Record of Decision (ROD) was issued by the NYSDEC, dated March 2010, in accordance with the requirements of New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, 6 NYCRR Part 375. Based upon the results of the remedial investigation/feasibility study (RI/FS) for the Site, the previously completed IRMs, and the ROD, a draft Final Engineering Report and Site Management Plan (SMP) were developed and submitted to the NYSDEC in June 2010. The Final Engineering Report, the Final SMP, and the Final Environmental Easement were approved by the NYSDEC in their June 2016 Fact Sheet.

The Final SMP includes:

- 1) Semi-annual (April & October) site inspection including the creek bank protection, vegetative cover, monitoring wells, and security fence;
- 2) Semi-annual groundwater level measurements and non-aqueous phase liquid (NAPL) monitoring at monitoring wells MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-

**National Grid- Johnstown MGP Site (NYSDEC Site No. 518020)**  
**Reporting Period – April 15, 2025 through April 15, 2026**

14, MW-15, MW-16, groundwater recovery well RMW-1, and the creek surface gauging station adjacent to the Cayadutta Creek bridge;

- 3) Semi-annual groundwater sampling/analysis for Site-related parameters [Benzene, Toluene, Ethylbenzene, Xylene (BTEX), Polycyclic Aromatic Hydrocarbons (PAHs), lead, and cyanide] and Natural Attenuation Parameters [alkalinity, chloride, ethane, ethene, ferrous iron, manganese, methane, nitrate, nitrogen, sulfate and sulfide] for monitoring wells MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16 (recovery well RMW-1 is not sampled). On April 22, 2026, NYSDEC approved a change to the groundwater sampling scope whereby Natural Attenuation Parameters will be collected every 2 years, alternating between the spring and fall sampling events.

3) Semi-annual reporting (June & December) to NYSDEC.

**B. Remedial Program Effectiveness** – During the reporting period (April 15, 2025 to April 15, 2026), the long-term remedial objectives were met for the site.

**C. Remedial Program Compliance** - The major elements within the Institutional Control/Engineering Control(s) (IC/EC) Plan are in compliance.

**D. Remedial Program Recommendations** -The SMP will be updated to incorporate the NYSDEC-approved modification to the Natural Attenuation Parameter sampling schedule. It is recommended that no other changes be made to the IC/EC Plan. It is recommended that an annual Project Review Report (PRR) continue to be submitted. The next PRR submittal will cover the period April 15, 2026 to April 15, 2027.

## **II. Site Overview**

### **A. Site Location and Boundaries –**

The Site is located in the City of Johnstown, County of Fulton, New York (Figure 1 presents the site location map) and is identified as Block 14 and Lot 7 on the Johnstown City Tax Map. The Site is an approximate 0.7-acre area bounded by Cayadutta Creek to the north, the Colonial Cemetery to the south, Market Street to the east, and a wooded parcel of property to the west (Figure 2 presents the site plan). The Site is located in a mixed commercial, industrial, and residential area. Currently, National Grid operates a natural gas regulator station at the Site with equipment contained in fenced enclosures along the Site's southern boundary. The rest of the Site is grass covered, including the stream bank adjacent to Cayadutta Creek along the northern boundary of the Site. An embankment exists along the north end of the Site that slopes down to Cayadutta Creek. A chain-link fence exists along the north and west sides of the Site, and a retaining wall runs along the south side of the Site. Access to the Site is from North Market Street to the east.

## **B. Regulatory History and Remedy Features –**

The site was remediated in accordance with Order on Consent Index Number A4-0473-0000, Site Number 518020, which was signed on November 7, 2003, superseding the original Order on Consent (Index Number D0-0001-9210) entered into by Niagara Mohawk and NYSDEC for the investigation and remediation of 21 former MGP sites, including the Johnstown Site.

The “remaining contamination” was investigated during a 2009 Supplemental RI to collect data to address potential residual MGP-related contaminants remaining in groundwater at the Site and to assess hydrogeologic conditions and groundwater quality at the Site. The results of the Supplemental RI were used to formulate potential remedial alternatives for contaminated groundwater and residual soil contamination that were evaluated in a 2010 Feasibility Study (FS) report.

In March of 2010, the NYSDEC issued a Record of Decision (ROD) after evaluating the alternatives and selecting the future remedial actions at the Site that focus on MGP-related contamination in soil and groundwater. The overall site remedy selected by NYSDEC is Site Management, which is composed of several elements:

- Installation, maintenance, and monitoring of the Engineering Controls, including a sheet pile wall, a four-inch monitoring/extraction well, and a soil cover system.
- Imposition of an institutional control in the form of an Environmental Easement for the Controlled Property that restricts the use of the site to commercial and industrial use. In addition, the environmental easement restricts the use of groundwater as a source of potable or process water, and prohibits agriculture or vegetable gardens on the Controlled Property.
- A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes monitoring of Site groundwater through the existing monitoring well network to assess the performance and effectiveness of the remedy.
- Development and implementation of a Site Management Plan for long-term management of remaining contamination, as required by the Environmental Easement, which includes plans for: (1) institutional and engineering controls, (2) monitoring, (3) operation and maintenance, and (4) reporting.

## **III. Evaluate Remedy Performance, Effectiveness, and Protectiveness**

**A. Evaluation of Remedy Performance** – Quarterly inspections are conducted on the Site features including the groundwater monitoring wells, soil cap, and sheet pile wall. Semi-annual groundwater sampling is conducted at wells MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16. The remedy performance has been effective in protecting facility workers and the public.

#### IV. IC/EC Plan Compliance Report

##### A. IC/EC Requirements and Compliance

###### 1. IC/EC Controls

The ICs/ECs include:

- **Sheet Pile Wall:** Quarterly site inspection will include the condition of the sheet pile wall. The sheet pile wall is buried and cannot be observed; however, the wall appears to be functioning properly and influencing groundwater flow towards the Cayadutta Creek.
- **Soil Cover System:** Quarterly site inspection of the cover system will include identification of any damage to the cover.
- **Groundwater Monitoring:** Semi-Annual low flow groundwater sampling of the following monitoring wells: MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16. The condition of these wells is also inspected quarterly.
- **Compliance with the property restrictions outlined in the Environmental Easement.**

2. **IC/EC Goals** - Each goal is being met and/or working effectively.

3. **IC/EC Corrective Measures** – No deficiencies were noted during the quarterly inspections.

4. **IC/EC Conclusions/Recommendations** – The IC/EC program is in compliance and there are no recommendations for the program at this time.

B. **IC/EC Certification** – Refer to PRR Form- Attachment 1 for the certification.

V. **Monitoring Plan Compliance Report** – The completed quarterly SMP Inspection Forms and Semi-Annual Groundwater Monitoring Reports for 2025 are included as Attachments 2 and 3, respectively. The next Semi-Annual Groundwater Monitoring Report, covering the spring 2026 monitoring period, will be submitted by July 15, 2026.

VI. **Operation & Maintenance (O&M) Plan Compliance Report** – Not Applicable.

##### VII. Overall PRR Conclusions and Recommendations

###### A. Compliance with Site Management Plan (SMP)

1. **Requirements** – All IC/EC Plan requirements were met during this reporting period.

2. **Exposure Pathways** – There are no new completed exposure pathways resulting in unacceptable risk.

3. **Proposed Plans and Schedule to Meet Compliance** – No plan proposed.
  - B. **Performance and Effectiveness of the Remedy** – The remedy as described in the Site Management Plan and executed by National Grid has been effective in meeting the program goals.
  - C. **Future PRR Submittals** – The frequency of PRR Submittals should remain annual. Therefore, the next PRR reporting period will cover April 15, 2026 through April 15, 2027.
- VIII. **Additional Guidance** – On April 22, 2026, the NYSDEC approved a change to the groundwater sampling scope whereby Natural Attenuation Parameters will be collected every 2 years, alternating between the spring and fall sampling events. The NYSDEC requested the preparation of an updated SMP reflecting this change, which is in progress.

**Attachment 1: PRR Certification Form**



**Enclosure 2**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



**Site Details**

**Site No.**            **518020**

**Box 1**

**Site Name** **NM - Johnstown MGP**

Site Address: 103 N. Market St      Zip Code: 12095  
City/Town: Johnstown  
County: Fulton  
Site Acreage: 0.700

Reporting Period: April 15, 2025 to April 15, 2026

- |  | YES                                 | NO                                  |
|--|-------------------------------------|-------------------------------------|
| 1. Is the information above correct?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 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?                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b> |                                     |                                     |
| 5. Is the site currently undergoing development?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Box 2**

- |  | YES                                 | NO                       |
|--|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?<br>Commercial and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs in place and functioning as designed?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**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 Controls**

Parcel

Owner

Institutional Control

**162.20-14-7**

National Grid

Ground Water Use Restriction  
Landuse Restriction  
Site Management Plan  
IC/EC Plan

- Use must be for commercial or industrial
- Compliance with a site management plan
- Groundwater use prohibited
- The potential for vapor intrusion must be evaluated for any buildings developed, and any potential impacts identified must be monitored or mitigated
- Vegetable gardens and farming prohibited
- Periodic Certification of ICs and ECs

**Description of Engineering Controls**

Parcel

Engineering Control

**162.20-14-7**

Cover System

- Soil Cover
- Sheet Pile Wall
- Monitoring/Extraction Well

**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. 518020

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 Gerald Cresap, PE at 6780 Northern Blvd. Suite 100, East Syracuse, NY  
print name print business address

am certifying as agent for National Grid (Owner or Remedial Party)

for the Site named in the Site Details Section

  
Signature of Owner, Remedial Party or Designated Representative  
Rendering Certification

5-5-2026  
Date



EC CERTIFICATIONS

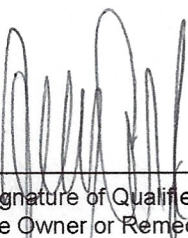
Box 7

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 Gerald Cresap, PE at 6780 Northern Blvd. Suite 100, East Syracuse, NY,  
print name print business address

am certifying as a Qualified Environmental Professional for the agent for National Grid  
(Owner or Remedial Party)



5-5-2026

Signature of Qualified Environmental Professional for the Owner or Remedial Party, Rendering Certification (Required for PE)

Date

**Attachment 2: Site Inspection Forms**

**Site Management Plan Inspection Form**  
**109 North Market Street**  
**Former MGP Site**  
**Johnstown, New York**

Date: 4/16/2025  
 Technician: KL

Time: 8:30  
 Weather: Cloudy 37

<b>Vegetation Cap</b>				
Condition of Grass	GOOD	FAIR	POOR	COMMENTS:
Condition of Site Trees	GOOD	FAIR	POOR	COMMENTS:
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:
Has the site been maintained/mowed?	YES		NO	COMMENTS:

<b>Sheet Pile Wall</b>			
Has any construction occurred that may have impacted the sheet pile wall?	YES	NO	COMMENTS:

<b>Site Wide</b>			
Does the property continue to be used for commercial and/or industrial uses?	YES	NO	COMMENTS:
Does the use of groundwater for potable or process water continue to be restricted?	YES	NO	COMMENTS:
Are agricultural or vegetable gardens present on the property?	YES	NO	COMMENTS:
Do the Engineering Controls continue to perform as designed?	YES	NO	COMMENTS:
Do the Engineering Controls continue to be protective of human health and environment?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Are the requirements of the Environmental Easement being met?	YES	NO	COMMENTS:
Since the last inspection has the groundwater been sampled in accordance with the SMP?	YES	NO	COMMENTS:
Since the last inspection have there been any changes to the remedial system?	YES	NO	COMMENTS:
Are there any needed changes?	YES	NO	COMMENTS:
Are the site records complete and up to date?	YES	NO	COMMENTS:

<b>Miscellaneous</b>				
Evidence of Trespassing	YES	NO	COMMENTS:	
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

<b>Site Monitoring Wells</b>		
<b>Well ID.</b>	<b>Location Secure</b>	
<b>RW-1</b>	YES	NO
<b>MW-4</b>	YES	NO
<b>MW-7</b>	YES	NO
<b>MW-10</b>	YES	NO
<b>MW-11</b>	YES	NO
<b>MW-12</b>	YES	NO
<b>MW-13</b>	YES	NO
<b>MW-14</b>	YES	NO
<b>MW-15</b>	YES	NO
<b>MW-16</b>	YES	NO

**General Comments:**

**Site Management Plan Inspection Form**  
**109 North Market Street**  
**Former MGP Site**  
**Johnstown, New York**

Date: 7/8/2025  
 Technician: KL

Time: 8:45  
 Weather: Cloudy 83

<b>Vegetation Cap</b>				
Condition of Grass	GOOD	FAIR	POOR	COMMENTS:
Condition of Site Trees	GOOD	FAIR	POOR	COMMENTS:
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:
Has the site been maintained/mowed?	YES		NO	COMMENTS:

<b>Sheet Pile Wall</b>			
Has any construction occurred that may have impacted the sheet pile wall?	YES	NO	COMMENTS:

<b>Site Wide</b>			
Does the property continue to be used for commercial and/or industrial uses?	YES	NO	COMMENTS:
Does the use of groundwater for potable or process water continue to be restricted?	YES	NO	COMMENTS:
Are agricultural or vegetable gardens present on the property?	YES	NO	COMMENTS:
Do the Engineering Controls continue to perform as designed?	YES	NO	COMMENTS:
Do the Engineering Controls continue to be protective of human health and environment?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Are the requirements of the Environmental Easement being met?	YES	NO	COMMENTS:
Since the last inspection has the groundwater been sampled in accordance with the SMP?	YES	NO	COMMENTS:
Since the last inspection have there been any changes to the remedial system?	YES	NO	COMMENTS:
Are there any needed changes?	YES	NO	COMMENTS:
Are the site records complete and up to date?	YES	NO	COMMENTS:

<b>Miscellaneous</b>				
Evidence of Trespassing	YES	NO	COMMENTS:	
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

<b>Site Monitoring Wells</b>		
<b>Well ID.</b>	<b>Location Secure</b>	
<b>RW-1</b>	YES	NO
<b>MW-4</b>	YES	NO
<b>MW-7</b>	YES	NO
<b>MW-10</b>	YES	NO
<b>MW-11</b>	YES	NO
<b>MW-12</b>	YES	NO
<b>MW-13</b>	YES	NO
<b>MW-14</b>	YES	NO
<b>MW-15</b>	YES	NO
<b>MW-16</b>	YES	NO

**General Comments:**

**Site Management Plan Inspection Form**  
**109 North Market Street**  
**Former MGP Site**  
**Johnstown, New York**

Date: 10/8/2025  
 Technician: KL

Time: 8:00  
 Weather: Rain 60

<b>Vegetation Cap</b>				
Condition of Grass	GOOD	FAIR	POOR	COMMENTS:
Condition of Site Trees	GOOD	FAIR	POOR	COMMENTS:
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:
Has the site been maintained/mowed?	YES		NO	COMMENTS:

<b>Sheet Pile Wall</b>			
Has any construction occurred that may have impacted the sheet pile wall?	YES	NO	COMMENTS:

<b>Site Wide</b>			
Does the property continue to be used for commercial and/or industrial uses?	YES	NO	COMMENTS:
Does the use of groundwater for potable or process water continue to be restricted?	YES	NO	COMMENTS:
Are agricultural or vegetable gardens present on the property?	YES	NO	COMMENTS:
Do the Engineering Controls continue to perform as designed?	YES	NO	COMMENTS:
Do the Engineering Controls continue to be protective of human health and environment?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Are the requirements of the Environmental Easement being met?	YES	NO	COMMENTS:
Since the last inspection has the groundwater been sampled in accordance with the SMP?	YES	NO	COMMENTS:
Since the last inspection have there been any changes to the remedial system?	YES	NO	COMMENTS:
Are there any needed changes?	YES	NO	COMMENTS:
Are the site records complete and up to date?	YES	NO	COMMENTS:

<b>Miscellaneous</b>				
Evidence of Trespassing	YES	NO	COMMENTS:	
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

<b>Site Monitoring Wells</b>		
<b>Well ID.</b>	<b>Location Secure</b>	
<b>RW-1</b>	YES	NO
<b>MW-4</b>	YES	NO
<b>MW-7</b>	YES	NO
<b>MW-10</b>	YES	NO
<b>MW-11</b>	YES	NO
<b>MW-12</b>	YES	NO
<b>MW-13</b>	YES	NO
<b>MW-14</b>	YES	NO
<b>MW-15</b>	YES	NO
<b>MW-16</b>	YES	NO

**General Comments:**

**Site Management Plan Inspection Form**  
**109 North Market Street**  
**Former MGP Site**  
**Johnstown, New York**

Date: 1/7/2026  
 Technician: TB

Time: 12:15  
 Weather: Cloudy 37

<b>Vegetation Cap</b>				
Condition of Grass	GOOD	FAIR	POOR	COMMENTS:
Condition of Site Trees	GOOD	FAIR	POOR	COMMENTS:
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:
Has the site been maintained/mowed?	YES		NO	COMMENTS: Winter

<b>Sheet Pile Wall</b>			
Has any construction occurred that may have impacted the sheet pile wall?	YES	NO	COMMENTS:

<b>Site Wide</b>			
Does the property continue to be used for commercial and/or industrial uses?	YES	NO	COMMENTS:
Does the use of groundwater for potable or process water continue to be restricted?	YES	NO	COMMENTS:
Are agricultural or vegetable gardens present on the property?	YES	NO	COMMENTS:
Do the Engineering Controls continue to perform as designed?	YES	NO	COMMENTS:
Do the Engineering Controls continue to be protective of human health and environment?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Are the requirements of the Environmental Easement being met?	YES	NO	COMMENTS:
Since the last inspection has the groundwater been sampled in accordance with the SMP?	YES	NO	COMMENTS:
Since the last inspection have there been any changes to the remedial system?	YES	NO	COMMENTS:
Are there any needed changes?	YES	NO	COMMENTS:
Are the site records complete and up to date?	YES	NO	COMMENTS:

<b>Miscellaneous</b>				
Evidence of Trespassing	YES	NO	COMMENTS:	
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

<b>Site Monitoring Wells</b>		
<b>Well ID.</b>	<b>Location Secure</b>	
<b>RW-1</b>	YES	NO
<b>MW-4</b>	YES	NO
<b>MW-7</b>	YES	NO
<b>MW-10</b>	YES	NO
<b>MW-11</b>	YES	NO
<b>MW-12</b>	YES	NO
<b>MW-13</b>	YES	NO
<b>MW-14</b>	YES	NO
<b>MW-15</b>	YES	NO
<b>MW-16</b>	YES	NO

**General Comments:**

City pushing snow up on site.

**Site Management Plan Inspection Form**  
**109 North Market Street**  
**Former MGP Site**  
**Johnstown, New York**

Date: 4/8/2026  
 Technician: KL

Time: 7:30  
 Weather: Sunny 26

<b>Vegetation Cap</b>				
Condition of Grass	GOOD	FAIR	POOR	COMMENTS:
Condition of Site Trees	GOOD	FAIR	POOR	COMMENTS:
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:
Has the site been maintained/mowed?	YES		NO	COMMENTS:

<b>Sheet Pile Wall</b>			
Has any construction occurred that may have impacted the sheet pile wall?	YES	NO	COMMENTS:

<b>Site Wide</b>			
Does the property continue to be used for commercial and/or industrial uses?	YES	NO	COMMENTS:
Does the use of groundwater for potable or process water continue to be restricted?	YES	NO	COMMENTS:
Are agricultural or vegetable gardens present on the property?	YES	NO	COMMENTS:
Do the Engineering Controls continue to perform as designed?	YES	NO	COMMENTS:
Do the Engineering Controls continue to be protective of human health and environment?	YES	NO	COMMENTS:
Are the requirements of the Site Management Plan being met?	YES	NO	COMMENTS:
Are the requirements of the Environmental Easement being met?	YES	NO	COMMENTS:
Since the last inspection has the groundwater been sampled in accordance with the SMP?	YES	NO	COMMENTS:
Since the last inspection have there been any changes to the remedial system?	YES	NO	COMMENTS:
Are there any needed changes?	YES	NO	COMMENTS:
Are the site records complete and up to date?	YES	NO	COMMENTS:

<b>Miscellaneous</b>				
Evidence of Trespassing	YES	NO	COMMENTS:	
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

<b>Site Monitoring Wells</b>		
<b>Well ID.</b>	<b>Location Secure</b>	
<b>RW-1</b>	YES	NO
<b>MW-4</b>	YES	NO
<b>MW-7</b>	YES	NO
<b>MW-10</b>	YES	NO
<b>MW-11</b>	YES	NO
<b>MW-12</b>	YES	NO
<b>MW-13</b>	YES	NO
<b>MW-14</b>	YES	NO
<b>MW-15</b>	YES	NO
<b>MW-16</b>	YES	NO

**General Comments:**



Site Conditions – July 8, 2025



Site Conditions – October 8, 2025

**Attachment 3: Semi-Annual Monitoring Reports**

July 23, 2025

Mr. Michael Squire  
Remedial Bureau C, 11th Floor  
Division of Environmental Remediation  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-7014

**Re:** Johnstown (N. Market St.)  
Former Manufactured Gas Plant Site (MGP)  
Site # 518020  
Semi-Annual Groundwater Monitoring Report (June 2025)

Dear Mr. Squire:

Enclosed is the Semi-Annual Groundwater Monitoring Report for the Johnstown (N. Market St.) MGP Site located in Johnstown, New York. The report includes the groundwater monitoring results from April 16, 2025.

National Grid acknowledges the NYSDEC Fact sheet dated June 2016 approving the site's environmental remediation construction completion. Long-term OM&M activities are being conducted in accordance with the approved Site Management Plan (SMP) and the site's Environmental Easement.

Please contact me at (315) 247-6490 or [Steven.Stucker@NationalGrid.com](mailto:Steven.Stucker@NationalGrid.com) if you have any questions regarding the report.

Sincerely,



for

Steven P. Stucker, C.P.G.  
Senior Environmental Engineer

Cc: Joseph Giordano -National Grid  
Nathan Freeman- NYSDOH

National Grid

# Semi-Annual Groundwater Monitoring Report



National Grid  
109 North Market Street  
Johnstown, NY 12095

July 2025

Version 1





## **Semi-Annual Groundwater Monitoring Report**

National Grid Johnstown Site  
109 North Market Street  
Johnstown, NY 12095

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July 23, 2025

A handwritten signature in black ink, appearing to read 'D. Shay', is positioned above a horizontal line.

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## Acronyms

bgs	Below ground surface	NYSDEC	New York State Department of Environmental Conservation
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes	ORP	Oxidation-Reduction Potential
COCs	Constituents of Concern	PAHs	Polycyclic Aromatic Hydrocarbons
cu. ft.	Cubic feet	PSA	Preliminary Site Assessment
DO	Dissolved Oxygen	QA/QC	Quality Assurance / Quality Control
DTB	Depth to Bottom	RI	Remedial Investigation
DTP	Depth to Product	ROD	Record of Decision
DTW	Depth to Water	SMP	Site Management Plan
DUSR	Data Usability Summary Report	SU	Standard Units
FS	Feasibility Study	SVOCs	Semi-Volatile Organic Compounds
GES	Groundwater & Environmental Services, Inc.	USEPA	United States Environmental Protection Agency
IRMs	Interim Remedial Measures	VOCs	Volatile Organic Compounds
mg/L	Milligrams per Liter	µg/L	Micrograms per Liter
MGP	Manufactured Gas Plant	WQ	Water Quality
MNA	Monitored Natural Attenuation		



# 1 Introduction

## 1.1 Overview

This Semi-Annual Groundwater Monitoring Report (the Report) summarizes the results of the April 2025 groundwater sampling event at the Johnstown, New York (N. Market Street) Former Manufactured Gas Plant (MGP) Site (the Site). This Report was developed as part of the long-term groundwater monitoring program on behalf of National Grid.

National Grid has been addressing the Site environmental conditions under an Order on Consent (Index Number D0-0001-9210), dated April 1999, that was entered into by Niagara Mohawk and the New York State Department of Environmental Conservation (NYSDEC). That Order on Consent was for the investigation and remediation of 21 former MGP sites, including the Johnstown (N. Market Street) Site. It was superseded by a new Order on Consent (Index Number A4-0473-0000), dated November 7, 2003. A NYSDEC-approved Supplemental Remedial Investigation (RI) Work Plan was finalized during November 2007, and a Final Supplemental RI Report was submitted to the NYSDEC, dated December 2008. The RI results report and subsequent Feasibility Study were approved in February 2010.

A Record of Decision (ROD) was issued by the NYSDEC, dated March 2010, in accordance with the requirements of New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, 6 NYCRR Part 375. Based upon the results of the remedial investigation/feasibility study (RI/FS) for the Site, the interim remedial measures (IRMs) previously completed, and the ROD, the draft Final Engineering Report and Site Management Plan (SMP) were developed and submitted to the NYSDEC in June 2010. The Final Engineering Report, the Final SMP, and the Final Environmental Easement were approved by the NYSDEC in their June 2016 Fact Sheet.

The Final SMP includes:

1. Semi-annual (April & October) site inspection and groundwater level measurements at monitoring wells MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, RMW-1, and the creek surface gauging station (bridge);
2. Semi-annual groundwater sampling/analysis [Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Heavy Metals, and Natural Attenuation Parameters] for monitoring wells MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16 (RMW-1 will not be sampled); and
3. Semi-annual reporting to NYSDEC.

## 1.2 Purpose and Objective

The purpose of this Report is to summarize the groundwater sampling activities and results of the latest event, and to compare the results to previous events. As described in the December 2008 Supplemental RI Report and the subsequent ROD, one of the primary goals is to evaluate whether



or not the groundwater constituents of concern (COCs) concentrations have decreased, in addition to continued assessment of the effectiveness of monitored natural attenuation.

## 2 Background

### 2.1 Site Description

The Site is located in the City of Johnstown, County of Fulton, New York (**Figure 1** presents the site location map) and is identified as Block 14 and Lot 7 on the Johnstown City Tax Map. The Site is an approximate 0.7-acre area bounded by the Cayadutta Creek to the north, the Colonial Cemetery to the south, Market Street to the east, and a wooded parcel of property to the west (**Figure 2** presents the site plan). The Site is located in a mixed commercial, industrial, and residential area.

Currently, National Grid operates a natural gas regulator station at the Site with equipment contained in fenced enclosures along the Site's southern boundary. The rest of the Site is grass-covered, including the stream bank adjacent to Cayadutta Creek along the northern boundary of the Site. An embankment exists along the north end of the Site that slopes down to the Cayadutta Creek. A chain-link fence exists along the north and west sides of the Site, and a retaining wall runs along the south side of the Site. Access to the Site is from North Market Street to the east.

The Johnstown Hospital is located south of the Site within one mile, and numerous residences exist to the west and east of the Site. The Johnstown Senior High School and Warren Street Elementary School are located within one mile of the Site to the west.

### 2.2 Site History

The Johnstown MGP Site was incorporated in March 1857 as the Johnstown Gas Light Company. The company operated a small coal gas plant with a 20,000 cubic foot (cu. ft.) holder (Holder #1), that was constructed in 1859 (see Figure 2 for all Holder locations at the former MGP Site). In 1861, the plant was improved with the addition of a coal shed and a covering for the tank holder. In 1886, the Johnstown and Gloversville Gas Light Corporation was formed, and the company purchased the rights to the Lowe water gas process. The United Gas Improvement Company planned the construction of a water gas plant for the Johnstown and Gloversville franchises.

In 1887, the Site consisted of a tool shop, an office, a coal gasometer, a lime house, a purifier room, a retort house, and a coal shed. Between 1887 and 1918, Holder #2 was located in the western-central part of the Site (exact size unknown). In 1892, a steam generator was constructed adjacent to the coal shed for the Lowe water gas process, and Holder #1 was decommissioned in 1896. In 1898, a 72,000-cu. ft. gas holder (Holder #3) was constructed on the Site. Between 1912 and 1918, the small gas holder (Holder #2) in the western-central area of the Site was removed. In 1929, a gas pipeline from an MGP in Troy, New York, reached Johnstown, and local gas production was only performed on a seasonal (winter) basis until local production of gas ceased in 1931. Niagara Hudson Power Company was the owner of the Site in 1930. By 1948, Holder #3 was decommissioned. In 1950, Niagara Hudson Power was consolidated under the



name Niagara Mohawk Power Company. By 1980, all Site buildings were removed. Currently, National Grid operates a natural gas regulator station at the Site.

### **2.2.1 Site Assessment and Investigations**

An investigation of the Site began in 1997 with a Preliminary Site Assessment (PSA), which found that the Site was impacted with MGP wastes. A Supplemental PSA was conducted at the Site in 1998, followed by a RI in January 2000 and subsequent IRMs. The IRMs are discussed separately within this section.

A 2009 Supplemental RI was initiated to collect data to address potential residual MGP-related contaminants remaining in groundwater at the Site and to assess hydrogeologic conditions and groundwater quality on the Site. The results of the Supplemental RI were used to formulate potential remedial alternatives for groundwater and residual soil contamination. The Supplemental RI results were evaluated and presented in the 2010 Feasibility Study Report.

### **2.2.2 Interim Remedial Measures Completed**

Several IRMs were performed to address the residual MGP impacts. In 2002 and 2003, the former holders and associated impacted soil were removed. During this IRM, former Holder #2 and the northern half of former Holder #3 were demolished and removed from the Site. Approximately 13,870 cubic yards of soil were excavated and disposed of off-site at a NYSDEC-approved facility. Permanent steel sheeting was left in place along the northeastern perimeter of the Site to avoid disturbance of the roadway and to provide containment of residual material left at depth.

Between 2005 and 2006, National Grid provided support to the City of Johnstown for subsurface work associated with the replacement of the North Market Street Bridge across Cayadutta Creek. Approximately 1,413 cubic yards of impacted soil were excavated from within the cofferdam area and disposed of off-site at a NYSDEC-approved facility.

In August 2009, the rip-rap area along the bank of Cayadutta Creek that had been restored during the previous IRMs was enhanced to allow for establishment of stream-side vegetation. Post-IRM inspections of the restored Cayadutta Creek bank were conducted in September 2009 and May 2010.

## **2.3 Environmental Setting**

The Johnstown (N. Market Street) Site slopes northward toward Cayadutta Creek with elevations ranging from 652 to 672 feet (ft.) above sea level. Currently, the Site topography gradually slopes from south to north, becoming increasingly steeper adjacent to the Creek, and is generally covered with either vegetation or stone. Surface drainage is primarily to the north into the creek. Access to the Site is from North Market Street to the east, and the Site is currently used to support the natural gas regulator station operations.



### 2.3.1 Site Geology

The main units of unconsolidated deposits identified at the Site can be characterized in descending order as fill and native glacial deposits to bedrock. The glacial deposits are of lacustrine origin with glacial tills to the top of shale bedrock (Utica Shale). Bedrock was reached beneath the till in two soil borings explored during the 1998 Supplemental PSA. These stratigraphic units are more specifically described below, based on information obtained from the previous investigations and from the soil borings and monitoring well borings conducted during the 2007/ 2008 SRI.

Site geology includes a layer of disturbed soils (primarily fill) overlying glacial deposits. Based upon on-site soils and monitoring well borings, disturbed soils (including fills) varied in thickness up to 13 ft. and are typically composed of sand, gravel, silt, clay, wood, coal, and anthropogenic materials including ash, cinders, clinkers, brick fragments, wire, and wood chips. Wood chips were identified in three borings (SB-09, SB-12, and MW-8) and are often associated with purifier waste.

A thin layer of peat underlies the disturbed soils in the northern portion of the Site, ranging in thickness from 0.5 ft. to 3 ft., and appears to thicken and dip to the north. Except where it is locally covered by sedimentary deposits such as silts, sands, and clays, the peat, where present, appears to have been the historical ground cover prior to development of the Site.

Underlying the peat, where present, the soil consists of lacustrine deposits composed of silts, sands, and clays. The surface of the lacustrine deposits appears to dip and thin out toward the north. A sand and gravel unit (an outwash deposit of stratified drift) underlies the lacustrine deposits across the Site area. This unit contains varying amounts of silt and clay. These deposits overlie a dense, low-permeability glacial till to bedrock (Shale).

### 2.3.2 Site Hydrogeology

Groundwater depths on-site are typically in the 10- to 20-foot below ground surface (bgs) range, generally in the glacial deposits below the bottom of the fill material. Groundwater flow is consistently northward through the Site area toward Cayadutta Creek, with the steepest gradient from the center of the Site proximal to former gas holders #2 and #3 to the southern Creek bank (about 0.09 ft./ft.). In comparison, the average hydraulic gradient decreases to a value of approximately 0.05 ft./ft. on the east and west sides of the Site away from the former gas holders. The local groundwater flow is consistent with regional groundwater flow direction. The groundwater flow direction and hydraulic gradients calculated during this monitoring period are also generally consistent with historic data obtained prior to the issuance of the ROD.

### 3 Monitoring Activities

The long-term semi-annual groundwater monitoring program currently consists of the following elements:

- Semi-Annual Site Inspection including the creek bank protection, vegetative cover, monitoring wells, and security fence.
- Semi-Annual Groundwater Well Gauging of the following wells: RW-1, MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and MW-16 (Figure 2 presents the well locations). The creek surface water level is also gauged at one location: SG-1.
- Semi-Annual Groundwater Sampling and Analysis of the following: MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and MW-16. Note that recovery well RW-1 is not sampled as part of the program but is inspected for the presence of non-aqueous phase liquids (NAPL).

#### 3.1 Groundwater Gauging and Sampling Procedures

##### 3.1.1 Gauging

Long-term groundwater monitoring includes water level gauging at nine (9) groundwater monitoring wells and one (1) groundwater recovery well using an electronic oil/water interface probe. Depth to bottom of well (DTB), depth to product (DTP), and depth to water (DTW) are to be recorded at each well. Refer to **Table 2** for a summary of the water level measurements from April 2025 as well as previous events. **Appendix A** also presents the field documentation from the April 2025 water gauging event.

No product was present in recovery well RW-1 or the other nine (9) groundwater monitoring wells that were gauged.

A creek surface water level measurement was collected from the Cayadutta Creek Bridge using a water level probe (from the surveyed gauging point at the bridge).

##### 3.1.2 Sampling

Groundwater sampling was performed following low-flow sampling techniques [equivalent to United States Environmental Protection Agency (USEPA) low-flow procedures] using a pressure-driven peristaltic pump. During purging, measurements were collected for the following field parameters: pH, specific conductivity, turbidity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP). A Horiba U-22 was used to collect the field parameter data in a flow-through cell. The monitored field parameters are observed and recorded during low-flow sampling to determine when they have stabilized, and thus when the well has been adequately purged. Field parameter measurements were recorded at approximately 5-minute intervals. The monitoring wells were purged until stabilization of the field parameters ( $\pm 0.1$  Standard Unit (SU) for pH,  $\pm 3\%$  for specific conductivity,  $\pm 10$  millivolts (mV) for ORP, and  $\pm 10\%$  for DO) and turbidity was less than 50 Nephelometric Turbidity Units (NTU). Refer to **Attachment A** for the field data.



After stabilization of the field parameters, nine groundwater samples were collected directly from the dedicated tubing into laboratory-supplied sample containers (pre-preserved as required per the analytical method). Quality Assurance/Quality Control (QA/QC) samples included the collection of one field duplicate sample, one matrix spike (MS) sample, one duplicate matrix spike (DMS) sample, and one trip blank sample (VOCs only). Samples were transported to the laboratory, accompanied by the appropriate chain-of-custody documentation. Analytical results were validated.

### 3.1.3 Natural Attenuation Parameters

The ORP of groundwater may be used as a general indicator of the dominant attenuation processes and the relative tendency of the biological processes to accept or transfer electrons. ORP is dependent on and influences rates of biodegradation. Lower ORP readings indicate reduced conditions and are indicative of anaerobic biologic degradation processes.

The pH of the groundwater affects the presence and activity of microorganisms in the groundwater. The microorganisms may produce either organic acids or carbon dioxide which, when dissolved in water, forms weak carbonic acid. Microorganisms capable of degrading petroleum hydrocarbons are most active with pH values ranging from 6 to 8 SU.

Groundwater temperature affects the solubility of dissolved gases such as oxygen and carbon dioxide as well as the metabolic activity of microorganisms. Oxygen is less soluble in warm water, and groundwater temperatures below approximately 5 degrees Celsius tend to inhibit biodegradation.

DO is the most thermodynamically favored electron acceptor used by microorganisms during the degradation of both natural and anthropogenic organic carbon. An inverse relationship of high hydrocarbon concentrations and low DO concentrations can be used as a key indicator of biodegradation.

Nitrate, if available, may be used as an electron acceptor for anaerobic biodegradation after the depletion of DO [typically considered less than 0.5 milligrams per liter (mg/L)] and is used to biodegrade petroleum hydrocarbons. Lower nitrate concentrations in groundwater within a plume, with respect to higher concentrations in areas upgradient and outside a plume, may be expected.

Ferrous iron is a metabolic byproduct of hydrocarbon degradation. Reducing conditions in nitrogen- and oxygen-depleted groundwater creates an anaerobic environment that causes the reduction of ferric iron ( $\text{Fe}^{3+}$ ) to ferrous iron ( $\text{Fe}^{2+}$ ). Relatively low ferrous iron concentrations may be present in areas where natural attenuation is occurring if free ferrous iron is re-precipitating as sulfides or carbonates.

Sulfate may be used as an electron acceptor after the depletion or use limitation of DO, nitrate, and ferric iron. Lower sulfate concentrations in groundwater within a plume, with respect to higher concentrations in areas upgradient and outside a plume, may be expected.

The production of methane, termed methanogenesis, occurs only in strongly reducing conditions and generally after oxygen, nitrate, and sulfate have been depleted. The presence of methane in



groundwater suggests Benzene, Toluene, Ethylbenzene, Xylene (BTEX) degradation via methanogenesis. Methane is not present in fuels, and therefore its presence at high concentrations relative to areas upgradient and outside a plume is indicative of the biodegradation of petroleum hydrocarbons.

The buffering capacity of groundwater is a function of alkalinity. Typically, alkalinity is primarily due to carbonate alkalinity. The organic acids or carbon dioxide (which produces a weak carbonic acid when dissolved in water) produced by biodegradation solubilize carbonate from the soil. Alkalinity concentrations that are elevated with respect to areas upgradient and outside a plume may be an indication of microbial activity and thus natural attenuation.

Typically, the relationships between BTEX and electron acceptors/metabolic byproduct concentrations (geochemical indicators) indicate potential for biodegradation. The concentrations are dependent on the location (and groundwater conditions) within the plume or outside of the plume limits.

### **3.2 Groundwater Analytical Results**

The groundwater samples were analyzed for BTEX, Polycyclic Aromatic Hydrocarbons (PAHs), lead, total cyanide, and monitored natural attenuation/water quality (MNA/WQ) parameters including alkalinity, chloride, ethane, ethene, ferrous iron, manganese, methane, nitrate, nitrogen, sulfate and sulfide. BTEX, PAHs, and cyanide are constituents commonly associated with former MGP sites. BTEX, PAHs, lead, and cyanide were the primary contaminants detected during previous investigation activities conducted at the Site. The MNA/WQ parameters, as well as field-measured ORP, pH, temperature, and DO, are relevant to establishing whether conditions are favorable for natural attenuation to occur at the Site.

- Refer to Table 3 for the analytical results summary.
- Refer to Appendix A for field data.
- Refer to Appendix B for the data usability summary report (DUSR).

Groundwater analytical results were compared with levels specified in the NYSDEC Division of Water Final Amendment to Water Quality Standards Regulations, effective February 16, 2008 [hereafter referred to as NYSDEC WQ Values]. For groundwater, Class GA values were applied. Class GA waters are defined as fresh groundwater, found in the saturated zone of unconsolidated deposits and consolidated rock or bedrock, which are used as a source of potable water supply.



### 3.2.1 Site Related Parameters

**BTEX** - Groundwater samples collected on April 16, 2025, from monitoring wells MW-10, MW-11, MW-13, MW-15, and MW-16 contained concentrations of some or all individual BTEX constituents above their respective NYSDEC WQ Values [1 microgram per liter ( $\mu\text{g/L}$ ) for benzene and 5  $\mu\text{g/L}$  for other BTEX constituents]. The highest concentrations of BTEX were observed in the groundwater samples collected from monitoring well MW-15. Monitoring well MW-15 is located northeast of former gas holder #2.

**PAHs** – PAHs above NYSDEC WQ Values were detected in samples collected on April 16, 2025, from monitoring wells MW-11, MW-13, MW-15, and MW-16. Naphthalene (MW-15) has typically been detected at the highest concentration of any PAH.

**Cyanide** - Concentrations of cyanide were below the NYSDEC WQ Value (0.2 mg/L) in all groundwater samples April 16, 2025.

### 3.2.2 Monitored Natural Attenuation Parameters

Site-specific levels of the MNA/WQ parameters (geochemical indicators) were compared to known screening values to identify whether the site-specific values are within the ranges known to be suitable for biodegradation. The April 2025 MNA/WQ analytical results for the individual monitoring wells are summarized in **Table 3**. **Figure 4** presents the groundwater data for the key MNA data parameters at their respective locations to assist with the MNA evaluation. Indications of biodegradation of petroleum-related MGP constituents within the plume include low levels of DO, nitrate and sulfate, with generally higher levels of manganese, ferrous iron and methane.

Indicator concentrations detected at monitoring wells identified within source and downgradient areas of the Site were compared to levels detected at upgradient and side gradient monitoring wells exhibiting little or no MGP-related contamination. Generally, indicator concentration levels at a distance from the center of the plume are expected to be significantly lower than levels within the plume. A summary of the MNA/WQ results and associated field indicator parameters are provided below:

- DO and ORP values demonstrate depleted levels of DO and a transformation to more anaerobic or reducing conditions at the former source and downgradient areas relative to side gradient and upgradient areas of the Site. These values suggest that biodegradation of MGP petroleum-related compounds at the source and at downgradient areas are occurring, consuming the available oxygen which produces decreased DO levels.
- The range of ORP levels observed at the source and downgradient area monitoring wells generally indicates reduced aquifer conditions which could be suitable for denitrification, ferric iron reduction, sulfate reduction, and methanogenesis.
- Nitrate concentrations are generally depleted at the former source and downgradient areas of the Site relative to upgradient (MW-4) and side gradient (MW-12) areas, indicating denitrification may be a noteworthy biodegradation process occurring at this time at the source and downgradient areas.



- Ferrous iron concentrations at the former source and downgradient area monitoring wells (MW-7, MW-10, MW-14, MW-15) exhibit higher levels relative to side gradient and upgradient monitoring wells (MW-4, MW-12). The presence of these metabolic by-products downgradient of the source area suggest biodegradation of MGP petroleum-related compounds may be occurring.
- Sulfate concentrations at the former source and downgradient areas are not depleted relative to upgradient and side gradient areas. This observation indicates sulfate reduction is not likely to be a significant biodegradation process at this time at the source and downgradient areas.
- Based on the presence of methane, low DO concentrations, and the reduced ORP levels, methanogenesis is likely an important factor for biodegradation capacity in the source and downgradient areas of the Site.

