nationalgrid

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

August 14, 2023

Michael Squire
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway – 11th Floor
Albany, New York 12233-7014

Re: ***National Grid***
Little Falls (Mill Street) Non-Owned Former MGP Site
NYSDEC Site No. 622034
Little Falls, New York
2023 Periodic Review Report

Dear Mr. Squire:

Enclosed for your review is the 2023 Periodic Review Report (PRR) for the National Grid Ogdensburg Former MGP Site. The PRR pertains to the period from August 1, 2022 through August 1, 2023 and includes a brief report and Institutional Controls/Engineering Controls (IC/EC) Certification Form.

Please feel free to contact me at 315.428.5652 if you have any questions.

Sincerely,

for SPS
Steven P. Stucker, C.P.G.
Lead Environmental Engineer

300 Erie Boulevard West, C-1
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National Grid- Little Falls MGP Site (NYSDEC Site No. 622034)

Reporting Period – August 1, 2022 through August 1, 2023

I. Introduction

A. **Brief Site Summary** –

The Little Falls Former Manufactured Gas Plant (MGP) Site (the Site) is located on an approximate 1.35-acre lot, located on the south side of East Mill Street in Little Falls, New York (refer to Figure 1 Site Location Map). The Site is the western portion of an approximately 6.5-acre property currently owned by the Feldmeier Equipment, Inc. (Feldmeier). Manufactured gas was produced at the Site from approximately 1853 until 1907. The MGP was decommissioned in the early 1900's, and since then the site has been used for various industrial purposes, which include the manufacturing of furniture and stainless-steel tanks. Currently a paved parking lot and the western portion of the Feldmeier tank manufacturing building occupy the former MGP. The site was previously owned by a predecessor company of Niagara Mohawk Power Corporation.

An investigation of the Site began in 1997, to support the property transfer to Feldmeier, with a Phase I Environmental Site Assessment (ESA) and Phase II ESA (1998) which identified suspected MGP-related impacts near the historical MGP operations at the Site. As a result, National Grid implemented a site characterization (SC) and a remedial investigation (RI) at the site under a multi-site VCO with the NYSDEC between 2002 and 2006.

The RI identified that the highest concentration of constituents of concern (COCs) are primarily the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and xylenes (collectively, BTEX), the general class of semi-volatile organic compounds (SVOCs) known as polycyclic aromatic hydrocarbons (PAHs), were localized to the locations of the former onsite gas holder. Significant MGP-related impacts were not encountered at the former offsite gas holder.

B. **Remedial Program Effectiveness** – During the reporting period (August 1, 2022 to August 1, 2023) 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** - It is recommended that no changes be made to the IC/EC Plan. It is recommended that an annual Periodic Review Report (PRR) be submitted. The next PRR submittal will cover the period August 1, 2023 to August 1, 2024.

II. Site Overview

A. Site Location and Boundaries –

The Site is located on the south side of East Mill Street in Little Falls, County of Herkimer, New York (Figure 1 presents the site location map). The Site is an approximate 1.35-acre area and is bounded by East Mill Street to the north, George Lumber and Building Materials Company to the west, the Mohawk River to the south, and extends into the tank manufacturing building to the east. Currently, the property is a paved parking area, and the western portion of the Feldmeier tank manufacturing building.

B. Regulatory History and Remedy Features –

The Site was remediated in 2009 in accordance with the *Remedial Action Work Plan* (Arcadis, 2007). This PRR is being completed in compliance with Section 6.3 of the NYSDEC – approved Site Management Plan (SMP) for the project. A Deed of Restrictions and Covenants (DCR) was placed on the property in February 2018 by the Owner, and is included in Appendix A of the *Final Engineering Report* (Arcadis, 2020).

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

A. **Evaluation of Remedy Performance** – Annual visual inspections of the cover system are conducted on the Site. The remedy performance has been effective in protecting the public.

IV. IC/EC Plan Compliance Report

A. IC/EC Requirements and Compliance

1. **IC/EC Controls**

The ICs/ECs:

- Soil Cover System: Annual site inspection of the cover system includes identification of any damage to the cover. National Grid conducts quarterly inspections for internal security purposes. See Attachment 1 for the Site Inspection Forms.
- Monitoring Wells Associated with Monitored Natural Attenuation (MNA): Annual groundwater sampling of the monitoring well system will be conducted, until either water quality is consistently below NYSDEC standards, or has become asymptotic at an acceptable level over an extended period.

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

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

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

5. **IC/EC Certification** – Refer to PRR Form - Attachment 2 for the certification.

V. Monitoring Plan Compliance Report – The Annual Monitoring Report was submitted to the NYSDEC on March 13, 2023. See Attachment 3 for a copy of the Annual Monitoring Report.

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 August 1, 2023 through August 1, 2024.

VIII. Additional Guidance – Not needed.

REFERENCES

Arcadis, 2011. "Site Management Plan, Little Falls (Mill Street) Non-Owned Former MGP Site", March 2011.

Arcadis, 2020. "Final Engineering Report, Little Falls (Mill Street) Former Manufactured Gas Plant Site", December 2020.

Attachment 1: Site Inspection Forms

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 6/13/2023 Time: 9:15

Technician: PL Weather: Overcast 60

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	N/A	N/A	***21.95***	
RW-2	N/A	N/A	***19.42***	
RW-3	N/A	N/A	***31.70***	

Levels and Recovery in March and September Only

General Comments:

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 3/3/2023 Time: 9:00

Technician: PL Weather: Sunny 27

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	14.31	N/A	***21.95***	
RW-2	15.25	N/A	***19.42***	
RW-3	18.05	N/A	***31.70***	trace on probe

Levels and Recovery in March and September Only

General Comments:

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 12/16/2022 Time: 11:30

Technician: KL Weather: Snow 34

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	N/A	N/A	***21.95***	
RW-2	N/A	N/A	***19.42***	
RW-3	N/A	N/A	***31.70***	

Levels and Recovery in March and September Only

General Comments:

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 9/8/2022 Time: 8:00

Technician: KL Weather: Cloudy 72

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	N/A	N/A	***21.95***	
RW-2	15.25	N/A	***19.42***	
RW-3	8.1	31.1	***31.70***	0.6

Levels and Recovery in March and September Only

General Comments:

Attachment 2: 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 **Box 1**

Site No. 622034

Site Name NM - Little Falls MGP

Site Address: E. Mill St Zip Code: 13365
City/Town: Little Falls
County: Herkimer
Site Acreage: 1.360

Reporting Period: August 01, 2022 to August 01, 2023

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below?	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 622034

Description of Institutional Controls

Parcel	Owner	Institutional Control
	Steven P. Stucker	Ground Water Use Restriction Landuse Restriction Site Management Plan

The specific institutional controls to be implemented under the site management plan (SMP) are as follows:
1. The Site may only be used for industrial enterprises provided that the long-term institutional and engineering controls identified in the SMP are employed.
2. All engineering controls must be operated and maintained as specified in the SMP.
3. All engineering controls must be inspected at the frequency and in the manner defined in the SMP.
4. The use of groundwater underlying the Site is prohibited without necessary water quality treatment, as determined by the Department or Relevant Agency, to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC.
5. Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.

Description of Engineering Controls

Parcel	Engineering Control
	Cover System Monitoring Wells

Exposure to remaining MGP-related impacts in soil at the Site is prevented by a soil cover system, which comprises the existing Feldmeier manufacturing building, a concrete pad supporting a pole barn along the southern edge of the site, and an asphalt pavement covering the rest of the site.

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 e

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. 622034

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 of this form.

STATE OF NEW YORK * GERALD H. CRESAP, JR. * 087401 * LICENSED PROFESSIONAL ENGINEER *

9-11-2023

Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

EC CERTIFICATIONS

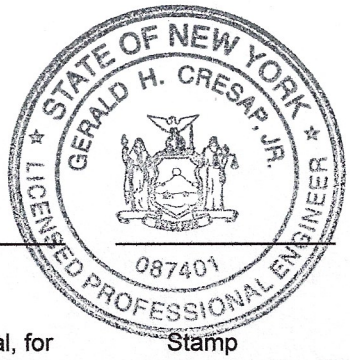
Box 7

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 (print name) at 6780 Northern Blvd. Suite 100, East Syracuse, NY (print business address),

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



8-11-2023

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date

Attachment 3: Annual Monitoring Report

nationalgrid

Steven P. Stucker, C.P.G.
Lead Engineer

March 13, 2023

Michael Squire
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway – 11th Floor
Albany, NY 12233

Re: ***National Grid***
Little Falls (Mill Street) Non-Owned Former MGP Site
Little Falls, New York
2022 Groundwater and NAPL Monitoring Results
VCO Index No. D0-0001-0011
Site No. V00470

Dear Mr. Squire:

Attached for your information is the 2022 Groundwater Monitoring Report detailing the annual groundwater monitoring event and OM&M activities conducted from January 1, 2022, to December 31, 2022, at the National Grid Little Falls (Mill Street) Site. Site activities were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan (ARCADIS; 2007) and Site Management Plan (ARCADIS; 2011).

The annual groundwater samples were collected on September 8, 2022. The results of this event indicate that the groundwater quality is consistent with previous sampling events.

Please contact me at 315-428-5652 if you have any questions.