### 3.2.3 Natural Attenuation Trending

Previous groundwater sampling data collected since April 2013 (the dataset) were utilized to develop and evaluate the contaminant plume and concentration trends of specific constituents at the Site. Plume size and concentration data are indicative of biodegradation capacity (natural attenuation) at the Site and whether the capacity has reached a limit of effectiveness. In order to determine and evaluate natural attenuation effectiveness, statistical testing was utilized for groundwater data collected from monitoring wells at the Site. The Mann-Kendall test was performed on the dataset to identify potential trends in groundwater concentrations of site contaminants. The Mann-Kendall test is a nonparametric evaluation used to identify a trend in a series, even if there is a seasonal component in the series. The three possible hypotheses are that there is a negative, null, or positive trend. The resultant statistical trend analysis for individual monitoring wells suggests (with 80% and 90% confidence) that total BTEX compounds and the naphthalene plume lifecycle demonstrate either no trend or a decreasing trend throughout the monitoring period. It is worth noting that a failure to reject the null hypothesis (i.e., “no trend”) does not prove that there is no trend; it merely means that the available data is not sufficient to conclude there is a trend. In cases where no trend was determined, a comparison of the dataset to the historical highs and lows was performed to determine if the plume is stable; in every case, this evaluation concluded the plume is stable. The table below depicts general concentration trend analysis results (decreasing, no trend or increasing) at 80% confidence levels for each well and associated constituents during the monitoring period. No trend is indicative of plume stability at well locations with contaminant detections throughout the monitoring period.



**Table 1 – Contaminant Trend Analysis**

Well ID	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
MW-4	Stable	Stable	Stable	Stable	No Trend
MW-7	Stable	Stable	Stable	Stable	No Trend
MW-10	No Trend	Stable	Stable	Stable	No Trend
MW-11	No Trend	No Trend	No Trend	No Trend	Decreasing
MW-12	Stable	Stable	Stable	Stable	No Trend
MW-13	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
MW-14	Stable	No Trend	No Trend	No Trend	No Trend
MW-15	Decreasing	Stable	Stable	Stable	Probably Increasing
MW-16	Decreasing	Decreasing	Decreasing	No Trend	Increasing

Isoconcentration contour maps were developed for total BTEX (**Figure 5**) and naphthalene (**Figure 6**) contamination. The figures present locations of the groundwater monitoring wells and plume contours for total BTEX (as compared to the benzene WQ value of 1 µg/L) and naphthalene exceeding the NYSDEC WQ values. Evaluation of the isoconcentration figures suggests that the contaminant plumes were relatively stable to decreasing (smaller footprint with time) within the Site boundary. BTEX constituent plume trends (concentrations above the benzene WQ value of 1 µg/L) have consistently included monitoring wells MW-11, MW-13, MW-15, and MW-16. The naphthalene plume (concentrations above the WQ) currently includes monitoring wells MW-11, and MW-15.

## 4 Conclusions and Recommendations

### 4.1 Conclusions

#### 4.1.1 Groundwater Levels

The groundwater elevation data indicates groundwater within the Site flows from the south to the north, toward Cayadutta Creek. The groundwater flow direction has been consistent during previous gauging events and with data obtained prior to the ROD. **Figure 3** is a groundwater monitoring map verifying groundwater flow direction.

#### 4.1.2 Site-Related Constituents

The highest concentrations of BTEX constituents and PAH compounds are at wells MW-11, MW-13, MW-15, and MW-16. Site institutional controls continue to be effective and will continue to be monitored semi-annually.

There are minimal concentrations of lead in groundwater samples; however, Cyanide has been detected consistently in most wells.



### 4.1.3 Natural Attenuation

Plume stability at the Site is an indication that biodegradation capacity likely has not reached its limit of effectiveness. The use of statistical testing has identified the plume trends based on the constituent concentrations were typically either stable or decreasing. At wells MW-15 and MW-16, the Mann Kendall test indicates that naphthalene is increasing over time, however current groundwater concentrations at each location are consistent with the results obtained over 10 years of monitoring.

## 4.2 Recommendations

Based on the results of the April 2025 groundwater sampling and monitoring event and results from previous events, it is recommended to continue the long-term semi-annual site inspection and groundwater monitoring program. The next event will occur in October 2025.

## 5 References

Borden, Robert C., et. al., "Geochemical Indicators of Intrinsic Bioremediation". Groundwater, Volume 33, Number 2, March/April 1995.

National Grid. "Site Management Plan for the Johnstown (N. Market Street) Former MGP Site, Johnstown, New York". National Grid, November 2011.

Niagara Mohawk Power Corporation. "Preliminary Historical Profile of the Johnstown (Market Street) MGP Site. Johnstown, New York". Niagara Mohawk Power Corporation, June 1993.

Niagara Mohawk Power Corporation. "Interim Remedial Measure (IRM) Summary Report for the Johnstown (N. Market Street) Site. Johnstown, Fulton County, New York. Site No. 5-18-020:.. Tetra Tech FW, June 2007.

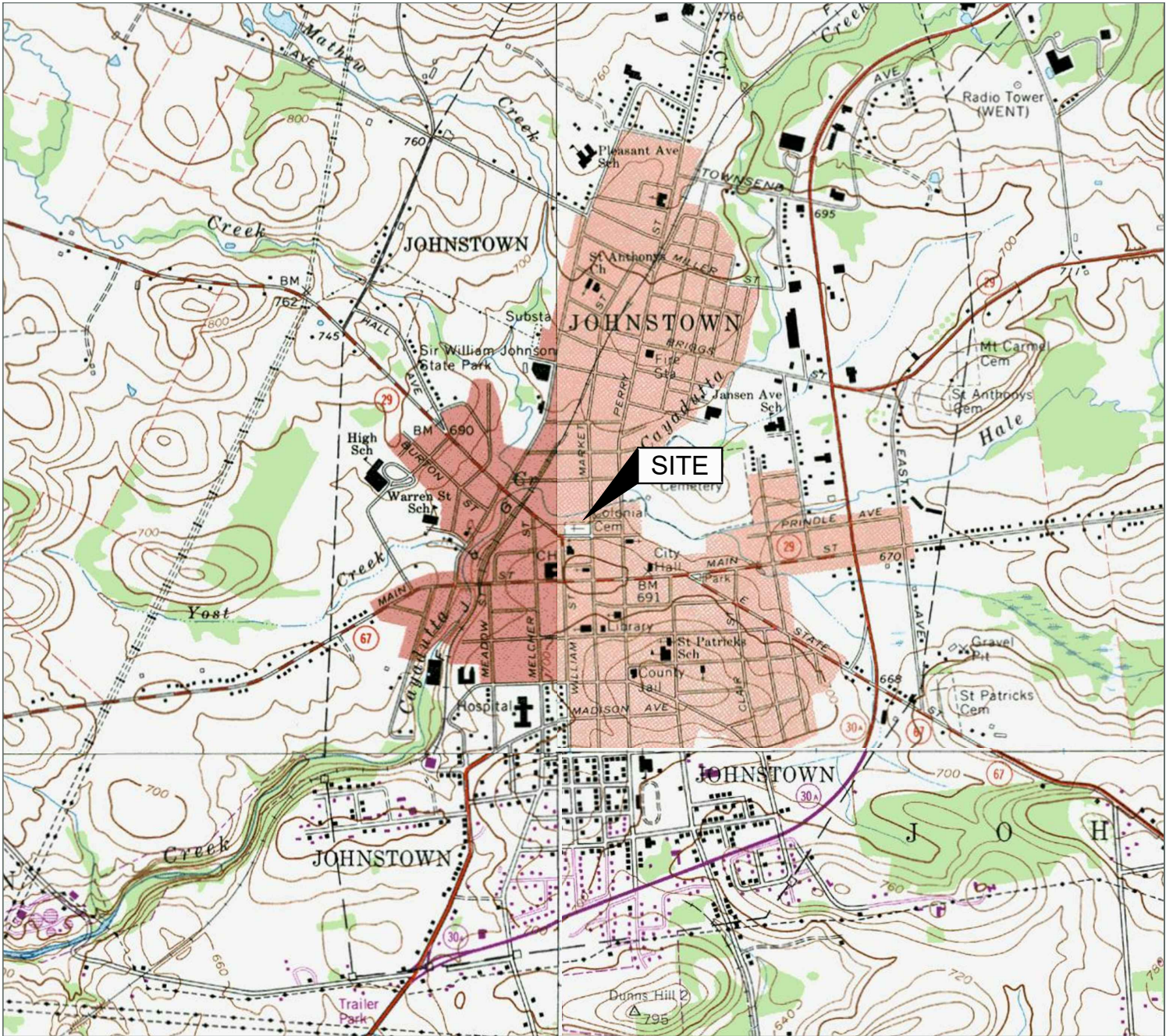
Niagara Mohawk Power Corporation. "IRM Summary Report for the Johnstown (N. Market Street) Site. Bridge Replacement Environmental Support Activities". Tetra Tech FW, October 2007.

Niagara Mohawk Power Corporation. "Record of Decision for the Johnstown (N. Market Street) Former MGP Site, Johnstown, New York". Niagara Mohawk Power Corporation, March 2010.



## Figures

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Source:  
 USGS 7.5 Minute Series  
 Topographic Quadrangle, 1970  
 Gloversville, New York  
 Contour Interval = 20'



Site Location Map

National Grid  
 Former MGP Site  
 105 N Market Street  
 Johnstown, New York

Drawn  
 W.G.S.  
 Designed  
 Approved

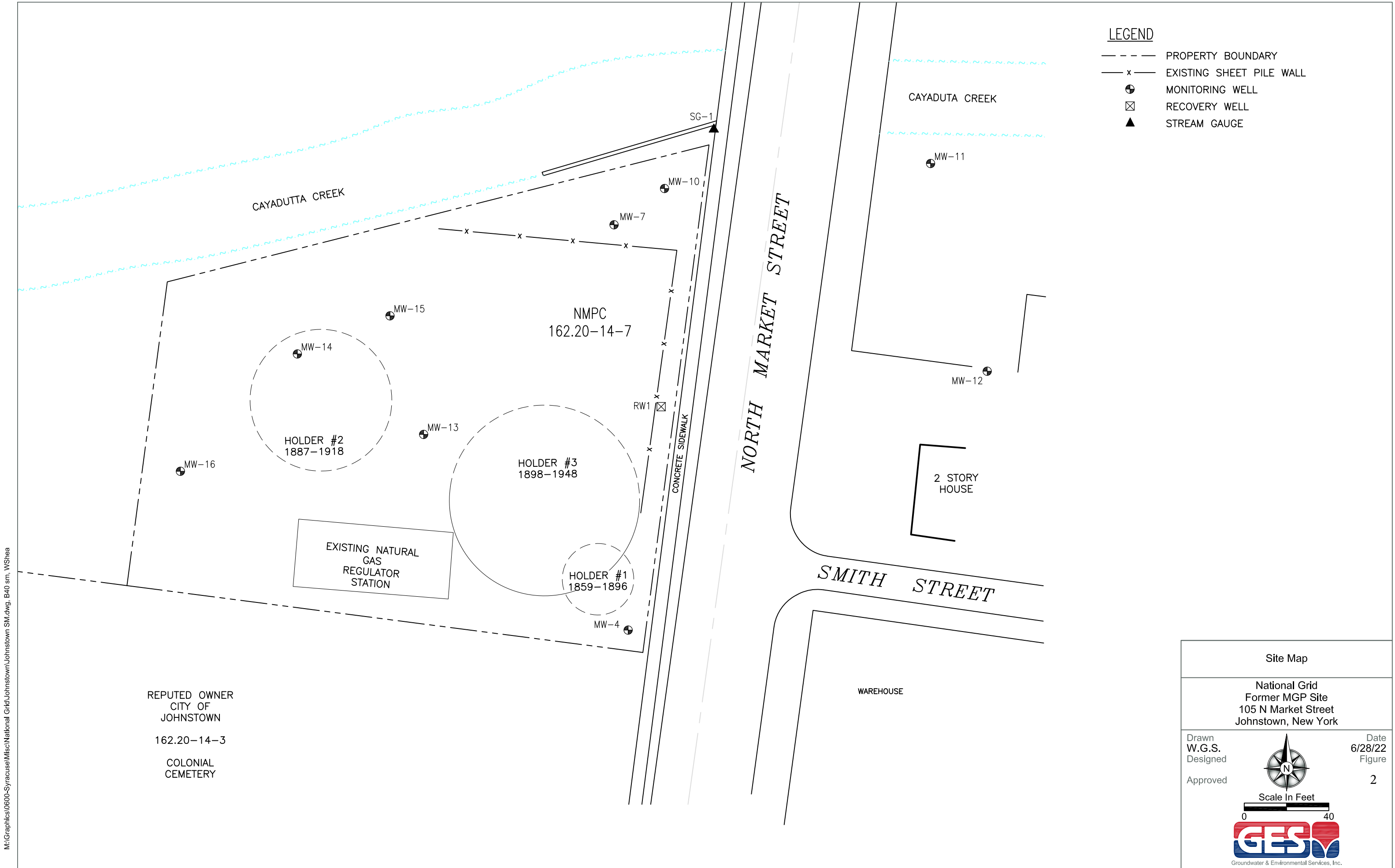
Date  
 11/15/19  
 Figure  
 1



Scale In Feet



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REPUTED OWNER  
CITY OF  
JOHNSTOWN  
162.20-14-3  
COLONIAL  
CEMETERY

CAYADUTTA CREEK

NMPC  
162.20-14-7

HOLDER #2  
1887-1918

HOLDER #3  
1898-1948

HOLDER #1  
1859-1896

EXISTING NATURAL  
GAS  
REGULATOR  
STATION

CONCRETE SIDEWALK

NORTH MARKET STREET

SMITH STREET

CAYADUTTA CREEK

2 STORY  
HOUSE

WAREHOUSE

MW-16

MW-14

MW-15

MW-13

MW-7

MW-10

MW-4

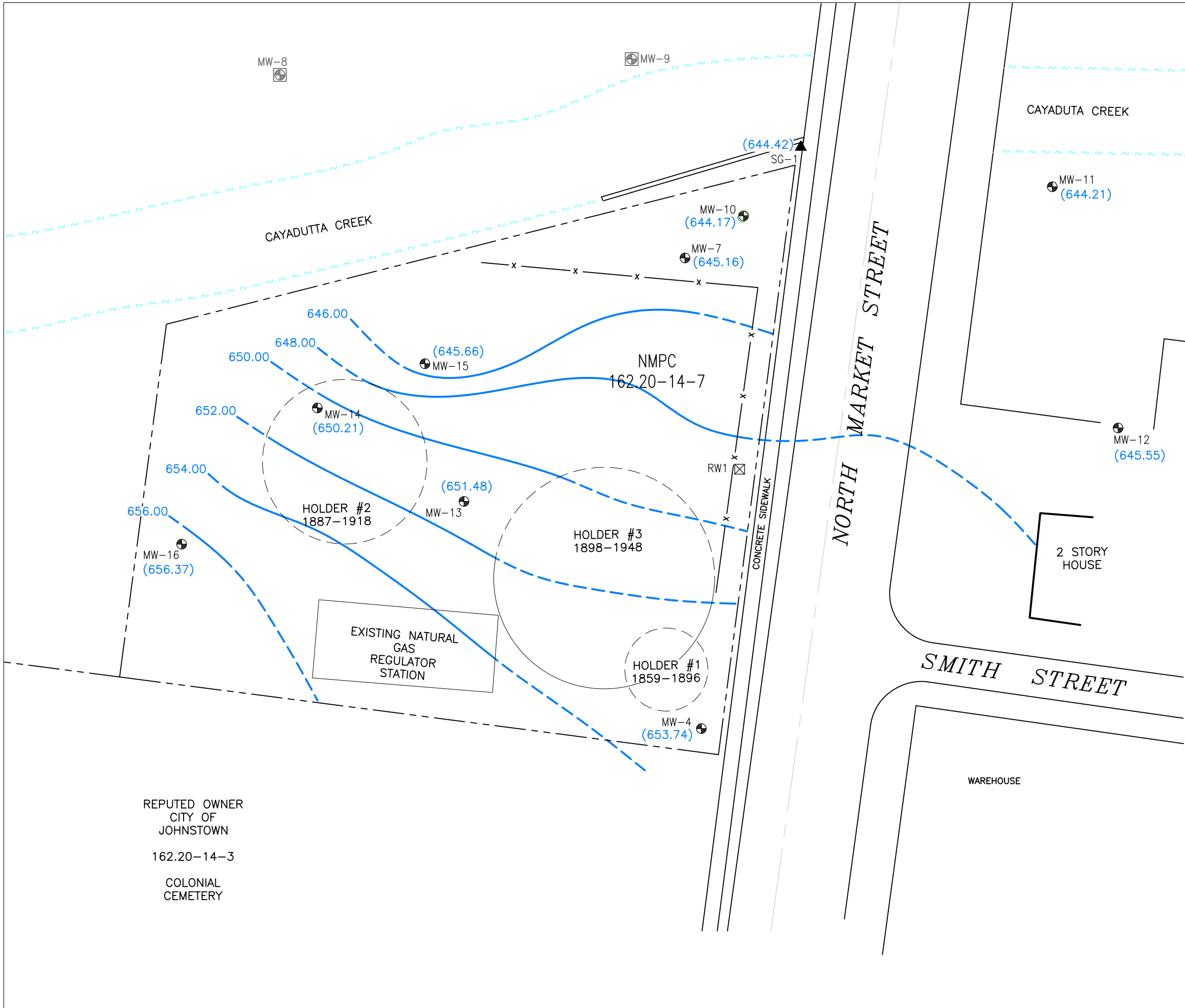
RW1

SG-1

MW-11

MW-12

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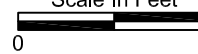
**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- ⊕ MONITORING WELL
- ⊗ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊕ DESTROYED/ABANDONED WELL
- (653.74) GROUNDWATER ELEVATION (feet)
- ~ GROUNDWATER CONTOUR (FEET)  
DASHED WHERE INFERRED

**NOTES:**

SG-1 WAS NOT USED FOR CONTOURING PURPOSES..

REPUTED OWNER  
CITY OF  
JOHNSTOWN  
  
162.20-14-3  
  
COLONIAL  
CEMETERY

Groundwater Monitoring Map April 16, 2025	
National Grid Former MGP Site 105 N Market Street Johnstown, New York	
Drawn M.H. Designed R.K. Approved	Date 05/29/25 Figure 3
 Scale In Feet   <small>Groundwater &amp; Environmental Services, Inc.</small>	

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MW7  
04/16/25

ALKALINITY (as CaCO3)	mg/L	416
CHLORIDE	mg/L	65.7
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	ND(<7.0)
FERROUS IRON	mg/L	0.29
MANGANESE	mg/L	0.44
METHANE	µg/L	120
NITRATE	mg/L	0.063
NITROGEN	mg/L	1.8
SULFATE	mg/L	261
SULFIDE	mg/L	ND(<1.0)

MW15  
04/16/25

ALKALINITY (as CaCO3)	mg/L	468
CHLORIDE	mg/L	14.3
ETHANE	µg/L	ND(<170)
ETHENE	µg/L	ND(<150)
FERROUS IRON	mg/L	0.35
MANGANESE	mg/L	0.78
METHANE	µg/L	4,100
NITRATE	mg/L	0.020 J
NITROGEN	mg/L	1.3
SULFATE	mg/L	30.6
SULFIDE	mg/L	ND(<1.0)

MW14  
04/16/25

ALKALINITY (as CaCO3)	mg/L	328
CHLORIDE	mg/L	4.6
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	ND(<7.0)
FERROUS IRON	mg/L	0.16
MANGANESE	mg/L	0.29
METHANE	µg/L	4.0
NITRATE	mg/L	0.36
NITROGEN	mg/L	0.56
SULFATE	mg/L	18.9
SULFIDE	mg/L	ND(<1.0)

MW16  
04/16/25

ALKALINITY (as CaCO3)	mg/L	591
CHLORIDE	mg/L	3.4
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	ND(<7.0)
FERROUS IRON	mg/L	0.15
MANGANESE	mg/L	0.10
METHANE	µg/L	230
NITRATE	mg/L	0.75
NITROGEN	mg/L	0.91
SULFATE	mg/L	39.9
SULFIDE	mg/L	ND(<1.0)

MW11  
04/16/25

ALKALINITY (as CaCO3)	mg/L	431
CHLORIDE	mg/L	463
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	2.6 J
FERROUS IRON	mg/L	0.83
MANGANESE	mg/L	0.41
METHANE	µg/L	420
NITRATE	mg/L	0.038 J
NITROGEN	mg/L	0.71
SULFATE	mg/L	38.2
SULFIDE	mg/L	ND(<1.0)

MW10  
04/16/25

ALKALINITY (as CaCO3)	mg/L	576
CHLORIDE	mg/L	459
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	ND(<7.0)
FERROUS IRON	mg/L	0.42
MANGANESE	mg/L	1.3
METHANE	µg/L	2,800
NITRATE	mg/L	ND(<0.050)
NITROGEN	mg/L	4.1
SULFATE	mg/L	3.4 J
SULFIDE	mg/L	ND(<1.0)

MW12  
04/16/25

ALKALINITY (as CaCO3)	mg/L	376
CHLORIDE	mg/L	673
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	0.028
METHANE	µg/L	ND(<4.0)
NITRATE	mg/L	3.5
NITROGEN	mg/L	0.55
SULFATE	mg/L	77.6
SULFIDE	mg/L	ND(<1.0)

MW13  
04/16/25

ALKALINITY (as CaCO3)	mg/L	276
CHLORIDE	mg/L	2.1
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	0.029
METHANE	µg/L	70
NITRATE	mg/L	ND(<0.050)
NITROGEN	mg/L	0.40
SULFATE	mg/L	15.3
SULFIDE	mg/L	ND(<1.0)

MW4  
04/16/25

ALKALINITY (as CaCO3)	mg/L	405
CHLORIDE	mg/L	147
ETHANE	µg/L	ND(<7.5)
ETHENE	µg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	0.0012 J
METHANE	µg/L	ND(<4.0)
NITRATE	mg/L	3.3
NITROGEN	mg/L	0.29
SULFATE	mg/L	28.7
SULFIDE	mg/L	ND(<1.0)

LEGEND

- PROPERTY BOUNDARY
- x- EXISTING SHEET PILE WALL
- ⊕ MONITORING WELL
- ⊗ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊖ DESTROYED/ABANDONED WELL
- µg/L MICROGRAMS PER LITER
- mg/L MILLIGRAMS PER LITER
- <# WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN
- J ESTIMATED CONCENTRATION

REPUTED OWNER  
CITY OF  
JOHNSTOWN  
  
162.20-14-3  
  
COLONIAL  
CEMETERY

Natural Attenuation Map  
April 16, 2025

National Grid  
Former MGP Site  
105 N Market Street  
Johnstown, New York

Drawn  
M.H.  
Designed  
R.K.  
Approved

Date  
05/29/25  
Figure  
4

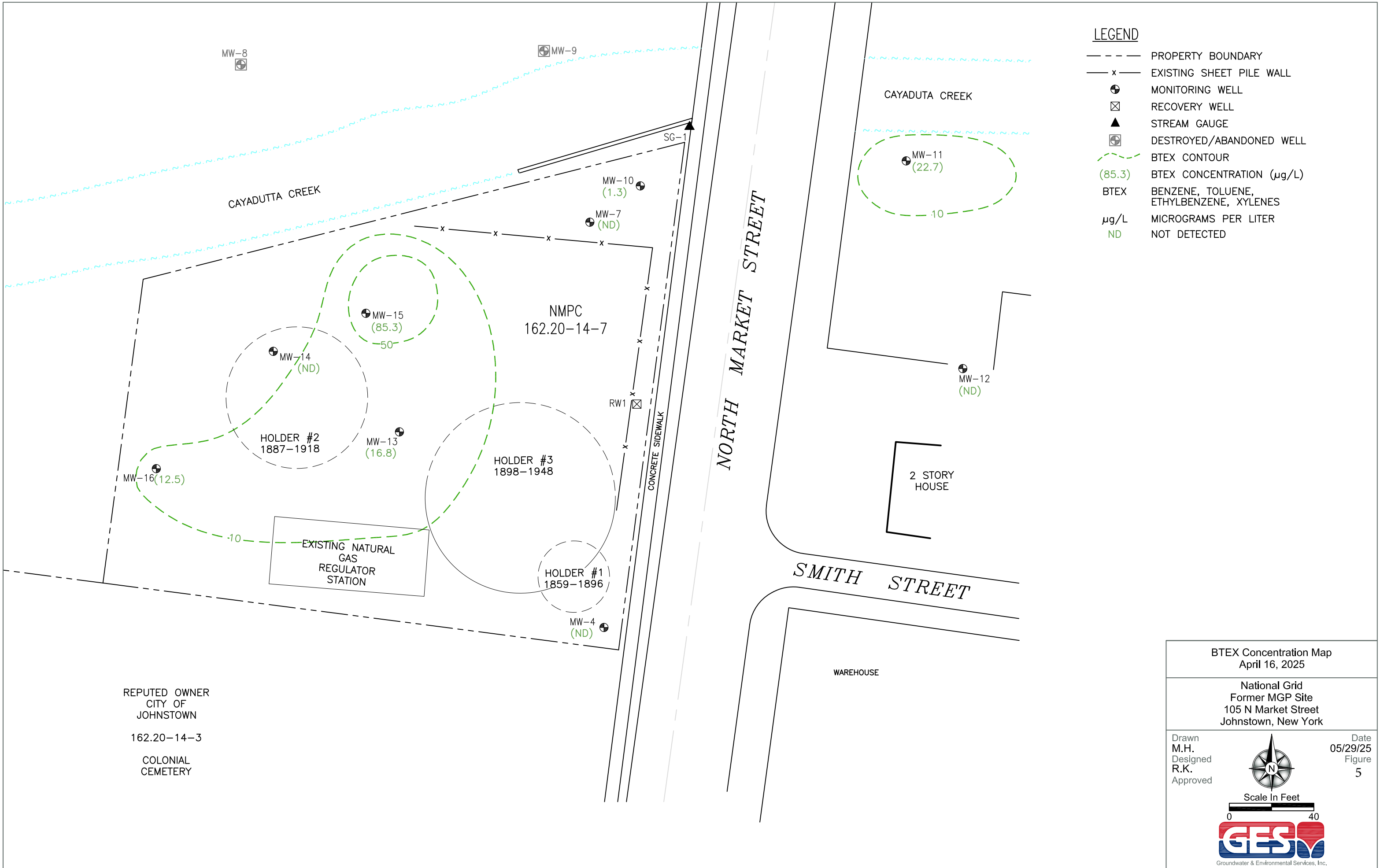


Scale In Feet  
0 40



Groundwater & Environmental Services, Inc.

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**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- ⊕ MONITORING WELL
- ⊗ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊕ DESTROYED/ABANDONED WELL
- - - BTEX CONTOUR
- (85.3) BTEX CONCENTRATION (μg/L)
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- μg/L MICROGRAMS PER LITER
- ND NOT DETECTED

BTEX Concentration Map  
April 16, 2025

National Grid  
Former MGP Site  
105 N Market Street  
Johnstown, New York

Drawn  
M.H.  
Designed  
R.K.  
Approved

Date  
05/29/25  
Figure  
5

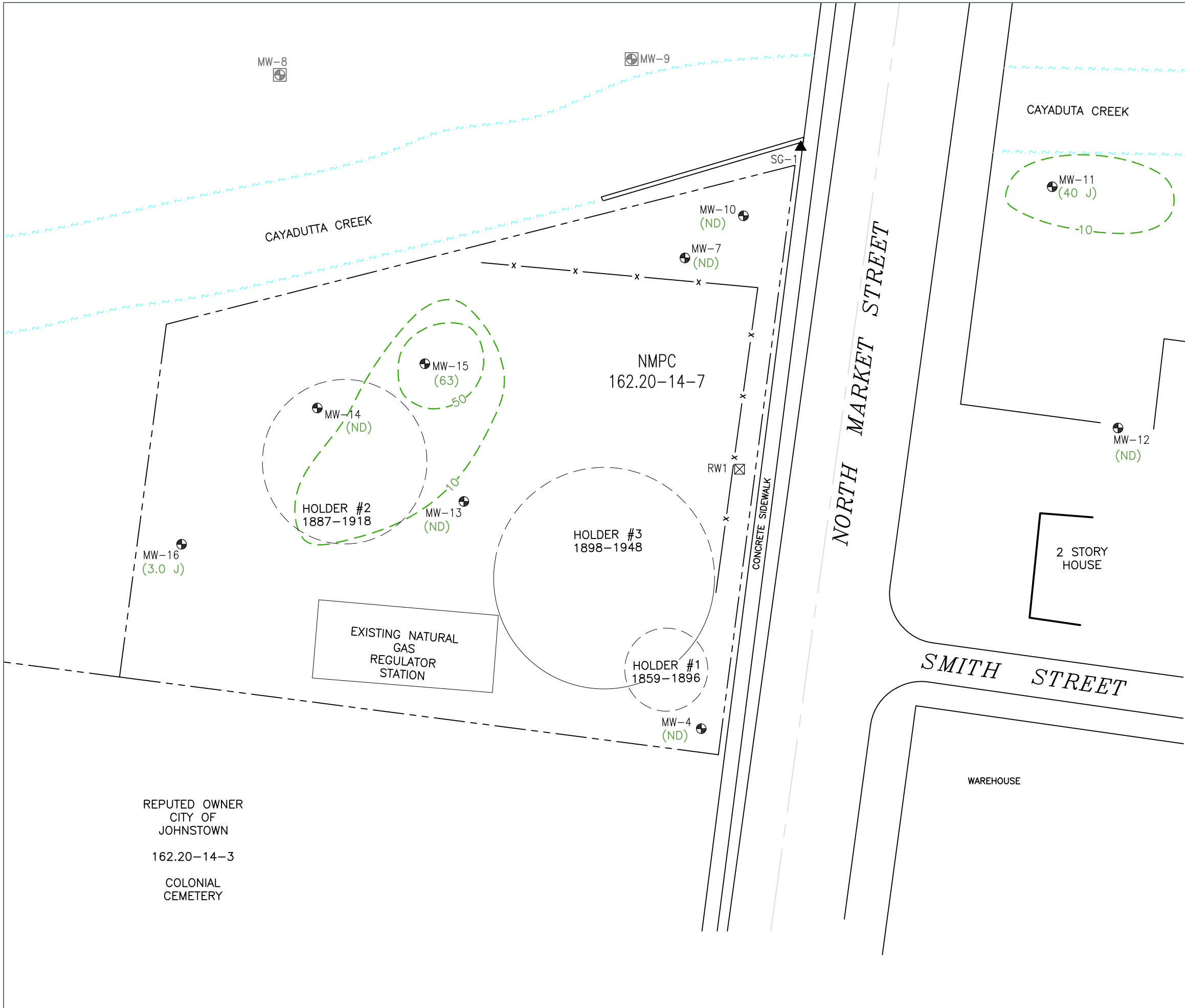


Scale In Feet



Groundwater & Environmental Services, Inc.

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**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- ⊕ MONITORING WELL
- ⊠ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊕ DESTROYED/ABANDONED WELL
- - - NAPHTHALENE CONTOUR
- (63) NAPHTHALENE CONCENTRATION (µg/L)
- µg/L MICROGRAMS PER LITER
- ND NOT DETECTED
- J ESTIMATED CONCENTRATION

REPUTED OWNER  
CITY OF  
JOHNSTOWN  
  
162.20-14-3  
  
COLONIAL  
CEMETERY

Naphthalene Concentration Map April 16, 2025	
National Grid Former MGP Site 105 N Market Street Johnstown, New York	
Drawn M.H. Designed R.K. Approved	Date 05/29/25 Figure 6
 Scale In Feet   <small>Groundwater &amp; Environmental Services, Inc.</small>	



## Tables

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**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	6/30/2010		9/29/2010		1/5/2011		4/8/2011		6/16/2011		10/13/2011		12/15/2011	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	23.10	653.44	23.41	653.13	22.95	653.59	22.50	654.04	22.04	654.50	21.41	655.13	22.78	653.76
MW-7	659.08	14.25	644.83	13.18	645.90	13.88	645.20	12.87	646.21	13.80	645.28	13.15	645.93	15.45	643.63
MW-10	657.59	14.80	642.79	14.60	642.99	14.75	642.84	14.09	643.50	14.77	642.82	14.11	643.48	14.22	643.37
MW-11	657.29	NM	NM	13.57	643.72	13.59	643.70	12.51	644.78	13.38	643.91	12.95	644.34	12.76	644.53
MW-12	660.08	NM	NM	NM	NM	15.06	645.02	NM	NM	NM	NM	13.61	646.47	14.54	645.54
MW-13	664.89	14.65	650.24	15.22	649.67	14.95	649.94	11.18	653.71	13.99	650.90	11.91	652.98	14.31	650.58
MW-14	663.91	13.50	650.41	14.46	649.45	14.28	649.63	12.86	651.05	13.65	650.26	13.26	650.65	13.65	650.26
MW-15	661.85	16.90	644.95	17.24	644.61	17.68	644.17	15.07	646.78	16.63	645.22	15.95	645.90	16.38	645.47
MW-16	665.57	9.70	655.87	10.19	655.38	12.33	653.24	11.00	654.57	10.50	655.07	9.79	655.78	9.91	655.66
RW-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GAUGE1	659.97	15.07	644.90	20.20	639.77	16.30	643.67	15.75	644.22	16.75	643.22	16.05	643.92	15.62	644.35

ft AMSL = Feet above mean sea level  
 ft TOC = Feet from top of inner casing  
 GW = Groundwater  
 NM = Not measured  
 NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	3/15/2012		10/9/2012		4/18/2013		10/7/2013		4/9/2014		10/13/2014		4/16/2015	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	22.81	653.73	NM	NM	23.97	652.57	23.12	653.42	23.28	653.26	23.28	653.26	22.91	653.63
MW-7	659.08	13.55	645.53	14.17	644.91	13.53	645.55	14.36	644.72	13.71	645.37	14.61	644.47	13.23	645.85
MW-10	657.59	14.18	643.41	15.05	642.54	14.27	643.32	14.44	643.15	14.13	643.46	14.98	642.61	14.15	643.44
MW-11	657.29	12.73	644.56	13.95	643.34	13.01	644.28	13.16	644.13	12.68	644.61	13.71	643.58	12.62	644.67
MW-12	660.08	14.26	645.82	16.36	643.72	14.06	646.02	14.99	645.09	14.41	645.67	15.65	644.43	14.25	645.83
MW-13	664.89	14.98	649.91	16.12	648.77	14.18	650.71	15.08	649.81	14.84	650.05	15.53	649.36	11.34	653.55
MW-14	663.91	15.49	648.42	16.98	646.93	13.14	650.77	14.74	649.17	15.70	648.21	15.02	648.89	13.06	650.85
MW-15	661.85	16.41	645.44	17.85	644.00	16.26	645.59	17.21	644.64	16.67	645.18	17.55	644.30	15.31	646.54
MW-16	665.57	11.56	654.01	10.51	655.06	9.98	655.59	9.85	655.72	9.45	656.12	10.24	655.33	10.48	655.09
RW-1	-	-	-	17.98	-	16.21	-	15.95	-	12.32	-	17.31	-	16.84	-
GAUGE1	659.97	15.69	644.28	NM	NM	19.10	640.87	18.85	641.12	18.85	641.12	20.01	639.96	18.91	641.06

ft AMSL = Feet above mean sea level  
 ft TOC = Feet from top of inner casing  
 GW = Groundwater  
 NM = Not measured  
 NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	10/13/2015		4/6/2016		10/25/2016		4/26/2017		10/11/2017		4/26/2018		10/17/2018	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	23.48	653.06	23.51	653.03	24.03	652.51	21.09	652.19	24.35	652.19	22.48	654.06	23.20	653.34
MW-7	659.08	14.61	644.47	14.19	644.89	15.00	644.08	13.62	645.46	14.83	644.25	12.85	646.23	14.40	644.68
MW-10	657.59	14.95	642.64	14.77	624.82	15.18	642.41	14.37	643.22	15.02	642.57	13.05	644.54	14.60	642.99
MW-11	657.29	-	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-12	660.08	15.62	644.46	14.95	645.13	15.82	644.26	13.55	646.53	15.62	644.46	14.00	646.08	15.10	644.98
MW-13	664.89	14.98	649.91	15.95	648.94	16.32	648.57	13.27	651.62	15.80	649.09	12.98	651.91	14.15	650.74
MW-14	663.91	13.63	650.28	16.81	647.1	16.8	647.11	13.71	650.20	15.88	648.03	13.71	650.20	13.88	650.03
MW-15	661.85	17.23	644.62	17.355	644.3	17.9	643.95	16.05	645.80	17.86	643.99	15.71	646.14	16.70	645.15
MW-16	665.57	9.61	655.96	10.79	654.78	11.11	654.46	9.02	656.55	10.43	655.14	9.52	656.05	9.88	655.69
RW-1	-	13.21	-	13.03	NRP	12.88	NRP	10.6	NRP	17.40	NRP	12.35	NRP	12.38	NRP
GAUGE1	659.97	19.91	640.06	19.76	640.21	18.40	641.57	15.70	644.27	15.46	644.51	14.55	645.42	15.70	644.27

ft AMSL = Feet above mean sea level  
 ft TOC = Feet from top of inner casing  
 GW = Groundwater  
 NM = Not measured  
 NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	4/18/2019		10/16/2019		5/20/2020		10/7/2020		4/14/2021		10/6/2021		4/13/2022	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	22.60	653.94	23.47	653.07	22.11	654.43	24.21	652.33	23.46	653.08	22.99	653.55	22.55	653.99
MW-7	659.08	13.85	645.23	14.73	644.35	15.15	643.93	15.02	644.06	14.31	644.77	13.99	645.09	13.38	645.70
MW-10	657.59	14.50	643.09	15.02	642.57	15.02	642.57	15.15	642.44	14.77	642.82	14.24	643.35	14.12	643.47
MW-11	657.29	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-12	660.08	14.40	645.68	15.54	644.54	14.62	645.46	15.85	644.23	15.29	644.79	14.81	645.27	13.68	646.40
MW-13	664.89	13.07	651.82	14.74	650.15	15.42	649.47	16.05	648.84	14.02	650.87	14.48	650.41	12.18	652.71
MW-14	663.91	13.80	650.11	13.8	650.11	14.23	649.68	16.15	647.76	13.95	649.96	14.21	649.70	13.76	650.15
MW-15	661.85	15.60	646.25	17.05	644.80	16.52	645.33	17.69	644.16	16.61	645.24	16.40	645.45	15.69	646.16
MW-16	665.57	10.39	655.18	9.78	655.79	9.81	655.76	10.93	654.64	9.94	655.63	9.81	655.76	8.84	656.73
RW-1	-	15.22	NRP	13.00	NRP	11.40	NRP	13.83	NRP	12.72	NRP	11.49	NRP	9.28	NRP
GAUGE1	659.97	15.50	644.47	16.28	643.69	16.05	643.92	16.38	643.59	16.73	643.24	16.02	643.95	15.60	644.37

ft AMSL = Feet above mean sea level  
ft TOC = Feet from top of inner casing  
GW = Groundwater  
NM = Not measured  
NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	10/6/2022		4/19/2023		10/11/2023		4/16/2024		10/17/2024		4/16/2025	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	24.00	652.54	22.02	654.52	24.62	651.92	21.74	654.80	24.14	652.40	22.80	653.74
MW-7	659.08	15.08	644.00	14.05	645.03	14.78	644.30	13.59	645.49	15.00	644.08	13.92	645.16
MW-10	658.59	14.99	642.60	14.79	642.80	14.91	642.68	14.23	643.36	15.07	642.52	14.42	644.17
MW-11	657.29	NM	-	NM	-	NM	-	12.41	644.88	13.45	643.84	13.08	644.21
MW-12	660.08	15.06	645.02	14.17	645.91	15.06	645.02	13.46	646.62	15.55	644.53	14.53	645.55
MW-13	664.89	15.63	649.26	13.34	651.55	15.52	649.37	12.25	652.64	16.33	648.56	13.41	651.48
MW-14	663.91	14.15	649.76	13.95	649.96	14.73	649.18	13.85	650.06	16.68	647.23	13.7	650.21
MW-15	661.85	16.67	645.18	16.90	644.95	17.36	644.49	15.78	646.07	17.82	644.03	16.19	645.66
MW-16	665.57	10.31	655.26	9.48	656.09	10.35	655.22	9.05	656.52	11.35	654.22	9.20	656.37
RW-1	-	16.30	NRP	10.43	NRP	15.28	NRP	9.42	NRP	17.47	NRP	10.03	NRP
GAUGE1	659.97	14.65	645.32	19.31	640.66	15.63	644.34	15.20	644.77	15.75	644.22	15.55	644.42

ft AMSL = Feet above mean sea level  
ft TOC = Feet from top of inner casing  
GW = Groundwater  
NM = Not measured  
NRP = No Reference Point  
MW-10 was resurveyed in January 2025. The initial elevation referenced point was 657.59 ft AMSL.



Table 3  
 Groundwater Analytical Data  
 MW-4

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/14/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25		
<b>BTEX Compounds</b>																												
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)
o-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
<b>PAHs</b>																												
Acenaphthene	µg/L	20	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.21	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Acenaphthylene	µg/L	NC	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Anthracene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(a)anthracene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(a)pyrene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(g,h,i)perylene	µg/L	NC	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Chrysene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Fluoranthene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Fluorene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Naphthalene	µg/L	10	3.2	3.2	2.2	2.2	2.2	ND (<0.51)	0.29	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	2.4	0.17	ND (<0.10)	ND (<0.099)	ND (<0.10)	0.46	0.24	0.17	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Phenanthrene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Pyrene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
<b>Cyanide and Lead</b>																												
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<10)	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)
Cyanide	mg/L	0.2	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-4

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	04/16/15	10/14/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>MNA/WQ Parameters</b>																										
Alkalinity (as CaCO <sub>3</sub> )	mg/L	442	398	400	394	412	394	414	392	418	424	424	452	410	360	390	388	500	406	NS	402	436	378	335	405	
Chloride	mg/L	411	304	329	295	365	304	421	377	ND (<300)	233	306	360	260	296	200	315	637	339	NS	425	266	240	192	147	
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<0.025)	ND (<0.025)	ND (<0.030)	0.037J	ND (<0.16)	ND (<1.0)	0.036 J	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.00)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	1.9 J	ND (<7.5)
Ethane	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	ND (<0.035)	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.00)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	1.9 J	ND (<7.0)
Ferrous Iron	mg/L	0.013	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.14	0.11	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.10	ND (<0.10)	ND (<0.10)	ND (<0.10)	NS	ND (<0.10)	ND (<0.10)	0.21	ND (<0.10)	ND (<0.10)	
Manganese	mg/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	0.019	0.0031	0.0053	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.0065	ND (<0.005)	0.0318	ND (<0.005)	0.0541	ND (<0.005)	0.0621	ND (<0.005)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.0030)	0.00040 J	0.0012 J
Methane	µg/L	ND (<4.0)	ND (<4.0)	ND (<4.0)	ND (<4.0)	ND (<4.0)	0.32J	0.47J	0.27J	0.29J	ND (<0.30)	ND (<2.5)	ND (<2.5)	ND (<1.00)	ND (<5.00)	ND (<5.00)	3.01 J	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<4.0)	1.2 J	ND (<4.0)		
Nitrate	mg/L	3.5	3.6	2.7	2.9	2.9	3.4	3.2	2.2	3.2	0.89	2.1	3.9	2.7	2.8	2.2	3.9	2.2	2.6	2.2	1.8	1.8	0.22	2.0	3.3	
Nitrogen	mg/L	0.31	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	0.23	ND (<0.20)	0.29
Sulfate	mg/L	74.7	70.7	50.8	60	60	73.9	60.8	23.0	56.7	50.0	ND (<50.0)	35.8	42.1	23.7	37.0	35.9	51.4	35.1	NS	20.1	38.1	25.8	35.9	28.7	
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



**Table 3**  
**Groundwater Analytical Data**  
 MW-7

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.3	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)
p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.3	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
<b>PAHs</b>																											
Acenaphthene	µg/L	20	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	0.10	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.13	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Acenaphthylene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	0.20	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.17	0.11	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Anthracene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Benz(a)anthracene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.12	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Benzo(a)pyrene	µg/L	0.000	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.11	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.16	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Benzo(g,h)perylene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Chrysene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.12	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Fluorene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.29	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Fluorene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Naphthalene	µg/L	10	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	5.2	ND (<0.49)	3.0	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.83	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Phenanthrene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.14	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
Pyrene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.26	ND (<0.096)	ND (<0.11)	ND (<0.096)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	7.1	7.1	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	5.6	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	12	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.4	0.16	0.13	0.18	0.18	0.18	0.15	0.18	0.16	0.14	0.17	0.129	0.17	ND (<0.010)	0.35	0.11	0.13	0.26	0.15	0.15	0.14	0.15	0.14	0.14	0.14

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-7

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	04/16/15	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	367	375	392	340	403	395	406	412	390	390	440	370	400	446	430	422	440	404	NS	394	406	426	375	416
Chloride	mg/L	84	79	62.8	67.7	66.7	66.2	79.4	68.9	64.6	63.6	69.4	63.9	50.9	58.1	56.5	62.6	53.4	83.3	NS	90.0	68.4	61.8	70.9	65.7
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.38J	0.86J	0.20J	0.32J	0.18J	0.13 J	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.00)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	1.9 J	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	0.090J	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.032)	2.6	3.2	2.5	2.1	4.3	2.9	0.66	2.3	0.93	NS	ND (<1.00)	ND (<7.0)
Ferrous Iron	mg/L	0.25	6.24	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.14	0.59	3.7	3.3	2.6	3.2	2.5	2.1	4.3	2.9	0.66	2.3	0.93	NS	3.6	5.7	0.81	2.6	0.3
Manganese	mg/L	1.1	0.564	0.49	0.49	0.46	0.53	0.43	0.478	0.476	0.476	0.459	0.487	0.395	0.513	0.420	0.440	0.400	0.307	0.379	0.389	0.401	0.47	0.35	0.44
Methane	µg/L	23	150	82	35	96	17	160	240	120	170	150	140	160	111	30.3	ND (<5.00)	88.2	67.2	NS	19.2	61.4	61	96	120
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.14	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<0.10)	ND (<0.20)	0.11	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.022 J	0.028 J	0.063
Nitrogen	mg/L	1.5	0.16	2	1.1	1.5	1.6	2.2	1.8	1.3	1.7	1.2	1.6	0.11	1.6	ND (<0.10)	1.7	1.7	1.4	1.6	1.4	1.5	1.6	4.3	1.8
Sulfate	mg/L	518	540	457	442	533	384	476	396	394	389	331	334	259	307	298	280	321	389	NS	257	281	281	243	261
Sulfide	mg/L	1.4	1.4	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present In Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-10

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25			
<b>BTEX Compounds</b>																													
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2.3	ND (<1.0)	ND (<1.0)	1.9	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	
o-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	
<b>PAHs</b>																													
Acenaphthene	µg/L	20	1.1	0.8	ND (<0.48)	0.63	ND (<0.50)	ND (<0.50)	1.4	0.72	1.6	0.53	1.7	1.4	1.8	0.52	1.9	2.0	1.6	1.5	2.2	1.9	2.2	1.9	2.2	2.6 J	3.0 J	2.1 J	
Acenaphthylene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	0.19	0.16	0.18	0.11	0.22	0.22	0.27	ND (<0.095)	0.43	0.38	0.27	0.24	0.29	0.26	0.29	ND (<0.099)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.099)	ND (<0.11)	
Anthracene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.14	0.14	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)
Benzo(a)anthracene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	0.11	ND (<0.099)	ND (<0.10)	ND (<0.11)	0.13	0.15	ND (<0.095)	0.63	0.61	0.16	0.20	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	
Benzo(a)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	0.10	ND (<0.099)	ND (<0.10)	ND (<0.11)	0.12	0.15	ND (<0.095)	0.56	0.67	0.16	0.16	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	0.17	ND (<0.099)	ND (<0.10)	ND (<0.11)	0.13	0.15	ND (<0.095)	0.65	0.69	0.23	0.24	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	
Benzo(g,h)perylene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.24	0.32	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	0.15	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.25	0.85	0.19	0.22	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)
Chrysene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	0.099	ND (<0.099)	ND (<0.10)	ND (<0.11)	0.12	0.15	ND (<0.095)	0.63	0.61	ND (<0.11)	0.17	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.11	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	
Fluoranthene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	0.10	0.16	ND (<0.099)	ND (<0.10)	ND (<0.11)	0.18	0.22	ND (<0.095)	0.78	0.78	0.18	0.24	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	
Fluorene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.21	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.23	0.30	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)
Naphthalene	µg/L	10	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	7.9	ND (<0.50)	0.23	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.49	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)
Phenanthrene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.18	0.20	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)
Pyrene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	0.15	0.20	ND (<0.099)	ND (<0.10)	0.13	0.22	0.27	ND (<0.095)	0.97	0.90	0.26	0.30	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.10)
<b>Cyanide and Lead</b>																													
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<5.0)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	6.0	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	24	ND (<10)	ND (<10)			
Cyanide	mg/L	0.2	0.11	0.081	0.10	0.098	0.010	0.085	0.081	0.13	0.10	0.12	0.079	0.114	0.093	0.097	0.10	0.060	0.066	0.097	0.078	0.12	0.072	0.13	0.098	0.110			

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (-#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-10

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	04/16/15	10/13/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	552	566	548	512	581	586	660	628	616	606	650	550	640	624	502	524	650	612	640	586	614	572	630	576
Chloride	mg/L	265	470	684	698	1060	893	784	390	427	419	709	440	566	314	472	945	768	816	751	970	823	406	600	459
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.16J	0.33J	0.20J	0.24J	0.42J	0.29 J	0.34 J	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	2.9 J	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	0.12J	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	2.0 J	ND (<7.0)
Ferrous Iron	mg/L	0.12	6.06	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.11	1.0	4.2	4.7	3.2	4.8	2.6	2.2	5.3	1.2	1.1	3.2	2.0	5.9	4.3	11.5	1.5	4.9	0.4
Manganese	mg/L	0.75	1.07	1.3	1.3	1.6	1.2	1.2	1.020	1.030	0.882	0.994	0.946	1.15	0.953	0.771	1.09	1.040	1.150	1.24	1.16	1.47	1.2	1.3	1.3
Methane	µg/L	28	110	130	63	82	56	420	300	330	470	680	460	1300	390	451	ND (<5.00)	780	594	NS	482	63.1	900	2,800	2,800
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.11	ND (<0.05)	0.12	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.20)	ND (<0.50)	ND (<0.10)	0.14	0.41	0.021 J	ND (<0.050)	ND (<0.050)
Nitrogen	mg/L	4.1	4.8	6.2	5.6	6.3	4	6.5	5.1	3.8	3.3	4.5	4	ND (<1.0)	2.5	1.0	4.0	4.7	3.8	3.5	3.9	4.5	3.5	3.0	4.1
Sulfate	mg/L	171	153	89.7	167	53.9	44.4	56.6	148	38.2	ND (<100)	23.0	59.4	20.9	55.2	23.9	7.8	9.7	12.3	4.6	12.4	5.0	ND (<5.0)	ND (<5.0)	3.4 J
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	3.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-11

CONSTITUENT	UNITS	NYSDEC AWQS Values	09/29/10	01/04/11	04/06/11	06/14/11	10/11/11	12/13/11	03/14/12	10/09/12	04/18/13	10/08/13	04/09/14	10/20/14	04/16/15	10/14/15 to 10/11/23*	04/16/24	10/17/24	04/16/25
<b>BTEX Compounds</b>																			
Benzene	µg/L	1	27	16	2.8	13	18	15	7.9	12	3.5	8.1	10	22	7.3	NS	16	18	12
Ethylbenzene	µg/L	5	7.3	7.2	1.9	6.9	6.1	5.5	3.5	ND (<1.0)	1.2	7.8	5.1	7.8	3	NS	6.4	6.3	6.3
m,p-Xylene	µg/L	5	3	3.9	2.2	5.3	2.4	2.1	1.4J	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	2.1	ND (<2.0)	NS	1.3J	ND (<4.0)	1.3J
o-Xylene	µg/L	5	2.6	2.7	1.1	3.1	2.0	2.0	1.2	ND (<1.0)	ND (<1.0)	1.6	2.1	2.6	1.5	NS	1.7	1.6J	1.9
Toluene	µg/L	5	1.3	1.3	ND (<1.0)	1.4	0.97J	0.99J	0.69J	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.1	1.9	ND (<1.0)	NS	1.3	1.4J	1.2
<b>PAHs</b>																			
Acenaphthene	µg/L	20	150 D	140 D	150	110	120	130	100	140 E	97	110	120	110	59	NS	210	280	140
Acenaphthylene	µg/L	NC	290J D	330 D	290	290	240 D	270 D	210	160 E	120	170	110	150	56	NS	130	160	79
Anthracene	µg/L	50	21	18	88	19 B	19	17	11	23	13	28	13	16	4.2	NS	11 J	17	8.4 J
Benzo(a)anthracene	µg/L	0.002	2.2J	2.2	35	6.2 B	2.7	3.0 B	5.2 B	3.8	ND (<0.002)	8.3	3.2	4.8	1.9	NS	ND (<25)	0.79 J	0.63 J
Benzo(a)pyrene	µg/L	0.002	1.7	2.2	34	5.7 B	2.8	2.5 B	2.3J	2.7	3.3	8.8	2.8	4.7	0.84	NS	ND (<25)	ND (<5.0)	ND (<5.0)
Benzo(b)fluoranthene	µg/L	0.002	0.65J	0.92J	24	4.8 B	1.8	2.1	1.8J	1.7	ND (<0.002)	ND (<0.002)	ND (<0.002)	4.6	0.86	NS	ND (<25)	0.38 J	ND (<5.0)
Benzo(g,h)perylene	µg/L	NC	0.90J	1.2J	20	4.0 B	1.4	1.7	1.3J	1	1	3.4	ND (<0.002)	1.8	ND (<0.002)	NS	ND (<25)	ND (<5.0)	ND (<5.0)
Benzo(k)fluoranthene	µg/L	0.002	0.90J	1.1J	12	2.5 B	1	0.78	1.2J	1.6	ND (<0.002)	ND (<0.002)	ND (<0.002)	2.1	ND (<0.002)	NS	ND (<25)	ND (<5.0)	ND (<5.0)
Chrysene	µg/L	0.002	2.8	2.9	43	8.1 B	3.3	3.5 B	ND (<5.1)	3.4	4.4	10	5.4	7.6	0.99	NS	1.7 J	1.2 J	1.1 J
Dibenz(a,h)anthracene	µg/L	NC	ND (<1.0)	ND (<2.1)	3.2	ND (<2.4)	0.30J	0.59	ND (<5.1)	ND (<5.1)	ND (<5.1)	ND (<5.1)	ND (<5.1)	ND (<4.7)	ND (<4.7)	NS	ND (<25)	ND (<5.0)	ND (<5.0)
Fluoranthene	µg/L	50	18	14	96	22 B	20	16	12	24	14	28	12	16	5.4	NS	13 J	17 J	9.4
Fluorene	µg/L	50	110 D	100 D	130	72	79	83	62	92	62	70	31	44	16	NS	69	110	44 J
Indeno(1,2,3-cd)pyrene	µg/L	0.002	0.65J	2.10	13	2.8 B	0.86	1.8 B	0.69J	1.6	ND (<0.002)	ND (<0.002)	ND (<0.002)	1.2	ND (<0.002)	NS	ND (<25)	ND (<5.0)	ND (<5.0)
Naphthalene	µg/L	10	190 D	590 D	300	489	310 D	330 D	140	110	50	87	ND (<10)	91	2.3	NS	120	65	40 J
Phenanthrene	µg/L	50	160 D	150 D	260	52 B	140 D	130	91	170	80	130	5.8	62	1.5	NS	82	180	44 J
Pyrene	µg/L	50	26J	17	150	28 B	21	21	16	28	18	34	17	20	4.2	NS	15 J	20	11 J
<b>Cyanide and Lead</b>																			
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	40	7.6	12	ND (<5.0)	4.6J	ND (<5.0)	ND (<5.0)	5.9	ND (<5.0)	0.014	ND (<5.0)	NS	46	3.3 J	ND (<10)
Cyanide	mg/L	0.2	0.024	0.027	R	0.015J	0.021	ND (<0.01)	0.012	ND (<0.010)	ND (<0.010)	ND (<0.010)	0.018	0.021	0.012	NS	0.020	0.021	0.013

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 ND = No Criteria  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS

\* = Monitoring well is inaccessible due to debris and was not sampled during this time period



Table 3  
 Groundwater Analytical Data  
 MW-11

CONSTITUENT	UNITS	03/14/12	10/09/12	04/18/13	10/08/13	04/09/14	10/15/14	04/16/15	10/14/15 to 10/11/23*	04/16/24	10/17/24	04/16/25
<b>MNA/WQ Parameters</b>												
Alkalinity (as CaCO <sub>3</sub> )	mg/L	R	623	507	573	465	457	428	NS	461	475	431
Chloride	mg/L	321	350	202	295	454	364	314	NS	618	647	463
Ethane	µg/L	ND (<15)	ND (<380)	ND (<380)	ND (<380)	ND (<380)	ND (<7.5)	ND (<7.5)	NS	ND (<170)	44 J	ND (<7.5)
Ethene	µg/L	ND (<15)	ND (<350)	ND (<350)	ND (<350)	ND (<350)	ND (<7.0)	ND (<7.0)	NS	ND (<150)	39 J	2.6 J
Ferrous Iron	mg/L	ND (<0.1)	0.5	0.18	0.22	0.29	ND (<0.1)	ND (<0.1)	NS	0.76	ND (<0.10)	0.85
Manganese	mg/L	0.47	0.95	0.95	0.55	0.56	0.56	0.25	NS	0.74	0.66	0.41
Methane	µg/L	160	520	12	25	120	180	13	NS	640.00	780	420
Nitrate	mg/L	0.092	ND (<0.050)	0.79	0.32	0.32	0.059	0.28	NS	ND (<0.050)	0.020 J	0.038 J
Nitrogen	mg/L	1.3	1.7	0.58	0.64	0.57	1.2	0.26	NS	1.5	1.2	0.71
Sulfate	mg/L	8.5 B	16.9	112	94.1	58	44.3	82.9	NS	14.9	17.9	38.2
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.8	ND (<1.0)	NS	1.2	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality  
 \* = Monitoring well is inaccessible due to debris and was not sampled during this time period



Table 3  
 Groundwater Analytical Data  
 MW-12

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)
p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
<b>PAHs</b>																											
Acenaphthene	µg/L	20	1.1	1.1	ND (<0.48)	ND (<0.48)	ND (<0.47)	ND (<0.51)	0.11	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	ND (<0.096)	0.11	ND (<0.098)	ND (<0.10)	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Acenaphthylene	µg/L	NC	ND (<0.2)	ND (<0.2)	0.63	ND (<0.2)	ND (<0.47)	ND (<0.51)	4.4	ND (<0.097)	0.30	0.38	0.62	ND (<0.11)	1.0	0.1	0.61	0.41	0.14	0.21	2.5	0.27	0.40	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Anthracene	µg/L	50	1.1	1.1	0.88	ND (<0.2)	0.73	ND (<0.51)	1.4	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.099	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	1.4	1.5	0.31	0.22	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Benzo(a)anthracene	µg/L	0.002	3	0.66	1.5	ND (<0.49)	ND (<0.47)	ND (<0.51)	2.1	0.11	0.14	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.24	0.34	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.49	5.4	0.77	0.67	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Benzo(a)pyrene	µg/L	0.002	3.6	0.92	1.8	ND (<0.49)	ND (<0.47)	ND (<0.51)	2.8	0.11	0.16	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.2	0.41	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.46	6.7	0.97	0.87	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Benzo(b)fluoranthene	µg/L	0.002	3.4	0.74	2.1	ND (<0.49)	ND (<0.47)	ND (<0.51)	2.3	0.13	0.18	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.24	0.34	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.49	6.8	0.85	0.8	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Benzo(g,h,i)perylene	µg/L	NC	ND (<0.49)	0.51	0.74	ND (<0.49)	ND (<0.47)	ND (<0.51)	1.6	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.15	0.21	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.27	3.8	0.41	0.41	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Benzo(k)fluoranthene	µg/L	0.002	0.83	ND (<0.49)	0.74	ND (<0.49)	ND (<0.47)	ND (<0.51)	0.94	0.11	0.16	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.45	6.0	0.74	0.65	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Chrysene	µg/L	0.002	3	ND (<0.49)	1.6	ND (<0.49)	ND (<0.47)	ND (<0.51)	1.9	ND (<0.097)	0.11	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.19	0.22	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.72	3.9	0.90	0.81	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.52)	ND (<0.52)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<0.51)	0.29	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	ND (<0.099)	0.92	ND (<0.098)	ND (<0.10)	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Fluoranthene	µg/L	50	4.3	0.87	2.00	ND (<0.49)	ND (<0.47)	0.52	3.9	0.11	0.17	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.33	0.43	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.72	6.8	0.87	0.73	ND (<5.0)	24.4	ND (<5.0)	ND (<5.0)
Fluorene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<0.51)	0.51	ND (<0.097)	ND (<0.10)	ND (<0.099)	0.13	ND (<0.11)	ND (<0.097)	ND (<0.11)	0.12	ND (<0.096)	ND (<0.11)	ND (<0.099)	0.21	ND (<0.098)	ND (<0.10)	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Indeno(1,2,3-cd)pyrene	µg/L	0.002	0.2	ND (<0.49)	0.91	ND (<0.49)	ND (<0.47)	ND (<0.51)	1.2	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.16	0.17	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.30	3.9	0.34	0.34	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Naphthalene	µg/L	10	0.99	ND (<0.52)	1.6	ND (<0.49)	1.9	ND (<0.51)	0.96	ND (<0.097)	0.15	ND (<0.099)	ND (<0.11)	ND (<0.11)	1.9	ND (<0.11)	0.97	ND (<0.096)	ND (<0.11)	ND (<0.099)	0.15	ND (<0.098)	0.71	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Phenanthrene	µg/L	50	3.6	0.81	2	ND (<0.49)	ND (<0.47)	ND (<0.51)	3.5	ND (<0.097)	0.14	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.23	0.34	0.14	ND (<0.096)	ND (<0.11)	0.62	4.7	0.64	0.57	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)
Pyrene	µg/L	50	5.8	1.3	2.8	ND (<0.49)	ND (<0.47)	0.64	5.4	0.17	0.24	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.49	0.61	ND (<0.097)	ND (<0.096)	ND (<0.11)	1.0	9.6	1.3	1.1	ND (<5.0)	25.5	ND (<5.0)	ND (<5.0)
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	29	ND (<5.0)	0.018	ND (<0.49)	ND (<1.0)	ND (<1.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<0.02)	ND (<0.10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Cyanide	mg/L	0.2	ND (<0.010)	ND (<0.010)	0.013	ND (<0.49)	ND (<0.01)	ND (<0.01)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	0.0060 J	0.0060 J	0.0062 J	0.0062 J

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-12

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	04/16/15	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	415	329	414	368	401	415	436	466	368	456	430	416	400	380	360	430	512	356	NS	418	392	426	361	376
Chloride	mg/L	662	150	493	139	591	276	556	152	587	345	757	334	490	267	633	391	879	141	NS	805	1,250	467	1,180	673
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.47J	ND (<0.025)	ND (<0.030)	ND (<0.030)	ND (<0.16)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<5.0)	ND (<5.0)	ND (<2.0)	ND (<1.0)	NS	ND (<1.0)	ND (<1.0)	ND (<7.5)	1.9 J	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	ND (<0.035)	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<5.0)	ND (<5.0)	ND (<2.0)	ND (<1.0)	NS	ND (<1.0)	ND (<1.0)	ND (<7.0)	1.9 J	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.11	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	NS	ND (<0.10)	ND (<0.10)	0.082 J	0.12	ND (<0.10)
Manganese	mg/L	2.1	0.36	1.2	0.16	0.039	0.062	0.202	0.020	0.039	0.0113	0.0192	0.0153	0.0636	0.0386	0.0074	ND (<0.005)	ND (<0.015)	0.0157	0.272	0.0395	0.0385	0.013	0.12	0.028
Methane	µg/L	ND (<1.0)	ND (<1.0)	ND (<4.0)	ND (<4.0)	ND (<4.0)	ND (<4.0)	1.95	0.24J	0.27J	1.0J	0.35J	ND (<2.5)	ND (<0.10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<2.0)	ND (<1.0)	NS	ND (<1.0)	ND (<1.0)	ND (<4.0)	2.1 J	ND (<4.0)
Nitrate	mg/L	4.8	1.4	3.7	1.4	2.5	3.3	2.9	3.6	5.1	0.84	5.6	4.3	ND (<0.10)	5.9	2.5	3	4.4	2.7	3.2	5.3	5.2	0.49	4.6	3.5
Nitrogen	mg/L	2.4	0.44	0.61	0.61	ND (<0.2)	ND (<0.2)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	5.1	ND (<1.0)	3.9	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.20)	2.1	0.55
Sulfate	mg/L	115	51.6	73.5	54.8	70.2	93.7	56.0	115	53.7	70.3	66.8	53.9	55.1	77.2	48.3	85.9	64.1	39.9	NS	101	54	109	46.1	77.6
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.6	ND (<1.0)	ND (<1.0)	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

- B = Present In Associated Blank Sample
- D = Diluted Sample
- J = Estimated Concentration
- mg/L = Milligrams per Liter
- MNA = Monitored Natural Attenuation
- NA = Not Analyzed
- ND (<#) = Not detected above laboratory reporting limit (indicated by #)
- NS = Not Sampled
- R = Rejected
- µg/L = Micrograms per Liter
- WQ = Water Quality



Table 3

Groundwater Analytical Data  
 MW-13

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	400	200	300	17	360	300	348	15.5	363	11.6	32.8	16.9	328	126	268	11.7	187	7.1	113	5.9	171	5.2	130	5.5	
Ethylbenzene	µg/L	5	320	200	340	17	190	270	366	7.4	210	4.8	23.3	12.4	230	85.6	193	4.5	164	5.1	104	1.5	148	2.1	130	2.6	
m,p-Xylene	µg/L	5	420	250	480	24	270	360	467	12.1	257	8.6	34.8	16.6	229	89.5	179	6.7	152	5.0	96.2	2.7	122	4.8	98	3.6	
o-Xylene	µg/L	5	190	120	210	16	120	150	203	8.4	117	9.3	18.6	9.7	112	46.6	90.7	5.5	74.2	4.0	53.6	3.6	60.4	3.0	51	3.7	
Toluene	µg/L	5	440	270	430	17	320	410	552	7.6	332	3.9	25.1	11.1	288	95.7	279	5.8	158	3.9	84.2	1.3	133	1.6	120	1.4	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	77	71	130	ND (<4.9)	65 E	130	225	0.34	78.4	0.16	4.3	6.5	141	4.6	124	0.35	166	5.6	143	ND (<0.096)	245	0.60 J	180 J	0.52 J	
Acenaphthylene	µg/L	NC	350	22	450	ND (<4.9)	77 E	220	287	1.2	122	0.61	8.4	6.7	57.0	0.78	43.4	0.89	10.5	1.4	68.4	0.14	21.5	ND (<5.0)	ND (<250)	0.52 J	
Anthracene	µg/L	50	ND (<47)	6.9	14	ND (<4.9)	9.2 F1 F2	10	19.2	0.55	7.2	0.25	0.73	0.82	7.3	0.15	5.1	0.33	6.1	0.15	6.7	ND (<0.096)	6.5	0.35 J	ND (<250)	0.30 J	
Benzo(a)anthracene	µg/L	0.002	ND (<47)	ND (<47)	1.9	ND (<0.001)	0.59 F2	ND (<9.7)	6.7	0.93	1.7	0.30	0.22	0.14	0.79	0.18	0.51	0.38	0.98	ND (<0.098)	0.98	ND (<0.096)	0.56	ND (<5.0)	ND (<250)	0.40 J	
Benzo(a)pyrene	µg/L	0.002	ND (<47)	ND (<47)	1.8	ND (<0.001)	ND (<0.49)	ND (<9.7)	6.5	1.0	1.3	0.40	0.20	ND (<0.10)	0.58	0.20	0.31	0.82	0.87	ND (<0.098)	1.1	0.11	0.31	ND (<5.0)	ND (<250)	0.62 J	
Benzo(b)fluoranthene	µg/L	0.002	ND (<47)	ND (<47)	2.8	ND (<0.001)	ND (<0.49)	ND (<9.7)	6.2	1.2	1.6	0.47	0.22	0.12	0.49	0.17	0.27	0.63	0.97	ND (<0.098)	1.2	0.10	0.33	ND (<5.0)	ND (<250)	0.54 J	
Benzo(g,h)perylene	µg/L	NC	ND (<47)	ND (<47)	0.6	ND (<0.001)	ND (<0.49)	ND (<9.7)	3.3	0.55	ND (<0.98)	0.21	ND (<0.099)	ND (<0.10)	0.23	ND (<0.10)	0.13	0.45	0.42	ND (<0.098)	0.59	ND (<0.096)	0.11	ND (<5.0)	ND (<250)	0.40 J	
Benzo(k)fluoranthene	µg/L	0.002	ND (<47)	ND (<47)	0.53	ND (<0.001)	ND (<0.49)	ND (<9.7)	2.5	1.1	1.3	0.35	0.20	0.11	0.21	ND (<0.10)	0.11	0.79	0.84	ND (<0.098)	1.1	ND (<0.096)	0.27	ND (<5.0)	ND (<250)	ND (<5.0)	
Chrysene	µg/L	0.002	ND (<47)	ND (<47)	1.8	ND (<0.001)	0.59 F1 F2	ND (<9.7)	6.1	0.81	1.3	0.22	0.20	ND (<0.10)	0.64	0.13	0.38	0.34	0.62	ND (<0.098)	0.75	ND (<0.096)	0.34	ND (<5.0)	ND (<250)	0.38 J	
Dibenz(a,h)anthracene	µg/L	NC	ND (<47)	ND (<47)	ND (<0.47)	ND (<0.001)	ND (<0.49)	ND (<9.7)	0.95	0.13	ND (<0.98)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.098)	0.11	ND (<0.11)	ND (<0.098)	0.16	ND (<0.096)	0.16	ND (<0.096)	ND (<0.099)	ND (<5.0)	ND (<250)	ND (<5.0)	
Fluoranthene	µg/L	50	ND (<47)	6.1	8.2	ND (<4.9)	5.5 F2	ND (<9.7)	17.8	1.9	5.4	0.51	0.77	0.68	4.6	1.3	4.0	0.58	4.4	0.27	5.4	ND (<0.096)	4.7	ND (<5.0)	ND (<250)	0.67 J	
Fluorene	µg/L	50	68	30	94 J	ND (<4.9)	43 F1 F2	65	74.8	0.45	37.9	0.19	2.6	3.7	45.7	0.16	33.2	0.27	42.5	0.89	44.5	ND (<0.096)	50.8	ND (<5.0)	50 J	ND (<5.0)	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<47)	ND (<47)	0.48	ND (<0.001)	ND (<0.49)	ND (<9.7)	2.7	0.42	ND (<0.98)	0.17	ND (<0.099)	ND (<0.10)	0.19	ND (<0.10)	0.11	0.34	0.34	ND (<0.098)	0.49	ND (<0.096)	0.10	ND (<5.0)	ND (<250)	ND (<5.0)	
Naphthalene	µg/L	10	3700	ND (<10)	4200	ND (<4.9)	350 E	170	5560	0.96	1880	0.45	0.31	0.14	3700	0.19	2190	0.76	1.6	0.16	596	ND (<0.096)	521	ND (<5.0)	1700	ND (<5.0)	
Phenanthrene	µg/L	50	61	ND (<50)	70	ND (<4.9)	31 F1	ND (<9.7)	78.3	1.5	32.8	0.60	0.37	2.40	39.8	0.14	31	0.76	24.0	ND (<0.098)	17.2	ND (<0.096)	39.7	ND (<5.0)	36 J	0.87 J	
Pyrene	µg/L	50	ND (<47)	7.2	9.7	ND (<4.9)	5.8 F2	ND (<9.7)	ND (<52.1)	1.7	6.0	0.54	0.78	0.63	4.8	0.86	4.1	0.71	4.6	0.13	5.6	ND (<0.096)	4.7	ND (<5.0)	ND (<250)	0.81 J	
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<4.9)	ND (<10)	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<10.0)	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.26	0.17	0.24	0.11	0.22 F1	0.23	0.23	0.070	0.20	0.062	0.10	0.09	0.16	0.11	0.16	0.050	0.095	0.096	0.096	0.14	0.046	0.100	0.060	0.10	0.045

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
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 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-13

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25
<b>MNA/WQ Parameters</b>																								
Acidity (as CaCO <sub>3</sub> )	mg/L	107	176	255	283 F1	311	364	234	308	226	280	230	380	268	320	232	350	304	350	297	336	264	412	276
Chloride	mg/L	7.3	9.2	17.3	11.2	9.8	11.4	3.4	7.6	92.7	31.6	8.4	19.5	9.3	6.9	11.8	8.4	ND (<3.0)	6.7	15.8	8.3	4.6	12.6	2.1
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	1.2	ND (<0.025)	0.88J	ND (<0.030)	0.22J	0.11 J	0.74 J	ND (<1.00)	ND (<5.0)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	40 J	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.5)	3.3	ND (<0.035)	2.3	ND (<0.10)	0.46J	0.19 J	2.1	ND (<1.00)	2.34 J	ND (<5.00)	1.26 J	ND (<1.00)	NS	ND (<1.00)	1.02	ND (<7.0)	43 J	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<1.0)	0.16	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.15	ND (<0.10)	ND (<0.10)	0.13	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.11	0.061 J	0.19	ND (<0.10)
Manganese	mg/L	0.088	0.14	0.031	0.064	ND (<7.5)	0.0938	0.0417	0.0705	0.0570	0.0619	0.0298	0.0710	0.0446	0.0709	0.0601	0.0859	0.034	0.062	0.0202	0.0822	0.013	0.072	0.029
Methane	µg/L	15	74	ND (<4.0)	110	50	280	0.34J	190	12	73	41	250	84.7	218	ND (<5.00)	111	25.5	NS	10.9	169	32	300	70
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.05	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<0.50)	ND (<1.0)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.025 J	ND (<0.050)	ND (<0.050)
Nitrogen	mg/L	1.2	2.1	0.62	14	1.2	1.3	ND (<1.0)	2.1	ND (<1.0)	4.5	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	2.3	ND (<1.0)	ND (<100)	ND (<1.0)	ND (<1.0)	1.1	0.25	0.40	0.40
Sulfate	mg/L	15.5	15.5	ND (<5.0)	ND (<5.0)	ND (<5.0)	18.3	16.0	42.3	20.4	28.6	26.1	23.4	10.8	17.3	32.1	8.6	25.1	8.4	13.4	3.4	174.0	ND (<5.0)	15.3
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.6	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-14

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	1.3	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<1.0)	
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<1.0)	
m,p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<4.0)	ND (<2.0)	
o-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<1.0)	
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<1.0)	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	2.2	0.5	2.00	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.19	ND (<0.096)	1.7	ND (<0.099)	ND (<0.099)	ND (<0.10)	0.18	0.8	0.2	ND (<0.10)	0.20	ND (<0.10)	0.23	ND (<0.099)	ND (<0.099)	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Acenaphthylene	µg/L	NC	2.5	ND (<0.48)	2.9	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.99	0.25	4.1	0.19	0.34	0.26	0.71	8.4	1.2	0.38	1.6	0.21	0.49	0.37	0.29	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Anthracene	µg/L	50	ND (<0.48)	ND (<0.48)	0.5	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.25	0.096	0.29	ND (<0.099)	0.15	0.11	0.11	3.5	0.6	0.16	0.62	ND (<0.10)	0.19	0.14	0.16	ND (<5.0)	0.30 J	ND (<5.4)	
Benzo(a)anthracene	µg/L	0.002	0.62	1	1.9	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.28	0.13	0.26	0.11	ND (<0.099)	ND (<0.10)	ND (<0.096)	19.8	2.1	0.51	3.5	ND (<0.10)	ND (<0.10)	0.63	0.13	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Benzo(a)pyrene	µg/L	0.002	0.65	1.3	2.4	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.32	0.12	0.29	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	24.8	2.8	0.66	3.9	ND (<0.10)	ND (<0.10)	0.72	0.15	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Benzo(b)fluoranthene	µg/L	0.002	0.79	1.2	3.8	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.55	0.21	0.47	0.14	ND (<0.099)	0.7	ND (<0.096)	26.1	2.8	0.67	4.4	ND (<0.10)	ND (<0.10)	0.91	0.19	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Benzo(g,h)perylene	µg/L	NC	ND (<0.48)	0.95	1.3	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.29	0.11	0.24	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	17.5	1.9	0.54	2.7	ND (<0.10)	ND (<0.10)	0.44	0.11	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.48)	0.83	1.1	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.47	0.18	0.40	0.11	ND (<0.099)	0.14	ND (<0.096)	8.5	1.0	0.84	4.7	ND (<0.10)	ND (<0.10)	0.80	0.16	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Chrysene	µg/L	0.002	0.89	1.2	2.1	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.27	0.13	0.24	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	17.0	1.9	0.81	2.7	ND (<0.10)	ND (<0.10)	0.45	ND (<0.099)	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.48)	ND (<0.49)	ND (<0.49)	ND (<0.47)	ND (<0.52)	ND (<0.54)	ND (<0.10)	ND (<0.096)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.096)	4.5	0.4	0.13	0.59	ND (<0.10)	ND (<0.10)	ND (<0.099)	ND (<0.099)	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Fluoranthene	µg/L	50	1.2	1.5	3.2	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.45	0.17	0.55	0.13	ND (<0.099)	0.14	0.098	29.0	3.0	0.71	4.5	ND (<0.10)	ND (<0.10)	0.77	0.18	ND (<5.0)	0.46 J	ND (<5.4)	
Fluorene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.14	ND (<0.096)	0.21	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	1.3	0.2	ND (<0.10)	0.26	ND (<0.10)	0.14	ND (<0.099)	ND (<0.099)	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.48)	0.83	0.95	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.21	ND (<0.096)	0.16	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	14.4	1.6	0.40	2.2	ND (<0.10)	ND (<0.10)	0.36	ND (<0.099)	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Naphthalene	µg/L	10	0.48	ND (<0.48)	1.1	ND (<0.47)	ND (<0.52)	ND (<0.54)	5.2	ND (<0.096)	4.2	ND (<0.099)	ND (<0.099)	ND (<0.10)	0.72	0.86	1.10	ND (<0.10)	0.18	ND (<0.10)	ND (<0.099)	1.4	ND (<5.0)	ND (<5.2)	ND (<5.4)		
Phenanthrene	µg/L	50	0.67	0.83	1.4	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.22	ND (<0.096)	0.17	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	9.8	1.0	0.25	1.5	ND (<0.10)	ND (<0.10)	0.22	ND (<0.099)	ND (<5.0)	ND (<5.2)	ND (<5.4)	
Pyrene	µg/L	50	1.5	2.4	5.0	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.68	0.28	0.74	0.20	ND (<0.099)	0.22	0.12	47.0	5.0	1.2	7.3	ND (<0.10)	ND (<0.10)	1.2	0.27	0.52 J	0.44 J	ND (<5.4)	
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	15	ND (<5.0)	0.031	ND (<0.01)	ND (<0.01)	ND (<1.0)	33.3	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	256	50.2	7.5	90.9	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	150	9.9	4.7	
Cyanide	mg/L	0.2	0.2	0.9	0.2	0.091	0.120	0.88	0.67	0.079	0.25	0.062	0.11	0.0838	0.11	0.12	0.42	0.057	0.072	0.14	0.13	0.076	0.10	0.070	0.41	0.077	

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-14

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	10/13/14	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25
<b>MNA/WQ Parameters</b>																								
Alkalinity (as CaCO <sub>3</sub> )	mg/L	456	483	372	445	507	520	380	404	392	450	384	380	342	400	364	392	392	NS	310	384	328	415	328
Chloride	mg/L	7.6	28.5	3.9	10.7	27.4	18.0	3.5	6.6	ND (<3.0)	3.2	3.5	ND (<3.0)	ND (<3.0)	6.7	3.9	4.5	ND (<3.0)	NS	3.4	5.2	2.8	25.4	4.6
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.174	ND (<0.025)	0.134	ND (<0.030)	ND (<0.16)	ND (<1.0)	ND (<1.0)	1.57	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	2.4 J	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	ND (<0.035)	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	1.8 J	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.11	0.55	0.22	0.93	0.47	0.30	0.39	0.12	1.90	2.1	0.44	1.4	0.38	NS	0.177	1.4	0.97	2.8	0.16
Manganese	mg/L	0.25	1	0.019	0.011	ND (<7.5)	0.768	0.0262	0.416	0.201	0.0121	0.0208	0.051	3.79	0.940	0.268	4.29	0.203	0.0845	1.0	0.116	0.57	0.96	0.29
Methane	µg/L	8.6	140	ND (<4.0)	ND (<4.0)	31	140	19	120	1.73	1.43	ND (<2.5)	19	1,020	ND (<5.00)	6.54	4.01 J	6.99	NS	7.40	13.3	5.6	400	4.0
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	0.87	0.16	ND (<0.05)	ND (<0.10)	0.29	ND (<0.10)	ND (<0.10)	0.59	0.4	ND (<1.0)	ND (<1.0)	ND (<0.50)	0.6	0.28	0.21	ND (<0.10)	0.36	0.21	0.033 J	ND (<0.050)	0.36
Nitrogen	mg/L	0.68	1.5	0.22	0.72	1	1.2	ND (<1.0)	ND (<1.0)	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	4.2	3.6	1.0	1.8	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.5	0.64	1.4	0.56
Sulfate	mg/L	ND (<5.0)	363	ND (<5.0)	ND (<5.0)	324	153	12.5	52.4	15.2	20.3	ND (<1.0)	17.7	11.2	102.0	15.1	14.5	25.9	NS	10.6	17.1	ND (<5.0)	155	18.9
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.4	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-15

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	390	210	300	16	350 E	330	714	111	373	48.7	108	41.2	364	55.8	271	92.7	18.7	149	324	91.7	139	10	240	45	
Ethylbenzene	µg/L	5	53	38	74	1.9	92	110	244	24.5	124	10.2	45.2	15.7	135	19.4	99.9	31.0	7.9	86.7	133	40.7	63.1	10	98	26	
m,p-Xylene	µg/L	5	ND (<5.0)	ND (<5.0)	ND (<10)	3.2	8.1	ND (<8.0)	13.7	2.7	9.4	ND (<2.0)	2.8	ND (<2.0)	17.5	ND (<2.0)	12.3	ND (<2.0)	3.4	21.6	10	4.3	11.6	2.3	4.7 J	1.2 J	
o-Xylene	µg/L	5	16	8.5	28	7.5	23	24	31.7	7.9	22.8	3.7	18.8	8.1	26.2	4.5	23	4.2	15.4	28.1	24.4	12.4	16.2	41	15	12	
Toluene	µg/L	5	ND (<5.0)	ND (<5.0)	5.8	ND (<1.0)	7	ND (<8.0)	6.1	1.1	7.4	ND (<1.0)	2.9	1.3	8.5	1.4	6.9	ND (<1.0)	1.1	11.1	5.4	2.3	4.0	ND (<1.0)	3.6 J	1.1	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	23	18	24	6.7	16	23	43.1	10.1	16.3	12.4	32.7	12.6	28.4	4.7	17.2	28.3	40.3	16.6	39.1	27.1	22	36 J	34	32	
Acenaphthylene	µg/L	NC	6.5	3	3.9	0.59	3.1	ND (<5.1)	2.4	1.5	2.5	1.4	3.9	1.6	1.9	0.66	1.2	2.5	3.7	1.2	1.6	2.2	1.8	ND (<5.0)	2.1 J	2.1 J	
Anthracene	µg/L	50	1.4	0.95	0.81	ND (<0.49)	0.57	ND (<5.1)	1.9	0.36	0.55	0.31	0.55	0.46	0.74	0.25	0.52	0.35	0.82	0.42	0.96	0.46	0.67	ND (<5.0)	0.84 J	0.38 J	
Benzo(a)anthracene	µg/L	0.002	0.59	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	0.14	0.13	0.55	0.14	ND (<0.099)	0.14	0.14	0.16	0.20	0.16	0.37	0.13	0.14	0.11	0.19	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(a)pyrene	µg/L	0.002	0.59	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	0.10	0.55	0.11	ND (<0.099)	0.12	ND (<0.097)	0.18	0.20	0.13	0.58	0.37	ND (<0.11)	ND (<0.099)	ND (<0.10)	0.19	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(b)fluoranthene	µg/L	0.002	0.62	ND (<0.58)	0.72	ND (<0.49)	ND (<0.47)	ND (<5.1)	0.11	0.16	0.81	0.15	ND (<0.099)	0.17	0.11	0.16	0.21	0.16	0.48	0.11	0.12	0.19	0.22	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(g,h,i)perylene	µg/L	NC	ND (<0.58)	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	ND (<0.098)	0.4	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.097)	0.11	0.12	ND (<0.096)	0.21	ND (<0.11)	ND (<0.099)	ND (<0.10)	0.10	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.58)	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	0.13	0.69	0.11	ND (<0.099)	0.15	0.10	ND (<0.10)	ND (<0.097)	0.15	0.41	ND (<0.11)	0.11	ND (<0.10)	0.18	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Chrysene	µg/L	0.002	0.59	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	0.11	0.12	0.48	ND (<0.099)	ND (<0.099)	0.12	0.11	0.12	0.17	0.13	0.26	ND (<0.11)	0.10	ND (<0.10)	0.13	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.58)	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	ND (<0.098)	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.10)	ND (<0.097)	ND (<0.096)	ND (<0.10)	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Fluoranthene	µg/L	50	1.7	1.1	0.93	ND (<0.49)	0.81	ND (<5.1)	1.2	0.46	1.2	0.34	0.53	0.8	0.89	0.41	0.68	0.52	0.76	0.44	0.79	0.46	0.70	ND (<5.0)	ND (<5.0)	0.41 J	
Fluorene	µg/L	50	6.1	4.3	5.2	1.2	4.1	5.9	11.8	1.9	4.1	2.4	5.3	3.4	6.6	1.4	4.0	4.4	3.3	2.9	7.9	5.4	5.2	4.4 J	8.5 J	4.9 J	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.58)	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	ND (<0.098)	0.31	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.10)	ND (<0.097)	ND (<0.096)	0.17	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Naphthalene	µg/L	10	13	29	210	1.5	48 E	119	363	34.1	69.3	16.8	136	43	512	1.1	272	15.0	152	242	232	136	138	239	149	53	
Phenanthrene	µg/L	50	5.1	3.4	3.7	ND (<0.49)	2.8	ND (<5.1)	8.5	1.2	2.5	0.99	1.9	1.8	3.7	0.52	2.1	1.2	2.7	1.6	3.7	1.2	2.0	ND (<5.0)	2.0	1.0 J	
Pyrene	µg/L	50	2	1.5	1.1	ND (<0.49)	0.69	ND (<5.1)	1.4	0.58	1.6	0.45	0.59	0.73	1.0	0.54	0.83	0.71	1.0	0.57	0.92	0.57	0.84	ND (<5.0)	0.56 J	0.47 J	
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	0.010	0.010	0.010	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	24	3.3 J	ND (<10)
Cyanide	mg/L	0.2	0.5	0.48	0.58	0.28	1	1.1	1.1	0.42	1.3	0.56	0.27	0.171	0.61	0.32	0.67	0.23	0.15	0.23	1.1	0.28	0.25	0.12	0.83	0.19	