Sincerely,

for SPS

Steven P. Stucker, C.P.G.
Lead Engineer
Environmental Department

300 Erie Boulevard West, C-1, Syracuse, NY 13202
T: 315-428-5652 F: 315-428-3549 steven.stucker@us.ngrid.com www.nationalgrid.com

National Grid

2022 Groundwater Monitoring Report

National Grid Little Falls (Mill Street) Site
575 Mill Street
Little Falls, NY

March 2023

Version 1

2022 Groundwater Monitoring Report

National Grid Little Falls (Mill Street) Site
575 Mill Street
Little Falls, NY

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

Prepared by:
Groundwater & Environmental Services, Inc.
6780 Northern Blvd. Suite 100
East Syracuse, NY 13057
TEL: 800-220-3069
www.gesonline.com

GES Project:
0603324.125340.221

Date:
March 13, 2023

Devin T. Shay, PG
Program Manager / Principal Hydrogeologist

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Appendices

Appendix A – Quarterly Inspection Forms
Appendix B – Well Sampling Field Data
Appendix C – Data Usability Summary Report and Analytical Data

Acronyms

AWQS	Ambient Water Quality Standards
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
DUSR	Data Usability Summary Report
FER	Final Engineering Report
GES	Groundwater & Environmental Services, Inc.
MGP	Manufactured Gas Plant
NAPL	Light Non-Aqueous Phase Liquid
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operation, Maintenance, and Monitoring
Pace	Pace Analytical Services, LLC
RAWP	Remedial Action Work Plan
SMP	Site Management Plan
SVOC	Semi-volatile organic compound
TAL	Target Analyte List
TCL	Target Compound List
VOC	Volatile Organic Compound

1 Introduction

1.1 Overview

Groundwater & Environmental Services, Inc. (GES) has prepared this 2022 Groundwater Monitoring Report (covering January 1, 2022 – December 31, 2022) for the Little Falls (Mill Street) Site, Little Falls, New York**.** The groundwater and non-aqueous phase liquid (NAPL) monitoring activities described in this letter were completed as part of the post-remedial monitoring activities outlined in the New York State Department of Environmental Conservation- (NYSDEC) approved Remedial Action Work Plan (RAWP) prepared by ARCADIS of New York, Inc., (ARCADIS, 2007) and the Site Management Plan (SMP) (ARCADIS, 2011). The RAWP was approved in a letter dated March 11, 2008, from Mr. Bernard Franklin of the NYSDEC to Mr. James F. Morgan of National Grid. The SMP was approved in a letter dated May 5, 2011, from the NYSDEC to National Grid.

Groundwater monitoring has been conducted at the Site in order to evaluate the effectiveness of remedial activities previously completed at the Site and to monitor long-term groundwater quality trends. Currently, groundwater sampling at the Former MGP Site is performed on an annual basis.

The following Operation, Maintenance, and Monitoring (OM&M) activities conducted during this reporting period are summarized below:

- Quarterly site inspections, including checks on the Site structures, the exterior cover system, the interior Feldmeier Building concrete slab, riverbank, groundwater monitoring wells, NAPL wells, and storm-water features that could impact the remedy.
- Quarterly groundwater elevation data.
- Annual NAPL monitoring and collection, if necessary.
- Annual groundwater sampling, analysis and data validation. Water samples are submitted to Pace Analytical Services, LLC (Pace) for laboratory analysis of target compound list (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), and target analyte list (TAL) inorganics (including cyanide) for comparison to NYSDEC Ambient Water Quality Standards (AWQS).
- Any site maintenance that comes about as a result of the quarterly inspections.

1.2 Site Description

The Little Falls (Mill Street) Former Manufactured Gas Plant Site located in Little Falls, New York is comprised of approximately 6.5 acres of land and is currently owned by Feldmeier (refer to **Figure 1 – Site Location Map** and **Figure 2 – Site Map**). As shown on the figures, the Site is located north of the Mohawk River, east of George Lumber and Building Materials Company (George Lumber), south of East Mill Street, and west of the line of demarcation. The Site is located on the western portion of

the approximately 6.5-acre property and is occupied by a paved parking lot, and the western portion of a tank manufacturing building owned by Feldmeier. Some vegetated areas are present along the margins of the parking lot, and in the area south of the tank manufacturing building along the bank of the Mohawk River.

The remedial action plan in place at the site was substantially completed in August 2009. The Final Engineering Report (FER) was submitted to NYSDEC in October 2019, and written approval from NYSDEC was received on April 1, 2021.

2 Quarterly Site Inspections and Groundwater Monitoring Activities

2.1 Quarterly Site Inspections

GES conducted quarterly site inspections during this reporting period on March 23, June 21, September 8, and December 16, 2022.

In general, the Site is in good condition and in compliance. The exterior cover system is intact. No visible saw cutting, holes from burrowing animals, or evidence of any other intrusive activities were noted in 2022. The groundwater monitoring wells and NAPL wells are secured and operable.

It should be noted that four (4) piezometers that were part of the SMP requirements to conduct groundwater static level measurements were never located: PZ-102, PZ-103, PZ-105, and PZ-106. It is believed these piezometers have long since been removed or covered during Feldmeier site modifications (i.e., storage shed installation and/or asphalt/gravel road installation). National Grid believes there are ample groundwater wells for obtaining water table measurements and these four piezometers are not necessary. The new storage shed and existing wells were resurveyed in January 2016.

Attachment A includes the Quarterly Site Inspection Forms.

2.2 Groundwater Well Gauging

Groundwater level measurements are collected at the Site to accomplish the following:

- To determine the general groundwater flow direction on site.

Annual gauging field data is presented in **Table 1**. Based on the September 2022 groundwater level measurements, groundwater in the overburden/shallow bedrock beneath the Site flows to the south (which is consistent with the local groundwater flow direction observed during the RI and previous monitoring events). There is a groundwater depression observed near the Mohawk River near recovery well RW-3, where the groundwater is likely mimicking the drop in the bedrock surface as it approaches the Mohawk River. A potentiometric surface map for overburden/shallow bedrock groundwater developed from the September groundwater elevations is presented on **Figure 3**. Based on the September 2022 groundwater level measurements from the one deep bedrock well at the Site (well MW-101RD), an upward hydraulic gradient exists between the deep bedrock unit and the overburden/shallow rock unit at the Site, indicating that the groundwater from the deep bedrock unit likely discharges to the Mohawk River.

2.3 Annual NAPL Monitoring and Collection

Annual NAPL monitoring was conducted at on-site recovery wells RW-2, and RW-3, and monitoring wells B-MW-3, FWMW-1, FWMW-2, FWMW-3, FWMW-5, MW-101RD, MW-102R, and MW-103R. NAPL monitoring was not conducted at recovery well RW-1 due to shipping materials on top of it preventing access. NAPL observations were documented on the Site

inspection forms as presented in **Appendix A**. A summary of NAPL observations where NAPL was present from October 2011 through the 2022 monitoring event (including NAPL thickness measured for previous monitoring events) is presented below.

NAPL was detected in recovery well RW-3, however, no NAPL recovery efforts were attempted during the September 2022 gauging event due to the small amount of volume present.

Presence/Thickness of NAPL (in inches)

Well	Oct 2011	Dec 2011	June 2012	Dec 2012	Aug 2013	Dec 2013	June 2014	Oct 2015	Oct 2016	Oct 2017	Oct 2018
RW-1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
RW-2	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
RW-3	Trace	Trace	0.12	0.48	0.96	0.96	2.04	NP	NP	NP	Trace
MW-101RD	NP	NP	NP	NP	NP	Trace	NP	NP	NP	NP	NP

Well	Oct 2019	Sept 2020	Sept 2021	Sept 2022
RW-1	NP	NP	NP	NA
RW-2	NP	NP	NP	NP
RW-3	NP	Trace	NP	0.6
MW-101RD	NP	NP	NP	NP

NP – NAPL was not present
NA – Not Accessible

2.4 Groundwater Well Sampling and Analysis

Groundwater samples were collected from eight (8) monitoring wells B-MW-3, FWMW-1, FWMW-2, FWMW-3, FWMW-5, MW-101RD, MW-102R, and MW-103R, on September 8, 2022. The wells were purged using a peristaltic pump. Field Measurements of pH, conductivity, turbidity, dissolved oxygen, temperature, total dissolved solids and oxidation-reduction potential were recorded using a Horiba U-52 water quality meter during sample collection. Samples were collected once field parameters stabilized. Field monitoring data and the chain-of-custody record are included in **Appendix B**.

Eight aqueous field samples, a field duplicate, and trip blank were analyzed for TCL VOCs, TCL SVOCs, and TAT inorganics. The samples were analyzed by Pace in accordance with the NYSDEC Analytical Services Protocol. The Analytical Lab Report and Data Usability Summary Report are presented in **Appendix C.** Analytical results are summarized in **Table 2**. A BTEX (benzene, toluene, ethylbenzene, xylenes) contour map is shown on **Figure 4**. A naphthalene contour map is shown on **Figure 5**.

VOCs were detected in five of the eight groundwater monitoring wells that were sampled during the September 2022 groundwater sampling event. There were detections of 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, benzene, chloroform, cis-1,2-Dichloroethene, ethylbenzene, toluene, trans-1,2-Dichlorothene, trichloroethene,

and vinyl chloride. SVOCs were detected in two of the eight groundwater samples collected. Detections of SVOCs include acenaphthene, anthracene, carbazole, dibenzofuran, fluoranthene, fluorene, phenanthrene, and pyrene.

TAT inorganics were detected in all eight groundwater samples collected in September 2022. Iron concentrations in six of the eight samples exceeded the AWQS criteria. Detections of sodium exceeded in all samples, except in monitoring well B-MW-3. Manganese exceeded the quality criteria in FWMW-2, FWMW-3, MW-101RD, MW-102R and MW-103R. The sample collected from FWMW-3 also had exceedances of chromium, copper, iron, lead, nickel, and total cyanide. Mercury was the only inorganic not detected in any of the groundwater samples collected. The analytical results for the inorganics as well as VOCs and SVOCs are summarized on **Table 2**.

3 Conclusions and Recommendations

3.1 Conclusions

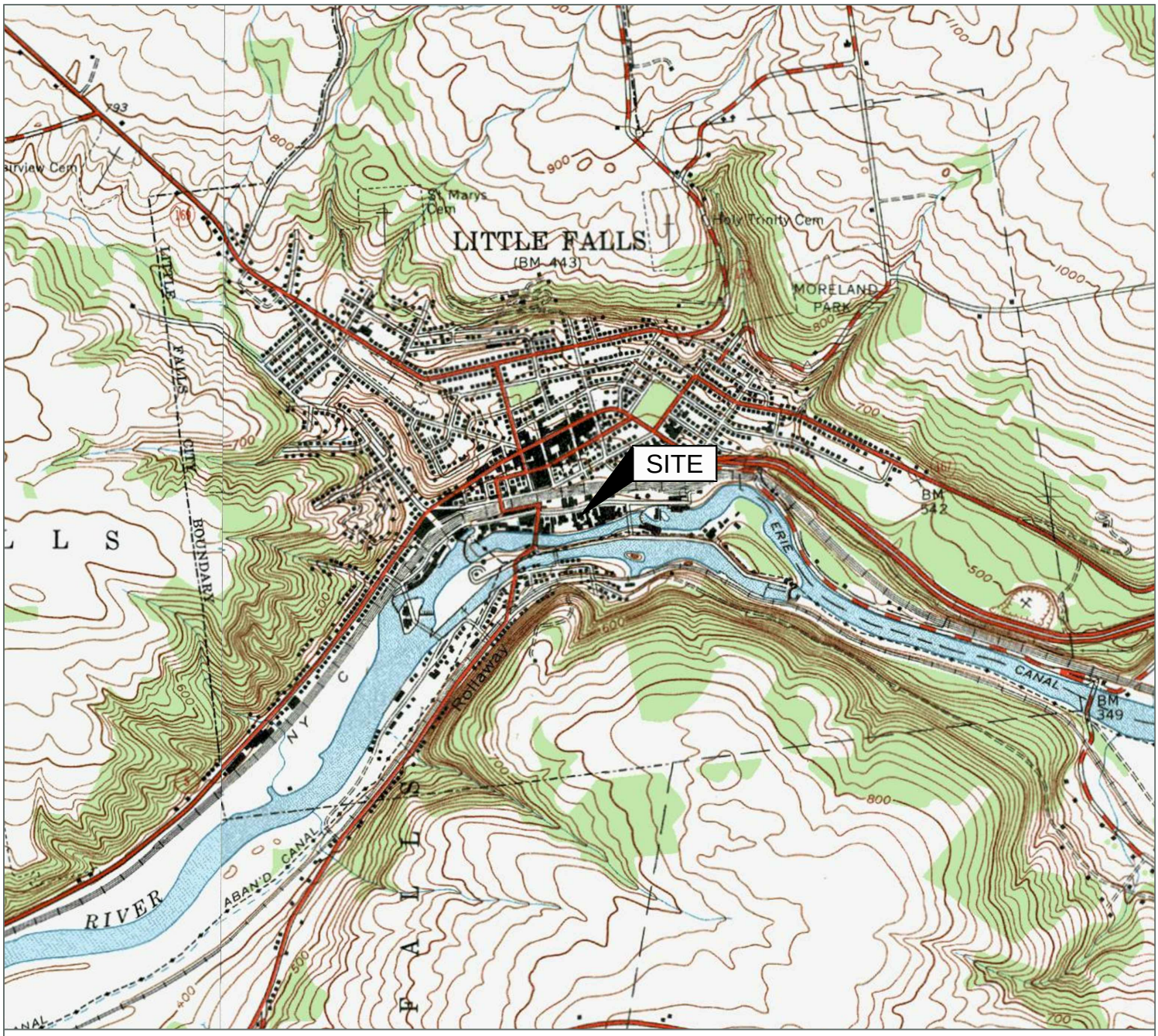
Based on the results of the past year's activities, the following conclusions were made:

- Quarterly site inspections demonstrate that the site is in good condition and in compliance.
- Groundwater beneath the Site appears to flow in a general south direction towards the Mohawk River.
- NAPL was not detected in any monitoring well or recovery well with the exception of recovery well RW-3 during the September 2022 monitoring event.
- BTEX was detected in FWMW-1, MW-101RD, and MW-103R. Naphthalene was not detected in any monitoring well. These detections are generally consistent with previous sampling events.

3.2 Recommendations

It is recommended that all OM&M activities continue, with the next report due in January 2024.

Figures



Source:
USGS 7.5 Minute Series
Topographic Quadrangle, 1943
Little Falls, New York
Contour Interval = 20'

Site Location Map

National Grid
Former MGP Site
575 Mill Street
Little Falls, New York

Drawn
W.G.S.
Designed

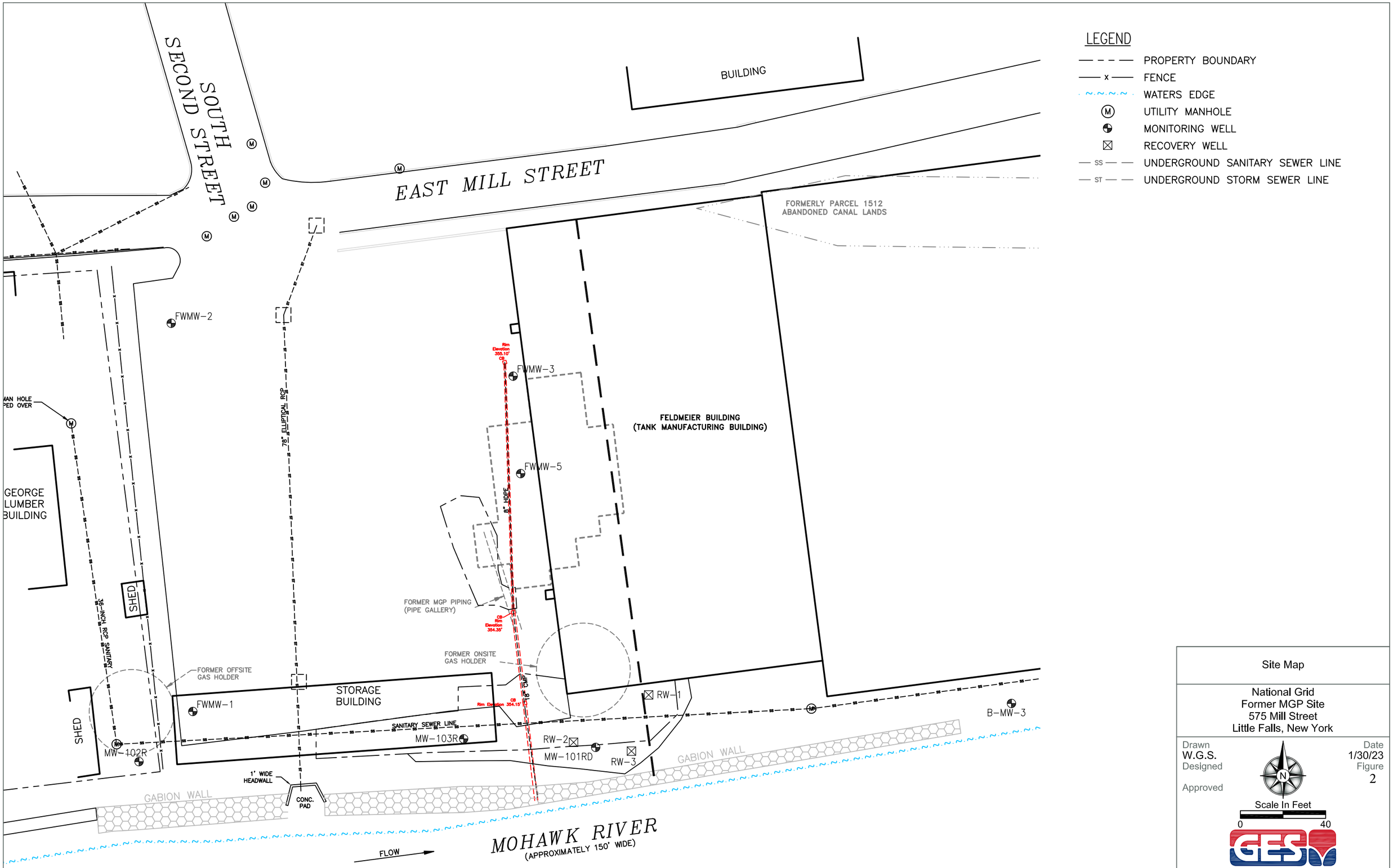
Approved

Date
12-27-17
Figure
1

Scale In Feet
0 2000

GES
Groundwater & Environmental Services, Inc.

M:\Graphics\0600-Syracuse\Misc\National Grid\Little Falls\Little Falls SLM.dwg, Template SLM, WShea



LEGEND

- PROPERTY BOUNDARY
- FENCE
- WATERS EDGE
- UTILITY MANHOLE
- MONITORING WELL
- RECOVERY WELL
- UNDERGROUND SANITARY SEWER LINE
- UNDERGROUND STORM SEWER LINE

Site Map

National Grid
Former MGP Site
575 Mill Street
Little Falls, New York

Drawn
W.G.S.
Designed

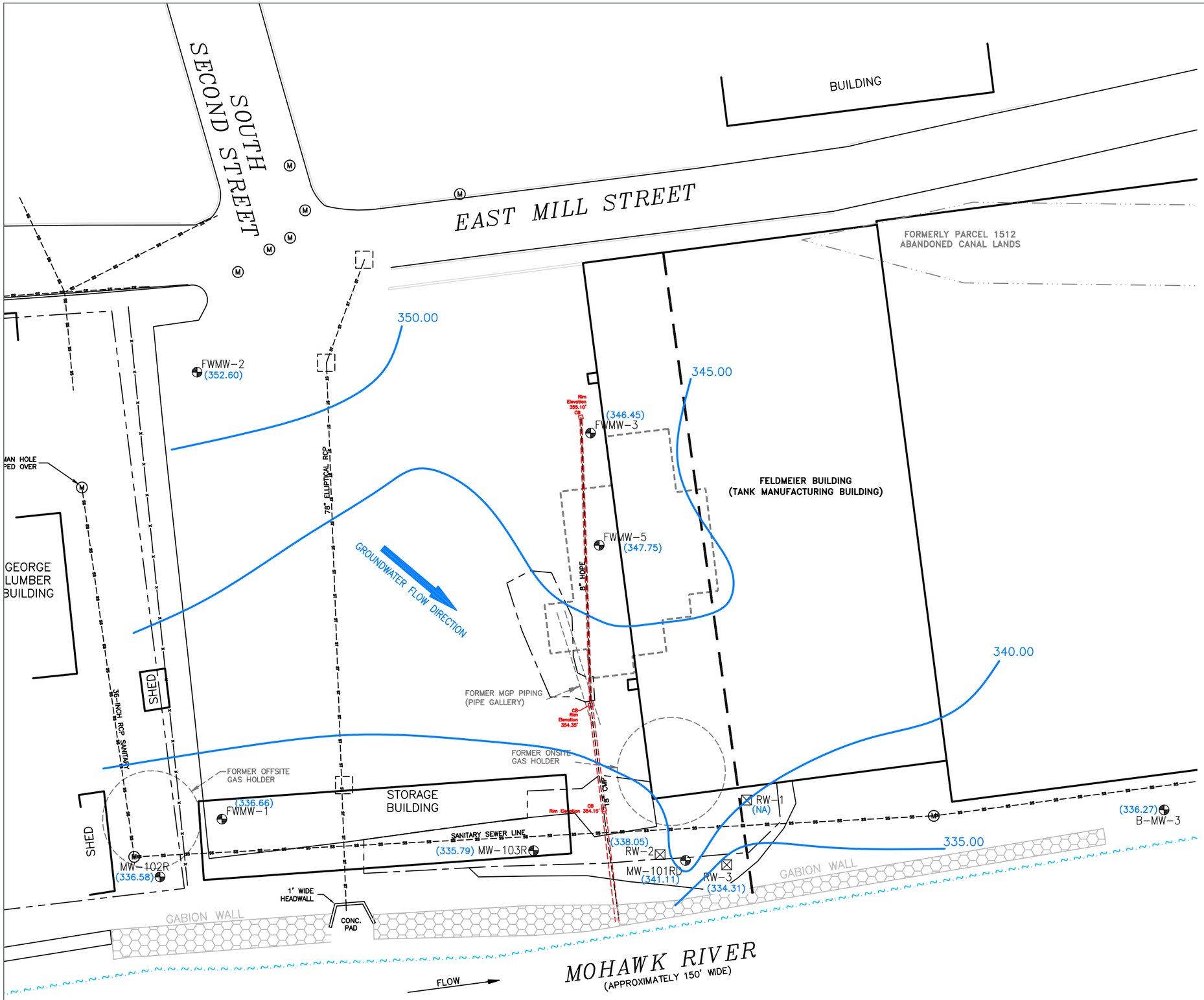
Approved

Date
1/30/23
Figure
2

Scale In Feet
0 40

Groundwater & Environmental Services, Inc.