- AWQS = Ambient Water Quality Standards
- B = Present in Associated Blank Sample
- BTEX = Benzene, Ethylbenzene, Toluene and Xylene
- D = Diluted Sample
- E = Result exceeded calibration range
- F1 = MS and/or MSD Recovery outside acceptance limits.
- F2 = MS/MSD RPD above control limits.
- J = Estimated Concentration Value
- mg/L = Milligrams per Liter
- NC = No Criteria
- ND (-#) = Not detected above laboratory reporting limit (indicated by #)
- NS = Not Sampled
- NYSDEC = New York State Department of Environmental Conservation
- PAHs = Polycyclic Aromatic Hydrocarbons
- R = Rejected
- µg/L = Micrograms per Liter
- Bolded** = values indicated exceedance of the NYSDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-15

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	585	482	557	480	600	601	676	562	610	616	600	478	990	446	550	534	480	478	600	492	532	405	576	468
Chloride	mg/L	42	44.5	44.2	14.2	49.3	55.7	65.4	25.7	58.0	15.2	15.2	43.9	38	20.3	37.4	24.6	14.0	14.9	82.6	29.1	29.2	2.9	48.1	14.3
Ethane	µg/L	ND (<380)	ND (<380)	ND (<380)	ND (<380)	ND (<380)	ND (<75)	6.2	3.2	5.1	2.8	2.1	3.4	5.1	ND (<1.00)	3.53 J	ND (<5.00)	ND (<2.0)	2.02	NS	1.96 J	ND (<10.0)	ND (<7.5)	6.7 J	ND (<170)
Ethene	µg/L	ND (<350)	ND (<350)	ND (<350)	ND (<350)	ND (<350)	ND (<75)	0.038 J	0.037 J	ND (<0.10)	ND (<0.10)	0.042 J	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	2.1 J	ND (<150)
Ferrous Iron	mg/L	0.18	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.15 HF	ND (<0.1)	9.2	3.0	5.8	3.8	9.2	2.5	3.2	4.2	6.0	8.7	14.8	3.0	7.9	10.7	9.5	0.67	0.52	0.35
Manganese	mg/L	1.1	0.68	1	0.68	0.7	ND (<75)	0.609	0.0639	0.735	0.484	1.56	0.775	0.952	0.312	0.685	0.894	1.27	1.03	0.508	0.724	0.818	0.96	0.60	0.78
Methane	µg/L	580	1,100	2,400	16	1,600	720	3,400	1,900	2,900	640	3,100	1,400	3,600	416	2,400	348	1,020	2,650	NS	1,190	3,250	1,100	4,700	4,100
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.28	ND (<0.05)	ND (<0.5)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.50)	ND (<0.10)	ND (<0.20)	ND (<2.0)	ND (<0.50)	0.11	ND (<0.10)	0.020 J	ND (<0.050)	0.020 J
Nitrogen	mg/L	3.1	3.2	2.9	0.81	3.9	3.4	4.7	2.0	4.4	3.1	1.9	1.4	3.1	1.9	2.0	2.2	1.8	1.9	4.5	1.7	2.6	1.0	2.9	1.3
Sulfate	mg/L	139	122	91.1	28.7	78.5	116	67.9	17.7	60.6	39.0	28.4	25.1	65.9	31.9	71.0	46.8	1.8	24.4	122	39.0	57.2	32.1	61.5	30.6
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.6	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-16

CONSTITUENT	UNITS	NYSDEC AWQS Values	10/08/13	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	150	8.7	59	91	40	76	149	5.9	143	80.6	127	126	143	56.6	130	15.0	97.6	9.1	59.3	12.4	89.6	6.6	82	8.6	
Ethylbenzene	µg/L	5	92	6.2	41	68	26	35	134	3.1	124	60.8	101	91.5	118	38.7	70.4	2.9	65.5	3.8	40.8	5.5	60.6	1.9	57	1.9	
m,p-Xylene	µg/L	5	23	ND (<1.0)	ND (<1.0)	4.9	5	4.9	ND (<2.0)	9.3	6.6	8.7	9.5	9.3	3.9	2.8	ND (<2.0)	4.1	ND (<2.0)	3.0	ND (<2.0)	5.4	ND (<2.0)	3.9 J	ND (<2.0)		
o-Xylene	µg/L	5	35	ND (<1.0)	17	24	11	28	32.1	1.6	38.0	21.3	32.8	31.4	34.6	12.8	22.3	6.1	21.5	3.1	12.8	2.2	20.9	1.0	28	2.0	
Toluene	µg/L	5	9	ND (<1.0)	17	ND (<1.0)	1.4	ND (<2.0)	2.9	ND (<1.0)	3.8	2.1	3.9	3.7	4.5	1.5	3.0	ND (<1.0)	2.8	1.6	2.1	ND (<1.0)	3.4	ND (<1.0)	3.3	ND (<1.0)	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	16	ND (<1.0)	40	27	14	31	54.7	3.0	39.5	39.1	57.8	45.2	53.3	14.6	47.0	9.9	55.1	10.6	48.1	12.7	53.5	18.0	60	7.3	
Acenaphthylene	µg/L	NC	ND (<0.48)	ND (<0.48)	31	25	16	27	47.3	1.9	26.2	24.4	30.6	17.6	21.4	5.9	16.0	3.2	19.4	4.9	19.1	4.7	19.5	5.2	13	1.6 J	
Anthracene	µg/L	50	ND (<0.48)	ND (<0.48)	2.8	1.8	1.2	ND (<2.5)	1.4	0.37	2.2	1.7	2.6	1.8	2.4	0.74	1.7	0.47	2.3	0.48	1.7	0.60	2.3	0.63	2.1 J	0.32 J	
Benzofluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	0.10	0.11	0.11	0.13	0.12	0.11	0.13	ND (<0.10)	0.23	ND (<0.098)	0.19	ND (<0.098)	0.13	ND (<0.10)	0.16	ND (<5.0)	ND (<5.2)	ND (<5.0)	
Benzofluoranthene	µg/L	0.000	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.11	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.21	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	
Benzofluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.17	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.11)	0.11	ND (<0.10)	0.21	ND (<0.098)	0.12	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)
Benzofluoranthene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	ND (<0.097)	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.14	ND (<0.098)	ND (<0.10)	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	
Benzofluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.15	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.11)	0.098	ND (<0.10)	ND (<0.098)	0.11	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	
Chrysene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.098	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.11)	0.11	ND (<0.10)	0.19	ND (<0.098)	0.14	ND (<0.098)	ND (<0.10)	ND (<0.10)	0.11	ND (<5.0)	ND (<5.2)	ND (<5.0)	
Dibenzofluoranthene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	ND (<0.097)	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.098)	ND (<0.10)	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	
Fluorene	µg/L	50	ND (<0.48)	ND (<0.48)	2.7	1.6	1.1	ND (<2.5)	1.6	0.41	2.5	1.9	2.4	1.9	3.0	1.1	2.6	0.47	3.40	0.72	2.2	0.92	3.3	1.2 J	2.8 J	0.41 J	
Fluorene	µg/L	50	9.1	ND (<0.48)	22	14	7.1	15	22.2	1.1	17.2	17.2	19.5	12.8	24.1	5.3	16.9	1.8	20.5	3.4	16.2	5.1	20.6	6.3	21	2.1 J	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	ND (<0.097)	ND (<0.098)	ND (<0.098)	ND (<0.098)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.11	ND (<0.098)	ND (<0.10)	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	
Naphthalene	µg/L	10	ND (<0.48)	ND (<0.48)	1.7	4.6	5.1	7.4	4.6	0.16	5.8	36.9	9.8	12.9	36.9	2.2	9.0	1.4	14.4	6.3	16.3	9.0	28.3	9.9	25	3.0 J	
Phenanthrene	µg/L	50	ND (<0.48)	ND (<0.48)	18	11	6.7	10	15.9	0.99	15.7	14.1	16.5	11.6	18.4	2.5	13.1	ND (<0.098)	15.4	3.5	13.0	4.1	18.2	5.3	20	1.1 J	
Pyrene	µg/L	50	ND (<0.48)	ND (<0.48)	3	1.8	1.2	ND (<2.5)	2.0	0.50	2.7	2.1	2.5	2.1	3.3	1.2	2.9	0.54	3.8	0.80	2.30	1.0	3.7	1.5 J	2.8 J	0.47 J	
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	6.1	ND (<5.0)	ND (<2.0)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	17	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.11	0.023	0.28	0.24	0.24	0.25	0.26	0.21	0.26	0.23	0.26	0.192	0.23	0.19	0.25	0.17	0.14	0.14	0.14	0.19	0.12	0.20	0.17	0.22	0.15

- AWQS = Ambient Water Quality Standards
- B = Present in Associated Blank Sample
- BTEX = Benzene, Ethylbenzene, Toluene and Xylene
- D = Diluted Sample
- E = Result exceeded calibration range
- F1 = MS and/or MSD Recovery outside acceptance limits.
- F2 = MSMSD RPD above control limits.
- J = Estimated Concentration Value
- mg/L = Milligrams per Liter
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- NYSDEC = New York State Department of Environmental Conservation
- PAHs = Polycyclic Aromatic Hydrocarbons
- R = Rejected
- µg/L = Micrograms per Liter
- Bolded** = values indicated exceedance of the NYSDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-16

CONSTITUENT	UNITS	10/08/13	04/09/14	10/15/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	
<b>MNA/WQ Parameters</b>																										
Alkalinity (as CaCO <sub>3</sub> )	mg/L	585	454	595	532	638	615	636	706	630	724	740	560	650	156	670	680	760	546	674	450	674	616	701	591	
Chloride	mg/L	5.4	5	6.5	5.8	4.9	5.7	6.8	3.4	6.5	5.6	4.8	11.8	4.8	3.6	5.2	3.6	3.8	ND (<3.0)	5.7	ND (<3.0)	5.7	3.6	5.4	3.4	
Ethane	µg/L	ND (<750)	ND (<750)	ND (<750)	ND (<75)	ND (<75)	ND (<75)	1.2	0.15J	0.84J	0.82J	0.99J	0.92 J	1.1	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<5.00)	ND (<7.5)	44 J	ND (<7.5)	
Ethene	µg/L	ND (<700)	ND (<700)	ND (<700)	ND (<70)	ND (<70)	ND (<75)	0.24J	0.036J	0.16J	0.13J	0.17J	0.15 J	0.20 J	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	42 J	ND (<7.0)	
Ferrous Iron	mg/L	0.13	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	2.4	1.2	3.0	3.5	3.1	2.6	1.9	2.6	3.0	0.79	4.7	3.6	7.4	0.30	9.0	0.9	1.5	0.15	
Manganese	mg/L	0.7	0.22	0.63	0.42	0.33	ND (<75)	0.601	0.522	0.599	0.551	0.592	0.603	0.658	0.373	0.650	0.373	0.646	0.275	0.553	0.125	0.634	0.19	0.57	0.10	
Methane	µg/L	150	75	410	160	1100	110	900	180	780	820	830	850	1100	4.95 J	488	ND (<5.00)	500	173	NS	22.1	641	330	1,200	230	
Nitrate	mg/L	ND (<0.05)	0.63	ND (<0.05)	ND (<0.05)	0.37	0.074	ND (<0.10)	0.33	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.50)	0.79	ND (<0.10)	0.32	0.023 J	0.75
Nitrogen	mg/L	2.8	2.4	3.3	2.1	1.9	2.6	5.4	2.4	3.2	2.3	3.2	3.4	3.9	2	2.8	2.4	3.9	2.2	3.7	1.0	3.9	1.1	2.2	0.91	
Sulfate	mg/L	86	ND (<1.0)	107	38.2	22.8	13.3	145	37.8	77.7	111	75.8	79.6	67.7	39	95.7	37.5	66.8	25.9	36.2	28.5	30.2	6.6	30.0	39.9	
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.0	ND (<1.0)	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



## Appendix A – Field Data

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Well ID	Sample?	Well Size?	DTW	DTP	DTB	Comments
RW-1	No	2"	10.03		21.50	
MW-4	Yes	2"	22.80		27.32	
MW-7	Yes	2"	13.92		22.10	
MW-10	Yes	2"	14.42		22.05	
MW-11	No	2"	13.08		22.90	
MW-12	Yes	2"	14.53		22.24	
MW-13	Yes	2"	13.41		22.75	MS/MSD
MW-14	Yes	2"	13.70		23.55	Field Duplicate
MW-15	Yes	2"	16.19		23.00	
MW-16	Yes	2"	9.20		19.45	
Gauge-1 (bridge)	No		15.55		19.76	

*DTW* -depth to water  
*DTP* -depth to product  
*DTB* -depth to bottom  
 All from top of casing

Sampling Personnel: K  
Job Number: 0603500-120950-221  
Well Id. **MW-4**

Date: 4/16/25  
Weather: Cloudy 37  
Time In: 11:35 Time Out: 12:30

Well Information		TOC	Other
Depth to Water:	(feet)	<u>22.80</u>	
Depth to Bottom:	(feet)	27.32	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	<u>4.52</u>	
Volume of Water in Well:	(gal)	<u>0.723</u>	
Three Well Volumes:	(gal)	<u>2.16</u>	

Well Type:  Flushmount  Stick-Up  
Well Locked: Yes  No   
Measuring Point Marked: Yes  No   
Well Material: PVC  SS  Other: \_\_\_\_\_  
Well Diameter: 1"  2"  Other: \_\_\_\_\_  
Comments: \_\_\_\_\_

Purging Information		Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/> Peristaltic <input type="checkbox"/> Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID	
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input type="checkbox"/> Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal./ft. of water	0.04	0.16	0.66	1.47
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input type="checkbox"/> Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet				
Average Pumping Rate:	(ml/min) <u>2.0</u>					
Duration of Pumping:	(min) <u>32</u>					
Total Volume Removed:	(gal) <u>2</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>11:40</u>	<u>22.88</u>	<u>9.56</u>	<u>7.29</u>	<u>31</u>	<u>1.37</u>	<u>59.9</u>	<u>4.35</u>	<u>0.873</u>
<u>11:45</u>	<u>22.92</u>	<u>9.84</u>	<u>7.17</u>	<u>38</u>	<u>1.32</u>	<u>41.3</u>	<u>4.87</u>	<u>0.847</u>
<u>11:50</u>	<u>22.92</u>	<u>9.93</u>	<u>7.14</u>	<u>40</u>	<u>1.31</u>	<u>34.1</u>	<u>4.48</u>	<u>0.838</u>
<u>11:55</u>	<u>22.92</u>	<u>10.00</u>	<u>7.09</u>	<u>45</u>	<u>1.29</u>	<u>14.2</u>	<u>4.20</u>	<u>0.828</u>
<u>12:00</u>	<u>22.92</u>	<u>10.01</u>	<u>7.07</u>	<u>47</u>	<u>1.29</u>	<u>11.1</u>	<u>4.10</u>	<u>0.828</u>
<u>12:05</u>	<u>22.92</u>	<u>10.02</u>	<u>7.07</u>	<u>51</u>	<u>1.28</u>	<u>5.0</u>	<u>3.93</u>	<u>0.819</u>
<u>12:10</u>	<u>22.92</u>	<u>10.01</u>	<u>7.07</u>	<u>51</u>	<u>1.28</u>	<u>4.3</u>	<u>4.13</u>	<u>0.819</u>

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E
				Nitrite-Nitrite as N	EPA Method 353.2
				Sulfate	D516
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2
				Total Kjeldahl Nitrogen	EPA Method 351.2
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175

Sample ID: **MW-4** Duplicate? Yes  No   
Sample Time: 12:10 MS/MSD? Yes  No   
Shipped: Syracuse Service Center   
Fed-Ex  Courier   
Laboratory: Eurofins Amherst, New York

Sampling Personnel: Peter Liron  
Job Number: 0603500-120950-221  
Well Id. **MW-7**

Date: 4/16/25  
Weather: overcast 34°  
Time In: 11:27 Time Out: 1:10

Well Information			TOC	Other
Depth to Water:	(feet)	<u>13.92</u>		
Depth to Bottom:	(feet)	<u>22.10</u>		
Depth to Product:	(feet)	<u>-</u>		
Length of Water Column:	(feet)	<u>8.18</u>		
Volume of Water in Well:	(gal)	<u>1.20</u>		
Three Well Volumes:	(gal)	<u>3.92</u>		

Well Type:  Flushmount  Stick-Up  
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66
Average Pumping Rate:	(ml/min)	<u>25</u>		1 gallon=3.785L=3785mL=1337cu. feet			
Duration of Pumping:	(min)	<u>30</u>					
Total Volume Removed:	(gal)	<u>2</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>11:35</u>	<u>14.38</u>	<u>8.15</u>	<u>7.48</u>	<u>7</u>	<u>1.09</u>	<u>26.6</u>	<u>2.01</u>	<u>0.703</u>
<u>11:40</u>	<u>14.77</u>	<u>7.84</u>	<u>7.24</u>	<u>-35</u>	<u>1.15</u>	<u>89.6</u>	<u>4.61</u>	<u>0.739</u>
<u>11:45</u>	<u>15.04</u>	<u>8.20</u>	<u>7.20</u>	<u>-32</u>	<u>1.17</u>	<u>77.2</u>	<u>3.17</u>	<u>0.747</u>
<u>11:50</u>	<u>15.42</u>	<u>8.24</u>	<u>7.12</u>	<u>-35</u>	<u>1.19</u>	<u>68.1</u>	<u>1.32</u>	<u>0.758</u>
<u>11:55</u>	<u>15.64</u>	<u>8.10</u>	<u>7.17</u>	<u>-35</u>	<u>1.19</u>	<u>41.3</u>	<u>0.92</u>	<u>0.763</u>
<u>12:00</u>	<u>15.92</u>	<u>7.89</u>	<u>7.17</u>	<u>-38</u>	<u>1.20</u>	<u>19.6</u>	<u>0.30</u>	<u>0.765</u>
<u>12:05</u>	<u>15.24</u>	<u>8.10</u>	<u>7.16</u>	<u>-44</u>	<u>1.19</u>	<u>15.6</u>	<u>0.15</u>	<u>0.761</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: **MW-7** Duplicate? Yes  No   
 Sample Time: 12:05 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins  
 Amherst, New York

Sampling Personnel: Peter Lyon  
Job Number: 0603500-120950-221  
Well Id. **MW-10**

Date: 4/16/25  
Weather: 35° Sun/Clouds  
Time In: 1225 Time Out: 1305

Well Information			TOC	Other
Depth to Water:	(feet)	<u>14.42</u>		
Depth to Bottom:	(feet)	<u>22.05</u>		
Depth to Product:	(feet)	<u>-</u>		
Length of Water Column:	(feet)	<u>7.63</u>		
Volume of Water in Well:	(gal)	<u>1.22</u>		
Three Well Volumes:	(gal)	<u>3.66</u>		

Well Type:  Flushmount  Stick-Up  
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  1"  SS  2"  Other: \_\_\_\_\_  
 Well Diameter: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal./ft. of water	0.04	0.16	0.66
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet			
Average Pumping Rate:	(ml/min)	<u>200</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Duration of Pumping:	(min)	<u>30</u>	Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Total Volume Removed:	(gal)	<u>2</u>					

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1230</u>	<u>14.98</u>	<u>8.33</u>	<u>6.81</u>	<u>-40</u>	<u>1.44</u>	<u>59.1</u>	<u>1.20</u>	<u>0.939</u>
<u>1235</u>	<u>6.96</u>	<u>8.52</u>	<u>7.02</u>	<u>-92</u>	<u>2.31</u>	<u>132</u>	<u>0.95</u>	<u>1.47</u>
<u>1240</u>	<u>16.00</u>	<u>7.64</u>	<u>7.09</u>	<u>-100</u>	<u>2.05</u>	<u>42.5</u>	<u>0.00</u>	<u>1.30</u>
<u>1245</u>	<u>16.52</u>	<u>7.45</u>	<u>7.10</u>	<u>-108</u>	<u>1.95</u>	<u>23.1</u>	<u>0.00</u>	<u>1.25</u>
<u>1250</u>	<u>16.97</u>	<u>6.94</u>	<u>7.07</u>	<u>-114</u>	<u>2.09</u>	<u>36.2</u>	<u>0.00</u>	<u>1.34</u>
<u>1255</u>	<u>12.30</u>	<u>7.00</u>	<u>7.08</u>	<u>-116</u>	<u>2.20</u>	<u>28.5</u>	<u>0.00</u>	<u>1.41</u>
<u>1300</u>	<u>17.47</u>	<u>7.10</u>	<u>7.07</u>	<u>-117</u>	<u>2.29</u>	<u>24.5</u>	<u>0.00</u>	<u>1.46</u>

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E
				Nitrite-Nitrite as N	EPA Method 353.2
				Sulfate	D516
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2
				Total Kjeldahl Nitrogen	EPA Method 351.2
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175

Sample ID: **MW-10**  
Sample Time: 1300

Duplicate? Yes  No   
MS/MSD? Yes  No

Shipped: Syracuse Service Center   
Fed-Ex  Courier   
Laboratory: Eurofins  
Amherst, New York

Sampling Personnel: IL  
Job Number: 0603500-120950-221  
Well Id. **MW-11**

Date: 4/14/25  
Weather: Cloudy 37  
Time In: 09:45 Time Out: 10:40

Well Information		TOC	Other
Depth to Water:	(feet)	<u>13.06</u>	
Depth to Bottom:	(feet)	22.90	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	<u>9.62</u>	
Volume of Water in Well:	(gal)	<u>6.57</u>	
Three Well Volumes:	(gal)	<u>19.71</u>	

Well Type:  Flushmount  Stick-Up   
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID	gal/ft. of water
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	0.04	0.16	0.66	1.47	
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1 gallon=3.785L=3785mL=133.7cu. feet				
Average Pumping Rate:	(ml/min)	<u>2.10</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Duration of Pumping:	(min)	<u>31</u>	Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Total Volume Removed:	(gal)	<u>2</u>						

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>10:00</u>	<u>13.32</u>	<u>10.99</u>	<u>7.30</u>	<u>77</u>	<u>2.81</u>	<u>25.8</u>	<u>7.92</u>	<u>1.79</u>
<u>10:05</u>	<u>13.32</u>	<u>10.60</u>	<u>7.05</u>	<u>29</u>	<u>3.04</u>	<u>24.3</u>	<u>6.67</u>	<u>1.95</u>
<u>10:10</u>	<u>13.32</u>	<u>10.33</u>	<u>7.05</u>	<u>-10</u>	<u>3.08</u>	<u>17.0</u>	<u>6.12</u>	<u>1.94</u>
<u>10:15</u>	<u>13.32</u>	<u>10.07</u>	<u>7.04</u>	<u>-15</u>	<u>2.74</u>	<u>13.4</u>	<u>5.04</u>	<u>1.75</u>
<u>10:20</u>	<u>13.32</u>	<u>9.97</u>	<u>7.03</u>	<u>-15</u>	<u>2.70</u>	<u>14.1</u>	<u>4.95</u>	<u>1.72</u>
<u>10:25</u>	<u>13.32</u>	<u>9.60</u>	<u>7.00</u>	<u>-16</u>	<u>2.73</u>	<u>13.0</u>	<u>4.70</u>	<u>1.75</u>
<u>10:30</u>	<u>13.32</u>	<u>9.54</u>	<u>6.90</u>	<u>-17</u>	<u>2.78</u>	<u>13.2</u>	<u>4.60</u>	<u>1.78</u>

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E
				Nitrite-Nitrite as N	EPA Method 353.2
				Sulfate	D516
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2
				Total Kjeldahl Nitrogen	EPA Method 351.2
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175

Sample ID: **MW-11** Duplicate? Yes  No   
 Sample Time: 10:30 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins Amherst, New York

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel: [Signature]  
Job Number: 0603500-120950-221  
Well Id. **MW-12**

Date: 4/16/25  
Weather: Cloudy 37  
Time In: 10:40 Time Out: 11:30

Well Information			TOC	Other
Depth to Water:	(feet)	<u>14.53</u>		
Depth to Bottom:	(feet)	<u>22.24</u>		
Depth to Product:	(feet)	<u>7.60</u>		
Length of Water Column:	(feet)	<u>7.60</u>		
Volume of Water in Well:	(gal)	<u>1.22</u>		
Three Well Volumes:	(gal)	<u>3.67</u>		

Well Type:  Flushmount  Stick-Up  
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID	gal/ft. of water
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	0.04	0.16	0.66	1.47	
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1 gallon=3.785L=3785mL=133.7cu. feet				
Average Pumping Rate:	(ml/min)	<u>200</u>						
Duration of Pumping:	(min)	<u>30</u>						
Total Volume Removed:	(gal)	<u>2</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>10:45</u>	<u>14.60</u>	<u>9.43</u>	<u>7.50</u>	<u>-16</u>	<u>3.63</u>	<u>77.1</u>	<u>4.22</u>	<u>2.29</u>
<u>10:50</u>	<u>14.60</u>	<u>9.83</u>	<u>6.96</u>	<u>-5</u>	<u>3.11</u>	<u>74.3</u>	<u>3.55</u>	<u>1.97</u>
<u>10:55</u>	<u>14.60</u>	<u>10.09</u>	<u>6.80</u>	<u>6</u>	<u>2.75</u>	<u>40.6</u>	<u>3.12</u>	<u>1.76</u>
<u>11:00</u>	<u>14.60</u>	<u>10.19</u>	<u>6.76</u>	<u>21</u>	<u>2.85</u>	<u>19.8</u>	<u>3.12</u>	<u>1.83</u>
<u>11:05</u>	<u>14.60</u>	<u>10.25</u>	<u>6.77</u>	<u>29</u>	<u>2.97</u>	<u>15.0</u>	<u>3.13</u>	<u>1.90</u>
<u>11:10</u>	<u>14.60</u>	<u>10.23</u>	<u>6.77</u>	<u>34</u>	<u>3.05</u>	<u>14.1</u>	<u>3.18</u>	<u>1.75</u>
<u>11:15</u>	<u>14.60</u>	<u>10.21</u>	<u>6.76</u>	<u>35</u>	<u>3.06</u>	<u>13.9</u>	<u>3.16</u>	<u>1.96</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: **MW-12** Duplicate? Yes  No   
 Sample Time: 11:15 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins Amherst, New York

Sampling Personnel: Peter Lyon  
Job Number: 0603500-120950-221  
Well Id. **MW-13**

Date: 4/16/25  
Weather: 30-34°  
Time In: 0755 Time Out: 1040

Well Information			TOC	Other
Depth to Water:	(feet)		<u>13.41</u>	
Depth to Bottom:	(feet)		<u>22.75</u>	
Depth to Product:	(feet)			
Length of Water Column:	(feet)		<u>9.34</u>	
Volume of Water in Well:	(gal)		<u>1.49</u>	
Three Well Volumes:	(gal)		<u>4.48</u>	

Well Type:  Flushmount  Stick-Up  
Well Locked: Yes  No   
Measuring Point Marked: Yes  No   
Well Material: PVC  1"  SS  2"  Other: \_\_\_\_\_  
Well Diameter: \_\_\_\_\_  
Comments: \_\_\_\_\_

Purging Information				Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID	
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of				
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66	
Average Pumping Rate:	(ml/min)	<u>2.00</u>		1 gallon=3.785L=3785mL=133.7cu. feet				
Duration of Pumping:	(min)	<u>30</u>						
Total Volume Removed:	(gal)	<u>2</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1005</u>	<u>13.61</u>	<u>8.21</u>	<u>8.06</u>	<u>135</u>	<u>0.680</u>	<u>7.8</u>	<u>8.72</u>	<u>0.424</u>
<u>1010</u>	<u>13.83</u>	<u>8.31</u>	<u>7.63</u>	<u>24</u>	<u>0.515</u>	<u>3.9</u>	<u>1.20</u>	<u>0.329</u>
<u>1015</u>	<u>13.83</u>	<u>8.17</u>	<u>7.60</u>	<u>6</u>	<u>0.507</u>	<u>2.4</u>	<u>0.70</u>	<u>0.324</u>
<u>1020</u>	<u>13.84</u>	<u>8.19</u>	<u>7.60</u>	<u>-13</u>	<u>0.499</u>	<u>2.8</u>	<u>0.23</u>	<u>0.324</u>
<u>1025</u>	<u>13.96</u>	<u>8.22</u>	<u>7.51</u>	<u>-28</u>	<u>0.496</u>	<u>3.4</u>	<u>0.00</u>	<u>0.323</u>
<u>1030</u>	<u>13.96</u>	<u>8.26</u>	<u>7.50</u>	<u>-36</u>	<u>0.494</u>	<u>3.2</u>	<u>0.00</u>	<u>0.321</u>
<u>1035</u>	<u>13.99</u>	<u>8.26</u>	<u>7.51</u>	<u>-42</u>	<u>0.493</u>	<u>2.8</u>	<u>0.00</u>	<u>0.321</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

**MW-13-MS and MW-13-MSD**

Sample ID: MW-13 Duplicate? Yes  No   
Sample Time: 1035 MS/MSD? Yes  No

Shipped: Syracuse Service Center   
Fed-Ex  Courier   
Laboratory: Eurofins  
Amherst, New York

Sampling Personnel: AS  
Job Number: 0603500-120950-221  
Well Id. **MW-14**

Date: 4/11/25  
Weather: 37°F, cloudy  
Time In: 1045 Time Out: 1130

Well Information			TOC	Other
Depth to Water:	(feet)	<u>13.70</u>		
Depth to Bottom:	(feet)	<u>23.55</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>9.85</u>		
Volume of Water in Well:	(gal)	<u>1.57</u>		
Three Well Volumes:	(gal)	<u>4.7</u>		

Well Type:  Flushmount  Stick-Up  
Well Locked: Yes  No   
Measuring Point Marked: Yes  No   
Well Material: PVC  SS  Other: \_\_\_\_\_  
Well Diameter: 1"  2"  Other: \_\_\_\_\_  
Comments: \_\_\_\_\_

Purging Information				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal./ft. of			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66
Average Pumping Rate:	<u>200</u> (ml/min)			1 gallon=3.785L=3785mL=133.7cu. feet			
Duration of Pumping:	<u>30</u> (min)						
Total Volume Removed:	<u>2.5</u> (gal)		Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1050</u>	<u>13.95</u>	<u>8.20</u>	<u>7.72</u>	<u>-9</u>	<u>0.930</u>	<u>222</u>	<u>4.49</u>	<u>0.592</u>
<u>1055</u>	<u>13.95</u>	<u>7.17</u>	<u>7.49</u>	<u>-55</u>	<u>1.00</u>	<u>882</u>	<u>8.95</u>	<u>0.639</u>
<u>1100</u>	<u>13.95</u>	<u>7.34</u>	<u>7.33</u>	<u>-20</u>	<u>0.976</u>	<u>0.0 *</u>	<u>6.96</u>	<u>0.610</u>
<u>1105</u>	<u>13.95</u>	<u>7.67</u>	<u>7.24</u>	<u>27</u>	<u>0.787</u>	<u>0.0</u>	<u>4.47</u>	<u>0.505</u>
<u>1110</u>	<u>13.95</u>	<u>7.69</u>	<u>7.23</u>	<u>41</u>	<u>0.734</u>	<u>0.0</u>	<u>3.46</u>	<u>0.471</u>
<u>1115</u>	<u>13.95</u>	<u>7.71</u>	<u>7.23</u>	<u>49</u>	<u>0.698</u>	<u>502</u>	<u>2.58</u>	<u>0.447</u>
<u>1120</u>	<u>13.95</u>	<u>7.70</u>	<u>7.27</u>	<u>58</u>	<u>0.670</u>	<u>894</u>	<u>2.04</u>	<u>0.429</u>

\* Turbidity sensor malfunction

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E
				Nitrite-Nitrite as N	EPA Method 353.2
				Sulfate	D516
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2
				Total Kjeldahl Nitrogen	EPA Method 351.2
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175

Field Duplicate: Sample ID: MW-14 Duplicate? Yes  No   
Sample Time: 1125 MS/MSD? Yes  No   
Shipped: Syracuse Service Center   
Fed-Ex  Courier   
Laboratory: Eurofins Amherst, New York

Sampling Personnel: AS  
Job Number: 0603500-120950-221  
Well Id. **MW-15**

Date: 4/16/25  
Weather: 36°F, cloudy  
Time In: 0940 Time Out: 1040

Well Information			TOC	Other
Depth to Water:	(feet)	<u>16.19</u>		
Depth to Bottom:	(feet)	<u>23.00</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>6.81</u>		
Volume of Water in Well:	(gal)	<u>1.08</u>		
Three Well Volumes:	(gal)	<u>3.26</u>		

Well Type:  Flushmount  Stick-Up  
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  1"  SS  2"  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal./ft. of			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66
Average Pumping Rate:	<u>200</u> (ml/min)			1 gallon=3.785L=3785mL=133.7cu. feet			
Duration of Pumping:	<u>30</u> (min)						
Total Volume Removed:	<u>2.5</u> (gal)		Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0945</u>	<u>16.60</u>	<u>10.78</u>	<u>7.35</u>	<u>84</u>	<u>1.14</u>	<u>11.4</u>	<u>8.35</u>	<u>0.732</u>
<u>0950</u>	<u>16.78</u>	<u>10.60</u>	<u>7.37</u>	<u>74</u>	<u>1.05</u>	<u>12.7</u>	<u>5.47</u>	<u>0.679</u>
<u>0955</u>	<u>17.01</u>	<u>10.41</u>	<u>7.32</u>	<u>60</u>	<u>0.887</u>	<u>16.4</u>	<u>1.81</u>	<u>0.570</u>
<u>0959/1000</u>	<u>17.32</u>	<u>9.77</u>	<u>7.28</u>	<u>56</u>	<u>0.847</u>	<u>14.8</u>	<u>0.27</u>	<u>0.543</u>
<u>1005</u>	<u>17.55</u>	<u>9.42</u>	<u>7.28</u>	<u>53</u>	<u>0.846</u>	<u>8.6</u>	<u>0.36</u>	<u>0.541</u>
<u>1010</u>	<u>17.81</u>	<u>9.25</u>	<u>7.29</u>	<u>48</u>	<u>0.858</u>	<u>7.6</u>	<u>0.14</u>	<u>0.549</u>
<u>1015</u>	<u>17.98</u>	<u>9.21</u>	<u>7.27</u>	<u>44</u>	<u>0.875</u>	<u>7.9</u>	<u>0.01</u>	<u>0.559</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: **MW-15** Duplicate? Yes  No   
 Sample Time: 1020 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins  
 Amherst, New York

Sampling Personnel: AJ  
Job Number: 0603500-120950-221  
Well Id. **MW-16**

Date: 4/16/25  
Weather: 37°F, cloudy  
Time In: 1200 Time Out: 1245

Well Information			TOC	Other
Depth to Water:	(feet)		<u>9.20</u>	
Depth to Bottom:	(feet)		19.45	
Depth to Product:	(feet)		<u>NP</u>	
Length of Water Column:	(feet)		<u>10.25</u>	
Volume of Water in Well:	(gal)		<u>1.64</u>	
Three Well Volumes:	(gal)		<u>4.9</u>	

Well Type:  Flushmount  Stick-Up   
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66
Average Pumping Rate:	<u>200</u> (ml/min)			1 gallon=3.785L=3785mL=1337cu. feet			
Duration of Pumping:	<u>30</u> (min)						
Total Volume Removed:	<u>205</u> (gal)		Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1205</u>	<u>9.41</u>	<u>7.83</u>	<u>7.23</u>	<u>-1</u>	<u>0.873</u>	<u>528</u>	<u>2.77</u>	<u>0.545</u>
<u>1210</u>	<u>9.82</u>	<u>7.77</u>	<u>7.21</u>	<u>-98</u>	<u>1.15</u>	<u>84.5</u>	<u>0.63</u>	<u>0.734</u>
<u>1215</u>	<u>9.98</u>	<u>7.62</u>	<u>7.22</u>	<u>-101</u>	<u>1.14</u>	<u>76.2</u>	<u>0.29</u>	<u>0.729</u>
<u>1220</u>	<u>10.11</u>	<u>7.45</u>	<u>7.20</u>	<u>-94</u>	<u>1.11</u>	<u>66.8</u>	<u>0.37</u>	<u>0.714</u>
<u>1225</u>	<u>10.29</u>	<u>7.29</u>	<u>7.17</u>	<u>-74</u>	<u>1.07</u>	<u>50.7</u>	<u>1.33</u>	<u>0.657</u>
<u>1230</u>	<u>10.44</u>	<u>7.13</u>	<u>7.16</u>	<u>-56</u>	<u>1.04</u>	<u>31.3</u>	<u>2.32</u>	<u>0.664</u>
<u>1235</u>	<u>10.81</u>	<u>7.15</u>	<u>7.14</u>	<u>-36</u>	<u>1.03</u>	<u>21.5</u>	<u>2.85</u>	<u>0.660</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: MW-16 Duplicate? Yes  No   
 Sample Time: 1240 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins  
 Amherst, New York

# Chain of Custody Record

10 Hazelwood Drive  
Amherst, NY 14228-2298  
Phone (716) 691-2600 Phone (716) 691-7991

**Client Information**  
 Client Contact: Kevin Lee Lab PM: Beninati, John  
 Phone: 315 877 1368 E-Mail: John.Beninati@eurofins.com  
 Company: Groundwater & Environmental Services Inc  
 Address: 6780 Northern Boulevard Suite 100  
 City: East Syracuse  
 State, Zip: NY, 13057  
 PO #: 0603500-120950-221-1106  
 Email: tbeaumont@gesonline.com  
 Project Name: Johnstown Semi-Annual GW Event Desc: Johnstown Semi-Annual  
 Project #: 48027231  
 SSON#: Johnstown Semi-Annual GWS

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil/sediment, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Analysis Requested										Special Instructions/Note:			
							RSK_175_CO2 - Carbon dioxide	9012B_NP - Cyanide, Total	8270D - PAH Semivolatiles	6010C - Metals (ICP) - Pb & Mn	RSK_175 - Methane, Ethane, Ethene	8260C - BTEX - 8260	SM4500_S2_F - Sulfide	351_2, 353_2_Pres	353_2_Nitrite, D516, Nitrate, Calc, SM4500_Cr	2320B - Alkalinity		3500_FE_D - Ferrous Iron	Total Number of containers	
MW-4	4/16/25	12:10	G	Water	X	X	N	B	N	D	A	A	CB	S	N	N	N	19		
MW-7		12:05	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-10		13:00	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-11		10:30	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-12		11:15	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-13		10:35	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-13-MS		10:35	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-13-MSD		10:35	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-14		11:25	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-15		10:30	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
MW-16		12:40	G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
Field Duplicate			G	Water	X	X	3	1	2	1	3	3	1	1	2	1	1	1	19	
Trip Blank				Water									2							

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

**Empty Kit Relinquished by:**  
 Relinquished by: \_\_\_\_\_ Date: 4/16/25 Time: 16:18  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**Special Instructions/OC Requirements:**  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Method of Shipment:**  
 Receiver by: Reynolds Date/Time: 4-16-25, 16:18 Company: Byr  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

**Custody Seal No.:**  
 Δ Yes Δ No



## Appendix B – Data Usability Summary Report

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Groundwater & Environmental Services, Inc.  
708 North Main Street, Suite 201  
Blacksburg, VA 24060  
T: 800.662.5067

June 10, 2025

Devin Shay  
Groundwater & Environmental Services  
6780 Northern Blvd. Suite 100  
East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid: Johnstown, NY Site Data Package Eurofins Analytical Job No. 480-228767-1

Groundwater & Environmental Services, Inc. (GES) reviewed one data package (Laboratory Project Number 480-228767-1) from Eurofins Environment Testing, for the analysis of groundwater samples collected on April 16, 2025, from monitoring wells located at the National Grid: Johnstown, NY Site. Nine aqueous samples and a field duplicate were analyzed for dissolved gases, PAHs, Nitrate-Nitrite, Total Nitrogen, Metals, Alkalinity, Chloride, Ferrous Iron, Cyanide, Sulfide and Sulfate. Methodologies utilized were EPA methodologies 8260C, 8270D, RSK-175, 6010C, 351.2, 9012B, ASTM D516-90, 02, SM methodologies Nitrate by calculation, SM 2320B, SM 3500 FE D, SM 4500 Cl- E, and SM 4500 S2 F with additional QC requirements of the NYSDEC ASP.

The data were reported as part of a complete full deliverable type B data validation. This usability report is generated from review of the following:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate ( M S / M S D ) Correlations
- Field Duplicate Correlations
- Laboratory Control Sample (LCS)
- Preparation/Calibration Blanks
- Calibration/Low Level Standard Responses
- Instrumental Tunes
- Instrument MDLs

The items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, sample results were usable as reported, with exceptions due to poor precision or BS/BSD and MS/MSD recoveries.

The laboratory case narratives and sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report.

**Table 1. Laboratory – Field Cross Reference**

Lab ID	Sample ID
480-228767-1	MW-4
480-228767-2	MW-7
480-228767-3	MW-10
480-228767-4	MW-11
480-228767-5	MW-12
480-228767-6	MW-13
480-228767-7	MW-14
480-228767-8	MW-15
480-228767-9	MW-16
480-228767-10	Field Duplicate
480-228767-11	Trip Blank

**Table 2. Validation Qualifiers**

Sample ID	Analyte	Qualifier	Reason for qualification
MW-4 MW-7 MW-10 MW-12 MW-13 MW-14 MW-15 MW-16 Field Duplicate	Sulfide	UJ	Headspace in sample vials
All Samples	Ferrous Iron	J	Analyzed outside hold time

In summary, sample results were usable as reported. Qualified data should be used with caution.