M:\Graphics\0600-Syracuse\Misc\National Grid\Little Falls\Little Falls SM.dwg, B40 sm, WShea



LEGEND

- PROPERTY BOUNDARY
- FENCE
- WATERS EDGE
- UTILITY MANHOLE
- MONITORING WELL
- RECOVERY WELL
- SS — UNDERGROUND SANITARY SEWER LINE
- ST — UNDERGROUND STORM SEWER LINE
- (347.75) GROUNDWATER ELEVATION (feet)
- GROUNDWATER CONTOUR (FEET)
- NA NOT AVAILABLE

Groundwater Contour Map
September 8, 2022

National Grid
Former MGP Site
575 Mill Street
Little Falls, New York

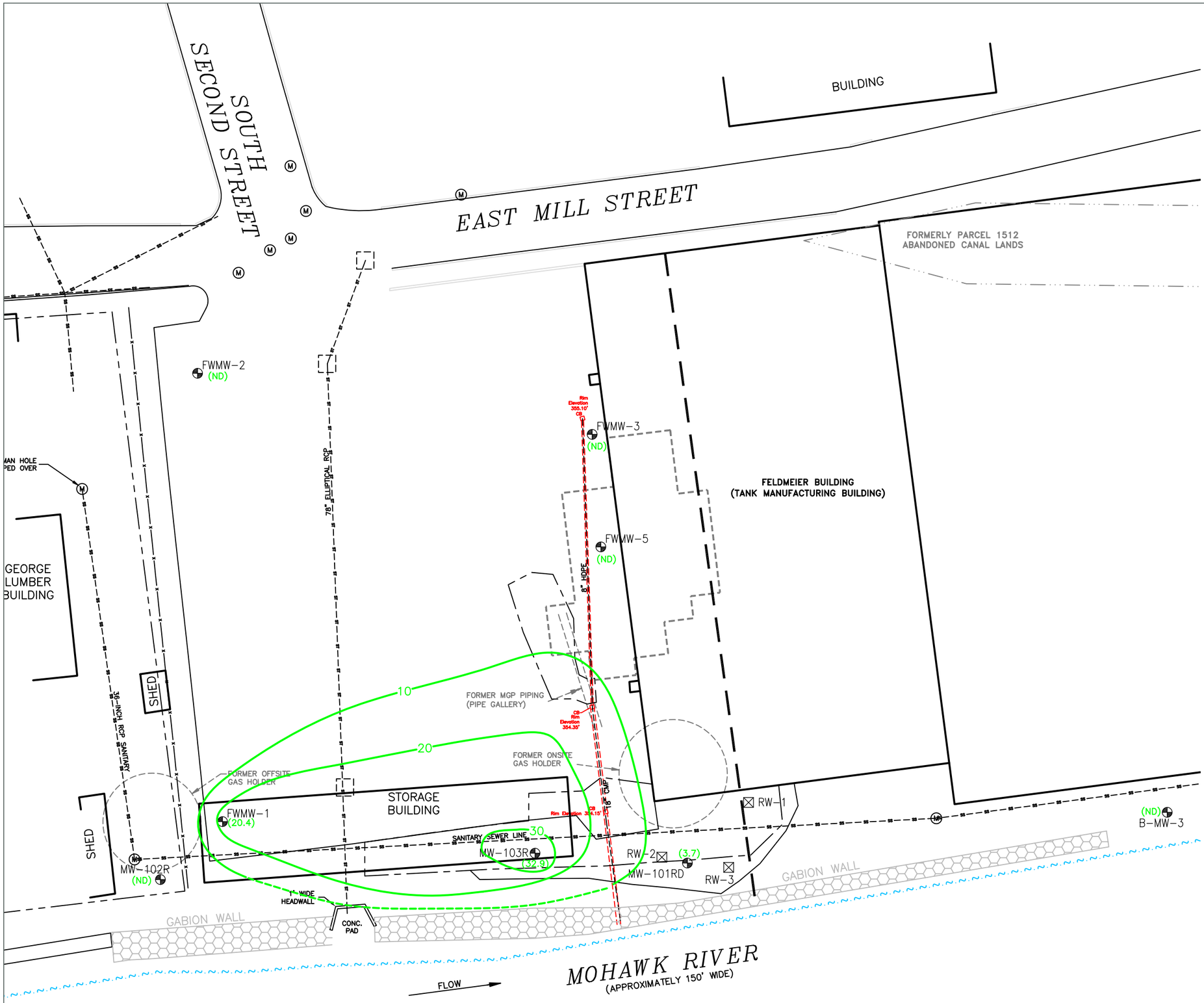
Drawn W.G.S.
Designed
Approved

Date 1/30/23
Figure 3

Scale In Feet
0 40

Groundwater & Environmental Services, Inc.

M:\Graphics\0600-Syracuse\Misc\National Grid\Little Falls\Little Falls SM.dwg, B40 sm, WShea



LEGEND

- PROPERTY BOUNDARY
- FENCE
- WATERS EDGE
- UTILITY MANHOLE
- MONITORING WELL
- RECOVERY WELL
- SS — UNDERGROUND SANITARY SEWER LINE
- ST — UNDERGROUND STORM SEWER LINE
- (32.9) — BTEX CONCENTRATION (ug/L)
- BTEX CONTOUR
- ug/L — MICROGRAMS PER LITER
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
- ND — NOT DETECTED

BTEX Contour Map
September 8, 2022

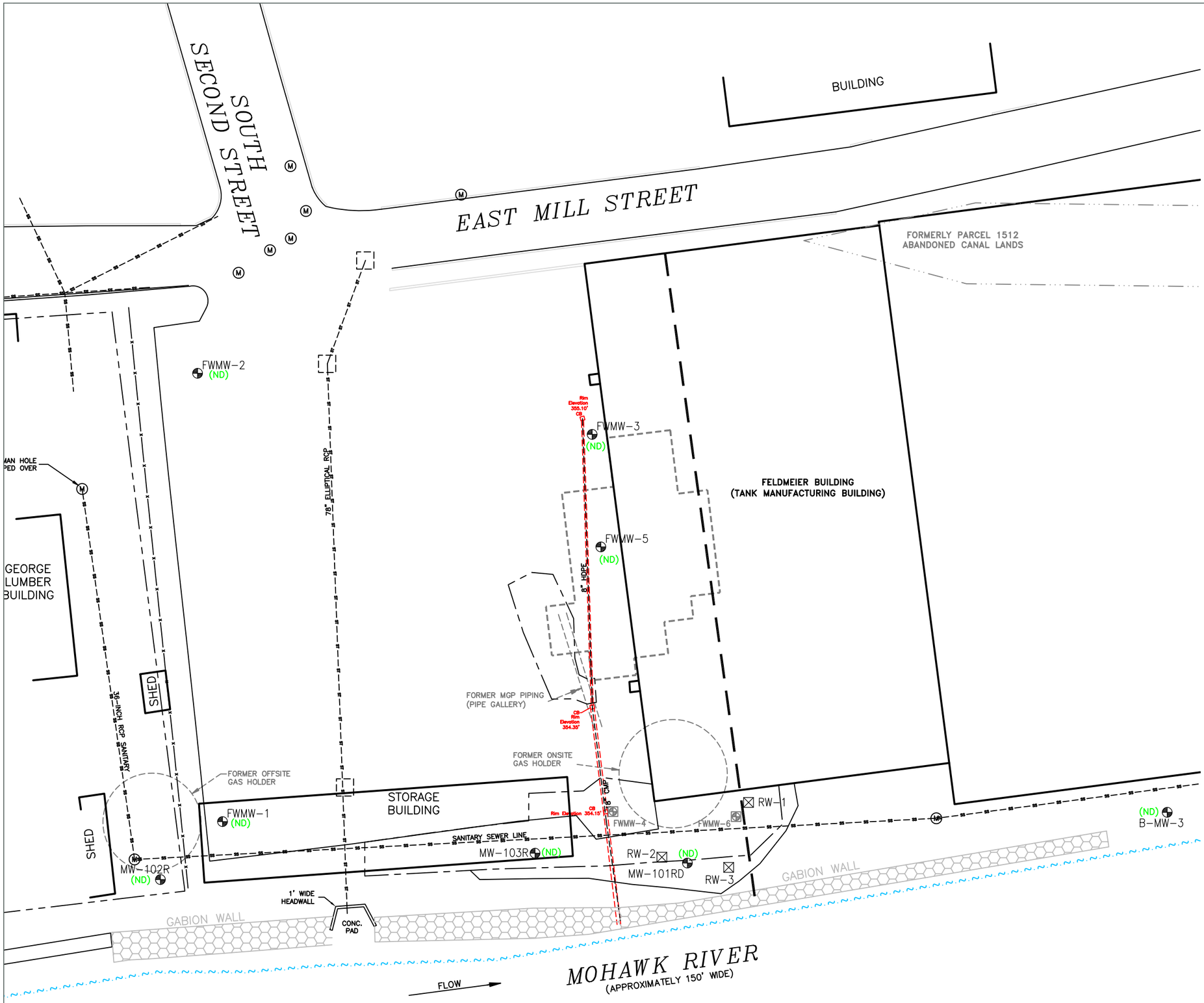
National Grid
Former MGP Site
575 Mill Street
Little Falls, New York

Drawn: W.G.S.
Designed:
Approved:
Date: 1/30/23
Figure: 4

Scale In Feet
0 40

Groundwater & Environmental Services, Inc.

M:\Graphics\0600-Syracuse\Misc\National Grid\Little Falls\Little Falls SM.dwg, B40 sm, WShea



LEGEND

- PROPERTY BOUNDARY
- FENCE
- WATERS EDGE
- UTILITY MANHOLE
- MONITORING WELL
- RECOVERY WELL
- DESTROYED/ABANDONED WELL
- SS UNDERGROUND SANITARY SEWER LINE
- ST UNDERGROUND STORM SEWER LINE
- (2.1) NAPHTHALENE CONCENTRATION (ug/L)
- NAPHTHALENE CONTOUR
- ug/L MICROGRAMS PER LITER
- ND NOT DETECTED

Naphthalene Contour Map
September 8, 2022

National Grid
Former MGP Site
575 Mill Street
Little Falls, New York

Drawn W.G.S.
Designed
Approved

Date 1/30/23
Figure 5

Scale In Feet
0 40

Groundwater & Environmental Services, Inc.

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Tables

Table 1

Groundwater Elevation Measurements

Well ID	Top of Casing Elevation (ft. AMSL)	February 2011	April 2011	December 2011	June 2012	December 2012	August 2013	December 2013	December 2014	October 2015	October 2016	October 2017	October 2018	October 2019	September 2020	September 2021	September 2022
B-MW-3	351.4	NA	NA	336.53	NA	337.17	335.93	335.78	337.06	337.32	337.40	337.35	337.60	337.42	336.40	337.00	336.27
FWMW-1	355.58	NA	NA	336.70	NA	336.69	336.72	336.36	338.93	336.71	336.68	336.03	336.68	337.80	339.30	340.51	336.66
FWMW-2	361.94	NA	NA	353.00	NA	352.94	352.77	352.89	353.29	352.71	352.42	352.04	352.59	352.63	351.99	352.39	352.60
FWMW-3	354.93	NA	NA	346.35	NA	345.32	346.33	346.31	346.33	346.52	346.40	346.43	346.43	346.43	339.93	346.42	346.45
FWMW-5	355.09	NA	NA	347.59	NA	348.01	347.54	347.25	348.01	347.95	347.67	347.52	347.94	347.77	346.98	347.32	347.75
MW-101RD	351.58	340.58	345.71	341.18	340.78	340.94	340.68	340.77	340.82	340.75	340.83	340.82	341.06	341.32	340.76	340.89	341.11
MW-102R	356.1	NA	NA	337.48	NA	337.31	337.55	336.72	337.58	337.15	336.84	336.00	336.80	338.05	347.91	338.86	336.58
MW-103R	353.83	NA	NA	336.24	NA	335.83	335.55	335.42	335.55	335.64	335.83	335.97	336.03	335.21	335.78	335.78	335.79
RW-1	354.03	339.26	345.33	339.32	339.37	339.34	339.5	339.34	339.35	339.34	NA	339.31	339.33	339.45	339.33	339.34	NA
RW-2	353.3	338.04	345.33	338.12	338.05	347.20	338.11	338.01	338.08	338.09	338.17	338.20	338.00	335.58	334.14	338.07	338.05
RW-3	352.41	333.44	340.15	333.98	333.51	333.57	333.41	333.99	333.86	333.69	333.86	333.96	334.06	337.54	334.14	334.33	334.31

Notes:
Elevations reported in feet above mean sea level (ft AMSL). Elevations referenced to National Geodetic Vertical Datum (NGVD) 1988.
NA = Not Accessible

Table 2

Groundwater Analytical Results
September 2022

Constituent	NYSDEC AWQS	Units	B-MW-3	FWMW-1	FWMW-2	FWMW-3	FWMW-5	MW-101RD	MW-102R	MW-103R
VOCs										
1,1,1-Trichloroethane	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	**42.3**	3.7	ND (<1.0)
1,1-Dichloroethane	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	**73.9**	**16.9**	**18.8**
1,1-Dichloroethene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	**10.0**	3.0	ND (<1.0)
Benzene	1	ug/L	ND (<1.0)	**20.4**	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	**29.9**
Chloroform	7	ug/L	4.8	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
cis-1,2-Dichloroethene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	**1,210**	**82.3**	ND (<1.0)
Ethylbenzene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.8	ND (<1.0)	3.0
Toluene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.9	ND (<1.0)	ND (<1.0)
trans-1,2-Dichloroethene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	3.4	ND (<1.0)	ND (<1.0)
Trichloroethene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	**8.3**	ND (<1.0)	ND (<1.0)
Vinyl Chloride	2	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	**113**	4.6	ND (<1.0)
Xylene (Total)	5	ug/L	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)	ND (<3.0)
SVOCs										
Acenaphthene	20	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	8.1	ND (<0.97)	2.0
Anthracene	50	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	3.1	ND (<0.97)	ND (<0.99)
Benzo(a)anthracene	0.002	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
Benzo(a)pyrene	NA	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
Benzo(b)fluoranthene	0.002	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
Benzo(g,h,i)perylene	NA	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
Benzo(k)fluoranthene	0.002	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
bis(2-Ethylhexyl)phthalate	5	ug/L	ND (<2.5)	ND (<2.5)	ND (<25.8)	ND (<2.8)	ND (<2.5)	ND (<2.6)	ND (<2.4)	ND (<2.5)
Carbazole	NA	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	2.1	ND (<0.97)	4.8
Chrysene	0.002	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
Dibenz(a,h)anthracene	NA	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
Dibenzofuran	NA	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	6.7	ND (<0.97)	ND (<0.99)
Fluoranthene	50	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	3.6	ND (<0.97)	ND (<0.99)
Fluorene	50	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	8.8	ND (<0.97)	ND (<0.99)
Indeno(1,2,3-cd)pyrene	0.002	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	ND (<1.1)	ND (<0.97)	ND (<0.99)
Naphthalene	10	ug/L	ND (<2.5)	ND (<2.5)	ND (<25.8)	ND (<2.8)	ND (<2.5)	ND (<2.6)	ND (<2.4)	ND (<2.5)
Phenanthrene	50	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	7.5	ND (<0.97)	ND (<0.99)
Pyrene	50	ug/L	ND (<1.1)	ND (<1.1)	ND (<10.3)	ND (<1.1)	ND (<0.99)	2.4	ND (<0.97)	ND (<0.99)
Metals										
Aluminum	NA	ug/L	544	339	345	85,500	ND (<200)	ND (<200)	ND (<200)	ND (<200)
Barium	1,000	ug/L	ND (<200)	221	328	561	ND (<200)	235	288	224
Calcium	NA	ug/L	46,400	73,000	243,000	131,000	133,000	156,000	161,000	194,000
Chromium	50	ug/L	ND (<10.0)	ND (<10.0)	ND (<10.0)	**161**	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)
Cobalt	NA	ug/L	ND (<50.0)	ND (<50.0)	ND (<50.0)	51.2	ND (<50.0)	ND (<50.0)	ND (<50.0)	ND (<50.0)
Copper	200	ug/L	ND (<25.0)	26.8	ND (<25.0)	**239**	ND (<25.0)	ND (<25.0)	ND (<25.0)	ND (<25.0)
Iron	300	ug/L	**760**	**18,500**	**19,300**	**96,000**	**693**	**1,070**	**3,170**	**2,460**
Lead	25	ug/L	6.5	ND (<5.0)	ND (<5.0)	**126**	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Magnesium	35,000	ug/L	5,770	15,000	21,600	25,300	16,000	20,100	25,600	25,500
Manganese	300	ug/L	15.1	204	**1,570**	**1,540**	51.2	**606**	**2,110**	**559**
Nickel	100	ug/L	ND (<40.0)	ND (<40.0)	ND (<40.0)	**257**	ND (<40.0)	ND (<40.0)	ND (<40.0)	ND (<40.0)
Potassium	NA	ug/L	ND (<5,000)	6,140	9,960	10,200	5,750	10,200	8,560	12,600
Sodium	20,000	ug/L	ND (<5,000)	**75,300**	**761,000**	**112,000**	**162,000**	**348,000**	**187,000**	**390,000**
Vanadium	NA	ug/L	ND (<50.0)	ND (<50.0)	ND (<50.0)	152	ND (<50.0)	ND (<50.0)	ND (<50.0)	ND (<50.0)
Zinc	2,000	ug/L	42.4	56.6	ND (<20.0)	1,200	30.0	ND (<20.0)	ND (<20.0)	ND (<20.0)
Mercury	0.7	ug/L	ND (<0.20)	ND (<0.20)	ND (<0.20)	ND (<0.20)	ND (<0.20)	ND (<0.20)	ND (<0.20)	ND (<0.20)
Total Cyanide	200	ug/L	ND (<10.0)	ND (<10.0)	14	**910**	50	ND (<10.0)	ND (<10.0)	25

AWQS = Ambient Water Quality Standards (from TOGS 1.1.1)
NA = NYSDEC AWQS Not Applicable for this Constituent
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Series
Bolded = values indicate exceedance of the NYSDEC AWQS

Appendix A – Quarterly Inspection Forms

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 12/16/2022 Time: 11:30

Technician: KL Weather: Snow 34

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	N/A	N/A	***21.95***	
RW-2	N/A	N/A	***19.42***	
RW-3	N/A	N/A	***31.70***	

Levels and Recovery in March and September Only

General Comments:

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 9/8/2022 Time: 8:00

Technician: KL Weather: Cloudy 72

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	N/A	N/A	***21.95***	
RW-2	15.25	N/A	***19.42***	
RW-3	18.10	31.10	***31.70***	0.6

Levels and Recovery in March and September Only

General Comments:

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 6/21/2022 Time: 13:00

Technician: KL Weather: Partly Cloudy 66

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	N/A	N/A	***21.95***	
RW-2	N/A	N/A	***19.42***	
RW-3	N/A	N/A	***31.70***	

Levels and Recovery in March and September Only

General Comments:

Field Inspection Report
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Date: 3/23/2022 Time: 13:00