The laboratory case narratives and sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report.

### Analytical Anomalies and Dilutions

MW-11 was diluted due to high VOC concentration target analytes. Reporting limits are elevated.

MW-10 was diluted due to high dissolved gases concentrations. Reporting limits are elevated.

### BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times were met and instrumental tune fragmentations were within acceptance ranges. Surrogate and internal standard recoveries were within required limits.

Laboratory and field-generated blanks reported no detections above reporting limit. Calibration standards show acceptable responses within analytical protocol and validation action limits.

The MS/MSD and BS/BSD recoveries were within criteria. Precision calculations showed that the recoveries were consistent, as RPDs were within expected ranges. Precision calculations for LCS/LCSD indicate good reproducibility. Surrogate recovery was within bounds, and LCS recoveries were compliant, and used to determine method efficacy.

## PAHs by EPA8270D/NYSDEC ASP

Holding times were met. Instrumental tune fragmentations were within acceptance ranges. Surrogate recoveries were within analytical and validation guidelines.

Blanks show no contamination.

Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines.

LCS/LCSD recovered within criteria. No qualifications are required.

The MS/MSD analyzed with the data is associated with the Sample location MW-13. Recoveries were within criteria. RPDs indicate good precision with the exception of benzo(b)fluoranthene exceeding the laboratory RPD maximum, but below the EPA maximum of 30%. No data is qualified. The analytes were non-detect in the sample, and the data are qualified as estimated non-detect with a possible low bias.

## Lead and Manganese by EPA 6010/NYDESC ASP

Holding times were met. Blank samples show no contamination above the reporting limit. LCS samples recovered within criteria. The matrix spike, post digestion spike, and serial dilutions were performed on MW-13 and recoveries and RPDs all fell within criteria.

There were no qualifications required.

## Wet Chemistry Tests and Total Cyanide by 9012B/ NYSDEC ASP

*Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples with the following exceptions:*

- CCB for alkalinity had a positive detection. All detections in site samples were greater than 10x the blank concentration and the data is unaffected.
- Sulfide samples had headspace in the vials. The following samples are affected, and data is considered estimated:
  - MW-4
  - MW-7
  - MW-10
  - MW-12
  - MW-13
  - MW-14
  - MW-15
  - MW-16
  - Field Duplicate
- Ferrous iron has a 15-minute hold time, as such, all laboratory data is derived past hold time.
- The method blanks for two batches contained Cyanide, Total above the reporting limit (RL). All detections in associated samples were greater than ten times the blank concentration; no qualification was required.

Calibration standard responses were compliant. Blanks show no detections above the reporting limits.

### **Ferrous Iron by S<3500-FeD-00/ NYSDEC ASP**

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, and accuracy and precision.

- Samples were prepared outside of hold time, and all sample data is qualified as estimated with an indeterminate bias.
- Ferrous Iron recovered low in the MS/MSD associated with MW-16. Data is qualified as estimated with a possible low bias.

All other compliance data were found acceptable for the validated samples.

Calibration standard responses were compliant. Blanks show no detections above the reporting limits.

### **Total Kjeldahl Nitrogen, Nitrogen as Nitrate/Nitrite by EPA 351.2 & 353.2/NYDESC ASP**

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, site-specific accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples.

Calibration standard responses were compliant.

### **Dissolved Gases by EPA RSK-175/NYDESC ASP**

Holding times were met, instrumental tune fragmentations were within acceptance ranges, surrogate recoveries were within analytical and validation guidelines. No dissolved gas blank showed contamination.

All LCS/LCSD and MS/MSD criteria were found acceptable for the validated samples. Calibration standard responses were compliant.

## Precision Calculations

Field duplicate correlations were within criteria for all analytes with >2x reporting limit detections.

### Data Precision

Field Identification	Analyte	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD (%)	Qualified
MW-14/FIELD DUP	Carbon Dioxide	2,700	24,000	11.8	A
	Methane	4.0	3.0J	--	A
	Manganese	0.29	0.60	69.7	A
	Lead	0.0047J	0.013	--	A
	Total Kjeldahl Nitrogen	0.56	0.65	14.9	A
	Cyanide, Total	0.077	0.077	--	A
	Sulfate	18.9	18.6	1.6	A
	Nitrate as N	0.36	0.3	18.2	A
	Alkalinity	328	336	2.4	A
	Ferrous Iron	0.16	0.16	--	A
	Chloride	4.6	4.9	6.3	A

A: Acceptable  
NC: Not calculated

### Data Package Completeness

Complete NYSDEC Category B deliverables were included in the laboratory data package, all information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.



Bonnie Janowiak, Ph.D., N.R.C.C.  
Principal Environmental Chemist  
202 North Main Street  
Kent Square North, Suite 200  
Blacksburg, VA 24060

## **VALIDATION DATA QUALIFIER DEFINITIONS**

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



# **Sample Summaries and Laboratory Case Narratives**

# Sample Summary

Client: Groundwater & Environmental Services Inc  
Project/Site: Johnstown Semi-Annual GW

Job ID: 480-228767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-228767-1	MW-4	Water	04/16/25 12:10	04/17/25 09:30
480-228767-2	MW-7	Water	04/16/25 12:05	04/17/25 09:30
480-228767-3	MW-10	Water	04/16/25 13:00	04/17/25 09:30
480-228767-4	MW-11	Water	04/16/25 10:30	04/17/25 09:30
480-228767-5	MW-12	Water	04/16/25 11:15	04/17/25 09:30
480-228767-6	MW-13	Water	04/16/25 10:35	04/17/25 09:30
480-228767-7	MW-14	Water	04/16/25 11:25	04/17/25 09:30
480-228767-8	MW-15	Water	04/16/25 10:20	04/17/25 09:30
480-228767-9	MW-16	Water	04/16/25 12:40	04/17/25 09:30
480-228767-10	Field Duplicate	Water	04/16/25 00:00	04/17/25 09:30
480-228767-11	Trip Blank	Water	04/16/25 00:00	04/17/25 09:30

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

# Case Narrative

Client: Groundwater & Environmental Services Inc  
Project: Johnstown Semi-Annual GW

Job ID: 480-228767-1

**Job ID: 480-228767-1**

**Eurofins Buffalo**

## Job Narrative 480-228767-1

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 4/17/2025 9:30 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 2.7°C, 2.9°C, 3.1°C and 3.2°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: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-11 (480-228767-4). Elevated reporting limits (RLs) are provided.

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

### GC VOA

Method RSK\_175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-10 (480-228767-3), MW-11 (480-228767-4) and MW-15 (480-228767-8). Elevated reporting limits (RLs) are provided.

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

### Metals

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

### General Chemistry

Method 2320B: The continuing calibration blank (CCB) for analytical batch 480-744263 contained Alkalinity above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 2320B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 480-744263 were outside control limits: MW-13 (480-228767-6), MW-13 (480-228767-6[MSJ]) and MW-13 (480-228767-6[MSD]). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 3500\_FE\_D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-4 (480-228767-1), MW-7 (480-228767-2), MW-10 (480-228767-3), MW-11 (480-228767-4), MW-12 (480-228767-5), MW-13 (480-228767-6), MW-13 (480-228767-6[MSJ]), MW-13 (480-228767-6[MSD]), MW-14 (480-228767-7), MW-15 (480-228767-8), MW-16 (480-228767-9) and Field Duplicate (480-228767-10).

Method 9012B\_NP: The continuing calibration blank (CCB) for analytical batch 480-744183 contained Cyanide, Total above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. MW-4 (480-228767-1), MW-7 (480-228767-2), MW-12 (480-228767-5), MW-15 (480-228767-8) and MW-16 (480-228767-9)

Method 9012B\_NP: The method blank for analytical batch 744183 contained Cyanide, Total above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of

Eurofins Buffalo

## Case Narrative

Client: Groundwater & Environmental Services Inc  
Project: Johnstown Semi-Annual GW

Job ID: 480-228767-1

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### Job ID: 480-228767-1 (Continued)

**Eurofins Buffalo**

samples were not performed. MW-4 (480-228767-1) and MW-12 (480-228767-5)

Method 9012B\_NP: The method blank for analytical batch 480-744183 contained Cyanide, Total above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. MW-7 (480-228767-2), MW-15 (480-228767-8) and MW-16 (480-228767-9)

Method SM4500\_S2\_F: The method requirement for no headspace was not met. The following samples were analyzed with headspace in the sample container(s): MW-4 (480-228767-1), MW-7 (480-228767-2), MW-10 (480-228767-3), MW-12 (480-228767-5), MW-13 (480-228767-6), MW-13 (480-228767-6[MS]), MW-13 (480-228767-6[MSD]), MW-14 (480-228767-7), MW-15 (480-228767-8), MW-16 (480-228767-9), Field Duplicate (480-228767-10) and (480-228767-F-7 DU).

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

Eurofins Buffalo

January 28, 2026

Mr. Michael Squire  
Remedial Bureau C, 11th Floor  
Division of Environmental Remediation  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-7014

**Re:** Johnstown (N. Market St.)  
Former Manufactured Gas Plant Site (MGP)  
Site # 518020  
Semi-Annual Groundwater Monitoring Report (January 2026)

Dear Mr. Squire:

Enclosed is the Semi-Annual Groundwater Monitoring Report for the Johnstown (N. Market St.) MGP Site located in Johnstown, New York. The report includes the groundwater monitoring results from October 8, 2025.

National Grid acknowledges the NYSDEC Fact sheet dated June 2016 approving the site's environmental remediation construction completion. Long-term OM&M activities are being conducted in accordance with the approved Site Management Plan (SMP) and the site's Environmental Easement.

National Grid is proposing a reduction in sampling frequency for the monitored natural attenuation parameters that are collected and analyzed as part of the semi-annual groundwater monitoring events. Currently, monitored natural attenuation samples are collected at the monitoring network for carbon dioxide, methane, ethane, ethene, manganese, , nitrate/nitrite, total Kjeldahl nitrogen, alkalinity, chloride, sulfide, ferrous iron, and sulfate. Since these parameters are used to evaluate long-term trends in groundwater quality over time and the groundwater monitoring program is anticipated to continue for the foreseeable future, the collection of these analytes during each semiannual sampling event is not necessary. Accordingly, National Grid proposes to reduce analysis of these parameters to a frequency of once every two years, alternating between the spring and fall seasons (i.e., natural attenuation sampling to be conducted in spring 2026, fall 2028, spring 2030, fall 2032, etc.). Sampling and analysis for the MGP site-related parameters (i.e., select volatile organic compounds, semi-volatile organic compounds, and cyanide) will continue semi-annually without change.

National Grid Johnstown – N. Market Street  
Former MGP Site  
Johnstown, New York  
Site #518020

Please let us know if the Department concurs with the proposed sampling reduction. We will await your response prior to making any adjustments in the groundwater sampling (note that this proposal does not impact the upcoming spring 2026 sampling event as all parameters will be collected as usual). Contact me at (315) 540-0829 or [Nicholas.Smith7@nationalgrid.com](mailto:Nicholas.Smith7@nationalgrid.com) if you have any questions regarding the report.

Sincerely,

A handwritten signature in black ink, appearing to read 'NAS' with a stylized flourish.

For NAS

Nicholas A. Smith, P.G.  
Senior Program Manager

Cc: Joseph Giordano - National Grid  
Nathan Freeman – NYSDOH  
Devin Shay - Groundwater & Environmental Services, Inc.

National Grid

# Semi-Annual Groundwater Monitoring Report



National Grid  
109 North Market Street  
Johnstown, NY 12095

January 2026

Version 1





## **Semi-Annual Groundwater Monitoring Report**

National Grid Johnstown Site  
109 North Market Street  
Johnstown, NY 12095

Prepared for:  
National Grid  
300 Erie Boulevard West, C-1  
Syracuse, NY 13202

Prepared by:  
Groundwater & Environmental Services, Inc.  
6780 Northern Boulevard, Suite 100  
East Syracuse, NY 13057  
TEL: 800-220-3069  
[www.gesonline.com](http://www.gesonline.com)

GES Project:  
0625050.120950.221

Date:  
January 28, 2026

A handwritten signature in black ink, appearing to read 'D. Shay', is positioned above a horizontal line.

---

Devin T. Shay, PG  
Program Manager / Principal Hydrogeologist



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## Acronyms

bgs	Below ground surface	MNA	Monitored Natural Attenuation
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes	NYSDEC	New York State Department of Environmental Conservation
COCs	Constituents of Concern	ORP	Oxidation-Reduction Potential
cu. ft.	Cubic feet	PAHs	Polycyclic Aromatic Hydrocarbons
DO	Dissolved Oxygen	PSA	Preliminary Site Assessment
DTB	Depth to Bottom	QA/QC	Quality Assurance / Quality Control
DTP	Depth to Product	RI	Remedial Investigation
DTW	Depth to Water	ROD	Record of Decision
DUSR	Data Usability Summary Report	SMP	Site Management Plan
Eurofins	Eurofins Environment Testing	SU	Standard Units
FS	Feasibility Study	SVOCs	Semi-Volatile Organic Compounds
GES	Groundwater & Environmental Services, Inc.	USEPA	United States Environmental Protection Agency
IRMs	Interim Remedial Measures	VOCs	Volatile Organic Compounds
mg/L	Milligrams per Liter	µg/L	Micrograms per Liter
MGP	Manufactured Gas Plant	WQ	Water Quality



# 1 Introduction

## 1.1 Overview

This Semi-Annual Groundwater Monitoring Report (the Report) summarizes the results of the October 2025 groundwater sampling event at the Johnstown, New York (North Market Street) Former Manufactured Gas Plant (MGP) Site (the Site). This Report was developed as part of the long-term groundwater monitoring program on behalf of National Grid.

National Grid has been addressing the Site environmental conditions under an Order on Consent (Index Number D0-0001-9210), dated April 1999, that was entered into by Niagara Mohawk and the New York State Department of Environmental Conservation (NYSDEC). That Order on Consent was for the investigation and remediation of 21 former MGP sites, including the Johnstown (North Market Street) Site. It was superseded by a new Order on Consent (Index Number A4-0473-0000), dated November 7, 2003. A NYSDEC-approved Supplemental Remedial Investigation (RI) Work Plan was finalized during November 2007, and a Final Supplemental RI Report was submitted to the NYSDEC, dated December 2008. The RI results report and subsequent Feasibility Study were approved in February 2010.

A Record of Decision (ROD) was issued by the NYSDEC, dated March 2010, in accordance with the requirements of New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, 6 NYCRR Part 375. Based upon the results of the remedial investigation/feasibility study (RI/FS) for the Site, the interim remedial measures (IRMs) previously completed, and the ROD, the draft Final Engineering Report and Site Management Plan (SMP) were developed and submitted to the NYSDEC in June 2010. The Final Engineering Report, the Final SMP, and the Final Environmental Easement were approved by the NYSDEC in their June 2016 Fact Sheet.

The Final SMP includes:

1. Semi-annual (April & October) site inspection and groundwater level measurements at monitoring wells MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, RW-1, and the creek surface gauging station (bridge);
2. Semi-annual groundwater sampling/analysis for Site Parameters [Benzene, Toluene, Ethylbenzene, Xylene (BTEX), Polycyclic Aromatic Hydrocarbons (PAHs), lead, and total cyanide] and Natural Attenuation Parameters [alkalinity, chloride, ethane, ethene, ferrous iron, manganese, methane, nitrate, nitrogen, sulfate and sulfide] at monitoring wells MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16 (RW-1 will not be sampled); and
3. Semi-annual reporting to NYSDEC.



## 1.2 Purpose and Objective

The purpose of this Report is to summarize the groundwater sampling activities and results of the latest event, and to compare the results to previous events. As described in the December 2008 Supplemental RI Report and the subsequent ROD, one of the primary goals is to evaluate whether or not the groundwater constituents of concern (COCs) concentrations have decreased, in addition to continued assessment of the effectiveness of monitored natural attenuation.

## 2 Background

### 2.1 Site Description

The Site is located in the City of Johnstown, County of Fulton, New York (**Figure 1** presents the site location map) and is identified as Block 14 and Lot 7 on the Johnstown City Tax Map. The Site is an approximate 0.7-acre area bounded by the Cayadutta Creek to the north, the Colonial Cemetery to the south, Market Street to the east, and a wooded parcel of property to the west (**Figure 2** presents the site plan). The Site is located in a mixed commercial, industrial, and residential area.

Currently, National Grid operates a natural gas regulator station at the Site with equipment contained in fenced enclosures along the Site's southern boundary. The rest of the Site is grass-covered, including the stream bank adjacent to Cayadutta Creek along the northern boundary of the Site. An embankment exists along the north end of the Site that slopes down to the Cayadutta Creek. A chain-link fence exists along the north and west sides of the Site, and a retaining wall runs along the south side of the Site. Access to the Site is from North Market Street to the east.

The Johnstown Hospital is located south of the Site within one mile, and numerous residences exist to the west and east of the Site. The Johnstown Senior High School and Warren Street Elementary School are located within one mile of the Site to the west.

### 2.2 Site History

The Johnstown MGP Site was incorporated in March 1857 as the Johnstown Gas Light Company. The company operated a small coal gas plant with a 20,000 cubic foot (cu. ft.) holder (Holder #1), that was constructed in 1859 (see Figure 2 for all Holder locations at the former MGP Site). In 1861, the plant was improved with the addition of a coal shed and a covering for the tank holder. In 1886, the Johnstown and Gloversville Gas Light Corporation was formed, and the company purchased the rights to the Lowe water gas process. The United Gas Improvement Company planned the construction of a water gas plant for the Johnstown and Gloversville franchises.

In 1887, the Site consisted of a tool shop, an office, a coal gasometer, a lime house, a purifier room, a retort house, and a coal shed. Between 1887 and 1918, Holder #2 was located in the western-central part of the Site (exact size unknown). In 1892, a steam generator was constructed adjacent to the coal shed for the Lowe water gas process, and Holder #1 was decommissioned in 1896. In 1898, a 72,000-cu. ft. gas holder (Holder #3) was constructed on the Site. Between



1912 and 1918, the small gas holder (Holder #2) in the western-central area of the Site was removed. In 1929, a gas pipeline from an MGP in Troy, New York, reached Johnstown, and local gas production was only performed on a seasonal (winter) basis until local production of gas ceased in 1931. Niagara Hudson Power Company was the owner of the Site in 1930. By 1948, Holder #3 was decommissioned. In 1950, Niagara Hudson Power was consolidated under the name Niagara Mohawk Power Company. By 1980, all Site buildings were removed. Currently, National Grid operates a natural gas regulator station at the Site.

### **2.2.1 Site Assessment and Investigations**

An investigation of the Site began in 1997 with a Preliminary Site Assessment (PSA), which found that the Site was impacted with MGP wastes. A Supplemental PSA was conducted at the Site in 1998, followed by a RI in January 2000 and subsequent IRMs. The IRMs are discussed separately within this section.

A 2009 Supplemental RI was initiated to collect data to address potential residual MGP-related contaminants remaining in groundwater at the Site and to assess hydrogeologic conditions and groundwater quality on the Site. The results of the Supplemental RI were used to formulate potential remedial alternatives for groundwater and residual soil contamination. The Supplemental RI results were evaluated and presented in the 2010 Feasibility Study Report.

### **2.2.2 Interim Remedial Measures Completed**

Several IRMs were performed to address the residual MGP impacts. In 2002 and 2003, the former holders and associated impacted soil were removed. During this IRM, former Holder #2 and the northern half of former Holder #3 were demolished and removed from the Site. Approximately 13,870 cubic yards of soil were excavated and disposed of off-site at a NYSDEC-approved facility. Permanent steel sheeting was left in place along the northeastern perimeter of the Site to avoid disturbance of the roadway and to provide containment of residual material left at depth.

Between 2005 and 2006, National Grid provided support to the City of Johnstown for subsurface work associated with the replacement of the North Market Street Bridge across Cayadutta Creek. Approximately 1,413 cubic yards of impacted soil were excavated from within the cofferdam area and disposed of off-site at a NYSDEC-approved facility.

In August 2009, the rip-rap area along the bank of Cayadutta Creek that had been restored during the previous IRMs was enhanced to allow for establishment of stream-side vegetation. Post-IRM inspections of the restored Cayadutta Creek bank were conducted in September 2009 and May 2010.

## **2.3 Environmental Setting**

The Johnstown (North Market Street) Site slopes northward toward Cayadutta Creek with elevations ranging from 652 to 672 feet (ft.) above sea level. Currently, the Site topography gradually slopes from south to north, becoming increasingly steeper adjacent to the Creek, and is generally covered with either vegetation or stone. Surface drainage is primarily to the north into



the creek. Access to the Site is from North Market Street to the east, and the Site is currently used to support the natural gas regulator station operations.

### **2.3.1 Site Geology**

The main units of unconsolidated deposits identified at the Site can be characterized in descending order as fill and native glacial deposits to bedrock. The glacial deposits are of lacustrine origin with glacial tills to the top of shale bedrock (Utica Shale). Bedrock was reached beneath the till in two soil borings explored during the 1998 Supplemental PSA. These stratigraphic units are more specifically described below, based on information obtained from the previous investigations and from the soil borings and monitoring well borings conducted during the 2007/ 2008 SRI.

Site geology includes a layer of disturbed soils (primarily fill) overlying glacial deposits. Based upon on-site soils and monitoring well borings, disturbed soils (including fills) varied in thickness up to 13 ft. and are typically composed of sand, gravel, silt, clay, wood, coal, and anthropogenic materials including ash, cinders, clinkers, brick fragments, wire, and wood chips. Wood chips were identified in three borings (SB-09, SB-12, and MW-8) and are often associated with purifier waste.

A thin layer of peat underlies the disturbed soils in the northern portion of the Site, ranging in thickness from 0.5 ft. to 3 ft., and appears to thicken and dip to the north. Except where it is locally covered by sedimentary deposits such as silts, sands, and clays, the peat, where present, appears to have been the historical ground cover prior to development of the Site.

Underlying the peat, where present, the soil consists of lacustrine deposits composed of silts, sands, and clays. The surface of the lacustrine deposits appears to dip and thin out toward the north. A sand and gravel unit (an outwash deposit of stratified drift) underlies the lacustrine deposits across the Site area. This unit contains varying amounts of silt and clay. These deposits overlie a dense, low-permeability glacial till to bedrock (Shale).

### **2.3.2 Site Hydrogeology**

Groundwater is generally encountered in the glacial deposits below the bottom of the fill material at on-site depths in the 10- to 20-foot below ground surface (bgs) range. Groundwater flow is northward across the Site area toward Cayadutta Creek, with the steepest gradient from the center of the Site proximal to former gas holders #2 and #3 to the southern Creek bank (about 0.09 ft./ft.). In comparison, the average hydraulic gradient decreases to a value of approximately 0.05 ft./ft. on the east and west sides of the Site away from the former gas holders. The local groundwater flow is consistent with regional groundwater flow direction. The groundwater flow direction and hydraulic gradients calculated during this monitoring period are also generally consistent with historical data obtained prior to the issuance of the ROD.



### 3 Monitoring Activities

The long-term semi-annual groundwater monitoring program currently consists of the following elements:

- Semi-Annual Site Inspection including the creek bank protection, vegetative cover, monitoring wells, and security fence.
- Semi-Annual Groundwater Well Gauging of the following wells: RW-1, MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and MW-16 (Figure 2 presents the well locations). The creek surface water level is also gauged at one location: SG-1.
- Semi-Annual Groundwater Sampling and Analysis of the following: MW-4, MW-7, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and MW-16. Note that recovery well RW-1 is not sampled as part of the program but is inspected for the presence of non-aqueous phase liquids (NAPL).

#### 3.1 Groundwater Gauging and Sampling Procedures

##### 3.1.1 Gauging

Long-term groundwater monitoring includes water level gauging at nine (9) groundwater monitoring wells and one (1) groundwater recovery well using an electronic oil/water interface probe. Depth to bottom of well (DTB), depth to product (DTP), and depth to water (DTW) are to be recorded at each well. Refer to **Table 2** for a summary of the water level measurements from October 2025 as well as previous events. **Appendix A** also presents the field documentation from the October 2025 water gauging event.

No product was present in recovery well RW-1 or the other nine (9) groundwater monitoring wells that were gauged.

A creek surface water level measurement was collected from the Cayadutta Creek Bridge using a water level probe (from the surveyed gauging point at the bridge).

##### 3.1.2 Sampling

Groundwater sampling was performed following low-flow sampling techniques [equivalent to United States Environmental Protection Agency (USEPA) low-flow procedures] using a pressure-driven peristaltic pump. During purging, measurements were collected for the following field parameters: pH, specific conductivity, turbidity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP). A Horiba U-22 was used to collect the field parameter data in a flow-through cell. The monitored field parameters are observed and recorded during low-flow sampling to determine when they have stabilized, and thus when the well has been adequately purged. Field parameter measurements were recorded at approximately 5-minute intervals. The monitoring wells were purged until stabilization of the field parameters ( $\pm 0.1$  Standard Unit (SU) for pH,  $\pm 3\%$  for specific conductivity,  $\pm 10$  millivolts (mV) for ORP, and  $\pm 10\%$  for DO) and turbidity was less than 50 Nephelometric Turbidity Units (NTU). Refer to **Attachment A** for the field data.

After stabilization of the field parameters, nine groundwater samples were collected directly from the dedicated tubing into laboratory-supplied sample containers (pre-preserved as required per the analytical method). Quality Assurance/Quality Control (QA/QC) samples included the collection of one field duplicate sample, one matrix spike (MS) sample, one duplicate matrix spike (DMS) sample, and one trip blank sample (VOCs only). Samples were transported to the laboratory, accompanied by the appropriate chain-of-custody documentation. Analytical results were validated.

### 3.1.3 Natural Attenuation Parameters

The ORP of groundwater may be used as a general indicator of the dominant attenuation processes and the relative tendency of the biological processes to accept or transfer electrons. ORP is dependent on and influences rates of biodegradation. Lower ORP readings indicate reduced conditions and are indicative of anaerobic biologic degradation processes.

The pH of the groundwater affects the presence and activity of microorganisms in the groundwater. The microorganisms may produce either organic acids or carbon dioxide which, when dissolved in water, forms weak carbonic acid. Microorganisms capable of degrading petroleum hydrocarbons are most active with pH values ranging from 6 to 8 SU.

Groundwater temperature affects the solubility of dissolved gases such as oxygen and carbon dioxide as well as the metabolic activity of microorganisms. Oxygen is less soluble in warm water, and groundwater temperatures below approximately 5 degrees Celsius tend to inhibit biodegradation.

DO is the most thermodynamically favored electron acceptor used by microorganisms during the degradation of both natural and anthropogenic organic carbon. An inverse relationship of high hydrocarbon concentrations and low DO concentrations can be used as a key indicator of biodegradation.

Nitrate, if available, may be used as an electron acceptor for anaerobic biodegradation after the depletion of DO [typically considered less than 0.5 milligrams per liter (mg/L)] and is used to biodegrade petroleum hydrocarbons. Lower nitrate concentrations in groundwater within a plume, with respect to higher concentrations in areas upgradient and outside a plume, may be expected.

Ferrous iron is a metabolic byproduct of hydrocarbon degradation. Reducing conditions in nitrogen- and oxygen-depleted groundwater creates an anaerobic environment that causes the reduction of ferric iron ( $Fe^{3+}$ ) to ferrous iron ( $Fe^{2+}$ ). Relatively low ferrous iron concentrations may be present in areas where natural attenuation is occurring if free ferrous iron is re-precipitating as sulfides or carbonates.

Sulfate may be used as an electron acceptor after the depletion or use limitation of DO, nitrate, and ferric iron. Lower sulfate concentrations in groundwater within a plume, with respect to higher concentrations in areas upgradient and outside a plume, may be expected.

The production of methane, termed methanogenesis, occurs only in strongly reducing conditions and generally after oxygen, nitrate, and sulfate have been depleted. The presence of methane in



groundwater suggests Benzene, Toluene, Ethylbenzene, Xylene (BTEX) degradation via methanogenesis. Methane is not present in fuels, and therefore its presence at high concentrations relative to areas upgradient and outside a plume is indicative of the biodegradation of petroleum hydrocarbons.

The buffering capacity of groundwater is a function of alkalinity. Typically, alkalinity is primarily due to carbonate alkalinity. The organic acids or carbon dioxide (which produces a weak carbonic acid when dissolved in water) produced by biodegradation solubilize carbonate from the soil. Alkalinity concentrations that are elevated with respect to areas upgradient and outside a plume may be an indication of microbial activity and thus natural attenuation.

Typically, the relationships between BTEX and electron acceptors/metabolic byproduct concentrations (geochemical indicators) indicate potential for biodegradation. The concentrations are dependent on the location (and groundwater conditions) within the plume or outside of the plume limits.

### **3.2 Groundwater Analytical Results**

The groundwater samples were analyzed for BTEX, Polycyclic Aromatic Hydrocarbons (PAHs), lead, total cyanide, and monitored natural attenuation/water quality (MNA/WQ) parameters including alkalinity, chloride, ethane, ethene, ferrous iron, manganese, methane, nitrate, nitrogen, sulfate and sulfide. BTEX, PAHs, and cyanide are constituents commonly associated with former MGP sites. BTEX, PAHs, lead, and cyanide were the primary contaminants detected during previous investigation activities conducted at the Site. The MNA/WQ parameters, as well as field-measured ORP, pH, temperature, and DO, are relevant to establishing whether conditions are favorable for natural attenuation to occur at the Site.

- Refer to Table 3 for the analytical results summary.
- Refer to Appendix A for field data.
- Refer to Appendix B for the data usability summary report (DUSR).

Groundwater analytical results were compared with levels specified in the NYSDEC Division of Water Final Amendment to Water Quality Standards Regulations, effective February 16, 2008 [hereafter referred to as NYSDEC WQ Values]. For groundwater, Class GA values were applied. Class GA waters are defined as fresh groundwater, found in the saturated zone of unconsolidated deposits and consolidated rock or bedrock, which are used as a source of potable water supply.

### 3.2.1 Site Related Parameters

**BTEX** - Groundwater samples collected on October 8, 2025, from monitoring wells MW-11, MW-13, MW-15, and MW-16 contained concentrations of some or all individual BTEX constituents above their respective NYSDEC WQ Values [1 microgram per liter ( $\mu\text{g/L}$ ) for benzene and 5  $\mu\text{g/L}$  for other BTEX constituents]. The highest concentrations of BTEX were observed in the groundwater samples collected from monitoring well MW-15, located northeast of former gas holder #2.

**PAHs** – PAHs above NYSDEC WQ Values were detected in samples collected on October 8, 2025, from monitoring wells MW-11, MW-12, MW-13, MW-15, and MW-16. Naphthalene has typically been detected at the highest level of any PAH; the highest concentration was observed at well MW-13, located between former gas holders #2 and #3.

**Cyanide** – Cyanide was detected in eight of the nine groundwater samples collected on October 8, 2025. Concentrations of cyanide were at or below the NYSDEC WQ Value (0.2 mg/L) in all samples, with the exception of monitoring wells MW-14 (0.34 mg/L) and MW-15 (0.71 mg/L).

**Lead** – Lead was detected at wells MW-12, and MW-14, at laboratory estimated concentrations below the NYSDEC WQ value of 25  $\mu\text{g/L}$ .

### 3.2.2 Monitored Natural Attenuation Parameters

Site-specific levels of the MNA/WQ parameters (geochemical indicators) were compared to known screening values to identify whether the site-specific values are within the ranges known to be suitable for biodegradation. The October 2025 MNA/WQ analytical results for the individual monitoring wells are summarized in **Table 3**. **Figure 4** presents the groundwater data for the key MNA data parameters at their respective locations to assist with the MNA evaluation. Indications of biodegradation of petroleum-related MGP constituents within the plume include low levels of DO, nitrate and sulfate, with generally higher levels of manganese, ferrous iron and methane.

Indicator concentrations detected at monitoring wells identified within source and downgradient areas of the Site were compared to levels detected at upgradient and side gradient monitoring wells exhibiting little or no MGP-related contamination. Generally, indicator concentration levels at a distance from the center of the plume are expected to be significantly lower than levels within the plume. A summary of the MNA/WQ results and associated field indicator parameters are provided below:

- DO and ORP values demonstrate depleted levels of DO and a transformation to more anaerobic or reducing conditions at the former source and downgradient areas relative to side gradient (MW-12) and upgradient areas (MW-4) of the Site. These values suggest that biodegradation of MGP petroleum-related compounds at the source and at downgradient areas are occurring, consuming the available oxygen which produces decreased DO levels.
- The range of ORP levels observed at the source and downgradient area monitoring wells generally indicates reduced aquifer conditions which could be suitable for denitrification, ferric iron reduction, sulfate reduction, and methanogenesis.



- Nitrate concentrations are generally depleted at the former source and downgradient areas of the Site relative to upgradient (MW-4) and side gradient (MW-12) areas, indicating denitrification may be a noteworthy biodegradation process occurring at this time at the source and downgradient areas.
- Ferrous iron concentrations measured across the site during this monitoring event did not exhibit any spatial trends indicative of biodegradation processes.
- Sulfate concentrations at the former source and downgradient areas are not depleted relative to upgradient and side gradient areas. This observation indicates sulfate reduction is not likely to be a significant biodegradation process at this time at the source and downgradient areas.
- Based on the presence of methane, low DO concentrations, and the reduced ORP levels, methanogenesis is likely an important factor for biodegradation capacity in the source and downgradient areas of the Site.

### 3.2.3 Natural Attenuation Trending

Previous groundwater sampling data collected since April 2013 (the dataset) were utilized to develop and evaluate the contaminant plume and concentration trends of specific constituents at the Site. Plume size and concentration data are indicative of biodegradation capacity (natural attenuation) at the Site and whether the capacity has reached a limit of effectiveness. In order to determine and evaluate natural attenuation effectiveness, statistical testing was utilized for groundwater data collected from monitoring wells at the Site. The Mann-Kendall test was performed on the dataset to identify potential trends in groundwater concentrations of site contaminants. The Mann-Kendall test is a nonparametric evaluation used to identify a trend in a series, even if there is a seasonal component in the series. The three possible hypotheses are that there is a negative, null, or positive trend. In order to apply the statistical analysis, a simple substitution of one-half the laboratory reporting limit was used, for concentrations reported as less than the laboratory reporting limit. The resultant statistical analysis for individual monitoring wells for BTEX compounds and naphthalene concentrations included stable, no trend, decreasing, probably decreasing, increasing or probably increasing throughout the monitoring period. Probably increasing or probably decreasing trends are determined where the confidence in a concentration trend is below 95% but greater than or equal to 90%. It is worth noting that a failure to reject the null hypothesis (i.e., “no trend”) does not prove that there is no trend; it merely means that the available data is not sufficient to conclude there is a discernible increasing or decreasing trend.

The table below depicts the general concentration trend analysis results for each well and associated constituents during the monitoring period.



**Table 1 – Contaminant Trend Analysis**

Well ID	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
MW-4	Stable	Stable	Stable	Stable	No Trend
MW-7	Stable	Stable	Stable	Stable	No Trend
MW-10	Probably Increasing	Stable	Stable	Stable	No Trend
MW-11	No Trend	No Trend	Stable	No Trend	Decreasing
MW-12	Stable	Stable	Stable	Stable	No Trend
MW-13	Decreasing	Decreasing	Decreasing	Decreasing	Probably Decreasing
MW-14	Stable	No Trend	No Trend	No Trend	No Trend
MW-15	Decreasing	Stable	Stable	Stable	Probably Increasing
MW-16	Decreasing	Decreasing	Decreasing	No Trend	Increasing

The lower confidence factor resulting in no trend is often due to the variability in the concentrations. For the five (5) monitoring wells with no trend for naphthalene, the one-half laboratory reporting limit in 2024 and 2025 used for the statistical analysis was greater than the historic one-half laboratory reporting limits and/or the detected concentrations observed in the individual monitoring wells causing the output of the analysis to be skewed. A comparison of the dataset to the historical highs and lows was then performed to determine if the plume is stable; in every case, this evaluation concluded the plume is stable. The variability in the contaminant trend results in monitoring well MW-11 is due to the gap in time (2018-2024) where the well was not sampled.

Isoconcentration contour maps were developed for total BTEX (**Figure 5**) and naphthalene (**Figure 6**) contamination. The figures present locations of the groundwater monitoring wells and plume contours for total BTEX (as compared to the benzene WQ value of 1 µg/L) and naphthalene exceeding the NYSDEC WQ values. Evaluation of the isoconcentration figures suggests that the contaminant plumes were relatively stable to decreasing (smaller footprint with time) within the Site boundary. BTEX constituent plume trends (concentrations above the benzene WQ value of 1 µg/L) have consistently included monitoring wells MW-11, MW-13, MW-15, and MW-16. The naphthalene plume (concentrations above the WQ) currently includes monitoring wells MW-13, MW-15, and MW-16.

## 4 Conclusions and Recommendations

### 4.1 Conclusions

#### 4.1.1 Groundwater Levels

The groundwater elevation data indicates groundwater within the Site flows from the south to the north, toward Cayadutta Creek. The groundwater flow direction has been consistent during



previous gauging events and with data obtained prior to the ROD. **Figure 3** is a groundwater monitoring map verifying groundwater flow direction.

#### 4.1.2 Site-Related Constituents

The highest concentrations of BTEX constituents and PAH compounds are at wells MW-13, MW-15, and MW-16. All detected BTEX and PAH concentrations were within or near historical concentrations ranges. Site institutional controls continue to be effective and will continue to be monitored semi-annually.

There are minimal concentrations of lead in groundwater samples; however, lead was detected in well MW-12 for the first time since 2014 (at an estimated concentration well below the NYSDEC WQ value). Cyanide has been detected consistently in most wells, the October 2025 concentrations were within historical concentrations ranges.

#### 4.1.3 Natural Attenuation

Plume stability at the Site is an indication that biodegradation capacity likely has not reached its limit of effectiveness. The use of statistical testing has identified the plume trends based on the constituent concentrations were typically either stable or decreasing. At wells MW-15 and MW-16, the Mann Kendall test indicates that naphthalene is increasing over time, however current groundwater concentrations at each location are consistent with the results obtained over 10 years of monitoring. At well MW-10, the Mann Kendall test indicates that benzene is increasing over time, however the groundwater concentrations have historically been below reporting limits or less than 2 µg/L.

### 4.2 Recommendations

Based on the results of the October 2025 groundwater sampling and monitoring event and results from previous events, it is recommended to continue the long-term semi-annual site inspection and groundwater monitoring program. The next event will occur in April 2026.

National Grid proposes to reduce the sampling frequency for the monitored natural attenuation parameters that are collected and analyzed as part of the semi-annual groundwater monitoring events. Since these parameters are used to evaluate long-term trends in groundwater quality over time and the groundwater monitoring program is anticipated to continue for the foreseeable future, the collection of these analytes during each semiannual sampling event is not necessary. Accordingly, National Grid proposes to reduce analysis of these parameters to a frequency of once every two years, alternating between the spring and fall seasons to allow for continued collection of data to be evaluated for seasonal trends (i.e., natural attenuation sampling will be conducted during the next sampling event in spring 2026, then in fall 2028, spring 2030, fall 2032, etc.).

Sampling and analysis for the MGP site-related parameters (i.e., select volatile organic compounds, semi-volatile organic compounds, lead, and cyanide) will continue semi-annually without change.



Upon approval of this proposed modification by NYSDEC, National Grid will prepare and submit an addendum to the SMP describing the groundwater sampling program schedule modification.