Technician: KL Weather: Cloudy 43

Exterior Cover System			
Soil Intrusion Activities Being Performed	YES	NO	COMMENTS:
Evidence of any Intrusive Activities	YES	NO	COMMENTS:
Evidence of Saw Cutting	YES	NO	COMMENTS:
Evidence of Excavation or Trenching	YES	NO	COMMENTS:
Burrowing Animals	YES	NO	COMMENTS:

Interior Slab (West Side of Feldmeier Building)			
Sub-Slab Activities Being Performed	YES	NO	COMMENTS:
Signs of Sub-Slab Soil Intrusive Activities	YES	NO	COMMENTS:
Evidence of Excavation or Tunneling	YES	NO	COMMENTS:

Site Monitoring Wells		
Well ID.	***Location Secure***	
B-MW-3	YES	NO
FW-MW-1	YES	NO
FW-MW-2	YES	NO
FW-MW-3	YES	NO
FW-MW-5	YES	NO
MW-101RD	YES	NO
MW-102R	YES	NO
MW-103R	YES	NO
RW-1	YES	NO
RW-2	YES	NO
RW-3	YES	NO

Site DNAPL Recovery Wells				
Well ID.	***DTW***	***DTP***	***DTB***	***Thickness***
RW-1	N/A	NP	***21.95***	
RW-2	15.25	NP	***19.42***	
RW-3	13.93	NP	***31.70***	trace on probe

Levels and Recovery in March and September Only

RW-1 was buried under shipping materials unable to access

General Comments:

Appendix B – Well Sampling Field Data

National Grid
Non-Owned Former MGP Site
Mill Street
Little Falls, New York

Annual Groundwater Sampling Event
September 8, 2022
KL and PL

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
B-MW-3	Yes	2"	PVC	Flush		15.13		16.14	No	Field Duplicate
FW-MW-1	Yes	2"	PVC	Flush	—	18.92	-	23.10	No	
FW-MW-2	Yes	2"	PVC	Flush	—	9.34	—	14.63	No	
FW-MW-3	Yes	2"	PVC	Flush	—	8.48	—	14.15	No	
FW-MW-5	Yes	2"	PVC	Flush	—	7.34	—	11.45	No	
MW-101RD	Yes	2"	PVC	Flush	—	10.47	—	51.35	Yes	MS/MSD
MW-102R	Yes	2"	PVC	Flush	—	19.52	—	38.42	Yes	
MW-103R	Yes	2"	PVC	Flush	—	18.01	—	35.53	Yes	
RW-1	No	4"	PVC	Flush	—			21.95	Yes	Covered by form
RW-2	No	4"	PVC	Flush		15.25	—	19.42	Yes	
RW-3	No	4"	PVC	Flush		18.10	31.10	31.70	Yes	

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: Peter Lyon
Job Number: 0603324-133650-221
Well Id. **B-MW-3**

Date: 9/8/22
Weather: 75° Sunny
Time In: 1300 Time Out: 1340

Well Information

		TOC	Other
Depth to Water:	(feet)	15.13	
Depth to Bottom:	(feet)	16.14	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	1.01	
Volume of Water in Well:	(gal)	0.65	
Three Well Volumes:	(gal)	1.96	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]	
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]	
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]	
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	2			

Did well go dry? Yes [X] No [ ]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1305	15.48	12.03	7.58	-96	0.871	83.6	4.03	0.522
1310	15.67	18.27	7.07	-58	0.346	25.8	3.16	0.223
1315	15.95	18.69	6.97	-30	0.317	22.1	3.06	0.205
~~1320~~	Sampled Early well going DRY							
~~1325~~								
~~1330~~								
~~1335~~								

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	4 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	6 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		2 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		2 - 250 ml plastic	Yes [X] No [ ]

FD-0922
Sample ID: **B-MW-3-0922** Duplicate? Yes [X] No [ ]
Sample Time: ~~1335~~ 1315 MS/MSD? Yes [ ] No [X]

Shipped: Fed Ex [ ]
Pick-up by PACE Courier [X]

Laboratory: PACE Analytical Greensburg, PA

Comments/Notes:

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: Pete Lyon
Job Number: 0603324-133650-221
Well Id. **FW-MW-1**

Date: 9/8/20
Weather: 20° Sunny
Time In: 1128 Time Out: 1205

Well Information

		TOC	Other
Depth to Water:	(feet)	18.92	
Depth to Bottom:	(feet)	23.10	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	4.18	
Volume of Water in Well:	(gal)	0.66	
Three Well Volumes:	(gal)	2.00	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]	
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]	
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]	
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	36			
Total Volume Removed:	(gal)	2			

Did well go dry? Yes [X] No [ ]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1130	19.87	16.44	6.94	-183	1.03	127	2.08	0.660
1135	20.72	14.38	6.99	-207	0.960	71.6	0.81	0.611
1140	21.27	14.44	7.01	-206	0.932	70.3	0.71	0.596
1145	21.89	14.25	6.98	-201	0.921	70.0	0.72	0.589
1150	21.23	14.65	6.87	-181	0.906	60.3	1.61	0.580
1155	22.66	14.49	6.84	-181	0.921	48.7	1.84	0.589
1200	22.64	14.92	6.82	-181	0.907	51.1	1.61	0.580

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	2 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	3 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		1 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		1 - 250 ml plastic	Yes [X] No [ ]

Sample ID: **FWMW-1-0922**
Sample Time: 1200

Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Fed Ex [ ] Pick-up by PACE Courier [X]

Laboratory: PACE Analytical Greensburg, PA

Comments/Notes: Well Dried During Sampling

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: Peter Lyon
Job Number: 0603324-133650-221
Well Id. **FW-MW-2**

Date: 9/1/22
Weather: Cloudy 65°
Time In: 0850 Time Out: 0930

Well Information

		TOC	Other
Depth to Water:	(feet)	9.34	
Depth to Bottom:	(feet)	14.63	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	5.29	
Volume of Water in Well:	(gal)	0.84	
Three Well Volumes:	(gal)	2.53	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]	
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]	
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]	
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	2			

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
0855	10.17	16.69	7.07	-116	4.98	64.5	2.54	3.19
0900	11.09	15.78	6.59	-179	4.84	41.2	2.01	3.09
0905	11.39	15.74	6.53	-186	4.67	38.9	1.48	2.99
0910	11.62	15.60	6.53	-192	4.69	25.4	1.26	3.01
0915	12.10	15.43	6.54	-196	4.73	26.2	1.12	3.03
0920	12.52	15.25	6.54	-192	4.75	28.0	1.01	3.04
0925	12.28	15.16	6.54	-197	4.76	27.4	0.96	3.06

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	2 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	3 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		1 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		1 - 250 ml plastic	Yes [X] No [ ]

Sample ID: **FWMW-2-0922**
Sample Time: 0925

Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Fed Ex [ ] Pick-up by PACE Courier [X]

Laboratory: PACE Analytical Greensburg, PA

Comments/Notes:

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: Peter Lyon
Job Number: 0603324-133650-221
Well Id. **FW-MW-3**

Date: 9/9/22
Weather: 65 cloudy
Time In: 945 Time Out: 1025

Well Information

		TOC	Other
Depth to Water:	(feet)	8.48	
Depth to Bottom:	(feet)	14.15	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	5.67	
Volume of Water in Well:	(gal)	0.90	
Three Well Volumes:	(gal)	2.72	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]	
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]	
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]	
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	2			

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
0950	8.84	17.41	6.97	-22	1.01	60	2.42	0.644
0955	9.32	18.09	6.66	-7	0.958	105	1.98	0.613
1000	9.79	18.24	6.59	33	0.912	73.9	1.71	0583
1005	11.02	12.83	6.54	87	0.932	50.9	1.48	0.597
1010	12.12	17.79	6.52	104	0.965	44.4	1.25	0619
1015	13.21	16.64	6.52	62	0.970	48.0	1.05	0.621
1020	13.46	17.79	6.46	28	1.00	44.7	1.46	0.641

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	2 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	3 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		1 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		1 - 250 ml plastic	Yes [X] No [ ]

Sample ID: **FWMW-3-0922**
Sample Time: 1020

Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Fed Ex [ ]
Pick-up by PACE Courier [X]

Laboratory: PACE Analytical
Greensburg, PA

Comments/Notes:

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: Peter Lyon
Job Number: 0603324-133650-221
Well Id. **FW-MW-5**

Date: 9/8/22
Weather: 65° Sunny
Time In: 1035 Time Out:

Well Information

		TOC	Other
Depth to Water:	(feet)	7.34	
Depth to Bottom:	(feet)	11.45	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	4.11	
Volume of Water in Well:	(gal)	0.65	
Three Well Volumes:	(gal)	1.97	

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

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]	
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]	
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]	
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	2			

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1040	7.94	18.62	6.46	31	1.83	52.4	1.17	1.12
1045	8.32	18.62	6.40	47	1.88	25.9	0.72	1.20
1050	8.89	18.60	6.44	62	1.82	15.7	0.64	1.16
1055	9.49	18.28	6.48	77	1.85	15.3	0.57	1.18
1100	9.65	18.42	6.45	28	1.67	12.9	0.68	1.07
1105	9.78	18.49	6.45	-12	1.60	10.3	0.71	1.03
1110	9.84	18.48	6.48	-63	1.56	2.8	1.10	0.995

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	2 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	3 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		1 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		1 - 250 ml plastic	Yes [X] No [ ]

Sample ID: **FWMW-5-0922**
Sample Time: 1110

Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Fed Ex [ ] Pick-up by PACE Courier [X]

Laboratory: PACE Analytical Greensburg, PA

Comments/Notes:

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: K
Job Number: 0603324-133650-221
Well Id. **MW-101RD**

Date: 9/8/22
Weather: Sunny 75
Time In: 1310 Time Out:

Well Information

		TOC	Other
Depth to Water:	(feet)	10.47	
Depth to Bottom:	(feet)	51.35	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	40.88	
Volume of Water in Well:	(gal)	6.54	
Three Well Volumes:	(gal)	19.62	

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

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]
Average Pumping Rate:	(ml/min)	250		
Duration of Pumping:	(min)	30		
Total Volume Removed:	(gal)	2		

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
13:05	10.80	16.06	7.10	-169	1.57	7.1	3.11	0.96
13:10	10.65	16.40	6.89	-125	1.53	4.8	1.63	1.04
13:15	10.65	15.75	6.78	-152	2.52	2.2	0.94	1.62
13:20	10.75	15.33	6.77	-161	2.67	0.9	0.86	1.71
13:25	10.75	15.14	6.76	-165	2.73	0.3	0.81	1.75
13:30	10.75	15.02	6.73	-168	2.76	0.4	0.73	1.77
13:35	10.75	14.99	6.71	-169	2.77	0.4	0.65	1.77

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	6 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	9 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		3 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		3 - 250 ml plastic	Yes [X] No [ ]

MW-101RD-MS-0922 **MW-101RD-MSD-0922**

Sample ID: **MW-101RD-0922** Duplicate? Yes [ ] No [X]
Sample Time: 13:35 MS/MSD? Yes [X] No [ ]

Shipped: Fed Ex [ ]
Pick-up by PACE Courier [X]

Laboratory: PACE Analytical Greensburg, PA

Comments/Notes:

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: K
Job Number: 0603324-133650-221
Well Id. **MW-102R**

Date: 9/8/22
Weather: Sun 74
Time In: 12:00 Time Out:

Well Information

		TOC	Other
Depth to Water:	(feet)	19.52	
Depth to Bottom:	(feet)	38.42	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	18.9	
Volume of Water in Well:	(gal)	3.02	
Three Well Volumes:	(gal)	9.07	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]	
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]	
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]	
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	2			

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
12:15	20.48	19.23	7.38	-94	1.98	2.1	1.15	1.28
12:20	21.05	18.70	6.97	-129	2.16	0.3	1.13	1.39
12:25	21.65	15.79	6.87	-151	2.32	0.0	1.29	1.49
12:30	21.98	14.85	6.84	-164	2.36	0.0	1.35	1.51
12:35	22.33	14.77	6.81	-171	2.27	0.0	1.55	1.45
12:40	22.41	15.50	6.79	-176	2.17	0.0	1.51	1.39
12:45	22.46	15.45	6.83	-185	2.06	0.0	1.49	1.32

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	2 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	3 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		1 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		1 - 250 ml plastic	Yes [X] No [ ]

Sample ID: **MW-102R-0922**
Sample Time: 12:45

Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Fed Ex [ ]
Pick-up by PACE Courier [X]

Laboratory: PACE Analytical Greensburg, PA

Comments/Notes:

National Grid
Mill Street, Little Falls, New York

Sampling Personnel: Peter Lyn
Job Number: 0603324-133650-221
Well Id. **MW-103R**

Date: 9/8/22
Weather: Sunny 75
Time In: 1219 Time Out: 1255

Well Information

		TOC	Other
Depth to Water:	(feet)	18.04	
Depth to Bottom:	(feet)	35.53	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	12.49	
Volume of Water in Well:	(gal)	2.79	
Three Well Volumes:	(gal)	8.39	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

Purging Information

Purging Method:		Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]	
Tubing/Bailer Material:		Teflon [ ]	Stainless St. [ ]	Polyethylene [X]	
Sampling Method:		Bailer [X]	Peristaltic [X]	Grundfos Pump [ ]	
Average Pumping Rate:	(ml/min)	200			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	2			

Did well go dry? Yes [ ] No [X]

Horiba U-52 Water Quality Meter Used? Yes [X] No [ ]

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				

Time	DTW (feet)	Temp (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1220	18.99	15.83	6.43	-119	2.95	80	2.72	1.95
1225	20.30	14.12	6.67	-151	3.14	~~343~~ 343	1.12	2.00
1230	21.31	14.51	6.72	-156	3.12	99.0	0.87	2.00
1235	22.27	14.60	6.74	-157	3.14	75.4	0.80	2.01
1240	23.50	14.57	6.76	-164	3.13	55.2	0.72	2.01
1245	24.42	14.58	6.77	-166	3.13	43.0	0.69	2.00
1250	25.48	14.54	6.80	-167	3.09	26.8	0.70	1.98

Sampling Information:

EPA SW-846 Method 8270	SVOC PAH's	Including Total PAH's	2 - 100 ml amber	Yes [X] No [ ]
EPA SW-846 Method 8260	VOC's BTEX	Including Total BTEX	3 - 40 ml vials	Yes [X] No [ ]
EPA SW-846 Method 9012	Total Cyanide		1 - 250 ml plastic	Yes [X] No [ ]
EPA SW-846 Methods 6010/7470	TAL Inorganics		1 - 250 ml plastic	Yes [X] No [ ]

Sample ID: **MW-103R-0922**
Sample Time: 1250

Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Fed Ex [ ]
Pick-up by PACE Courier [X]

Laboratory: PACE Analytical Greensburg, PA

Comments/Notes:

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company: GES - Syracuse

Address: 6780 Northern Blvd, Suite 100

East Syracuse, New York 13057

Email To: dshay@gesonline.com

Phone: 800.220.3069 x4052 | Fax: None

Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Devin Shay (GES) dshay@gesonline.com

Report To: Tim Beaumont (GES) tbeaumont@gesonline.com

Annual GWS

Purchase Order No.:

Project Name: National Grid Little Falls, NY

Project Number: 0603324-133650-221

Section C Invoice Information:

Attention: Accounts Payable via email at ges-invoices@gesonline.com

Company Name: Groundwater & Environmental Services, Inc.

Address: 6780 Northern Blvd, Suite 100, East Syracuse, NY 13057

Pace Quote Reference:

Pace Project Manager: Rachel Christner

Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER _____

SITE LOCATION: GA IL IN MI NC OH SC WI OTHER____

Filtered (Y/N)

Requested Analysis:

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED GRAB DATE	COLLECTED GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis: TCL VOCs (8260C)	TCL SVOCs (8270D)	TAL Metals (6010C & 7470A)	Chloride, Total (9212B)	Pace Project Number / Lab I.D.
1	B-MW-3-0922	WT	G			9/8/22	0900		7	2		1	3	1				3	2	1	1	
2	FWMW-1-0922	WT	G			9/8/22	0925		7	2		1	3	1				3	2	1	1	
3	FWMW-2-0922	WT	G			9/8	1020		7	2		1	3	1				3	2	1	1	
4	FWMW-3-0922	WT	G			9/8	1110		7	2		1	3	1				3	2	1	1	
5	FWMW-5-0922	WT	G				13:35		7	2		1	3	1				3	2	1	1	
6	MW-101RD-0922	WT	G						7	2		1	3	1				3	2	1	1	
7	MW-101RD-MS-0922	WT	G						7	2		1	3	1				3	2	1	1	
8	MW-101RD-MSD-0922	WT	G				12:45		7	2		1	3	1				3	2	1	1	
9	MW-102R-0922	WT	G			9/8/22	1250		7	2		1	3	1				3	2	1	1	
10	MW-103R-0922	WT	G				—		7	2		1	3	1				3	2	1	1	
11	FD-0922	WT	G						7	2		1	3	1				3	2	1	1	
12	Trip Blank	WT	Lab				13:20		3				3					3				

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	9/8/22	1520			

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Y/N	Y/N	Y/N	Y/N
Y/N	Y/N	Y/N	Y/N
Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible]

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/8/22

Additional Comments:

SAMPLES WILL ARRIVE IN # COOLERS.

Please send reports to: dshay@gesonline.com,tbeaumont@gesonline.com

NERegion@gesonline.com, ges@equisonline.com

SPECIFIC EDD NAME:

NGLittleFalls-*labnumber*.28351.EQEDD.zip

Appendix C – Data Usability Summary Report and Analytical Data

Groundwater
& Environmental Services, Inc.

701 N Main Blacksburg, Virginia 24060 • (866) 756 0788

March 8, 2023

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

RE: Data Usability Summary Report for National Grid Mill Street, Little Falls, NY Site Data Packages Pace Job No. 30520717

Groundwater & Environmental Services, Inc. (GES) reviewed one data package (Laboratory Project Number 30520717) Pace Analytical Services, LLC. Greensburg, PA.

The report detailed the analytical results of groundwater samples collected from monitoring wells collected on September 8, 2022 at the Little Falls site. Eight aqueous samples and a field duplicate were analyzed for volatile organic compounds (VOCs), polyaromatic hydrocarbons (PAHs), Metals, Mercury, and Cyanide. Methodologies utilized were those of EPA 6010C, EPA 7470A and the USEPA SW846 methods 8260C/8270D/9012, with additional QC requirements of the NYSDEC ASP.

The data are 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

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

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

In summary, sample results are usable as reported. All quality control passed laboratory and EPA criteria. No data was qualified pursuant to this data validation effort.

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 – Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
FWMW-3	J- (detected) UJ- (non-detected)	All analytes	Dechlorination
B-MW-3-0922 FWMW-1-0922 FWMW-2-0922 FWMW-3-0922	UJ- J-	Phenolic compounds Acenapthene 4-Chlorophenylphenyl ether Dibenzofuran Fluorene	Surrogate for phenolics recovered low in samples and LCS. Specific target compounds were biased low in the LCS. Confirmation analysis was extracted outside hold time. Use original data with qualifiers noted.
FWMW-5-0922	UJ- J-	All SVOCs	Extracted outside hold time
All Samples	UJ-	Methylcyclohexane Styrene	Low CCV

Analytical Anomalies

- 2-Butanone and 1,1-Dichloroethane recovered high in the continuing calibration standard, non-detect in all the samples. No data is qualified.
- FWMW-2 for SVOC analysis was diluted due to matrix issues, surrogates were low, but do not reflect method efficacy. No data is qualified.
- Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. The laboratory reported results as individual isomers, however, for these two compounds, the peak represents an isomeric pair. There were no positive detections, therefore, no data is qualified.
- FWMW-3 required dechlorination. All VOC results are estimated with a possible low bias. Qualifications are noted in Table 1.

BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Samples were analyzed within hold time and instrumental tune fragmentations were within acceptance ranges. There were no positive detections in the blanks. Surrogate and internal standard recoveries were within required limits with the exception of diluted samples.

Laboratory control samples recovered within criteria with acceptable precision with the exception of the following:

- 2-Butanone recovered high, corresponding to the high CCV recovery. There were no detections, no data is qualified.

Calibrations standards show acceptable responses within analytical protocol and validation action limits with the exception of the following analytes:

Low CCV – impacts all samples – qualified “UJ-, J-“, estimated with a possible low bias:

- Methylcyclohexane – There are no sample detections, all samples are qualified as "UJ-"
- Styrene – There are no sample detections, all samples are qualified as "UJ-"

High CCV – impacts only samples with positive detections. qualified J+", estimated with a possible high bias:

- 2-Butanone – no qualification; all samples are non-detect
- 1,1-Dichloroethene - no qualification; all samples are non-detect

MS/MSD recoveries associated with MW-101RD were within criteria.