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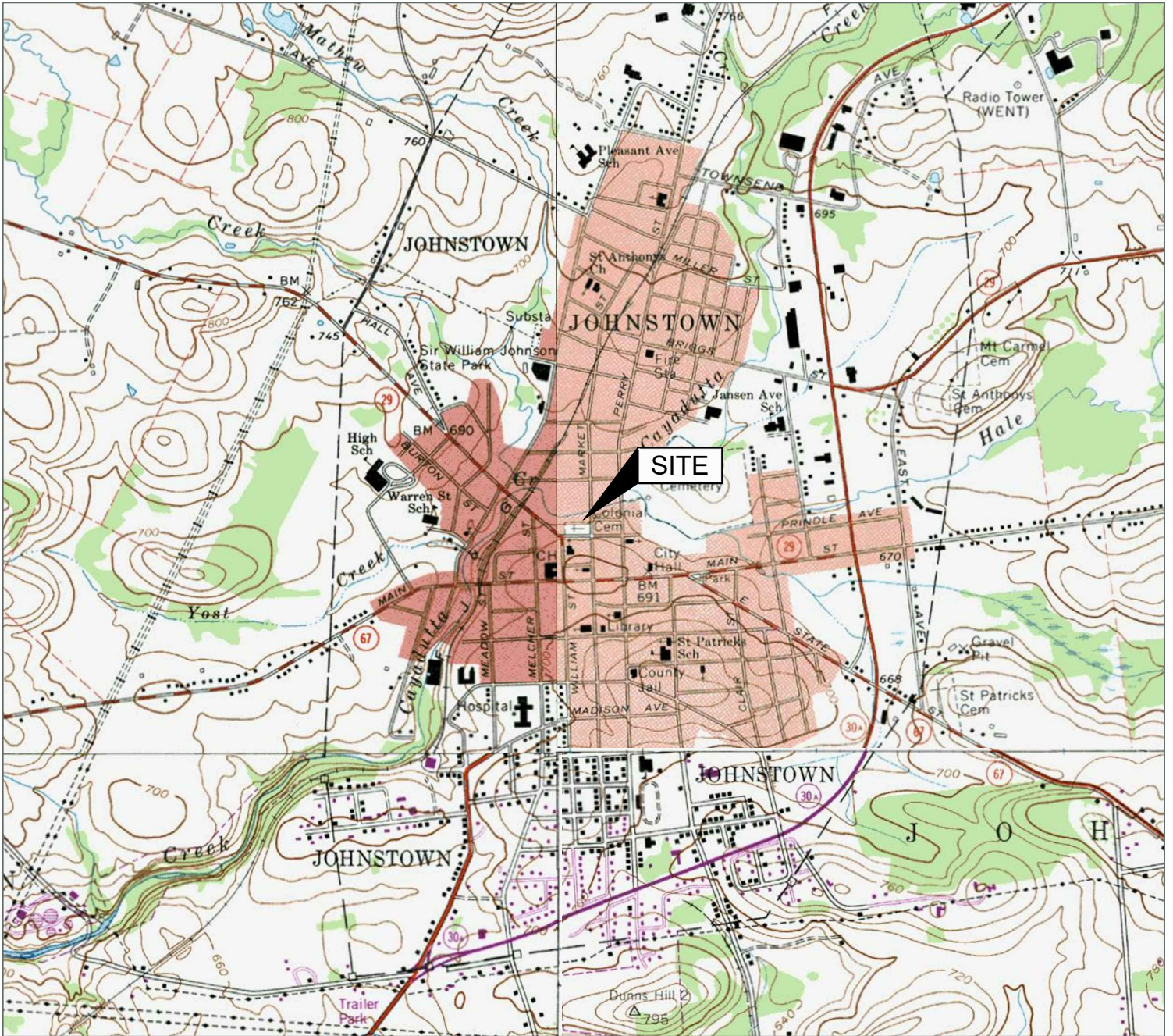
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## Figures

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Source:  
 USGS 7.5 Minute Series  
 Topographic Quadrangle, 1970  
 Gloversville, New York  
 Contour Interval = 20'



Site Location Map

National Grid  
 Former MGP Site  
 105 N Market Street  
 Johnstown, New York

Drawn  
 W.G.S.  
 Designed  
 Approved

Date  
 11/15/19  
 Figure  
 1



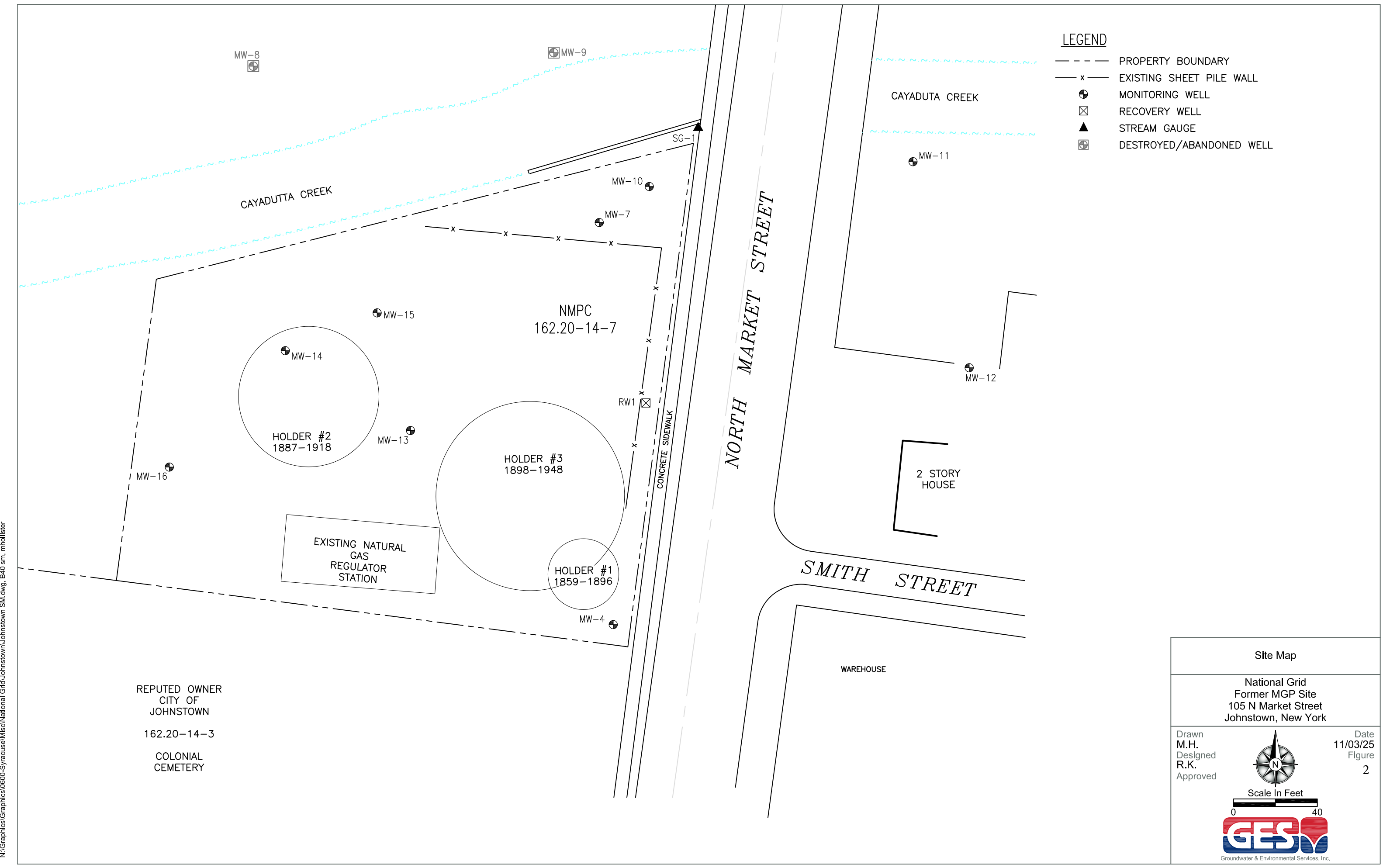
Scale In Feet



Groundwater & Environmental Services, Inc.

**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- ⊕ MONITORING WELL
- ⊠ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊕ DESTROYED/ABANDONED WELL

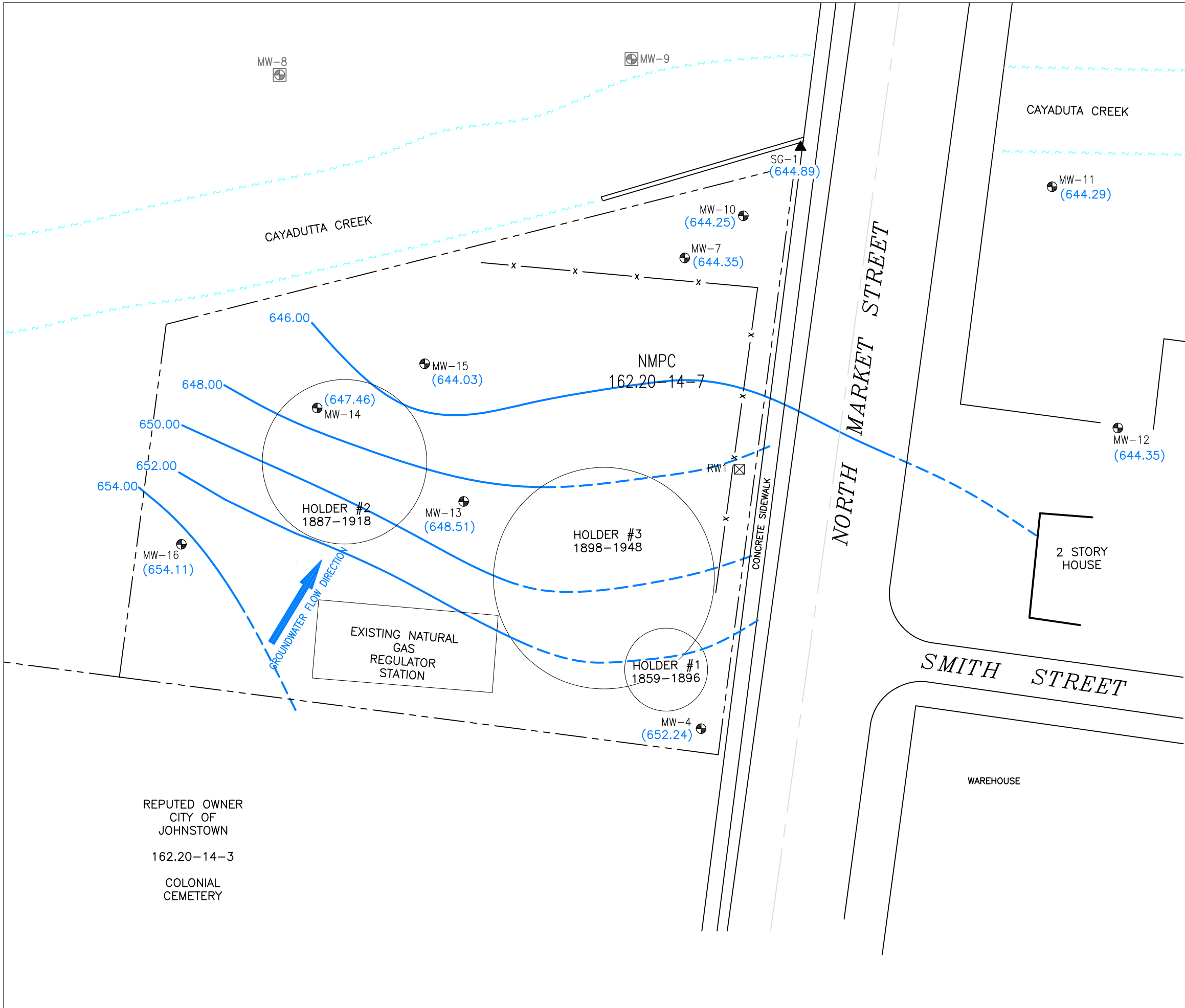


REPUTED OWNER  
CITY OF  
JOHNSTOWN  
  
162.20-14-3  
  
COLONIAL  
CEMETERY

<b>Site Map</b>	
National Grid Former MGP Site 105 N Market Street Johnstown, New York	
Drawn M.H. Designed R.K. Approved	Date 11/03/25 Figure 2
 Scale In Feet 	
 Groundwater & Environmental Services, Inc.	

**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- MONITORING WELL
- ⊠ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊠ DESTROYED/ABANDONED WELL
- (652.24) GROUNDWATER ELEVATION (feet)
- ~ GROUNDWATER CONTOUR (feet)
- - - GROUNDWATER CONTOUR DASHED WHERE INFERRED



REPUTED OWNER  
CITY OF  
JOHNSTOWN  
162.20-14-3  
COLONIAL  
CEMETERY

Groundwater Monitoring Map October 8, 2025	
National Grid Former MGP Site 105 N Market Street Johnstown, New York	
Drawn M.H.	Date 11/03/25
Designed R.K.	Figure 3
Approved	
 Scale In Feet 	
 <small>Groundwater &amp; Environmental Services, Inc.</small>	

**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- MONITORING WELL
- ⊠ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊕ DESTROYED/ABANDONED WELL
- μg/L MICROGRAMS PER LITER
- mg/L MILLIGRAMS PER LITER
- J ESTIMATED CONCENTRATION
- ND(#) WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN

**MW-7**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	404
CHLORIDE	mg/L	67.5
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	0.37
METHANE	μg/L	90
NITRATE	mg/L	0.029 J
NITROGEN	mg/L	1.6
SULFATE	mg/L	241
SULFIDE	mg/L	ND(<1.0)

**MW-15**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	632
CHLORIDE	mg/L	67.5
ETHANE	μg/L	3.6 J
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	0.090 J
MANGANESE	mg/L	0.37
METHANE	μg/L	2,200
NITRATE	mg/L	0.020 J
NITROGEN	mg/L	3.8
SULFATE	mg/L	107
SULFIDE	mg/L	ND(<1.0)

**MW-14**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	446
CHLORIDE	mg/L	15.3
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	1.1
METHANE	μg/L	640
NITRATE	mg/L	0.027 J
NITROGEN	mg/L	1.80
SULFATE	mg/L	159.0
SULFIDE	mg/L	ND(<1.0)

**MW-16**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	726
CHLORIDE	mg/L	5.2
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	0.19
MANGANESE	mg/L	0.63
METHANE	μg/L	1,100
NITRATE	mg/L	0.081
NITROGEN	mg/L	3.4
SULFATE	mg/L	29.4
SULFIDE	mg/L	ND(<1.0)

**MW-13**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	370
CHLORIDE	mg/L	10.7
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	0.16
MANGANESE	mg/L	0.056
METHANE	μg/L	320
NITRATE	mg/L	ND(<0.050)
NITROGEN	mg/L	0.69
SULFATE	mg/L	2.4 J
SULFIDE	mg/L	ND(<1.0)

**MW-4**  
10/8/28

ALKALINITY(as CaCO3)	mg/L	464
CHLORIDE	mg/L	230
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	ND(<0.0030)
METHANE	μg/L	ND(<4.0)
NITRATE	mg/L	3.5
NITROGEN	mg/L	ND(<0.20)
SULFATE	mg/L	30.1
SULFIDE	mg/L	ND(<1.0)

**MW-11**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	484
CHLORIDE	mg/L	829
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	1.0
METHANE	μg/L	890
NITRATE	mg/L	ND(<0.50)
NITROGEN	mg/L	1.5
SULFATE	mg/L	22.9
SULFIDE	mg/L	ND(<1.0)

**MW-12**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	354
CHLORIDE	mg/L	1,420
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	0.18
METHANE	μg/L	ND(<4.0)
NITRATE	mg/L	1.7
NITROGEN	mg/L	0.49
SULFATE	mg/L	32.5
SULFIDE	mg/L	ND(<1.0)

**MW-10**  
10/8/25

ALKALINITY(as CaCO3)	mg/L	610
CHLORIDE	mg/L	529
ETHANE	μg/L	ND(<7.5)
ETHENE	μg/L	ND(<7.0)
FERROUS IRON	mg/L	ND(<0.10)
MANGANESE	mg/L	1.3
METHANE	μg/L	3,200
NITRATE	mg/L	ND(<0.050)
NITROGEN	mg/L	3.9
SULFATE	mg/L	1.5 J
SULFIDE	mg/L	ND(<1.0)

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REPUTED OWNER  
CITY OF  
JOHNSTOWN  
162.20-14-3  
COLONIAL  
CEMETERY




**Natural Attenuation Map**  
October 8, 2025

National Grid  
Former MGP Site  
105 N Market Street  
Johnstown, New York

Drawn <b>M.H.</b>	Date 11/03/25
Designed <b>R.K.</b>	Figure 4
Approved	



Scale In Feet

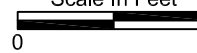
Groundwater & Environmental Services, Inc.

**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- MONITORING WELL
- ⊠ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊠ DESTROYED/ABANDONED WELL
- - - BTEX CONTOUR (μg/L)  
CONTOUR DASHED WHERE INFERRED
- (411) BTEX CONCENTRATION (μg/L)
- BTEX BENZENE, TOLUENE,  
ETHYLBENZENE, XYLENES
- μg/L MICROGRAMS PER LITER
- ND NOT DETECTED



REPUTED OWNER  
CITY OF  
JOHNSTOWN  
  
162.20-14-3  
  
COLONIAL  
CEMETERY

<p><b>BTEX Concentration Map</b> October 8, 2025</p>	
<p>National Grid Former MGP Site 105 N Market Street Johnstown, New York</p>	
<p>Drawn M.H. Designed R.K. Approved</p>	<p>Date 11/03/25 Figure 5</p>
 <p>Scale In Feet</p> 	
 <p>Groundwater &amp; Environmental Services, Inc.</p>	

**LEGEND**

- PROPERTY BOUNDARY
- x - EXISTING SHEET PILE WALL
- ⊕ MONITORING WELL
- ⊠ RECOVERY WELL
- ▲ STREAM GAUGE
- ⊕ DESTROYED/ABANDONED WELL
- - - NAPHTHALENE CONTOUR (µg/L)  
CONTOUR DASHED WHERE INFERRED
- (840) NAPHTHALENE CONCENTRATION (µg/L)
- µg/L MICROGRAMS PER LITER
- ND NOT DETECTED
- J ESTIMATED CONCENTRATION



REPUTED OWNER  
CITY OF  
JOHNSTOWN  
  
162.20-14-3  
  
COLONIAL  
CEMETERY

**Naphthalene Concentration Map**  
October 8, 2025

National Grid  
Former MGP Site  
105 N Market Street  
Johnstown, New York

Drawn M.H. Designed R.K. Approved	Date 11/03/25 Figure 6
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Scale In Feet




Groundwater & Environmental Services, Inc.

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## Tables

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**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	6/30/2010		9/29/2010		1/5/2011		4/8/2011		6/16/2011		10/13/2011		12/15/2011	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	23.10	653.44	23.41	653.13	22.95	653.59	22.50	654.04	22.04	654.50	21.41	655.13	22.78	653.76
MW-7	659.08	14.25	644.83	13.18	645.90	13.88	645.20	12.87	646.21	13.80	645.28	13.15	645.93	15.45	643.63
MW-10	657.59	14.80	642.79	14.60	642.99	14.75	642.84	14.09	643.50	14.77	642.82	14.11	643.48	14.22	643.37
MW-11	657.29	NM	NM	13.57	643.72	13.59	643.70	12.51	644.78	13.38	643.91	12.95	644.34	12.76	644.53
MW-12	660.08	NM	NM	NM	NM	15.06	645.02	NM	NM	NM	NM	13.61	646.47	14.54	645.54
MW-13	664.89	14.65	650.24	15.22	649.67	14.95	649.94	11.18	653.71	13.99	650.90	11.91	652.98	14.31	650.58
MW-14	663.91	13.50	650.41	14.46	649.45	14.28	649.63	12.86	651.05	13.65	650.26	13.26	650.65	13.65	650.26
MW-15	661.85	16.90	644.95	17.24	644.61	17.68	644.17	15.07	646.78	16.63	645.22	15.95	645.90	16.38	645.47
MW-16	665.57	9.70	655.87	10.19	655.38	12.33	653.24	11.00	654.57	10.50	655.07	9.79	655.78	9.91	655.66
RW-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GAUGE1	659.97	15.07	644.90	20.20	639.77	16.30	643.67	15.75	644.22	16.75	643.22	16.05	643.92	15.62	644.35

ft AMSL = Feet above mean sea level  
 ft TOC = Feet from top of inner casing  
 GW = Groundwater  
 NM = Not measured  
 NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	3/15/2012		10/9/2012		4/18/2013		10/7/2013		4/9/2014		10/13/2014		4/16/2015	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	22.81	653.73	NM	NM	23.97	652.57	23.12	653.42	23.28	653.26	23.28	653.26	22.91	653.63
MW-7	659.08	13.55	645.53	14.17	644.91	13.53	645.55	14.36	644.72	13.71	645.37	14.61	644.47	13.23	645.85
MW-10	657.59	14.18	643.41	15.05	642.54	14.27	643.32	14.44	643.15	14.13	643.46	14.98	642.61	14.15	643.44
MW-11	657.29	12.73	644.56	13.95	643.34	13.01	644.28	13.16	644.13	12.68	644.61	13.71	643.58	12.62	644.67
MW-12	660.08	14.26	645.82	16.36	643.72	14.06	646.02	14.99	645.09	14.41	645.67	15.65	644.43	14.25	645.83
MW-13	664.89	14.98	649.91	16.12	648.77	14.18	650.71	15.08	649.81	14.84	650.05	15.53	649.36	11.34	653.55
MW-14	663.91	15.49	648.42	16.98	646.93	13.14	650.77	14.74	649.17	15.70	648.21	15.02	648.89	13.06	650.85
MW-15	661.85	16.41	645.44	17.85	644.00	16.26	645.59	17.21	644.64	16.67	645.18	17.55	644.30	15.31	646.54
MW-16	665.57	11.56	654.01	10.51	655.06	9.98	655.59	9.85	655.72	9.45	656.12	10.24	655.33	10.48	655.09
RW-1	-	-	-	17.98	-	16.21	-	15.95	-	12.32	-	17.31	-	16.84	-
GAUGE1	659.97	15.69	644.28	NM	NM	19.10	640.87	18.85	641.12	18.85	641.12	20.01	639.96	18.91	641.06

ft AMSL = Feet above mean sea level  
ft TOC = Feet from top of inner casing  
GW = Groundwater  
NM = Not measured  
NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	10/13/2015		4/6/2016		10/25/2016		4/26/2017		10/11/2017		4/26/2018		10/17/2018	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	23.48	653.06	23.51	653.03	24.03	652.51	21.09	652.19	24.35	652.19	22.48	654.06	23.20	653.34
MW-7	659.08	14.61	644.47	14.19	644.89	15.00	644.08	13.62	645.46	14.83	644.25	12.85	646.23	14.40	644.68
MW-10	657.59	14.95	642.64	14.77	624.82	15.18	642.41	14.37	643.22	15.02	642.57	13.05	644.54	14.60	642.99
MW-11	657.29	-	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-12	660.08	15.62	644.46	14.95	645.13	15.82	644.26	13.55	646.53	15.62	644.46	14.00	646.08	15.10	644.98
MW-13	664.89	14.98	649.91	15.95	648.94	16.32	648.57	13.27	651.62	15.80	649.09	12.98	651.91	14.15	650.74
MW-14	663.91	13.63	650.28	16.81	647.1	16.8	647.11	13.71	650.20	15.88	648.03	13.71	650.20	13.88	650.03
MW-15	661.85	17.23	644.62	17.355	644.3	17.9	643.95	16.05	645.80	17.86	643.99	15.71	646.14	16.70	645.15
MW-16	665.57	9.61	655.96	10.79	654.78	11.11	654.46	9.02	656.55	10.43	655.14	9.52	656.05	9.88	655.69
RW-1	-	13.21	-	13.03	NRP	12.88	NRP	10.6	NRP	17.40	NRP	12.35	NRP	12.38	NRP
GAUGE1	659.97	19.91	640.06	19.76	640.21	18.40	641.57	15.70	644.27	15.46	644.51	14.55	645.42	15.70	644.27

ft AMSL = Feet above mean sea level  
 ft TOC = Feet from top of inner casing  
 GW = Groundwater  
 NM = Not measured  
 NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	4/18/2019		10/16/2019		5/20/2020		10/7/2020		4/14/2021		10/6/2021		4/13/2022	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	22.60	653.94	23.47	653.07	22.11	654.43	24.21	652.33	23.46	653.08	22.99	653.55	22.55	653.99
MW-7	659.08	13.85	645.23	14.73	644.35	15.15	643.93	15.02	644.06	14.31	644.77	13.99	645.09	13.38	645.70
MW-10	657.59	14.50	643.09	15.02	642.57	15.02	642.57	15.15	642.44	14.77	642.82	14.24	643.35	14.12	643.47
MW-11	657.29	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-12	660.08	14.40	645.68	15.54	644.54	14.62	645.46	15.85	644.23	15.29	644.79	14.81	645.27	13.68	646.40
MW-13	664.89	13.07	651.82	14.74	650.15	15.42	649.47	16.05	648.84	14.02	650.87	14.48	650.41	12.18	652.71
MW-14	663.91	13.80	650.11	13.8	650.11	14.23	649.68	16.15	647.76	13.95	649.96	14.21	649.70	13.76	650.15
MW-15	661.85	15.60	646.25	17.05	644.80	16.52	645.33	17.69	644.16	16.61	645.24	16.40	645.45	15.69	646.16
MW-16	665.57	10.39	655.18	9.78	655.79	9.81	655.76	10.93	654.64	9.94	655.63	9.81	655.76	8.84	656.73
RW-1	-	15.22	NRP	13.00	NRP	11.40	NRP	13.83	NRP	12.72	NRP	11.49	NRP	9.28	NRP
GAUGE1	659.97	15.50	644.47	16.28	643.69	16.05	643.92	16.38	643.59	16.73	643.24	16.02	643.95	15.60	644.37

ft AMSL = Feet above mean sea level  
ft TOC = Feet from top of inner casing  
GW = Groundwater  
NM = Not measured  
NRP = No Reference Point



**Table 2**  
**Groundwater Level Measurements**

Well ID	ELEVATION REFERENCE POINT	10/6/2022		4/19/2023		10/11/2023		4/16/2024		10/17/2024		4/16/2025		10/8/2025	
		Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)	Depth to Water (ft TOC)	GW Elevation (ft AMSL)
MW-4	676.54	24.00	652.54	22.02	654.52	24.62	651.92	21.74	654.80	24.14	652.40	22.80	653.74	24.30	652.24
MW-7	659.08	15.08	644.00	14.05	645.03	14.78	644.30	13.59	645.49	15.00	644.08	13.92	645.16	14.73	644.35
MW-10	658.59	14.99	642.60	14.79	642.80	14.91	642.68	14.23	643.36	15.07	642.52	14.42	644.17	14.34	644.25
MW-11	657.29	NM	-	NM	-	NM	-	12.41	644.88	13.45	643.84	13.08	644.21	13.00	644.29
MW-12	660.08	15.06	645.02	14.17	645.91	15.06	645.02	13.46	646.62	15.55	644.53	14.53	645.55	15.73	644.35
MW-13	664.89	15.63	649.26	13.34	651.55	15.52	649.37	12.25	652.64	16.33	648.56	13.41	651.48	16.38	648.51
MW-14	663.91	14.15	649.76	13.95	649.96	14.73	649.18	13.85	650.06	16.68	647.23	13.7	650.21	16.45	647.46
MW-15	661.85	16.67	645.18	16.90	644.95	17.36	644.49	15.78	646.07	17.82	644.03	16.19	645.66	17.82	644.03
MW-16	665.57	10.31	655.26	9.48	656.09	10.35	655.22	9.05	656.52	11.35	654.22	9.20	656.37	11.46	654.11
RW-1	-	16.30	NRP	10.43	NRP	15.28	NRP	9.42	NRP	17.47	NRP	10.03	NRP	17.80	NRP
GAUGE1	659.97	14.65	645.32	19.31	640.66	15.63	644.34	15.20	644.77	15.75	644.22	15.55	644.42	15.08	644.89

ft AMSL = Feet above mean sea level  
 ft TOC = Feet from top of inner casing  
 GW = Groundwater  
 NM = Not measured  
 NRP = No Reference Point  
 MW-10 was resurveyed in January 2025. The initial elevation referenced point was 657.59 ft AMSL.



Table 3  
 Groundwater Analytical Data  
 MW-4

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	04/16/15	10/14/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)
o-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
<b>PAHs</b>																											
Acenaphthene	µg/L	20	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.21	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Acenaphthylene	µg/L	NC	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Anthracene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(a)anthracene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(a)pyrene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(g,h,i)perylene	µg/L	NC	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Chrysene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Fluoranthene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Fluorene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Naphthalene	µg/L	10	3.2	2.2	2.2	2.2	ND (<0.51)	0.29	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	2.4	0.17	ND (<0.10)	ND (<0.099)	ND (<0.10)	0.46	0.24	0.17	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Phenanthrene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Pyrene	µg/L	50	ND (<0.49)	ND (<0.49)	ND (<0.49)	ND (<0.52)	ND (<0.52)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.096)	ND (<0.10)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.12)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<10)	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)
Cyanide	mg/L	0.2	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-4

CONSTITUENT	UNITS	04/09/14	10/15/14	04/16/15	10/14/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>MNA/WQ Parameters</b>																										
Alkalinity (as CaCO <sub>3</sub> )	mg/L	398	400	394	412	394	414	392	418	424	424	452	410	360	390	386	500	406	NS	402	436	378	335	405	464	
Chloride	mg/L	304	329	295	365	304	421	377	ND (<300)	233	306	360	260	296	200	315	637	339	NS	425	266	240	192	147	230	
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<0.025)	ND (<0.025)	ND (<0.030)	0.037J	ND (<0.16)	ND (<1.0)	0.036 J	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.00)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	1.9 J	ND (<7.5)	ND (<7.5)	
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	ND (<0.035)	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.00)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	1.9 J	ND (<7.0)	ND (<7.0)	
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.14	0.11	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.10	ND (<0.10)	ND (<0.10)	ND (<0.10)	NS	ND (<0.10)	ND (<0.10)	0.21	ND (<0.10)	ND (<0.10)	ND (<0.10)	
Manganese	mg/L	ND (<5.0)	ND (<3.0)	ND (<3.0)	0.019	0.0031	0.0053	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.0065	ND (<0.005)	0.0318	ND (<0.005)	0.0541	ND (<0.005)	0.0621	ND (<0.005)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.0030)	0.00040 J	0.0012 J	ND (<0.0030)
Methane	µg/L	ND (<4.0)	ND (<4.0)	ND (<4.0)	ND (<4.0)	ND (<4.0)	0.32J	0.47J	0.27J	0.29J	ND (<0.30)	ND (<2.5)	ND (<2.5)	ND (<1.00)	ND (<5.00)	ND (<5.00)	3.01 J	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<4.0)	1.2 J	ND (<4.0)	ND (<4.0)	
Nitrate	mg/L	3.6	2.7	2.9	2.9	3.4	3.2	2.2	3.2	0.89	2.1	3.9	2.7	2.8	2.2	3.9	2.2	2.6	2.2	1.8	1.8	0.22	2.0	3.3	3.5	
Nitrogen	mg/L	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	0.23	ND (<0.20)	0.29	ND (<0.20)
Sulfate	mg/L	70.7	50.8	60	73.9	60.8	23.0	56.7	50.0	ND (<50.0)	35.8	42.1	23.7	37.0	35.9	51.4	35.1	NS	NS	20.1	38.1	25.8	35.9	28.7	30.1	
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-7

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	04/16/15	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.3	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)
p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.3	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
<b>PAHs</b>																											
Acenaphthene	µg/L	20	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	0.10	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.13	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Acenaphthylene	µg/L	NC	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	0.20	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	0.10	ND (<0.10)	0.17	0.11	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Anthracene	µg/L	50	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.098)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Benzo(a)anthracene	µg/L	0.002	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.12	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Benzo(a)pyrene	µg/L	0.000	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.11	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.16	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Benzo(g,h)perylene	µg/L	NC	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.098)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.098)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Chrysene	µg/L	0.002	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.12	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.098)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Fluoranthene	µg/L	50	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	0.18	ND (<0.10)	0.29	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Fluorene	µg/L	50	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.098)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.098)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Naphthalene	µg/L	10	ND (<0.48)	ND (<0.46)	ND (<0.46)	5.2	ND (<0.49)	3.0	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.83	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Phenanthrene	µg/L	50	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.14	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
Pyrene	µg/L	50	ND (<0.48)	ND (<0.46)	ND (<0.46)	ND (<0.49)	ND (<0.49)	ND (<0.10)	ND (<0.097)	ND (<0.097)	ND (<0.098)	ND (<0.11)	ND (<0.11)	0.26	ND (<0.10)	0.43	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)	ND (<0.11)	ND (<0.098)
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	7.1	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	5.6	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	12	ND (<10)	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.16	0.13	0.18	0.18	0.18	0.15	0.18	0.16	0.14	0.17	0.129	0.17	ND (<0.010)	0.35	0.11	0.13	0.26	0.15	0.15	0.14	0.15	0.14	0.14	0.14	0.10

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-7

CONSTITUENT	UNITS	04/09/14	10/15/14	04/16/15	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	375	392	340	403	395	406	412	380	398	440	370	400	446	430	422	440	404	NS	394	406	426	375	416	404
Chloride	mg/L	79	62.8	67.7	66.7	66.2	79.4	68.9	64.6	63.6	59.4	63.9	50.9	58.1	56.5	62.6	53.4	83.3	NS	90.0	68.4	61.8	70.9	65.7	67.5
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.38J	0.86J	0.20J	0.32J	0.18J	0.13 J	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.00)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	1.9 J	ND (<7.5)	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	0.090J	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.00)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	1.7 J	ND (<7.0)	ND (<7.0)
Ferrous Iron	mg/L	6.24	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.14	0.59	3.7	3.3	2.8	3.2	2.5	2.1	4.3	2.9	0.66	2.3	0.93	NS	3.6	5.7	0.81	2.6	0.3	ND (<0.10)
Manganese	mg/L	0.564	0.49	0.49	0.46	0.53	0.43	0.478	0.478	0.478	0.459	0.487	0.395	0.513	0.420	0.440	0.400	0.307	0.379	0.389	0.401	0.47	0.35	0.44	0.37
Methane	µg/L	150	82	35	96	17	160	240	120	170	150	140	160	111	30.3	ND (<5.00)	88.2	67.2	NS	19.2	61.4	61	96	120	90
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.14	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<0.10)	ND (<0.20)	0.11	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.022 J	0.028 J	0.063	0.029 J
Nitrogen	mg/L	0.16	2	1.1	1.5	1.6	2.2	1.8	1.3	1.7	1.2	1.6	0.11	1.6	ND (<0.10)	1.7	1.7	1.4	1.6	1.4	1.5	1.6	4.3	1.8	1.6
Sulfate	mg/L	540	457	442	533	384	476	396	394	389	331	334	259	307	298	280	321	389	NS	257	281	281	243	261	241
Sulfide	mg/L	1.4	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-10

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	<b>2.3</b>	ND (<1.0)	ND (<1.0)	<b>1.9</b>	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	<b>1.5</b>	ND (<1.0)	<b>1.5</b>	1.0 J	<b>1.3</b>	0.79 J	
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<2.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<4.0)	ND (<4.0)	ND (<2.0)
p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<2.0)	ND (<1.0)	
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	2	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<2.0)	ND (<2.0)	ND (<1.0)	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	0.8	ND (<0.48)	0.69	ND (<0.50)	ND (<0.50)	1.4	0.72	1.6	0.53	1.7	1.4	1.8	0.52	1.9	2.0	1.6	1.5	2.2	1.9	2.2	2.6 J	3.0 J	2.1 J	3.2 J	
Acenaphthylene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	0.18	0.18	0.18	0.11	0.22	0.22	0.27	ND (<0.095)	0.43	0.38	0.27	0.24	0.29	0.25	0.29	ND (<5.0)	ND (<5.0)	ND (<5.0)	0.41 J		
Anthracene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.14	0.14	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(a)anthracene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	<b>0.11</b>	ND (<0.099)	ND (<0.10)	ND (<0.11)	<b>0.13</b>	<b>0.15</b>	ND (<0.095)	<b>0.63</b>	<b>0.61</b>	<b>0.16</b>	<b>0.20</b>	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Benzo(a)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	<b>0.10</b>	ND (<0.099)	ND (<0.10)	ND (<0.11)	<b>0.12</b>	<b>0.15</b>	ND (<0.095)	<b>0.56</b>	<b>0.67</b>	<b>0.16</b>	<b>0.16</b>	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	<b>0.17</b>	ND (<0.099)	ND (<0.10)	ND (<0.11)	<b>0.13</b>	<b>0.15</b>	ND (<0.095)	<b>0.65</b>	<b>0.69</b>	<b>0.23</b>	<b>0.24</b>	ND (<0.10)	<b>0.11</b>	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Benzo(g,h)perylene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.24	0.32	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	<b>0.15</b>	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	<b>0.25</b>	<b>0.85</b>	<b>0.19</b>	<b>0.22</b>	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Chrysene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	<b>0.099</b>	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	<b>0.12</b>	ND (<0.095)	<b>0.69</b>	<b>0.61</b>	ND (<0.11)	0.17	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.11	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Fluoranthene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	0.10	0.16	ND (<0.099)	ND (<0.10)	ND (<0.11)	0.18	0.22	ND (<0.095)	0.78	0.78	0.18	0.24	ND (<0.10)	0.11	ND (<0.11)	ND (<5.0)	0.45 J	ND (<5.0)	ND (<5.0)		
Fluorene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.21	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	<b>0.23</b>	<b>0.30</b>	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Naphthalene	µg/L	10	ND (<0.48)	ND (<0.48)	ND (<0.50)	1.9	ND (<0.50)	0.23	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	0.49	ND (<0.096)	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	0.95	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Phenanthrene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.11)	ND (<0.096)	ND (<0.095)	0.18	0.20	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)		
Pyrene	µg/L	50	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	0.15	0.20	ND (<0.099)	ND (<0.10)	0.13	0.22	0.27	ND (<0.095)	0.97	0.90	0.26	0.30	0.14	0.15	0.14	ND (<5.0)	0.41 J	ND (<5.0)	ND (<5.0)		
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	6.0	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	24	ND (<10)	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.081	0.10	0.098	0.010	0.085	0.081	0.13	0.10	0.12	0.079	0.114	0.093	0.097	0.10	0.060	0.066	0.097	0.078	0.12	0.072	0.13	0.098	0.110	0.082	

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-10

CONSTITUENT	UNITS	04/09/14	10/15/14	04/16/15	10/13/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	566	548	512	591	586	660	628	616	608	650	550	640	624	502	624	650	612	640	586	614	572	630	576	610
Chloride	mg/L	470	664	698	1060	893	784	390	427	419	709	440	566	314	472	945	768	816	751	970	823	406	600	459	529
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.16J	0.33J	0.20J	0.24J	0.42J	0.29 J	0.34 J	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	2.9 J	ND (<7.5)	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	0.12J	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.00)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	2.0 J	ND (<7.0)	ND (<7.0)
Ferrous Iron	mg/L	6.06	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.11	1.0	4.2	4.7	3.2	4.8	2.6	2.2	5.3	1.2	1.1	3.2	2.0	5.9	4.3	11.5	1.5	4.9	0.4	ND (<0.10)
Manganese	mg/L	1.07	1.3	1.3	1.6	1.2	1.2	1.020	1.030	0.882	0.994	0.946	1.15	0.953	0.771	1.09	1.040	1.150	1.24	1.16	1.47	1.2	1.3	1.3	1.3
Methane	µg/L	110	130	63	82	56	420	300	330	470	680	460	1300	390	451	ND (<5.00)	780	594	NS	482	63.1	900	2,800	2,800	3,200
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.11	ND (<0.05)	0.12	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.50)	ND (<0.10)	ND (<0.20)	ND (<0.50)	ND (<0.10)	0.14	0.41	0.021 J	ND (<0.050)	ND (<0.050)	ND (<0.050)
Nitrogen	mg/L	4.9	6.2	5.9	6.3	4	6.5	5.1	3.8	3.3	4.5	4	ND (<1.0)	2.5	1.0	4.0	4.7	3.8	3.6	3.9	4.5	3.5	3.0	4.1	3.9
Sulfate	mg/L	153	89.7	167	53.9	44.4	56.6	148	38.2	ND (<100)	23.0	59.4	20.9	55.2	23.9	7.8	9.7	12.3	4.6	12.4	5.0	ND (<5.0)	ND (<5.0)	3.4 J	1.5 J
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	3.4	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

- B = Present in Associated Blank Sample
- D = Diluted Sample
- J = Estimated Concentration
- mg/L = Milligrams per Liter
- MNA = Monitored Natural Attenuation
- NA = Not Analyzed
- ND (<#) = Not detected above laboratory reporting limit (indicated by #)
- NS = Not Sampled
- R = Rejected
- µg/L = Micrograms per Liter
- WQ = Water Quality



Table 3

Groundwater Analytical Data  
 MW-11

CONSTITUENT	UNITS	NYSDEC AWQS Values	09/29/10	01/04/11	04/06/11	06/14/11	10/11/11	12/13/11	03/14/12	10/09/12	04/15/13	10/08/13	04/09/14	10/20/14	04/16/15	10/14/15 to 10/11/23*	04/16/24	10/17/24	04/16/25	10/08/25
<b>BTEX Compounds</b>																				
Benzene	µg/L	1	27	16	2.8	13	18	15	7.9	12	3.5	8.1	10	22	7.3	NS	16	18	12	17
Ethylbenzene	µg/L	5	7.3	7.2	1.9	6.9	6.1	5.5	3.5	ND (<1.0)	1.2	3.8	5.1	7.8	3	NS	6.4	6.3	6.3	5.9
m,p-Xylene	µg/L	5	3	3.9	2.2	5.3	2.4	2.1	1.4J	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	2.1	ND (<2.0)	NS	1.3J	ND (<4.0)	1.3 J	ND (<4.0)
o-Xylene	µg/L	5	2.6	2.7	1.1	3.1	2.0	2.0	1.2	ND (<1.0)	ND (<1.0)	1.6	2.1	2.6	1.5	NS	1.7	1.6 J	1.9	ND (<2.0)
Toluene	µg/L	5	1.3	1.3	ND (<1.0)	1.4	0.97J	0.99J	0.69J	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.1	1.9	ND (<1.0)	NS	1.3	1.4 J	1.2	1.1 J
<b>PAHs</b>																				
Acenaphthene	µg/L	20	150 D	140 D	150	110	120	130	100	140 E	97	110	120	110	59	NS	210	280	140	240
Acenaphthylene	µg/L	NC	280J D	330 D	290	290	240 D	270 D	210	160 E	120	170	110	110	56	NS	130	160	79	110
Anthracene	µg/L	50	21	18	88	19 B	19	17	11	23	13	28	13	16	4.2	NS	11 J	17	8.4 J	13
Benzo(a)anthracene	µg/L	0.002	2.2 J	2.2	35	6.2 B	2.7	3.0 B	5.2 B	3.8	ND (<0.002)	8.3	3.2	4.8	1.9	NS	ND (<25)	0.79 J	0.63 J	0.53 J
Benzo(a)pyrene	µg/L	0.002	1.7	2.2	34	5.7 B	2.8	2.5 B	2.3 J	2.7	3.3	8.8	2.8	4.7	0.84	NS	ND (<25)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(b)fluoranthene	µg/L	0.002	0.64 J	0.92 J	24	4.8 B	1.8	2.1	1.8 J	1.7	ND (<0.002)	ND (<0.002)	ND (<0.002)	4.8	0.66	NS	ND (<25)	0.38 J	ND (<5.0)	ND (<5.0)
Benzo(k)fluoranthene	µg/L	NC	0.90 J	1.2 J	20	4.0 B	1.4	1.7	1.3 J	1	1	3.4	ND (<0.002)	1.8	ND (<0.002)	NS	ND (<25)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(k)fluoranthene	µg/L	0.002	0.90 J	1.1 J	12	2.5 B	1	0.78	1.2 J	1.6	ND (<0.002)	ND (<0.002)	ND (<0.002)	2.1	ND (<0.002)	NS	ND (<25)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Chrysene	µg/L	0.002	2.8	2.9	43	8.1 B	3.3	3.5 B	ND (<5.1)	3.4	4.4	10	5.4	7.6	0.99	NS	1.7 J	1.2 J	1.1 J	0.4 J
Dibenz(a,h)anthracene	µg/L	NC	ND (<1.0)	ND (<2.1)	3.2	ND (<2.4)	0.30 J	0.59	ND (<5.1)	ND (<5.1)	ND (<5.1)	ND (<5.1)	ND (<5.1)	ND (<4.7)	ND (<4.7)	NS	ND (<25)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Fluoranthene	µg/L	50	18	14	96	22 B	20	16	12	24	14	28	12	16	5.4	NS	13 J	17 J	9.4	13 J
Fluorene	µg/L	50	110 D	100 D	130	72	79	83	62	92	62	70	31	44	16	NS	69	110	44 J	73
Indeno(1,2,3-cd)pyrene	µg/L	0.002	0.55 J	2.10	13	2.9 B	0.96	1.0 B	0.69 J	1.6	ND (<0.002)	ND (<0.002)	ND (<0.002)	1.2	ND (<0.002)	NS	ND (<25)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Naphthalene	µg/L	10	180 D	580 D	300	480	310 D	330 D	140	110	50	87	ND (<10)	91	2.3	NS	120	63	40 J	4.5 J
Phenanthrene	µg/L	50	160 D	150 D	260	52 B	140 D	130	91	170	80	130	5.8	62	1.5	NS	82	180	44 J	90
Pyrene	µg/L	50	26 J	17	150	28 B	21	21	16	28	18	34	17	20	4.2	NS	15 J	20	11 J	17
<b>Cyanide and Lead</b>																				
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	40	7.6	12	ND (<5.0)	4.6 J	ND (<5.0)	ND (<5.0)	5.9	ND (<5.0)	0.014	ND (<5.0)	NS	46	3.3 J	ND (<10)	ND (<10)
Cyanide	mg/L	0.2	0.024	0.027	R	0.015J	0.021	ND (<0.01)	0.012	ND (<0.010)	ND (<0.010)	ND (<0.010)	0.018	0.021	0.012	NS	0.020	0.021	0.013	0.012

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 ND = No Criteria  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS

\* = Monitoring well is inaccessible due to debris and was not sampled during this time period