The MS/MSD RPD associated with MW-101RD was above maximum for Bromomethane. Data is already qualified.

The blind field duplicate correlations of BMW-3, where applicable, fall within guidance limits.

PAHs by EPA8270D/NYSDEC ASP

Holding times were met, however, low recoveries for the site samples and QC of the surrogate 2-fluorophenol resulted in data that was possibly biased low and may be unreliable. LCS recoveries were low for the following analytes associated with the 2-fluorophenol:

- 2-Chlorophenol
- 2-Methylphenol(o-Cresol)
- 4-Chlorophenylphenyl ether
- Acenaphthene
- Dibenzofuran
- Fluorene
- Phenol

The nonconformance required a confirmation analysis. This analysis was run outside hold time for the following samples:

- B-MW-3-0922
- FD-0922
- FWMW-1-0922
- FWMW-2-0922
- FWMW-3-0922
- FWMW-5-0922
- MW-101RD-0922
- MW-101RD-MS-0922
- MW-101RD-MSD-0922
- MW-102R-0922
- MW-103R-0922.

Data from the original analysis was confirmed in the re-analysis. Compounds that recovered low in the original LCS are considered possibly biased low, samples with low 2-fluorophenol have all associated phenolic analytes qualified as estimated with a possible low bias.

Instrumental tune fragmentations were within acceptance ranges.

Blanks show no contamination with the exception of a low-level detection of Di-n-octylphthalate in the method blank. There were no corresponding detections in the samples and data is unaffected. Calibration standards show acceptable responses within analytical protocol and validation action limits with the following exceptions:

High CCV – impacts only samples with positive detections. qualified J+", estimated with a possible high bias:

- Pentachlorophenol – no qualification; all samples are non-detect

MS/MSD associated with MW-101RD reported results within criteria. No data is qualified due to MS/MSD results.

The blind field duplicate correlations of BMW-3 -0922, where applicable, fall within guidance limits.

Metals by EPA 6010C/NYDESC ASP

The matrix spikes of MW-101RD recovered high for silver and sodium. The original concentrations for sodium was greater than 4x the concentration spiked, and the high recoveries do not indicate an issue with accuracy. Silver's high recoveries were not associated with a positive detection, so the high bias does not affect data.

The ICP Serial Dilution evaluations were within specification.

The blind field duplicate correlations of BMW-3 -0922, where applicable, fall within guidance limits.

Total Mercury by 7470A 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.

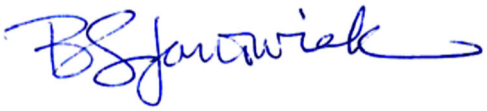
Calibration standard responses were compliant. Blanks show no detections above the reporting limits. All other laboratory spikes and duplicates of total cyanide show acceptable recoveries and/or correlations.

The blind field duplicate correlations of B-MW-3-0922, where applicable, fall within guidance limits.

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.
Principle Environment Chemist, N.R.C.C
701 N Main St
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.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30520717001	**B-MW-3-0922**	Water	09/08/22 13:15	09/08/22 15:00
30520717002	**FWMW-1-0922**	Water	09/08/22 12:00	09/08/22 15:00
30520717003	**FWMW-2-0922**	Water	09/08/22 09:25	09/08/22 15:00
30520717004	**FWMW-3-0922**	Water	09/08/22 10:20	09/08/22 15:00
30520717005	**FWMW-5-0922**	Water	09/08/22 11:10	09/08/22 15:00
30520717006	**MW-101RD-0922**	Water	09/08/22 13:35	09/08/22 15:00
30520717007	**MW-101RD-MS-0922**	Water	09/08/22 13:35	09/08/22 15:00
30520717008	**MW-101RD-MSD-0922**	Water	09/08/22 13:35	09/08/22 15:00
30520717009	**MW-102R-0922**	Water	09/08/22 12:45	09/08/22 15:00
30520717010	**MW-103R-0922**	Water	09/08/22 12:50	09/08/22 15:00
30520717011	**FD-0922**	Water	09/08/22 00:00	09/08/22 15:00
30520717012	**Trip Blank**	Water	09/08/22 13:00	09/08/22 15:00

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 6010C**
Description: 6010 MET ICP
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

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

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

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

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

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

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

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

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

QC Batch: 274225

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70229468003

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

- MS (Lab ID: 1385048)
  - Silver
  - Sodium

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

Additional Comments:

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

General Information:
11 samples were analyzed for EPA 7470A by Pace Analytical Services Long Island. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

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

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

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

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

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

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

Additional Comments:

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

General Information:
11 samples were analyzed for EPA 8270D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

ED: Due to the extract's physical characteristics, the analysis was performed at dilution.
- FWMW-2-0922 (Lab ID: 30520717003)

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

H2: Extraction or preparation conducted outside EPA method holding time.
- B-MW-3-0922 (Lab ID: 30520717001)
- FD-0922 (Lab ID: 30520717011)
- FWMW-1-0922 (Lab ID: 30520717002)
- FWMW-2-0922 (Lab ID: 30520717003)
- FWMW-3-0922 (Lab ID: 30520717004)
- FWMW-5-0922 (Lab ID: 30520717005)
- MW-101RD-0922 (Lab ID: 30520717006)
- MW-101RD-MS-0922 (Lab ID: 30520717007)
- MW-101RD-MSD-0922 (Lab ID: 30520717008)
- MW-102R-0922 (Lab ID: 30520717009)
- MW-103R-0922 (Lab ID: 30520717010)

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

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

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

QC Batch: 531946

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- B-MW-3-0922 (Lab ID: 30520717001)
  - Pentachlorophenol
- BLANK (Lab ID: 2580770)
  - Pentachlorophenol
- FD-0922 (Lab ID: 30520717011)
  - Pentachlorophenol
- FWMW-1-0922 (Lab ID: 30520717002)
  - Pentachlorophenol
- FWMW-2-0922 (Lab ID: 30520717003)
  - Pentachlorophenol
- FWMW-3-0922 (Lab ID: 30520717004)

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

QC Batch: 531946

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- Pentachlorophenol
- LCS (Lab ID: 2580771)
  - Pentachlorophenol
- MS (Lab ID: 2580772)
  - Pentachlorophenol
- MSD (Lab ID: 2580773)
  - Pentachlorophenol
- MW-101RD-0922 (Lab ID: 30520717006)
  - Pentachlorophenol
- MW-101RD-MS-0922 (Lab ID: 30520717007)
  - Pentachlorophenol
- MW-101RD-MSD-0922 (Lab ID: 30520717008)
  - Pentachlorophenol
- MW-102R-0922 (Lab ID: 30520717009)
  - Pentachlorophenol
- MW-103R-0922 (Lab ID: 30520717010)
  - Pentachlorophenol

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

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

QC Batch: 531946

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- FWMW-2-0922 (Lab ID: 30520717003)
  - Phenol-d6 (S)

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.
- B-MW-3-0922 (Lab ID: 30520717001)
  - 2-Fluorophenol (S)
- FWMW-1-0922 (Lab ID: 30520717002)
  - 2-Fluorophenol (S)
- FWMW-3-0922 (Lab ID: 30520717004)
  - 2-Fluorophenol (S)
- LCS (Lab ID: 2580771)
  - 2-Fluorophenol (S)

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 8270D**
Description: 8270D Organics Reduced Volume
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

QC Batch: 531946

B: Analyte was detected in the associated method blank.

- BLANK for HBN 531946 [OEXT/478 (Lab ID: 2580770)
  - Di-n-octylphthalate

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

QC Batch: 531946

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

- LCS (Lab ID: 2580771)
  - 2-Chlorophenol
  - 2-Methylphenol(o-Cresol)
  - 4-Chlorophenylphenyl ether
  - Acenaphthene
  - Dibenzofuran
  - Fluorene
  - Phenol

QC Batch: 533195

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

- LCS (Lab ID: 2586898)
  - Dimethylphthalate

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

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

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

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

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

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

QC Batch: 274275

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

- LCS (Lab ID: 1385179)
  - 2-Butanone (MEK)
  - Styrene
- MW-101RD-MS-0922 (Lab ID: 30520717007)
  - 2-Butanone (MEK)
  - Styrene
- MW-101RD-MSD-0922 (Lab ID: 30520717008)
  - 2-Butanone (MEK)
  - Styrene

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

- B-MW-3-0922 (Lab ID: 30520717001)
  - 1,1-Dichloroethene
- BLANK (Lab ID: 1385178)
  - 1,1-Dichloroethene
- FD-0922 (Lab ID: 30520717011)
  - 1,1-Dichloroethene
- FWMW-1-0922 (Lab ID: 30520717002)
  - 1,1-Dichloroethene
- FWMW-2-0922 (Lab ID: 30520717003)
  - 1,1-Dichloroethene
- FWMW-3-0922 (Lab ID: 30520717004)
  - 1,1-Dichloroethene
- FWMW-5-0922 (Lab ID: 30520717005)
  - 1,1-Dichloroethene
- LCS (Lab ID: 1385179)
  - 1,1-Dichloroethene
- MW-101RD-0922 (Lab ID: 30520717006)
  - 1,1-Dichloroethene

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PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

QC Batch: 274275

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

- MW-101RD-MS-0922 (Lab ID: 30520717007)
  - 1,1-Dichloroethene
- MW-101RD-MSD-0922 (Lab ID: 30520717008)
  - 1,1-Dichloroethene
- MW-102R-0922 (Lab ID: 30520717009)
  - 1,1-Dichloroethene
- MW-103R-0922 (Lab ID: 30520717010)
  - 1,1-Dichloroethene
- Trip Blank (Lab ID: 30520717012)
  - 1,1-Dichloroethene

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

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

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

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

QC Batch: 274275

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

- LCS (Lab ID: 1385179)
  - 2-Butanone (MEK)

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

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid Little Falls, NY
Pace Project No.: 30520717

Method: **EPA 9012B**
Description: 9012B Cyanide, Total
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 28, 2022

General Information:
11 samples were analyzed for EPA 9012B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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

Sample Preparation:
The samples were prepared in accordance with EPA 9012B with any exceptions noted below.

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

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

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

Additional Comments:

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