Table 3  
 Groundwater Analytical Data  
 MW-11

CONSTITUENT	UNITS	03/14/12	10/09/12	04/18/13	10/08/13	04/09/14	10/15/14	04/16/15	10/14/15 to 10/11/23*	04/16/24	10/17/24	04/16/25	10/08/25
<b>MNA/WQ Parameters</b>													
Alkalinity (as CaCO <sub>3</sub> )	mg/L	R	623	507	573	465	457	438	NS	461	475	431	484
Chloride	mg/L	321	350	202	295	454	364	314	NS	618	647	463	629
Ethane	µg/L	ND (<15)	ND (<380)	ND (<380)	ND (<380)	ND (<380)	ND (<7.5)	ND (<7.5)	NS	ND (<170)	44 J	ND (<7.5)	ND (<7.5)
Ethene	µg/L	ND (<15)	ND (<380)	ND (<380)	ND (<380)	ND (<380)	ND (<7.0)	ND (<7.0)	NS	ND (<150)	39 J	2.6 J	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	0.5	0.18	0.22	0.29	ND (<0.1)	ND (<0.1)	NS	0.76	ND (<0.10)	0.85	ND (<0.10)
Manganese	mg/L	0.47	0.95	0.95	0.55	0.56	0.56	0.25	NS	0.74	0.66	0.41	1.0
Methane	µg/L	160	520	12	25	120	180	13	NS	640.00	780	420	890
Nitrate	mg/L	0.092	ND (<0.050)	0.79	0.32	0.32	0.059	0.28	NS	ND (<0.050)	0.020 J	0.038 J	ND (<0.050)
Nitrogen	mg/L	1.3	1.7	0.58	0.64	0.57	1.2	0.26	NS	1.5	1.2	0.71	1.5
Sulfate	mg/L	8.5 B	16.9	112	94.1	58	44.3	82.9	NS	14.9	17.9	38.2	22.9
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.8	ND (<1.0)	NS	1.2	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality  
 \* = Monitoring well is inaccessible due to debris and was not sampled during this time period



Table 3  
 Groundwater Analytical Data  
 MW-12

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>BTEX Compounds</b>																										
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)
o-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
<b>PAHs</b>																										
Acenaphthene	µg/L	20	1.1	ND (<0.48)	ND (<0.47)	ND (<0.51)	0.11	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	ND (<0.099)	0.11	ND (<0.098)	ND (<0.10)	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Acenaphthylene	µg/L	NC	ND (<0.2)	0.63	ND (<0.47)	ND (<0.51)	4.4	ND (<0.097)	0.30	0.39	0.62	ND (<0.11)	1.0	0.1	0.61	0.41	0.14	0.21	2.5	0.27	0.40	ND (<5.0)	ND (<25)	ND (<5.0)	0.53 J	
Anthracene	µg/L	50	1.1	0.88	0.73	ND (<0.51)	1.4	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.099	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	1.4	1.5	0.31	0.22	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	
Benzo(a)anthracene	µg/L	0.002	<b>0.66</b>	<b>1.5</b>	ND (<0.47)	ND (<0.51)	<b>2.1</b>	<b>0.11</b>	<b>0.14</b>	ND (<0.099)	ND (<0.11)	ND (<0.11)	<b>0.24</b>	<b>0.34</b>	ND (<0.097)	ND (<0.096)	ND (<0.11)	<b>0.49</b>	<b>5.4</b>	<b>0.77</b>	<b>0.67</b>	ND (<5.0)	ND (<25)	ND (<5.0)	<b>0.46 J</b>	
Benzo(a)pyrene	µg/L	0.002	<b>0.92</b>	<b>1.8</b>	ND (<0.47)	ND (<0.51)	<b>2.8</b>	<b>0.11</b>	<b>0.16</b>	ND (<0.099)	ND (<0.11)	ND (<0.11)	<b>0.3</b>	<b>0.41</b>	ND (<0.097)	ND (<0.096)	ND (<0.11)	<b>0.46</b>	<b>6.7</b>	<b>0.97</b>	<b>0.87</b>	ND (<5.0)	ND (<25)	ND (<5.0)	<b>0.70 J</b>	
Benzo(b)fluoranthene	µg/L	0.002	<b>0.74</b>	<b>2.1</b>	ND (<0.47)	ND (<0.51)	<b>2.3</b>	<b>0.13</b>	<b>0.18</b>	ND (<0.099)	ND (<0.11)	ND (<0.11)	<b>0.24</b>	<b>0.34</b>	ND (<0.097)	ND (<0.096)	ND (<0.11)	<b>0.49</b>	<b>6.8</b>	<b>0.85</b>	<b>0.8</b>	ND (<5.0)	ND (<25)	ND (<5.0)	<b>0.39 J</b>	
Benzo(g,h)perylene	µg/L	NC	0.51	0.74	ND (<0.47)	ND (<0.51)	1.6	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.15	0.21	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.27	3.8	0.41	0.41	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.49)	<b>0.74</b>	ND (<0.47)	ND (<0.51)	<b>0.94</b>	<b>0.11</b>	<b>0.16</b>	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	<b>0.45</b>	<b>6.0</b>	<b>0.74</b>	<b>0.65</b>	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	
Chrysene	µg/L	0.002	ND (<0.49)	<b>1.6</b>	ND (<0.47)	ND (<0.51)	<b>1.9</b>	ND (<0.097)	<b>0.11</b>	ND (<0.099)	ND (<0.11)	ND (<0.11)	<b>0.19</b>	<b>0.22</b>	ND (<0.097)	ND (<0.096)	ND (<0.11)	<b>0.72</b>	<b>3.9</b>	<b>0.80</b>	<b>0.61</b>	ND (<5.0)	ND (<25)	ND (<5.0)	<b>0.85 J</b>	
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.52)	ND (<0.48)	ND (<0.47)	ND (<0.51)	0.29	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	ND (<0.097)	ND (<0.11)	ND (<0.097)	ND (<0.096)	ND (<0.11)	ND (<0.099)	0.92	ND (<0.098)	ND (<0.10)	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	
Fluoranthene	µg/L	50	0.87	2.00	ND (<0.47)	0.52	3.9	<b>0.11</b>	<b>0.17</b>	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.33	0.43	ND (<0.097)	ND (<0.096)	ND (<0.11)	0.72	6.8	0.87	0.73	ND (<5.0)	2.4 J	ND (<5.0)	0.77 J	
Fluorene	µg/L	50	ND (<0.49)	ND (<0.48)	ND (<0.47)	ND (<0.51)	0.51	ND (<0.097)	ND (<0.10)	ND (<0.099)	0.13	ND (<0.11)	ND (<0.097)	ND (<0.11)	0.12	ND (<0.096)	ND (<0.11)	ND (<0.099)	0.21	ND (<0.098)	ND (<0.10)	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.49)	<b>0.91</b>	ND (<0.47)	ND (<0.51)	<b>1.2</b>	ND (<0.097)	ND (<0.10)	ND (<0.099)	ND (<0.11)	ND (<0.11)	<b>0.11</b>	<b>0.17</b>	ND (<0.097)	ND (<0.096)	ND (<0.11)	<b>0.40</b>	<b>3.0</b>	<b>0.34</b>	<b>0.34</b>	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	
Naphthalene	µg/L	10	ND (<0.52)	1.6	1.9	ND (<0.51)	0.96	ND (<0.097)	0.15	ND (<0.099)	ND (<0.11)	ND (<0.11)	1.8	ND (<0.11)	0.97	ND (<0.096)	ND (<0.11)	ND (<0.099)	0.15	ND (<0.098)	0.71	ND (<5.0)	ND (<25)	ND (<5.0)	ND (<5.0)	
Phenanthrene	µg/L	50	0.61	2	ND (<0.47)	ND (<0.51)	3.5	ND (<0.097)	0.14	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.23	0.34	0.14	ND (<0.096)	ND (<0.11)	0.62	4.7	0.64	0.57	ND (<5.0)	ND (<25)	ND (<5.0)	0.83 J	
Pyrene	µg/L	50	1.3	2.8	ND (<0.47)	0.64	5.4	0.17	0.24	ND (<0.099)	ND (<0.11)	ND (<0.11)	0.49	0.61	ND (<0.097)	ND (<0.096)	ND (<0.11)	1.0	9.6	1.3	1.1	ND (<5.0)	2.5 J	ND (<5.0)	10. J	
<b>Cyanide and Lead</b>																										
Lead	µg/L	25	ND (<5.0)	0.018	ND (<10)	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<0.02)	ND (<0.10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<10)	ND (<10)	ND (<10)	3.9 J	
Cyanide	mg/L	0.2	ND (<0.010)	0.013	ND (<0.01)	ND (<0.01)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	0.011	0.011	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	0.0060 J	0.0060 J	0.0062 J	0.0088 J	

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



Table 3  
 Groundwater Analytical Data  
 MW-12

CONSTITUENT	UNITS	04/09/14	10/15/14	10/14/15	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25
<b>MMA/WQ Parameters</b>																								
Alkalinity (as CaCO <sub>3</sub> )	mg/L	329	414	401	415	436	466	366	456	430	416	400	380	360	430	512	356	NS	418	392	426	361	376	354
Chloride	mg/L	150	493	591	276	556	152	587	345	757	334	490	267	633	391	879	141	NS	805	1,250	467	1,180	673	1,420
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.47J	ND (<0.025)	ND (<0.030)	ND (<0.030)	ND (<0.16)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	1.9 J	ND (<7.5)	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<0.035)	ND (<0.035)	ND (<0.10)	ND (<0.10)	ND (<0.032)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	1.9 J	ND (<7.0)	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.11	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	NS	ND (<0.10)	ND (<0.10)	0.682 J	0.12	ND (<0.10)	ND (<0.10)
Manganese	mg/L	0.36	1.2	0.039	0.062	0.202	0.0201	0.0399	0.0113	0.0152	0.0153	0.0696	0.0396	0.0074	ND (<0.050)	ND (<0.015)	0.0157	0.272	0.0396	0.0385	0.013	0.12	0.028	0.18
Methane	µg/L	ND (<1.0)	ND (<4.0)	ND (<4.0)	ND (<4.0)	1.95	0.24J	0.27J	1.0J	0.35J	ND (<2.5)	ND (<2.5)	ND (<0.10)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<4.0)	2.1 J	ND (<4.0)	ND (<4.0)
Nitrate	mg/L	1.4	3.7	2.5	3.3	2.9	5.1	3.6	0.84	5.6	4.3	ND (<0.10)	5.9	2.5	3	4.4	2.7	3.2	5.3	5.2	0.49	4.6	3.5	1.7
Nitrogen	mg/L	0.44	0.61	ND (<0.2)	ND (<0.2)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	5.1	ND (<1.0)	3.8	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.20)	2.1	0.55	0.49
Sulfate	mg/L	51.6	73.5	70.2	93.7	56.0	115	53.7	70.3	66.8	53.9	55.1	77.2	48.3	65.9	64.1	39.9	NS	101	54	109	46.1	77.6	32.5
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.6	ND (<1.0)	ND (<1.0)	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-13

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	200	300	17	360	300	348	15.5	363	11.6	32.8	16.9	328	126	268	11.7	187	7.1	113	5.9	171	5.2	130	5.5	91	
Ethylbenzene	µg/L	5	200	340	17	190	270	366	7.4	210	4.8	23.3	12.4	230	85.6	193	4.5	164	5.1	104	1.5	148	2.1	130	2.6	74	
m,p-Xylene	µg/L	5	250	480	24	270	360	467	12.1	257	8.6	34.6	16.6	229	89.5	179	8.7	152	5.0	96.2	2.7	122	4.8	98	3.6	57	
o-Xylene	µg/L	5	120	210	16	120	150	203	9.4	117	9.3	16.6	9.7	112	46.6	90.7	5.5	74.2	4.0	53.6	3.6	60.4	5.0	51	3.7	33	
Toluene	µg/L	5	270	430	17	320	410	552	7.6	332	3.9	25.1	11.1	288	95.7	279	5.8	158	3.9	84.2	1.3	133	1.6	120	1.4	57	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	71	130	ND (<4.9)	65 E	130	225	0.34	78.4	0.16	4.3	6.8	141	4.2	124	0.35	106	5.6	143	ND (<0.096)	245	0.60 J	180 J	0.52 J	120	
Acenaphthylene	µg/L	NC	22	450	ND (<4.9)	77 E	220	257	1.2	122	0.51	6.4	8.7	57.0	0.78	43.4	0.69	10.5	1.4	68.4	0.14	24.5	ND (<5.0)	ND (<250)	0.52 J	24 J	
Anthracene	µg/L	50	6.9	14	ND (<4.9)	9.2 F1 F2	10	19.2	0.55	7.2	0.25	0.73	0.82	7.3	0.15	5.1	0.33	6.1	0.15	6.7	ND (<0.096)	6.5	0.35 J	ND (<250)	0.30 J	8.6 J	
Benzo(a)anthracene	µg/L	0.002	ND (<4.7)	1.9	ND (<0.001)	0.59 F2	ND (<9.7)	6.7	0.93	1.7	0.30	0.22	0.14	0.79	0.18	0.51	0.38	0.98	ND (<0.096)	0.98	ND (<0.096)	0.56	ND (<5.0)	ND (<250)	0.40 J	19 J	
Benzo(a)pyrene	µg/L	0.002	ND (<4.7)	1.6	ND (<0.001)	ND (<0.49)	ND (<9.7)	6.5	1.0	1.3	0.40	0.20	ND (<0.10)	0.58	0.20	0.31	0.82	0.87	ND (<0.096)	1.1	ND (<0.096)	0.51	ND (<5.0)	ND (<250)	0.62 J	ND (<25)	
Benzo(b)fluoranthene	µg/L	0.002	ND (<4.7)	2.8	ND (<0.001)	ND (<0.49)	ND (<9.7)	6.2	1.2	1.6	0.47	0.22	0.12	0.49	0.17	0.27	0.63	0.97	ND (<0.096)	1.2	0.10	0.33	ND (<5.0)	102 (<250)	0.54 J	ND (<25)	
Benzo(g,h,i)perylene	µg/L	NC	ND (<4.7)	0.6	ND (<0.001)	ND (<0.49)	ND (<9.7)	3.3	0.55	ND (<0.98)	0.21	ND (<0.099)	ND (<0.10)	0.23	ND (<0.10)	0.13	0.45	0.42	ND (<0.096)	0.59	ND (<0.096)	0.11	ND (<5.0)	ND (<250)	0.40 J	ND (<25)	
Benzo(k)fluoranthene	µg/L	0.002	ND (<4.7)	0.53	ND (<0.001)	ND (<0.49)	ND (<9.7)	2.5	1.1	1.3	0.35	0.20	ND (<0.10)	0.64	0.13	0.38	0.34	0.62	ND (<0.096)	0.75	ND (<0.096)	0.27	ND (<5.0)	ND (<250)	0.58 J	ND (<25)	
Chrysene	µg/L	0.002	ND (<4.7)	1.8	ND (<0.001)	0.50 F1 F2	ND (<9.7)	6.1	0.81	1.3	0.22	0.20	ND (<0.10)	0.64	0.13	0.38	0.34	0.62	ND (<0.096)	0.75	ND (<0.096)	0.27	ND (<5.0)	ND (<250)	0.58 J	ND (<25)	
Dibenz(a,h)anthracene	µg/L	NC	ND (<4.7)	8.2	ND (<0.001)	ND (<0.49)	ND (<9.7)	0.85	0.13	ND (<0.98)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	0.11	ND (<0.11)	ND (<0.096)	0.16	ND (<0.096)	0.16	ND (<0.096)	ND (<0.099)	ND (<5.0)	ND (<250)	ND (<5.0)	ND (<25)	
Fluoranthene	µg/L	50	6.1	8.2	ND (<4.9)	5.5 F2	ND (<9.7)	17.8	1.9	5.4	0.51	0.77	0.66	4.6	1.3	4.0	0.58	4.4	0.27	5.4	ND (<0.096)	4.7	ND (<5.0)	ND (<250)	0.67 J	7.4 J	
Fluorene	µg/L	50	30	94 J	ND (<4.9)	43 F1 F2	85	74.8	0.46	37.9	0.19	2.6	3.7	45.7	0.16	33.2	0.27	42.5	0.89	44.5	ND (<0.096)	50.8	ND (<5.0)	50 J	ND (<5.0)	45	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<4.7)	0.46	ND (<0.001)	ND (<0.49)	ND (<9.7)	2.7	0.42	ND (<0.98)	0.17	ND (<0.099)	ND (<0.10)	0.19	ND (<0.10)	0.11	0.34	0.34	ND (<0.096)	0.49	ND (<0.096)	0.10	ND (<5.0)	ND (<250)	ND (<5.0)	ND (<25)	
Naphthalene	µg/L	10	ND (<10)	4200	ND (<4.9)	350 E	170	5560	0.96	1880	0.45	0.31	0.14	9.700	0.19	2.190	0.76	1.6	0.16	596	ND (<0.096)	521	ND (<5.0)	1700	ND (<5.0)	540	
Phenanthrene	µg/L	50	ND (<50)	70	ND (<4.9)	31 F1	ND (<9.7)	78.3	1.5	32.8	0.60	0.37	2.40	39.8	0.14	31	0.76	24.0	ND (<0.096)	17.2	ND (<0.096)	39.7	ND (<5.0)	36 J	0.87 J	38	
Pyrene	µg/L	50	7.2	9.7	ND (<4.9)	5.8 F2	ND (<9.7)	ND (<52.1)	1.7	6.0	0.54	0.78	0.63	4.8	0.86	4.1	0.71	4.6	0.13	5.6	ND (<0.096)	4.7	ND (<5.0)	ND (<250)	0.81 J	7.7 J	
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	ND (<5.0)	ND (<4.9)	ND (<10)	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<10.0)	ND (<10)	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.17	0.24	0.11	0.22 F1	0.29	0.23	0.070	0.20	0.062	0.10	0.09	0.16	0.11	0.16	0.050	0.095	0.096	0.14	0.046	0.100	0.060	0.10	0.045	0.11	

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
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 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-13

CONSTITUENT	UNITS	04/09/14	10/15/14	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25
<b>MNA/WQ Parameters</b>																								
Acidity (as CaCO <sub>3</sub> )	mg/L	176	255	283 F1	311	364	234	308	226	280	230	380	268	320	232	350	304	350	297	336	264	412	276	370
Chloride	mg/L	9.2	17.3	11.2	9.8	11.4	3.4	7.6	92.7	31.6	8.4	19.5	9.3	6.9	11.8	8.4	ND (<3.0)	6.7	15.8	8.3	12.6	2.1	10.7	
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	1.2	ND (<0.025)	0.88J	ND (<0.030)	0.22J	0.11 J	0.74 J	ND (<1.00)	ND (<5.0)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	40 J	ND (<7.5)	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	3.3	ND (<0.035)	2.3	ND (<0.10)	0.46J	0.19 J	2.1	ND (<1.00)	2.34 J	ND (<5.00)	1.26 J	ND (<1.00)	NS	ND (<1.00)	1.02	ND (<7.0)	43 J	ND (<7.0)	ND (<7.0)	
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.18	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.15	ND (<0.10)	ND (<0.10)	0.13	ND (<0.10)	ND (<0.10)	0.11	0.081 J	0.19	ND (<0.10)	0.16		
Manganese	mg/L	0.14	0.031	0.064	ND (<7.5)	0.0938	0.0417	0.0705	0.0570	0.0619	0.0298	0.0710	0.0446	0.0709	0.0691	0.0599	0.034	0.062	0.0202	0.0822	0.013	0.072	0.029	0.056
Methane	µg/L	74	ND (<4.0)	110	50	280	0.34J	190	12	73	41	250	84.7	218	ND (<5.00)	111	25.5	NS	10.9	169	32	300	70	320
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.05	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<0.50)	ND (<1.0)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	0.025 J	ND (<0.050)	ND (<0.050)	ND (<0.050)
Nitrogen	mg/L	2.1	0.62	1.4	1.2	1.3	ND (<1.0)	2.1	ND (<1.0)	4.5	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	2.3	ND (<1.0)	ND (<1.00)	ND (<1.0)	ND (<1.0)	1.1	0.25	0.40	0.40	0.69
Sulfate	mg/L	15.5	ND (<5.0)	ND (<5.0)	ND (<5.0)	18.3	16.0	42.3	20.4	28.6	26.1	23.4	10.8	17.3	32.1	8.8	25.1	8.4	13.4	3.4	174.0	ND (<5.0)	15.3	2.4 J
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.6	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (-#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-14

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25		
<b>BTEX Compounds</b>																												
Benzene	µg/L	1	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Ethylbenzene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
m,p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
Toluene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<0.54)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
<b>PAHs</b>																												
Acenaphthene	µg/L	20	0.5	2.00	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.19	ND (<0.096)	1.7	ND (<0.099)	ND (<0.099)	ND (<0.10)	0.18	0.8	0.2	ND (<0.10)	0.20	ND (<0.10)	0.23	ND (<0.099)	ND (<0.099)	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Acenaphthylene	µg/L	NC	ND (<0.48)	2.9	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.99	0.25	4.1	0.19	0.34	0.26	0.71	8.4	1.2	0.38	1.6	0.21	0.49	0.37	0.29	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Anthracene	µg/L	50	ND (<0.48)	0.5	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.25	0.096	0.29	ND (<0.099)	0.15	0.11	0.11	3.5	0.6	0.16	0.62	ND (<0.10)	0.19	0.14	0.16	ND (<0.50)	0.30 J	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Benzo(a)anthracene	µg/L	0.002	1	1.9	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.28	0.13	0.26	0.11	ND (<0.099)	ND (<0.10)	ND (<0.096)	19.8	2.1	0.51	3.6	ND (<0.10)	ND (<0.10)	0.63	0.13	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Benzo(a)pyrene	µg/L	0.002	1.3	2.4	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.32	0.12	0.29	ND (<0.099)	ND (<0.10)	ND (<0.096)	24.8	2.6	0.66	3.9	ND (<0.10)	ND (<0.10)	0.72	0.15	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	ND (<0.50)	
Benzo(b)fluoranthene	µg/L	0.002	1.2	3.8	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.55	0.21	0.47	0.14	ND (<0.099)	0.7	ND (<0.096)	26.1	2.8	0.67	4.4	ND (<0.10)	ND (<0.10)	0.91	0.19	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Benzo(g,h,i)perylene	µg/L	NC	0.95	1.3	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.29	0.11	0.24	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	17.5	1.9	0.54	2.7	ND (<0.10)	ND (<0.10)	0.44	0.11	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	0.36 J	
Benzo(k)fluoranthene	µg/L	0.002	0.83	1.1	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.47	0.18	0.40	0.11	ND (<0.099)	0.14	ND (<0.096)	8.5	1.0	0.84	4.7	ND (<0.10)	ND (<0.10)	0.80	0.16	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Chrysene	µg/L	0.002	1.2	2.1	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.27	0.13	0.24	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	17.0	1.9	0.81	2.7	ND (<0.10)	ND (<0.10)	0.46	ND (<0.099)	ND (<0.099)	ND (<0.50)	ND (<0.52)	ND (<0.54)	0.33 J	
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<0.52)	ND (<0.54)	ND (<0.10)	ND (<0.096)	ND (<0.099)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	4.5	0.4	0.13	0.59	ND (<0.10)	ND (<0.10)	ND (<0.099)	ND (<0.099)	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Fluoranthene	µg/L	50	1.5	3.2	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.45	0.17	0.55	0.13	ND (<0.099)	0.14	0.098	29.0	3.0	0.71	4.5	ND (<0.10)	ND (<0.10)	0.77	0.18	ND (<0.50)	0.46 J	ND (<0.54)	ND (<0.50)	0.58 J	
Fluorene	µg/L	50	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.14	ND (<0.096)	0.21	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	1.3	0.2	ND (<0.10)	0.26	ND (<0.10)	0.14	ND (<0.099)	ND (<0.099)	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	0.83	0.95	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.21	ND (<0.096)	0.18	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	14.4	1.5	0.40	2.2	ND (<0.10)	ND (<0.10)	0.36	ND (<0.099)	ND (<0.099)	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	
Naphthalene	µg/L	10	ND (<0.48)	1.1	ND (<0.47)	ND (<0.52)	ND (<0.54)	2.2	ND (<0.096)	4.2	ND (<0.099)	ND (<0.099)	ND (<0.10)	0.72	0.86	1.0	0.18	ND (<0.10)	0.18	ND (<0.10)	ND (<0.099)	1.4	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	ND (<0.50)	
Phenanthrene	µg/L	50	0.83	1.4	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.22	ND (<0.096)	0.17	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.096)	9.8	1.0	0.25	1.5	ND (<0.10)	ND (<0.10)	0.22	ND (<0.099)	ND (<0.099)	ND (<0.50)	ND (<0.52)	ND (<0.54)	ND (<0.50)	
Pyrene	µg/L	50	2.4	5.0	ND (<0.47)	ND (<0.52)	ND (<0.54)	0.68	0.28	0.74	0.20	ND (<0.099)	0.22	0.12	47.0	5.0	1.2	7.3	ND (<0.10)	ND (<0.10)	1.2	0.27	0.52 J	0.44 J	ND (<0.54)	ND (<0.50)	0.78 J	
<b>Cyanide and Lead</b>																												
Lead	µg/L	25	ND (<5.0)	0.031	ND (<0.01)	ND (<0.01)	ND (<1.0)	33.3	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	256	50.2	7.5	90.9	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	150	9.9	4.7 J	9.2 J	9.2 J	
Cyanide	mg/L	0.2	0.9	0.2	0.091	0.120	0.88	0.67	0.079	0.25	0.062	0.11	0.0838	0.11	0.12	0.42	0.057	0.072	0.14	0.13	0.076	0.10	0.070	0.41	0.077	0.34	0.34	

AWQS = Ambient Water Quality Standards  
 B = Present in Associated Blank Sample  
 BTEX = Benzene, Ethylbenzene, Toluene and Xylene  
 D = Diluted Sample  
 E = Result exceeded calibration range  
 F1 = MS and/or MSD Recovery outside acceptance limits.  
 F2 = MS/MSD RPD above control limits.  
 J = Estimated Concentration Value  
 mg/L = Milligrams per Liter  
 NC = No Criteria  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 NYSDEC = New York State Department of Environmental Conservation  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 R = Rejected  
 µg/L = Micrograms per Liter  
**Bolded** = values indicated exceedance of the NYSDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-14

CONSTITUENT	UNITS	04/09/14	10/15/14	10/13/14	04/06/16	10/26/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25
<b>MNA/WQ Parameters</b>																								
Alkalinity (as CaCO3)	mg/L	483	372	445	507	520	380	404	392	450	384	380	342	400	364	392	392	NS	310	384	328	415	328	446
Chloride	mg/L	28.5	3.9	10.7	27.4	18.0	3.5	6.6	ND (<3.0)	3.2	3.5	ND (<3.0)	ND (<3.0)	6.7	6.9	6.5	ND (<3.0)	NS	3.4	5.2	2.8	25.4	4.6	15.3
Ethane	µg/L	ND (<7.5)	ND (<7.5)	ND (<7.5)	ND (<7.5)	0.17J	ND (<0.025)	0.13J	ND (<0.030)	ND (<0.16)	ND (<1.0)	ND (<1.0)	1.57	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.5)	2.4 J	ND (<7.5)	ND (<7.5)
Ethene	µg/L	ND (<7.0)	ND (<7.0)	ND (<7.0)	ND (<7.5)	ND (<0.035)	ND (<0.035)	ND (<0.10)	ND (<0.10)	ND (<0.332)	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	1.8 J	ND (<7.0)	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.11	0.55	0.22	0.93	0.47	0.30	0.38	0.12	1.90	2.1	0.44	1.4	0.38	NS	0.177	1.4	0.97	2.8	0.16	ND (<0.10)
Manganese	mg/L	1	0.019	0.011	ND (<7.5)	0.768	0.0262	0.416	0.201	0.0121	0.0208	0.051	3.79	0.940	0.268	4.29	0.203	0.0845	1.0	0.116	0.57	0.96	0.29	1.1
Methane	µg/L	140	ND (<4.0)	ND (<4.0)	31	140	19	120	1.7J	1.4J	ND (<2.5)	19	1,020	ND (<5.00)	6.54	4.01 J	6.99	NS	7.40	13.3	5.6	400	4.0	640
Nitrate	mg/L	ND (<0.05)	0.87	0.16	ND (<0.05)	ND (<0.10)	0.29	ND (<0.10)	ND (<0.10)	0.59	0.4	ND (<1.0)	ND (<1.0)	ND (<0.50)	0.8	0.28	0.21	ND (<0.10)	0.36	0.21	0.833 J	ND (<0.050)	0.36	0.027 J
Nitrogen	mg/L	1.5	0.22	0.72	1	1.2	ND (<1.0)	ND (<1.0)	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	4.2	3.6	1.0	1.8	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.5	0.64	1.4	0.56
Sulfate	mg/L	363	ND (<5.0)	ND (<5.0)	324	153	12.5	52.4	15.2	20.3	ND (<1.0)	17.7	11.2	102.0	15.1	14.5	25.9	NS	10.6	17.1	ND (<5.0)	155	18.9	159.0
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (<#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-15

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	210	300	16	350 E	330	714	111	373	48.7	108	41.2	364	55.8	271	92.7	18.7	149	324	91.7	139	10	240	45	310	
Ethylbenzene	µg/L	5	38	74	1.9	92	110	244	24.5	124	10.2	45.2	15.7	135	19.4	99.9	31.0	7.9	86.7	133	40.7	63.1	10	98	26	87	
m,p-Xylene	µg/L	5	ND (<5.0)	ND (<10)	3.2	8.1	ND (<8.0)	13.7	2.7	9.4	ND (<2.0)	2.8	ND (<2.0)	17.5	ND (<2.0)	12.3	ND (<2.0)	3.4	21.6	10	4.3	11.6	2.3	4.7 J	1.2 J	7.6	
o-Xylene	µg/L	5	8.5	28	7.5	23	21	31.7	7.9	22.8	3.7	18.8	8.1	26.2	4.5	23	4.2	16.4	28.1	24.4	12.4	15.6	11	15	14	54.4	
Toluene	µg/L	5	ND (<5.0)	5.8	ND (<1.0)	7	ND (<8.0)	6.1	1.1	7.4	ND (<1.0)	2.9	1.3	8.5	1.4	6.9	ND (<1.0)	1.1	11.1	5.4	2.3	4.0	ND (<1.0)	3.8 J	1.1	ND (<5.0)	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	18	24	6.7	16	23	43.1	10.1	16.3	12.4	32.7	12.6	28.4	4.7	17.2	28.3	40.3	16.6	39.1	27.1	22	36 J	34	32	25	
Acenaphthylene	µg/L	NC	3	3.9	0.59	3.1	ND (<5.1)	2.4	1.5	2.5	1.4	3.9	1.6	1.9	0.66	1.2	2.5	3.7	1.2	1.6	2.2	1.8	ND (<5.0)	2.1 J	2.1 J	0.99 J	
Anthracene	µg/L	50	0.95	0.81	ND (<0.49)	0.57	ND (<5.1)	1.9	0.36	0.56	0.31	0.55	0.46	0.74	0.25	0.52	0.35	0.52	0.42	0.95	0.46	0.67	ND (<5.0)	0.84 J	0.38 J	0.38 J	
Benzo(a)anthracene	µg/L	0.002	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	0.14	0.13	0.55	0.14	ND (<0.099)	0.14	0.14	0.16	0.20	0.16	0.37	0.13	0.14	0.11	0.19	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(a)pyrene	µg/L	0.002	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	0.10	0.58	0.11	ND (<0.099)	0.12	ND (<0.097)	0.18	0.20	0.13	0.37	ND (<0.11)	ND (<0.099)	ND (<0.10)	0.19	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.58)	0.72	ND (<0.49)	ND (<0.47)	ND (<5.1)	0.11	0.16	0.81	0.15	ND (<0.099)	0.17	0.11	0.16	0.21	0.18	0.48	0.11	0.12	0.19	0.22	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(g,h,i)perylene	µg/L	NC	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	ND (<0.098)	0.4	ND (<0.099)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.097)	0.11	0.12	ND (<0.099)	0.21	ND (<0.11)	ND (<0.099)	ND (<0.10)	0.10	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	0.13	0.69	0.11	ND (<0.099)	0.15	0.10	ND (<0.10)	ND (<0.097)	0.15	0.41	ND (<0.11)	0.11	ND (<0.10)	0.18	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Chrysene	µg/L	0.002	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	0.11	0.12	0.48	ND (<0.099)	ND (<0.099)	0.12	0.11	0.12	0.17	0.13	0.26	ND (<0.11)	0.10	ND (<0.10)	0.13	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	ND (<0.098)	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.10)	ND (<0.097)	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Fluoranthene	µg/L	50	1.1	0.93	ND (<0.49)	0.61	ND (<5.1)	1.2	0.46	1.2	0.34	0.53	0.6	0.89	0.41	0.68	0.52	0.75	0.44	0.79	0.46	0.70	ND (<5.0)	ND (<5.0)	ND (<5.0)	0.41 J	ND (<5.0)
Fluorene	µg/L	50	4.3	5.2	1.2	4.1	5.9	11.8	1.9	4.1	2.4	5.3	3.4	6.6	1.4	4.0	4.4	3.3	2.9	7.9	5.4	5.2	4.4 J	8.5 J	4.9 J	5.1 J	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.58)	ND (<0.48)	ND (<0.49)	ND (<0.47)	ND (<5.1)	ND (<0.10)	ND (<0.098)	0.31	ND (<0.099)	ND (<0.099)	ND (<0.10)	ND (<0.097)	ND (<0.10)	ND (<0.097)	ND (<0.099)	0.17	ND (<0.11)	ND (<0.099)	ND (<0.10)	ND (<0.099)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Naphthalene	µg/L	10	29	210	1.5	48 E	110	363	34.1	69.3	16.6	136	43	512	1.1	272	15.0	152	242	232	135	138	230	140	83	97	
Phenanthrene	µg/L	50	3.4	3.7	ND (<0.49)	2.8	ND (<5.1)	8.5	1.2	2.5	0.99	1.9	1.8	3.7	0.52	2.1	1.2	2.7	1.6	3.7	1.2	2.0	ND (<5.0)	2.0	1.0 J	0.48 J	
Pyrene	µg/L	50	1.5	1.1	ND (<0.49)	0.69	ND (<5.1)	1.4	0.58	1.6	0.45	0.56	0.73	1.0	0.54	0.83	0.71	1.0	0.57	0.62	0.57	0.84	ND (<5.0)	0.56 J	0.47 J	0.44 J	
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	0.010	0.010	0.010	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	24	3.3 J	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.48	0.58	0.28	1	1.1	1.1	0.42	1.3	0.56	0.27	0.171	0.61	0.32	0.67	0.23	0.18	0.23	1.1	0.29	0.25	0.12	0.83	0.19	0.71	

- AWQS = Ambient Water Quality Standards
- B = Present in Associated Blank Sample
- BTEX = Benzene, Ethylbenzene, Toluene and Xylene
- D = Diluted Sample
- E = Result exceeded calibration range
- F1 = MS and/or MSD Recovery outside acceptance limits.
- F2 = MS/MSD RPD above control limits.
- J = Estimated Concentration Value
- mg/L = Milligrams per Liter
- NC = No Criteria
- ND (-#) = Not detected above laboratory reporting limit (indicated by #)
- NS = Not Sampled
- NYSDEC = New York State Department of Environmental Conservation
- PAHs = Polycyclic Aromatic Hydrocarbons
- R = Rejected
- µg/L = Micrograms per Liter
- Bolded** = values indicated exceedance of the NYSDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-15

CONSTITUENT	UNITS	04/09/14	10/15/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	482	557	480	600	601	676	562	610	616	600	478	590	446	550	534	480	478	600	492	532	405	576	468	632
Chloride	mg/L	44.5	44.2	14.2	49.3	55.7	65.4	25.7	58.0	15.2	15.2	43.9	38	20.3	37.4	24.6	14.0	14.9	82.6	29.1	29.2	2.9	48.1	14.3	67.5
Ethane	µg/L	ND (<380)	ND (<380)	ND (<380)	ND (<380)	ND (<75)	6.2	3.2	5.1	2.8	2.1	3.4	5.1	ND (<1.00)	3.53 J	ND (<5.00)	ND (<2.0)	2.02	NS	1.96 J	ND (<10.0)	ND (<7.5)	6.7 J	ND (<170)	3.6 J
Ethene	µg/L	ND (<350)	ND (<350)	ND (<350)	ND (<350)	ND (<75)	0.038 J	0.037 J	ND (<0.10)	ND (<0.10)	0.042 J	ND (<1.0)	ND (<1.0)	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	2.1 J	ND (<150)	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	0.15 HF	ND (<0.1)	3.2	3.0	5.8	3.8	9.2	2.5	3.2	4.2	6.0	8.7	14.8	3.0	7.9	10.7	9.5	0.67	0.52	0.35	0.090 J
Manganese	mg/L	0.68	1	0.68	0.7	ND (<75)	0.609	0.0639	0.735	0.484	1.56	0.775	0.952	0.312	0.685	0.894	1.27	1.03	0.508	0.724	0.818	0.96	0.60	0.78	0.37
Methane	µg/L	1,100	2,400	16	1,600	720	3,400	1,900	2,900	640	3,100	1,400	3,600	416	2,400	348	1,020	2,650	NS	1,190	3,250	1,100	4,700	4,100	2,200
Nitrate	mg/L	ND (<0.05)	ND (<0.05)	0.28	ND (<0.05)	ND (<0.05)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.50)	ND (<0.10)	ND (<0.20)	ND (<2.0)	ND (<0.50)	0.11	ND (<0.10)	0.020 J	ND (<0.050)	0.020 J	0.020 J
Nitrogen	mg/L	3.2	2.9	0.81	3.9	3.4	4.7	2.0	4.4	3.1	1.9	1.4	3.1	1.9	2.0	2.2	1.8	1.9	4.5	1.7	2.6	1.0	2.9	1.3	3.8
Sulfate	mg/L	122	91.1	28.7	78.5	116	67.9	17.7	60.6	39.0	28.4	25.1	65.9	31.9	71.0	46.8	1.8	24.4	122	39.0	57.2	32.1	61.5	30.6	107
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.6	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

B = Present in Associated Blank Sample  
 D = Diluted Sample  
 J = Estimated Concentration  
 mg/L = Milligrams per Liter  
 MNA = Monitored Natural Attenuation  
 NA = Not Analyzed  
 ND (#) = Not detected above laboratory reporting limit (indicated by #)  
 NS = Not Sampled  
 R = Rejected  
 µg/L = Micrograms per Liter  
 WQ = Water Quality



Table 3  
 Groundwater Analytical Data  
 MW-16

CONSTITUENT	UNITS	NYSDEC AWQS Values	04/09/14	10/20/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25	
<b>BTEX Compounds</b>																											
Benzene	µg/L	1	8.7	59	91	40	76	149	5.9	143	80.6	127	126	143	56.6	130	15.0	97.6	9.1	59.3	12.4	89.6	6.6	82	8.6	79	
Ethylbenzene	µg/L	5	6.2	41	68	26	35	134	3.1	124	60.8	101	91.5	118	38.7	70.4	2.9	65.5	3.8	40.8	5.5	60.6	1.9	57	1.9	36	
m,p-Xylene	µg/L	5	ND (<1.0)	ND (<1.0)	ND (<1.0)	4.9	5	4.9	ND (<2.0)	9.3	6.6	8.7	9.5	9.3	3.9	2.8	ND (<2.0)	4.1	ND (<2.0)	3.0	ND (<2.0)	5.4	ND (<2.0)	3.9 J	ND (<2.0)	3.1 J	
o-Xylene	µg/L	5	ND (<1.0)	17	24	11	29	32.1	1.6	38.0	21.3	32.8	31.4	34.6	12.8	22.3	6.1	21.5	3.1	12.6	2.2	20.9	1.0	28	2.0	14	
Toluene	µg/L	5	ND (<1.0)	17	ND (<1.0)	1.4	ND (<2.0)	2.9	ND (<1.0)	3.8	2.1	3.8	3.7	4.5	1.5	3.0	ND (<1.0)	2.8	1.6	2.1	ND (<1.0)	3.4	ND (<1.0)	3.3	ND (<1.0)	2.3	
<b>PAHs</b>																											
Acenaphthene	µg/L	20	ND (<1.0)	40	27	14	31	54.7	3.0	39.5	39.1	57.8	45.2	53.3	14.6	47.0	9.9	55.1	10.6	48.1	12.7	53.5	18.0	60	7.3	57	
Acenaphthylene	µg/L	NC	ND (<0.48)	31	25	16	27	47.3	1.9	26.2	24.4	30.6	17.6	21.4	5.9	16.0	3.2	19.4	4.9	19.1	4.7	19.5	5.2	13	1.5 J	15	
Anthracene	µg/L	50	ND (<0.48)	2.8	1.8	1.2	ND (<0.5)	1.4	0.37	2.2	1.7	2.6	1.8	2.4	0.74	1.7	0.47	2.3	0.48	1.7	0.60	2.3	0.63	2.1 J	0.32 J	2.1 J	
Benzo(a)anthracene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	0.10	0.11	0.11	0.13	0.12	0.11	0.13	ND (<0.10)	0.23	ND (<0.098)	0.19	ND (<0.098)	0.13	ND (<0.10)	0.16	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	
Benzo(a)pyrene	µg/L	0.000	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.11	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.21	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(b)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.17	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.11)	0.11	ND (<0.10)	0.21	ND (<0.098)	0.12	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	
Benzo(g,h)perylene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	ND (<0.097)	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.14	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Benzo(k)fluoranthene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.15	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.11)	0.098	ND (<0.10)	ND (<0.098)	ND (<0.098)	0.11	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	
Chrysene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	0.098	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.11)	0.11	ND (<0.10)	0.19	ND (<0.098)	0.14	ND (<0.098)	ND (<0.10)	ND (<0.10)	0.11	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	
Dibenz(a,h)anthracene	µg/L	NC	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	ND (<0.097)	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.11)	ND (<0.097)	ND (<0.10)	ND (<0.098)	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Fluoranthene	µg/L	50	ND (<0.48)	2.7	1.6	1.1	ND (<2.5)	1.6	0.41	2.5	1.9	2.4	1.9	3.0	1.1	2.6	0.47	3.40	0.72	2.2	0.92	3.3	1.2	2.3	0.41 J	2.5 J	
Fluorene	µg/L	50	ND (<0.48)	22	14	7.1	15	22.2	1.1	17.2	17.2	19.5	12.8	24.1	5.3	16.9	1.8	20.5	3.4	16.2	5.1	20.6	6.3	21	2.1 J	26	
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (<0.48)	ND (<0.48)	ND (<0.50)	ND (<0.50)	ND (<2.5)	ND (<0.10)	ND (<0.097)	ND (<0.098)	ND (<0.099)	ND (<0.099)	ND (<0.11)	ND (<0.097)	ND (<0.10)	0.11	ND (<0.098)	ND (<0.10)	ND (<0.098)	ND (<0.10)	ND (<0.10)	ND (<5.0)	ND (<5.2)	ND (<5.0)	ND (<5.0)	ND (<5.0)	
Naphthalene	µg/L	10	ND (<0.48)	1.7	4.6	5.1	7.4	4.5	0.16	5.8	39.9	9.8	12.9	36.9	2.2	9.0	1.4	14.4	6.3	16.3	9.9	25.3	9.9	25	3.0 J	23	
Phenanthrene	µg/L	50	ND (<0.48)	18	11	6.7	10	15.9	0.99	15.7	14.1	16.5	11.6	18.4	2.5	13.1	ND (<0.098)	15.4	3.5	13.0	4.1	18.2	5.3	20	1.1 J	22	
Pyrene	µg/L	50	ND (<0.48)	3	1.8	1.2	ND (<2.5)	2.0	0.50	2.7	2.1	2.5	2.1	3.3	1.2	2.9	0.54	3.8	0.80	2.30	1.0	3.7	1.5 J	2.8 J	0.47 J	3.1 J	
<b>Cyanide and Lead</b>																											
Lead	µg/L	25	ND (<5.0)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<10)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	6.1	ND (<5.0)	ND (<20)	ND (<10.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	17	ND (<10)	ND (<10)	ND (<10)	
Cyanide	mg/L	0.2	0.023	0.25	0.24	0.24	0.25	0.25	0.21	0.25	0.23	0.26	0.192	0.23	0.19	0.25	0.17	0.14	0.14	0.19	0.12	0.20	0.17	0.22	0.15	0.20	

- AWQS = Ambient Water Quality Standards
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- E = Result exceeded calibration range
- F1 = MS and/or MSD Recovery outside acceptance limits.
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- R = Rejected
- µg/L = Micrograms per Liter
- Bolded** = values indicated exceedance of the NYSEDEC AWQS



**Table 3**  
**Groundwater Analytical Data**  
 MW-16

CONSTITUENT	UNITS	04/09/14	10/15/14	04/16/15	10/13/15	04/06/16	10/25/16	04/26/17	10/11/17	04/26/18	10/16/18	04/18/19	10/16/19	05/20/20	10/07/20	04/14/21	10/06/21	04/13/22	10/06/22	04/19/23	10/11/23	04/16/24	10/17/24	04/16/25	10/08/25
<b>MNA/WQ Parameters</b>																									
Alkalinity (as CaCO <sub>3</sub> )	mg/L	454	595	532	638	615	636	706	630	724	740	560	650	156	670	680	760	546	674	450	674	616	701	591	726
Chloride	mg/L	5	6.5	5.8	4.9	5.7	6.8	3.4	6.5	5.6	4.8	11.8	4.8	3.6	5.2	3.6	3.8	ND (<3.0)	5.7	ND (<3.0)	5.7	3.6	5.4	3.4	5.2
Ethane	µg/L	ND (<750)	ND (<750)	ND (<75)	ND (<75)	ND (<75)	1.2	0.15J	0.84J	0.82J	0.99J	0.92J	1.1	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<5.00)	ND (<7.5)	44 J	ND (<7.5)	ND (<7.5)
Ethene	µg/L	ND (<700)	ND (<700)	ND (<7.0)	ND (<7.0)	ND (<7.5)	0.24J	0.036J	0.16J	0.13J	0.17J	0.15 J	0.20 J	ND (<1.00)	ND (<5.00)	ND (<5.00)	ND (<2.0)	ND (<1.00)	NS	ND (<1.00)	ND (<1.00)	ND (<7.0)	42 J	ND (<7.0)	ND (<7.0)
Ferrous Iron	mg/L	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	ND (<0.1)	2.4	1.2	3.9	3.1	2.6	1.9	2.6	3.0	0.19	4.7	3.6	7.4	0.30	9.0	0.9	1.5	0.15	0.19	0.19
Manganese	mg/L	0.22	0.63	0.42	0.33	ND (<75)	0.601	0.522	0.599	0.551	0.552	0.603	0.658	0.373	0.650	0.373	0.646	0.275	0.553	0.125	0.634	0.19	0.57	0.10	0.63
Methane	µg/L	75	410	160	1100	110	900	180	780	820	830	850	1100	4.95 J	488	ND (<5.00)	500	173	NS	22.1	641	330	1,200	230	1,100
Nitrate	mg/L	0.53	ND (<0.05)	ND (<0.05)	0.37	0.074	ND (<0.10)	0.33	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<0.10)	ND (<1.0)	ND (<1.0)	ND (<0.50)	0.79	ND (<0.10)	0.32	0.023 J	0.75	0.081
Nitrogen	mg/L	2.4	3.3	2.1	1.9	2.6	5.4	2.4	3.2	2.3	3.2	3.4	3.9	2	2.8	2.4	3.9	2.2	3.7	1.0	3.9	1.1	2.2	0.91	3.4
Sulfate	mg/L	ND (<1.0)	107	38.2	22.8	13.3	145	37.8	77.7	111	75.8	79.6	67.7	39	95.7	37.5	56.8	25.9	36.2	28.5	30.2	8.6	30.0	39.9	29.4
Sulfide	mg/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.0	ND (<1.0)	1.0	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)

- B = Present in Associated Blank Sample
- D = Diluted Sample
- J = Estimated Concentration
- mg/L = Milligrams per Liter
- MNA = Monitored Natural Attenuation
- NA = Not Analyzed
- ND (#) = Not detected above laboratory reporting limit (indicated by #)
- NS = Not Sampled
- R = Rejected
- µg/L = Micrograms per Liter
- WQ = Water Quality



## Appendix A – Field Data

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Well ID	Sample?	Well Size?	DTW	DTP	DTB	Comments
RW-1	No	2"	17.80		21.50	
MW-4	Yes	2"	24.30		27.32	
MW-7	Yes	2"	<del>15.73</del> 14.73		22.10	
MW-10	Yes	2"	14.34		22.05	
MW-11	Yes	2"	13.00		22.90	
MW-12	Yes	2"	15.72		22.24	
MW-13	Yes	2"	16.38		22.75	MS/MSD
MW-14	Yes	2"	16.45		23.55	Field Duplicate
MW-15	Yes	2"	17.82		23.00	
MW-16	Yes	2"	11.46		19.45	
Gauge-1 (bridge)	No		15.00		19.76	

DTW - depth to water  
 DTP - depth to product  
 DTB - depth to bottom  
 All from top of casing

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel:  
Job Number: 0625050-120950-221  
Well Id. MW-4

Date: 10/2/25  
Weather: Sunny  
Time In: 11:20 Time Out:

Well Information		
	TOC	Other
Depth to Water: (feet)	24.30	
Depth to Bottom: (feet)	27.32	
Depth to Product: (feet)		
Length of Water Column: (feet)	3.02	
Volume of Water in Well: (gal)	0.48	
Three Well Volumes: (gal)	1.44	

Well Type:  Flushmount  Stick-Up   
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments:

Purging Information			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>
Average Pumping Rate: (ml/min)	300		
Duration of Pumping: (min)	30		
Total Volume Removed: (gal)	2		
Horiba U-52 Water Quality Meter Used?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Did well go dry? Yes  No

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
11:15	24.37	14.65	7.45	96	0.001	110	12.19	1.16
11:20	24.50	14.67	7.10	112	1.80	96.1	4.29	1.14
11:25	24.67	14.01	7.06	115	1.60	46.8	3.49	1.02
11:30	24.74	13.93	7.05	117	1.58	13.0	3.74	1.01
11:35	24.80	13.95	7.05	120	1.57	5.5	3.70	1.00
11:40	24.85	14.10	7.04	123	1.55	2.9	3.51	0.992
11:45	24.85	14.00	7.04	125	1.55	2.6	3.52	0.993

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: MW-4 Duplicate? Yes  No   
 Sample Time: 11:45 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins Amherst, New York

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel: Peters Lyon  
Job Number: 0625050-120950-221  
Well Id. MW-7

Date: 10/8/25  
Weather: light rain 54°  
Time In: 0843 Time Out: 0920

Well Information			TOC	Other
Depth to Water:	(feet)	<u>14.73</u>		
Depth to Bottom:	(feet)	<u>22.10</u>		
Depth to Product:	(feet)	<u>-</u>		
Length of Water Column:	(feet)	<u>2.27</u>		
Volume of Water in Well:	(gal)	<u>1.16</u>		
Three Well Volumes:	(gal)	<u>3.48</u>		

Well Type:  Flushmount  Stick-Up   
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  1"  SS  2"  Other: \_\_\_\_\_  
 Well Diameter: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information			Conversion Factors					
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID	
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of				
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min)	<u>200</u>		1 gallon=3.785L=3785mL=1337cu. feet				
Duration of Pumping:	(min)	<u>30</u>						
Total Volume Removed:	(gal)	<u>2</u>	Did well go dry? Yes <input type="checkbox"/> No <input type="checkbox"/>					
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0845</u>	<u>15.61</u>	<u>14.42</u>	<u>7.75</u>	<u>-33</u>	<u>1.20</u>	<u>156</u>	<u>3.37</u>	<u>0.768</u>
<u>0850</u>	<u>15.99</u>	<u>14.32</u>	<u>7.92</u>	<u>-76</u>	<u>1.18</u>	<u>155</u>	<u>0.86</u>	<u>0.758</u>
<u>0855</u>	<u>16.29</u>	<u>14.16</u>	<u>8.19</u>	<u>-86</u>	<u>1.18</u>	<u>127</u>	<u>0.57</u>	<u>0.753</u>
<u>0900</u>	<u>16.68</u>	<u>14.13</u>	<u>8.35</u>	<u>-91</u>	<u>1.14</u>	<u>68.0</u>	<u>0.48</u>	<u>0.753</u>
<u>0905</u>	<u>16.85</u>	<u>14.17</u>	<u>8.44</u>	<u>-99</u>	<u>1.18</u>	<u>47.6</u>	<u>0.47</u>	<u>0.755</u>
<u>0910</u>	<u>16.99</u>	<u>14.25</u>	<u>8.50</u>	<u>-98</u>	<u>1.19</u>	<u>47.2</u>	<u>0.51</u>	<u>0.759</u>
<u>0915</u>	<u>17.15</u>	<u>14.27</u>	<u>8.53</u>	<u>-102</u>	<u>1.19</u>	<u>36.8</u>	<u>0.51</u>	<u>0.758</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: MW-7  
Sample Time: 0915

Duplicate? Yes  No   
MS/MSD? Yes  No

Shipped: Syracuse Service Center   
Fed-Ex  Courier   
Laboratory: Eurofins  
Amherst, New York

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel: Eric Lyon  
Job Number: 0625050-120950-221  
Well Id. MW-10

Date: 10/8/15  
Weather: 52° Cloudy  
Time In: 0932 Time Out: 100

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>14.34</u>	
Depth to Bottom: (feet)	22.05	
Depth to Product: (feet)	—	
Length of Water Column: (feet)	<u>7.71</u>	
Volume of Water in Well: (gal)	<u>1.23</u>	
Three Well Volumes: (gal)	<u>3.70</u>	

Well Type: Flushmount  Yes  No  Stick-Up  No

Well Locked: Yes  No

Measuring Point Marked: Yes  No

Well Material: PVC  SS  Other: \_\_\_\_\_

Well Diameter: 1"  2"  Other: \_\_\_\_\_

Comments: \_\_\_\_\_

Purging Information			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>
Average Pumping Rate: (ml/min)	<u>200</u>		
Duration of Pumping: (min)	<u>30</u>		
Total Volume Removed: (gal)	<u>2</u>		
Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
gal/ft. of water	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
0935	14.86	16.09	6.83	-31	2.46	52.4	4.01	1.58
0940	15.43	15.52	7.40	-93	2.54	88.3	0.48	1.62
0945	15.90	15.60	7.50	-98	2.55	63.8	0.33	1.63
0950	16.20	15.82	7.61	-104	2.52	33.4	0.11	1.65
0955	16.23	15.94	7.67	-108	2.58	29.8	0.05	1.65
1000	16.37	16.11	7.72	-115	2.59	16.1	0.00	1.66
1005	16.59	16.42	7.73	-120	2.60	14.5	0.00	1.66

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc-Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: MW-10 Duplicate? Yes  No

Sample Time: 1205 MS/MSD? Yes  No

Shipped: Syracuse Service Center  Fed-Ex  Courier

Laboratory: Eurofins Amherst, New York

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel: Peter Lyon  
Job Number: 0625050-120950-221  
Well Id. MW-11

Date: 10/8/15  
Weather: 58° cloudy  
Time In: 1042 Time Out: 1120

Well Information			TOC	Other
Depth to Water:	(feet)	<u>13.00</u>		
Depth to Bottom:	(feet)	<u>22.90</u>		
Depth to Product:	(feet)	<u>-</u>		
Length of Water Column:	(feet)	<u>9.90</u>		
Volume of Water in Well:	(gal)	<u>1.58</u>		
Three Well Volumes:	(gal)	<u>4.75</u>		

Well Type:  Flushmount  Stick-Up  
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	gal/ft. of water	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>		0.04	0.16	0.66	1.47
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>		1 gallon=3.785L=3785mL=1337cu. feet			
Average Pumping Rate:	(ml/min)	<u>200</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Duration of Pumping:	(min)	<u>30</u>	Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Total Volume Removed:	(gal)	<u>0</u>						

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1045</u>	<u>13.22</u>	<u>17.65</u>	<u>6.74</u>	<u>-8</u>	<u>2.78</u>	<u>21.5</u>	<u>3.31</u>	<u>1.83</u>
<u>1050</u>	<u>13.27</u>	<u>16.50</u>	<u>7.33</u>	<u>-75</u>	<u>3.46</u>	<u>18.7</u>	<u>0.93</u>	<u>2.21</u>
<u>1055</u>	<u>13.32</u>	<u>16.03</u>	<u>7.52</u>	<u>-86</u>	<u>3.58</u>	<u>10.8</u>	<u>0.33</u>	<u>2.29</u>
<u>1100</u>	<u>13.38</u>	<u>15.97</u>	<u>7.58</u>	<u>-91</u>	<u>3.68</u>	<u>2.2</u>	<u>0.07</u>	<u>2.35</u>
<u>1105</u>	<u>13.44</u>	<u>15.98</u>	<u>7.60</u>	<u>-93</u>	<u>3.66</u>	<u>10.9</u>	<u>0.00</u>	<u>2.34</u>
<u>1110</u>	<u>13.46</u>	<u>16.12</u>	<u>7.60</u>	<u>-96</u>	<u>3.69</u>	<u>10.5</u>	<u>0.00</u>	<u>2.36</u>
<u>1115</u>	<u>13.46</u>	<u>16.33</u>	<u>7.59</u>	<u>-98</u>	<u>3.69</u>	<u>9.3</u>	<u>0.00</u>	<u>2.37</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: MW-11 Duplicate? Yes  No   
 Sample Time: 1115 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins  
 Amherst, New York

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel: LC  
Job Number: 0625050-120950-221  
Well Id. MW-12

Date: 10/8/25  
Weather: Sun 60  
Time In: 10:05 Time Out: 11:20

Well Information			TOC	Other
Depth to Water:	(feet)		<u>15.73</u>	
Depth to Bottom:	(feet)		<u>22.24</u>	
Depth to Product:	(feet)		<u>-</u>	
Length of Water Column:	(feet)		<u>6.51</u>	
Volume of Water in Well:	(gal)		<u>1.04</u>	
Three Well Volumes:	(gal)		<u>3.12</u>	

Well Type:  Flushmount  Stick-Up   
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	gal/ft. of water	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	0.04	0.16	0.66	1.47	
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet				
Average Pumping Rate:	(ml/min)	<u>210</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Duration of Pumping:	(min)	<u>32</u>	Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Total Volume Removed:	(gal)	<u>2</u>						

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>10:15</u>	<u>15.90</u>	<u>13.46</u>	<u>7.12</u>	<u>27</u>	<u>3.10</u>	<u>15.9</u>	<u>6.63</u>	<u>2.06</u>
<u>10:20</u>	<u>15.90</u>	<u>12.72</u>	<u>6.91</u>	<u>50</u>	<u>4.63</u>	<u>75.8</u>	<u>1.47</u>	<u>2.97</u>
<u>10:25</u>	<u>15.90</u>	<u>12.80</u>	<u>6.90</u>	<u>55</u>	<u>4.72</u>	<u>42.5</u>	<u>1.60</u>	<u>3.02</u>
<u>10:30</u>	<u>15.90</u>	<u>12.83</u>	<u>6.90</u>	<u>64</u>	<u>4.77</u>	<u>19.8</u>	<u>0.94</u>	<u>3.05</u>
<u>10:35</u>	<u>15.90</u>	<u>12.84</u>	<u>6.90</u>	<u>68</u>	<u>4.76</u>	<u>14.7</u>	<u>1.20</u>	<u>3.05</u>
<u>10:40</u>	<u>15.90</u>	<u>12.87</u>	<u>6.90</u>	<u>75</u>	<u>4.71</u>	<u>0.6</u>	<u>1.10</u>	<u>3.02</u>
<u>10:45</u>	<u>15.90</u>	<u>12.85</u>	<u>6.90</u>	<u>80</u>	<u>4.69</u>	<u>8.2</u>	<u>0.54</u>	<u>3.00</u>

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E
				Nitrite-Nitrite as N	EPA Method 353.2
				Sulfate	D516
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2
				Total Kjeldahl Nitrogen	EPA Method 351.2
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175

Sample ID: MW-12 Duplicate? Yes  No   
 Sample Time: 10:45 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins   
 Amherst, New York

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel: W  
Job Number: 0625050-120950-221  
Well Id. MW-13

Date: 10/9/22  
Weather: Cloudy 60  
Time In: 09:30 Time Out: \_\_\_\_\_

Well Information			TOC	Other
Depth to Water:	(feet)	<u>16.30</u>		
Depth to Bottom:	(feet)	<u>22.75</u>		
Depth to Product:	(feet)	<u>-</u>		
Length of Water Column:	(feet)	<u>6.37</u>		
Volume of Water in Well:	(gal)	<u>1.01</u>		
Three Well Volumes:	(gal)	<u>3.05</u>		

Well Type:	Flushmount <input checked="" type="checkbox"/>	Stick-Up <input type="checkbox"/>
Well Locked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Measuring Point Marked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Well Material:	PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Other: _____	
Well Diameter:	1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/> Other: _____	
Comments:	_____	

Purging Information			Conversion Factors					
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID	
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of water	0.04	0.16	0.66	1.47
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet				
Average Pumping Rate:	(ml/min)	<u>200</u>	Did well go dry?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Duration of Pumping:	(min)	<u>30</u>	Horiba U-52 Water Quality Meter Used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Total Volume Removed:	(gal)	<u>2</u>						

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
09:00	16.60	14.60	7.92	46	0.497	14.3	5.59	0.324
09:05	16.75	13.45	7.86	58	0.505	24.1	2.54	0.323
09:10	17.25	13.43	7.96	-12.3	0.480	6.2	0.39	0.312
09:15	17.20	13.36	7.94	-141	0.487	4.0	0.04	0.317
09:20	17.35	13.25	7.95	-151	0.505	4.3	0.00	0.328
09:25	17.40	13.16	7.92	-160	0.527	4.4	0.00	0.338
09:30	17.55	13.08	7.91	-169	0.543	5.0	0.00	0.348

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 Cl E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

MW-13-MS and MW-13-MSD  
 Sample ID: MW-13 Duplicate? Yes  No   
 Sample Time: 09:30 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center  
 Fed-Ex  Courier   
 Laboratory: Eurofins  
 Amherst, New York

Sampling Personnel: AS  
Job Number: 0625050-120950-221  
Well Id: MW-14

Date: 10/8/25  
Weather: 56°F, cloudy  
Time In: 0935 Time Out: 1045

Well Information			TOC	Other
Depth to Water:	(feet)	<u>16.45</u>		
Depth to Bottom:	(feet)	<u>23.55</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>7.10</u>		
Volume of Water in Well:	(gal)	<u>1.13</u>		
Three Well Volumes:	(gal)	<u>3.4</u>		

Well Type: \_\_\_\_\_  
Well Locked: \_\_\_\_\_  
Measuring Point Marked: \_\_\_\_\_  
Well Material: \_\_\_\_\_  
Well Diameter: \_\_\_\_\_  
Comments: \_\_\_\_\_

Flushmount:  Yes  No  
Stick-Up:  Yes  No  
PVC:  1"  2"  Other: \_\_\_\_\_  
SS:  Other: \_\_\_\_\_

Purging Information				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66
Average Pumping Rate:	<u>150</u> (ml/min)			1 gallon=3.785L=3785mL=1337cu. feet			
Duration of Pumping:	<u>30</u> (min)						
Total Volume Removed:	<u>2.5</u> (gal)		Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0940</u>	<u>16.62</u>	<u>14.13</u>	<u>6.89</u>	<u>-110</u>	<u>0.968</u>	<u>162</u>	<u>2.34</u>	<u>0.637</u>
<u>0945</u>	<u>16.67</u>	<u>14.49</u>	<u>6.97</u>	<u>-67</u>	<u>0.777</u>	<u>612</u>	<u>4.05</u>	<u>0.490</u>
<u>0950</u>	<u>16.75</u>	<u>14.47</u>	<u>6.87</u>	<u>-81</u>	<u>1.03</u>	<u>890</u>	<u>1.32</u>	<u>0.657</u>
<u>0955</u>	<u>16.83</u>	<u>14.34</u>	<u>6.85</u>	<u>-100</u>	<u>1.13</u>	<u>944</u>	<u>0.10</u>	<u>0.774</u>
<u>1000</u>	<u>16.90</u>	<u>14.15</u>	<u>6.86</u>	<u>-112</u>	<u>1.16</u>	<u>1000</u>	<u>0.00</u>	<u>0.739</u>
<u>1005</u>	<u>16.96</u>	<u>14.04</u>	<u>6.95</u>	<u>-116</u>	<u>1.16</u>	<u>1000</u>	<u>0.00</u>	<u>0.739</u>
<u>1010</u>								

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Field Duplicate: \_\_\_\_\_  
Sample ID: MW-14 Duplicate? Yes  No   
Sample Time: 1015 MS/MSD? Yes  No   
Shipped: Syracuse Service Center   
Fed-Ex  Courier   
Laboratory: Eurofins   
Amherst, New York

National Grid  
109 North Market Street, Johnstown New York

Sampling Personnel: AS  
Job Number: 0625050-120950-221  
Well Id. **MW-15**

Date: 10/8/25  
Weather: 55° F, cloudy  
Time In: 0835 Time Out: 0930

Well Information			TOC	Other
Depth to Water:	(feet)	<u>17.82</u>		
Depth to Bottom:	(feet)	<u>23.00</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>5.18</u>		
Volume of Water in Well:	(gal)	<u>0.82</u>		
Three Well Volumes:	(gal)	<u>2.4</u>		

Well Type:  Flushmount  Yes  No  
 Well Locked:  Yes  No  
 Measuring Point Marked:  Yes  No  
 Well Material: PVC  1"  SS  2"  Other: \_\_\_\_\_  
 Well Diameter: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of			
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input type="checkbox"/>	Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	water	0.04	0.16	0.66
Average Pumping Rate:	<u>150</u> (ml/min)				1 gallon=3.785L=3785mL=133.7cu. feet		
Duration of Pumping:	<u>30</u> (min)						
Total Volume Removed:	<u>2.5</u> (gal)						
Horiba U-52 Water Quality Meter Used?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0840</u>	<u>Below Pump</u>	<u>13.86</u>	<u>6.71</u>	<u>-127</u>	<u>1.19</u>	<u>3.7</u>	<u>0.36</u>	<u>0.762</u>
<u>0845</u>		<u>13.86</u>	<u>6.72</u>	<u>-131</u>	<u>1.20</u>	<u>3.4</u>	<u>0.24</u>	<u>0.766</u>
<u>0850</u>		<u>13.86</u>	<u>6.72</u>	<u>-136</u>	<u>1.22</u>	<u>2.8</u>	<u>0.00</u>	<u>0.781</u>
<u>0855</u>		<u>13.85</u>	<u>6.74</u>	<u>-139</u>	<u>1.24</u>	<u>2.8</u>	<u>0.00</u>	<u>0.792</u>
<u>0900</u>		<u>13.83</u>	<u>6.75</u>	<u>-140</u>	<u>1.25</u>	<u>2.8</u>	<u>0.00</u>	<u>0.802</u>
<u>0905</u>		<u>13.80</u>	<u>6.76</u>	<u>-141</u>	<u>1.27</u>	<u>2.8</u>	<u>0.00</u>	<u>0.811</u>
<u>0910</u>	<u>↓</u>	<u>13.78</u>	<u>6.80</u>	<u>-142</u>	<u>1.30</u>	<u>3.1</u>	<u>0.00</u>	<u>0.830</u>

Sampling Information:						
Quantity	Size	Material	Preservative	Compounds analyzed	Method	
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270	
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D	
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate, Calc- Nitrogen, Nitrate	SM 4500 CI E	
				Nitrite-Nitrite as N	EPA Method 353.2	
				Sulfate	D516	
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2	
				Total Kjeldahl Nitrogen	EPA Method 351.2	
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010	
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260	
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B	
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F	
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B	
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2	
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175	

Sample ID: MW-15 Duplicate? Yes  No   
 Sample Time: 0915 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
 Laboratory: Eurofins  
 Amherst, New York

Sampling Personnel: AS  
Job Number: 0625050-120950-221  
Well Id. MW-16

Date: 10/8/25  
Weather: 59°F, mostly cloudy  
Time In: 1050 Time Out: 1175

Well Information		TOC	Other
Depth to Water:	(feet)	<u>11.46</u>	
Depth to Bottom:	(feet)	<u>19.45</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>7.99</u>	
Volume of Water in Well:	(gal)	<u>1.27</u>	
Three Well Volumes:	(gal)	<u>3.8</u>	

Well Type:  Flushmount  Stick-Up   
 Well Locked: Yes  No   
 Measuring Point Marked: Yes  No   
 Well Material: PVC  SS  Other: \_\_\_\_\_  
 Well Diameter: 1"  2"  Other: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Purging Information		Conversion Factors				
Purging Method:	Bailer <input type="checkbox"/> Peristaltic <input type="checkbox"/> Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1" ID	2" ID	4" ID	6" ID	
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input type="checkbox"/> Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	gal/ft. of water	0.04	0.16	0.66	1.47
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input type="checkbox"/> Well Wizard Dedicated Pump <input checked="" type="checkbox"/>	1 gallon=3.785L=3785mL=1337cu. feet				
Average Pumping Rate:	<u>150</u> (ml/min)					
Duration of Pumping:	<u>30</u> (min)					
Total Volume Removed:	<u>2.5</u> (gal)	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1055</u>	<u>11.88</u>	<u>14.01</u>	<u>7.03</u>	<u>-63</u>	<u>1.10</u>	<u>113</u>	<u>3.93</u>	<u>0.704</u>
<u>1100</u>	<u>12.12</u>	<u>13.77</u>	<u>7.02</u>	<u>-117</u>	<u>1.15</u>	<u>36.3</u>	<u>0.87</u>	<u>0.734</u>
<u>1105</u>	<u>12.29</u>	<u>13.74</u>	<u>7.05</u>	<u>-133</u>	<u>1.15</u>	<u>15.6</u>	<u>0.00</u>	<u>0.736</u>
<u>1110</u>	<u>12.58</u>	<u>13.74</u>	<u>7.05</u>	<u>-135</u>	<u>1.16</u>	<u>10.9</u>	<u>0.00</u>	<u>0.740</u>
<u>1115</u>	<u>12.81</u>	<u>13.75</u>	<u>7.03</u>	<u>-139</u>	<u>1.18</u>	<u>7.9</u>	<u>0.00</u>	<u>0.755</u>
<u>1120</u>	<u>12.99</u>	<u>13.74</u>	<u>7.02</u>	<u>-141</u>	<u>1.20</u>	<u>6.1</u>	<u>0.00</u>	<u>0.767</u>
<u>1125</u>	<u>13.21</u>	<u>13.73</u>	<u>7.02</u>	<u>-145</u>	<u>1.22</u>	<u>4.8</u>	<u>0.00</u>	<u>0.778</u>

Quantity	Size	Material	Preservative	Compounds analyzed	Method
2	250 mL	Glass	Unpreserved	SVOC PAH's	EPA SW-846 Method 8270
1	125 mL	Plastic	Unpreserved	Ferrous Iron	SM 3500 FE D
2	125 mL	Plastic	Unpreserved	Chloride, Nitrate_Calc- Nitrogen, Nitrate	SM 4500 CI E
				Nitrite-Nitrite as N	EPA Method 353.2
				Sulfate	D516
1	125 mL	Plastic	H2SO4	Nitrate Nitrite as N	EPA Method 353.2
				Total Kjeldahl Nitrogen	EPA Method 351.2
1	250 mL	Plastic	HNO3	Lead & Manganese	EPA Method 6010
3	40 mL	Glass	HCl	VOC's & BTEX	EPA SW-846 Method 8260
1	125 mL	Plastic	NaOH	Total Cyanide	EPA Method 9012B
1	250 mL	Plastic	NaOH & Zinc Acetate	Sulfide	SM 4500 S2 F
1	125 mL	Plastic	Unpreserved	Alkalinity	2320B
3	40 mL	Glass	Unpreserved	Carbon Dioxide	RSK_175_CO2
3	40 mL	Glass	HCl	Methane/Ethane/Ethene	RSK_175

Sample ID: MW-16 Duplicate? Yes  No   
 Sample Time: 1130 MS/MSD? Yes  No   
 Shipped: Syracuse Service Center   
 Fed-Ex  Courier   
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## Appendix B – Data Usability Summary Report

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November 12, 2025

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RE: Data Usability Summary Report for National Grid: Johnstown, NY Site Data Package  
Eurofins Buffalo Analytical Job No. 480-233427-1

Groundwater & Environmental Services, Inc. (GES) reviewed one data package (Laboratory Project Number 480-233427-1) from Eurofins Buffalo., for the analysis of groundwater samples collected on October 8, 2025 from monitoring wells located at the National Grid: Johnstown, NY Site. Nine aqueous samples and a field duplicate were analyzed for dissolved gases, PAHs, Nitrogen, Metals, Alkalinity, Chloride, Ferrous Iron, Cyanide, Sulfide and Sulfate. Methodologies utilized were ASTM and USEPA methods with additional QC requirements of the NYSDEC ASP.

The data were reported as part of a complete full deliverable type B data validation. This usability report is generated from review of the following:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate (MS/MSD) Correlations
- Field Duplicate Correlations
- Laboratory Control Sample (LCS)
- Preparation/Calibration Blanks
- Calibration/Low Level Standard Responses
- Instrumental Tunes
- Instrument MDLs

The items listed above which show deficiencies are discussed within the text of this narrative.

All the other items were determined to be acceptable for the DUSR level review.

In summary, sample results were usable as reported, with exceptions due to poor accuracy in the MS/MSD recoveries.

The laboratory case narratives and sample identification summary forms are attached to this text and should be reviewed in conjunction with this report.



**Table 1. Laboratory – Field Cross Reference**

Lab ID	Sample ID	Date Collected	Date Received
480-233427-1	MW-4	10/08/25 11:45	10/09/25 10:30
480-233427-2	MW-7	10/08/25 09:15	10/09/25 10:30
480-233427-3	MW-10	10/08/25 10:05	10/09/25 10:30
480-233427-4	MW-11	10/08/25 11:15	10/09/25 10:30
480-233427-5	MW-12	10/08/25 10:45	10/09/25 10:30
480-233427-6	MW-13	10/08/25 09:30	10/09/25 10:30
480-233427-7	MW-14	10/08/25 10:15	10/09/25 10:30
480-233427-8	MW-15	10/08/25 09:15	10/09/25 10:30
480-233427-9	MW-16	10/08/25 11:30	10/09/25 10:30
480-233427-10	Field Duplicate	10/08/25 00:00	10/09/25 10:30
480-233427-11	Trip Blank	10/08/25 00:00	10/09/25 10:30

**Table 2. Validation Qualifiers**

Sample ID	Qualifier	Analyte	Reason for qualification
MW-13	UJ	Benzo(b)fluoranthene Dibenz(a,h) anthracene Indeno[1,2,3-cd]pyrene	MS/MSD RPD out of specification
	J-	Fluoranthene Cyanide MW-13	MS/MSD recovery low
	R	Carbon dioxide Alkalinity	MS recovery 10%
MW-7 MW-10 MW-11	Cyanide	J+	Blank detection
MW-12	Cyanide	U at RL	Blank detection
MW- All Samples	J	Ferrous Iron	Analyzed outside hold time
All Samples	J-/UJ	Nitrate and Nitrate/Nitrite as N	Analyzed outside hold time

J-: estimated, low bias  
 R: rejected/ unusable data  
 J: estimated, bias unknown  
 U at RL: Non-detect at the reporting limit.

In summary, sample results were usable as reported, except for analytes noted with below criteria QC recoveries. Data qualified with an R qualifier are considered unusable for project objectives.

The laboratory case narratives and sample identification summary forms are attached to this text and should be reviewed in conjunction with this report.

## **BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP**

Sample holding times were met and instrumental tune fragmentations were within acceptance ranges. Some samples were reported with elevated reporting limits due to high target analytes or matrix issues causing foaming.

Surrogates were within required limits. Laboratory and field-generated blanks reported no detections above reporting limit. Calibration standards show acceptable responses within analytical protocol and validation action limits.

The MS/MSD and BS/BSD recoveries were within criteria.

Precision calculations for LCS/LCSD and MS/MSDs showed that the recoveries were consistent, as RPDs were within the <30% EPA recommended value. Surrogate recovery was within bounds, and LCS recoveries were compliant, and used to determine method efficacy.

The field duplicate correlations were not calculated as neither sample had above reporting limit detections.

## **PAHs by EPA8270D/NYSDEC ASP**

Holding times were met. Instrumental tune fragmentations were within acceptance ranges. Surrogate recoveries were within analytical and validation guidelines.

Blanks show no contamination.

Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines.

LC/LCSD recoveries and RPD were within criteria.

The MS/MSD associated with MW-13 reported multiple out of specification recoveries. For high recoveries without corresponding detections, no qualifications were required.

Multiple analytes reported low recovery in the MS/MSD although the original sample was below reporting limit, and the concentration was estimated. The following analytes are considered accurate based upon using half the RL as the concentration rather than the estimated value below RL.

- Acenaphthylene

Analytes that recovered high in the MS/MSD and had no associated concentrations in the sample are not qualified as high bias does not affect non-detect analytes.

The following analytes recovered low and are qualified as low biased (J- for detections, UJ for non-detections):

- Fluorene

The following analytes are qualified as estimated as the RPD in the MS/MSD exceeded the EPA maximum of 30%:

- Benzo(b)fluoranthene
- Dibenz(a,h) anthracene
- Fluoranthene
- Indeno[1,2,3-cd]pyrene

Field precision calculations are noted in **Table 3** at the end of the report.

### **Lead and Manganese by EPA 6010/NYDESC ASP**

The matrix spike, post digestion spike, and serial dilutions were performed on samples not associated with the project. Blank samples show no contamination above the reporting limit.

LCS/LCSD and the MW-13 MS recovered within specification. There were no qualifiers required.

Field precision calculations are noted in **Table 3** at the end of the report.

### **Wet Chemistry Tests and Total Cyanide by 9012B/ NYSDEC ASP**

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy, and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples with the following exceptions:

- Cyanide was reported in the method blank below RL but above MDL. All above RL results less than 10 times the RL are qualified as estimated with at possible high bias. All below RL concentrations are qualified as non-detect at the RL.
- Cyanide recovery in MW-13 was low in the MS/MSD. The concentration reported is qualified as possibly biased low.

Calibration standard responses were compliant.

Field precision calculations are noted in **Table 3** at the end of the report.

### **Ferrous Iron by SM3500-FeD-00/ NYSDEC ASP**

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, and accuracy and precision. Samples were prepared outside of hold time, and all sample data is qualified as estimated with an indeterminate bias. All other compliance data were found acceptable for the validated samples.

Calibration standard responses were compliant. Blanks show no detections above the reporting limits.

Field precision calculations were not calculated, as the concentrations were below reporting limit.

### **Total Kjeldahl Nitrogen, Nitrogen as Nitrate/Nitrite by EPA 351.2 & 353.2/NYDESC ASP**

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy, and precision, etc., as applicable to each procedure.



Samples were prepared outside of hold time, and all sample data is qualified as estimated with an indeterminate bias. All were found acceptable for the validated samples with the following exception:

- MW-13 MS for total Kjeldahl Nitrogen recovered low.
- MW-14 MS for Nitrate nitrite as N recovered low.

Field precision calculations are noted in **Table 3** at the end of the report.

### **Dissolved Gases by EPA 5021/RSK-175**

Holding times were met. Instrumental tune fragmentations were within acceptance ranges. Surrogate recoveries were within analytical and validation guidelines.

Method blanks reported no detections.

LCS recoveries were within criteria. MS/MSD recoveries of methane, ethane and ethene recovered within criteria.

Carbon dioxide recovered low in the MS/MSD. Carbon dioxide in MW-13 is qualified as estimated with a possible high bias.

All other criteria were found acceptable for the validated samples. Calibration standard responses were compliant. Blanks show no detections above the reporting limits.

Field duplicate correlations for methane were outside project objectives, and the data were qualified as estimated.

Field precision calculations are noted in **Table 3** at the end of the report.



**Field Precision**

Samples were collected in duplicate at location MW-13. All analytes with concentrations greater than 2x the RL were evaluated using calculated RPDs. Data is considered precise if the RPD is <30%.

**Data Precision**

Field Identification	Analyte	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD (%)	Qualified
MW-14/FIELD DUP	Carbon dioxide	40000	41000	2.5	A
	Manganese	1.1	1.0	9.5	A
	Total Kjeldahl Nitrogen	1.8	1.9	5.4	A
	Cyanide, Total	0.34	0.36	5.7	A
	Sulfate	159	159	0.0	A
	Methane - DL	640	430	39.3	J
	Alkalinity	446	454	1.8	A
	Chloride	15.3	14.6	4.7	A

A: Acceptable  
 NC: Not calculated

**Data Package Completeness**

Complete NYSDEC Category B deliverables were included in the laboratory data package, all information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.

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## VALIDATION DATA QUALIFIER DEFINITIONS

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



# **Sample Summaries and Laboratory Case Narratives**

# Sample Summary

Client: Groundwater & Environmental Services, Inc.  
Project/Site: Johnstown Semi-Annual GWS

Job ID: 480-233427-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
480-233427-1	MW-4	Water	10/08/25 11:45	10/09/25 10:30	New York
480-233427-2	MW-7	Water	10/08/25 09:15	10/09/25 10:30	New York
480-233427-3	MW-10	Water	10/08/25 10:05	10/09/25 10:30	New York
480-233427-4	MW-11	Water	10/08/25 11:15	10/09/25 10:30	New York
480-233427-5	MW-12	Water	10/08/25 10:45	10/09/25 10:30	New York
480-233427-6	MW-13	Water	10/08/25 09:30	10/09/25 10:30	New York
480-233427-7	MW-14	Water	10/08/25 10:15	10/09/25 10:30	New York
480-233427-8	MW-15	Water	10/08/25 09:15	10/09/25 10:30	New York
480-233427-9	MW-16	Water	10/08/25 11:30	10/09/25 10:30	New York
480-233427-10	Field Duplicate	Water	10/08/25 00:00	10/09/25 10:30	New York
480-233427-11	Trip Blank	Water	10/08/25 00:00	10/09/25 10:30	New York

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# Case Narrative

Client: Groundwater & Environmental Services, Inc.  
Project: Johnstown Semi-Annual GWS

Job ID: 480-233427-1

**Job ID: 480-233427-1**

**Eurofins Buffalo**

## Job Narrative 480-233427-1

### Receipt

The samples were received on 10/9/2025 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 3 coolers at receipt time were 2.8° C, 3.3° C and 3.6° C.

### GC/MS VOA

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-11 (480-233427-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-13 (480-233427-6), MW-13 (480-233427-6[MSJ]), MW-13 (480-233427-6[MSD]) and MW-16 (480-233427-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-14 (480-233427-7) and Field Duplicate (480-233427-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-15 (480-233427-8). Elevated reporting limits (RLs) are provided.

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

### GC/MS Semi VOA

Methods 8270D, 8270D\_LL\_PAH: The continuing calibration verification (CCV) associated with batch 480-759413 recovered outside acceptance criteria, low biased, for Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The following associated sample is impacted: MW-13 (480-233427-6)

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: MW-13 (480-233427-6), MW-13 (480-233427-6[MSJ]) and MW-13 (480-233427-6[MSD]). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-11 (480-233427-4), MW-13 (480-233427-6), MW-13 (480-233427-6[MSJ]), MW-13 (480-233427-6[MSD]) and MW-15 (480-233427-8). Elevated reporting limits (RLs) are provided.

Method 8270D: The following samples were diluted due to the abundance of target analytes: MW-13 (480-233427-6[MSJ]) and MW-13 (480-233427-6[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following sample required a dilution due to the abundance of target analytes: MW-13 (480-233427-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

### GC VOA

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-10 (480-233427-3), MW-11 (480-233427-4), MW-13 (480-233427-6), MW-13 (480-233427-6[MSJ]) and MW-13 (480-233427-6[MSD]). Elevated reporting limits (RLs) are provided.

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-14 (480-233427-7), MW-15 (480-233427-8), MW-16 (480-233427-9) and Field Duplicate (480-233427-10). Elevated reporting limits (RLs) are provided.

Method RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. Samples were reanalyzed and recoveries were outside control limits for one or more analytes.

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

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## Case Narrative

Client: Groundwater & Environmental Services, Inc.  
Project: Johnstown Semi-Annual GWS

Job ID: 480-233427-1

### Job ID: 480-233427-1 (Continued)

Eurofins Buffalo

#### Metals

Method 6010C: The linear range check (LRC) standard recovery associated with 480-759553 is outside the acceptance criteria for the following analytes: total Lead. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; 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

Method SM 4500 S2 F: The method requirement for no headspace was not met. The following samples were analyzed with headspace in the sample container(s): MW-4 (480-233427-1), MW-7 (480-233427-2), MW-10 (480-233427-3), MW-16 (480-233427-9), Field Duplicate (480-233427-10), (620-30035-W-1), (620-30035-W-2) and (620-30035-W-7).

Method SM 4500 S2 F: The method requirement for no headspace was not met. The following samples were analyzed with headspace in the sample container(s): MW-11 (480-233427-4), MW-12 (480-233427-5), MW-13 (480-233427-6), MW-13 (480-233427-6[MS]), MW-13 (480-233427-6[MSD]), MW-14 (480-233427-7), MW-15 (480-233427-8) and (480-233446-A-4).

Method SM 2320B: The continuing calibration blank (CCB) for analytical batch 480-759675 contained Alkalinity, Total, Alkalinity, Bicarbonate, Alkalinity, Carbonate and Hydroxide Alkalinity above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-4 (480-233427-1), MW-7 (480-233427-2), MW-10 (480-233427-3), MW-11 (480-233427-4), MW-12 (480-233427-5), MW-13 (480-233427-6), MW-13 (480-233427-6[MS]), MW-13 (480-233427-6[MSD]), MW-14 (480-233427-7), MW-15 (480-233427-8), MW-16 (480-233427-9) and Field Duplicate (480-233427-10).

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

#### Organic Prep

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

Eurofins Buffalo